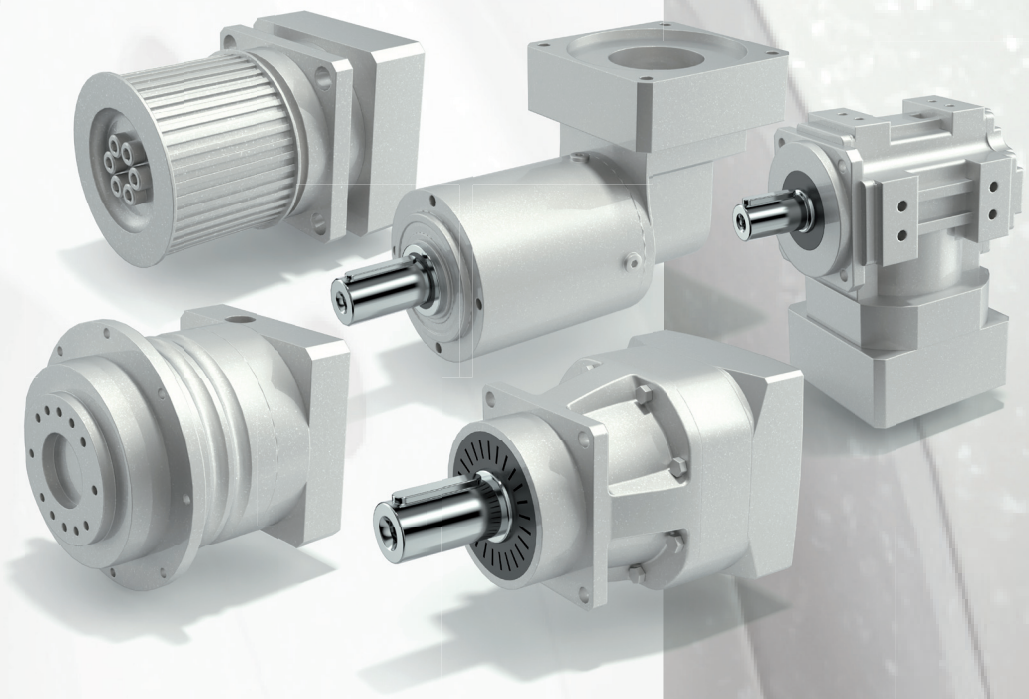
Bonfiglioli
Forever Forward



# Riduttori epicicloidali di precisione

Linee Performance ed Effective

PRODOTTI E SOLUZIONI

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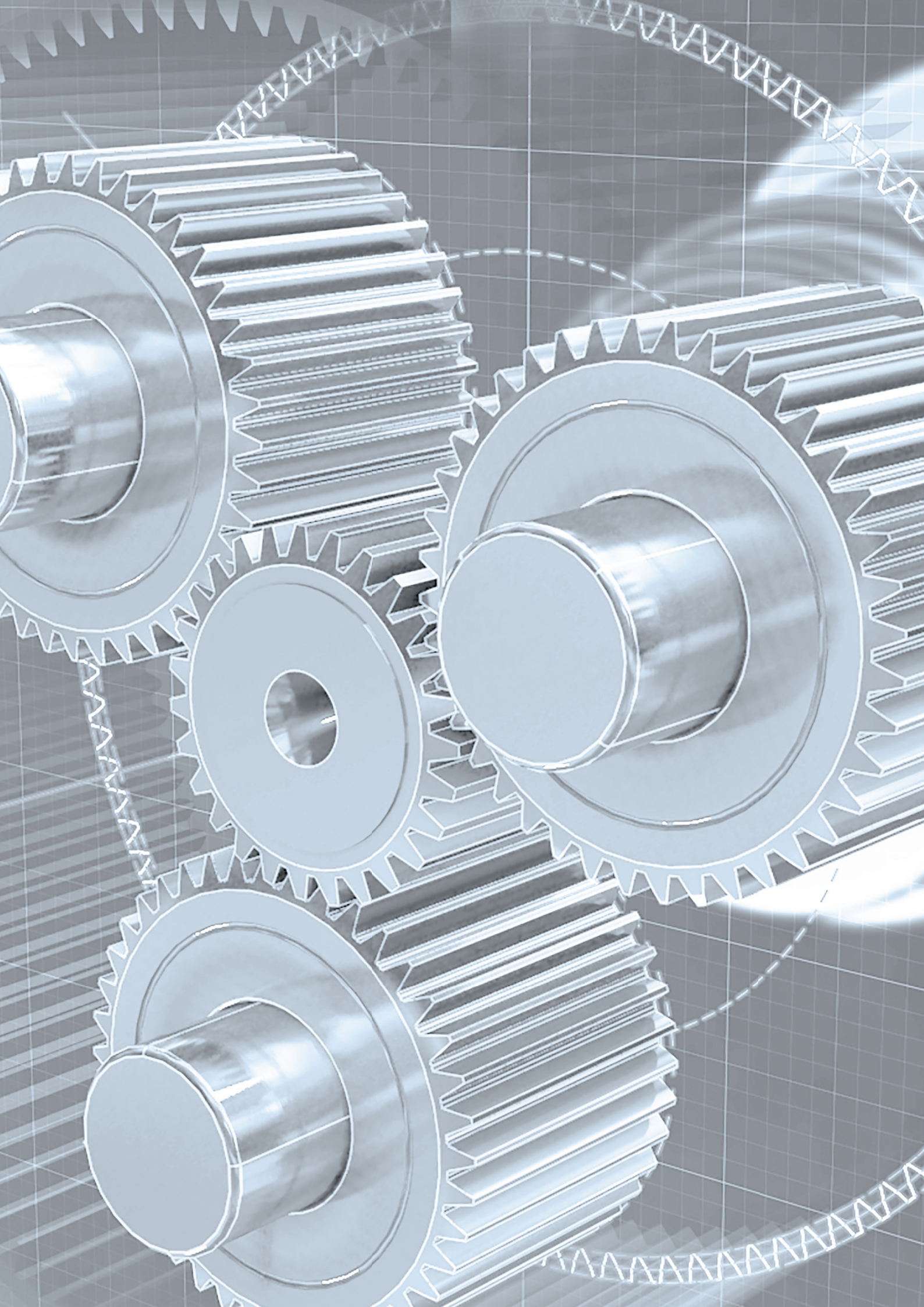
### Revisioni

L'indice di revisione del catalogo è riportato a pag. 262.
Al sito www.bonfiglioli.com sono disponibili i cataloghi con le revisioni aggiornate.



# Il massimo livello di precisione, efficienza e ottimizzazione energetica

Con quasi 20 anni di esperienza nella creazione di sistemi motion control dedicati, Bonfiglioli gode di una solida reputazione **come fornitore unico di applicazioni meccatroniche** nell'automazione industriale.
Gli esperti Bonfiglioli lavorano fianco a fianco con il cliente per sviluppare soluzioni integrate che riguardano l'intera catena cinematica, secondo un approccio in linea con gli standard **Industry 4.0**.
Grazie al vasto know-how acquisito e alla collaborazione a lungo termine con clienti importanti, i nostri due centri di eccellenza, situati in Italia e Germania, sviluppano **soluzioni meccatroniche innovative**, tra cui riduttori epicicloidali a gioco ridotto, servomotori, convertitori di frequenza, servo drive e unità rigenerative.

Tutto ciò, unito a una gamma completa di **servizi al cliente**, ci consente di:
- fornire **soluzioni user friendly e plug & play**
- **aumentare l'efficienza** e **la produttività** delle applicazioni
- progettare **soluzioni flessibili** e **modulari** adatte ad un'ampia gamma di applicazioni
- garantire l'accesso ai dati in tempo reale per **attività di diagnostica, manutenzione** e **analisi predittive**

VALUTAZIONE E CONSULENZA | PROGETTAZIONE E PIANIFICAZIONE | INSTALLAZIONE E MESSA IN SERVIZIO | RETROFIT E UPGRADE | MANUTENZIONE E RIPARAZIONE

## Al servizio del sistema del cliente per tutto il suo ciclo di vita

Gli esperti Bonfiglioli forniscono supporto ai clienti con un approccio proattivo, flessibile e personalizzato **per l'intero ciclo di vita del sistema di macchina**.

- **Valutazione e consulenza**: il nostro team fornisce supporto fin dalle primissime fasi del progetto tramite la valutazione dei requisiti e lo sviluppo di un'analisi mirata dell'applicazione, guidando i clienti nella scelta dei componenti più adatti per la loro soluzione.
- **Progettazione e pianificazione**: i nostri esperti collaborano con i clienti per progettare la loro applicazione, offrendo consulenza per le attività di dimensionamento, messa a punto e selezione della catena cinematica, tenendo sempre in considerazione l'ottimizzazione dei costi.
- **Installazione e messa in servizio**: collaboriamo con i nostri clienti per garantire un'installazione rapida ed economicamente vantaggiosa, ottimizzando le caratteristiche e funzionalità dei componenti selezionati.
- **Retrofit e potenziamento**: aggiorniamo le macchine dei clienti con tecnologia all'avanguardia per garantire livelli costanti di produttività e affidabilità.
- **Manutenzione e riparazione**: lavoriamo fianco a fianco con i clienti per evitare guasti, ridurre i periodi di inattività e garantire l'efficiente funzionamento del sistema.

# Soluzioni integrate per tutte le applicazioni industriali

I nostri esperti **lavorano fianco a fianco con i clienti** per creare la soluzione più efficace, che si tratti di ottimizzare un macchinario esistente o di svilupparne uno nuovo. Il nostro rapporto con il cliente si basa su **una partnership attiva** con processi decisionali rapidi per sviluppare offerte su misura e personalizzate.

La nostra offerta completa e modulare fornisce i prodotti necessari per lo sviluppo di soluzioni ad integrazione verticale in **una varietà di settori**, quali quello della movimentazione dei materiali, dello stoccaggio automatizzato, del tessile e degli imballaggi. Il nostro team di esperti assiste i clienti nella progettazione di macchine caratterizzate da alte performance e efficienza energetica, su misura delle esigenze specifiche.

## Soluzioni integrate

- Riduttori epicicloidali di precisione
- Riduttori industriali
- Motori sincroni a magneti permanenti
- Motori sincroni a riluttanza
- Motori asincroni
- Servo drive
- Convertitori di frequenza
- Convertitori di frequenza  rigenerativi
- Motion Control
- Soluzioni Industry 4.0

## Competenza nei settori industriali

MOVIMENTAZIONE MATERIALI

GRU E CARRIPONTE

CIBO E BEVANDE

MAGAZZINI AUTOMATIZZATI

IMBALLAGGIO

TESSILE

LAVORAZIONE DEI MATERIALI

# Strumenti digitali di Bonfiglioli

Grazie a una potente serie di **strumenti software** e **piattaforme online**, sviluppati attraverso collaborazioni con i maggior leader di mercato, Bonfiglioli consente ai suoi clienti di **realizzare soluzioni personalizzate** in modo fluido ed efficace: la selezione e il dimensionamento dei componenti, nonché la progettazione dell'intera catena cinematica, sono semplici e affidabili.

Inoltre, grazie all'approfondita conoscenza delle soluzioni industriali, **il team di progettazione di Bonfiglioli è in grado di aiutare i clienti** nel loro processo di selezione e progettazione, fornendo supporto tecnico di alta qualità per sviluppi specifici per ciascuna applicazione.

## SERVOSOFT | Sviluppo di soluzioni ottimizzate

Bonfiglioli e SERVOsoft® collaborano per **supportare i clienti nel definire le dimensioni di servo sistemi multiasse completi**, tra cui motori, riduttori e servo drive con 15 meccanismi e fino a 50 assi in una configurazione a bus condiviso o autonoma.

La disponibilità dei prodotti Bonfiglioli su SERVOsoft consente ai clienti di selezionare, dimensionare e progettare le loro applicazioni personalizzate e ad elevate prestazioni.

Inoltre, il team di progettazione di Bonfiglioli, grazie all'approfondita conoscenza dei prodotti, utilizza lo strumento di dimensionamento automatico di livello elevato SERVOsoft® per offrire un **eccellente servizio di assistenza alla clientela** con lo sviluppo di **soluzioni ingegneristiche personalizzate e a basso consumo energetico** per soddisfare le singole esigenze.

## MOSAICO | Configurazione del prodotto e assistenza in fase d'ordine

**Il sistema completo di e-business** di Bonfiglioli guida clienti, distributori e agenti nel processo di **selezione del prodotto adatto** alle loro esigenze specifiche e fornisce supporto per **attività di progettazione** e **gestione dell'ordine**, riducendo sensibilmente i tempi di selezione e di ordine del prodotto.

Grazie a questa tecnologia basata su Internet, i clienti posso rimanere in contatto con l'assistenza tecnica di Bonfiglioli in qualunque momento, ovunque si trovino.

## EPLAN | Miglioramento della progettazione elettrica

Bonfiglioli ed EPLAN collaborano per **offrire soluzioni ingegneristiche efficienti**, con l'obiettivo di ridurre il gap tra il progetto iniziale e il suo sviluppo, programmazione e messa in servizio, grazie a:

- Dati e documentazione sempre aggiornati sui dispositivi
- Semplice funzione di inserimento per sviluppare schemi elettrici ottimizzati

# Bonfiglioli Riduttori epicicloidali di precisione

Abbiamo un'esperienza decennale nel supportare clienti che operano in un ampio spettro di settori industriali, fornendo **un'ampia gamma di riduttori epicicloidali di precisione innovativi, efficienti ed estremamente affidabili**.

Il nostro team si impegna quotidianamente al fine di migliorare la gamma di prodotti in termini di qualità, sicurezza e sostenibilità ambientale. Sviluppiamo e produciamo i nostri riduttori epicicloidali di precisione esclusivamente in Italia, secondo **i più elevati standard** e procedure **di qualità**.

**Robusti, compatti, altamente performanti e appositamente personalizzati**: rispondiamo alle esigenze dei nostri clienti in tutti i settori, indipendentemente dalla complessità dei loro progetti. Il nostro portfolio è in continua evoluzione con l'obiettivo di fornire la risposta giusta per ogni applicazione, in base alle diverse esigenze in termini di prestazioni, prezzo e integrazione.

## La nostra storia

**1988**

SERIE **BGT**

**2002**

SERIE **MP/TR**

**2004**

SERIE **LC**

**2008**

SERIE **KR**

**2009**

SERIE **SL**

**2010**

SERIE **LCK**

**2013**

SERIE **TQ**

**2014**

SERIE **TQK**

**2015**

SERIE **TQF**

**2017**

SERIE **BMS**

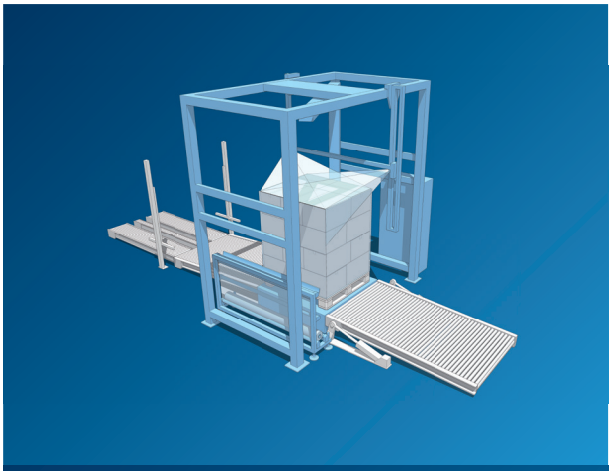
**2019**

SERIE **TQFE, TQFEK, MPE, MPEK**

# La soluzione ottimale per un ampio spettro di applicazioni

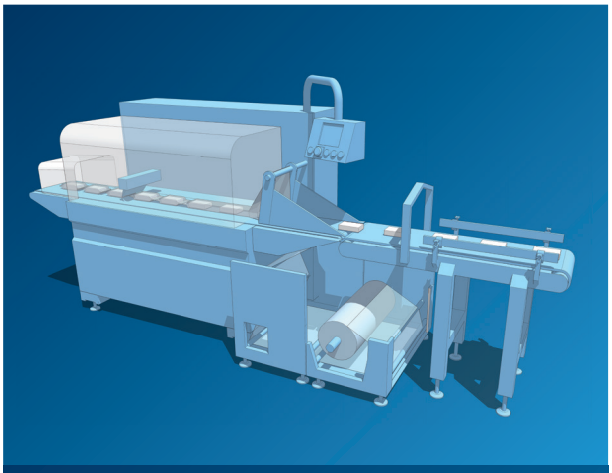
Che si tratti di movimentazione dei materiali, stoccaggio automatizzato, imballaggio o tecnologia di automazione, i nostri riduttori epicicloidali di precisione sono **ottimizzati per numerose applicazioni**.

La nostra offerta si espande ben oltre gli standard, fornendo le **soluzioni più adatte e su misura delle esigenze dei clienti** in termini di prestazioni e prezzo.

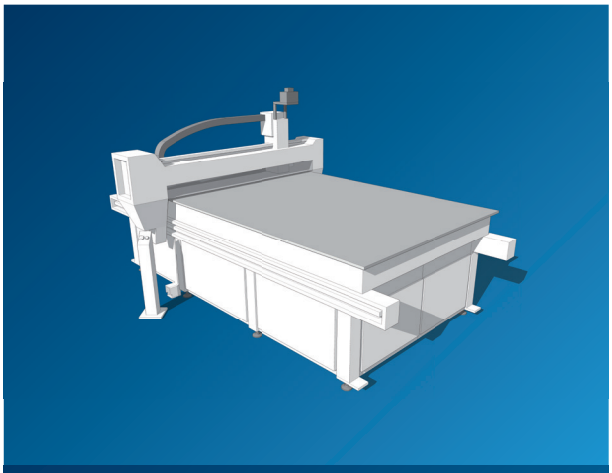


PALLETTIZZATORE

STOCCAGGIO AUTOMATIZZATO



CONFEZIONATRICE FLOW PACK



PERFORATRICE

# Linea Performance

(P)

## Sviluppata per soddisfare le richieste più esigenti e per garantire massime prestazioni.

La Linea Performance di riduttori epicicloidali di precisione Bonfiglioli include un'ampia selezione di prodotti sviluppati per **soddisfare le richieste più esigenti di applicazioni servo** caratterizzate da **elevata dinamicità** ed **elevati livelli di precisione**.

Bonfiglioli è consapevole della crescente necessità di applicazioni altamente complesse connesse alla massimizzazione della produttività delle macchine e alla crescita della varietà di prodotti nei sistemi di assemblaggio.
Quindi, in combinazione con i prodotti, ci concentriamo sull'offerta **di servizi di consulenza completi** e sullo **sviluppo di soluzioni su misura** che rispondano pienamente alle esigenze dei clienti, garantendo l'ottimizzazione delle applicazioni sia dal punto di vista delle prestazioni sia dell'efficienza energetica.

La Linea Performance presenta le caratteristiche perfette per l'abbinamento ai nostri servomotori e convertitori di frequenza in **sistemi integrati e ottimizzati**.

## Vantaggi principali

- Massima densità di potenza
- Eccezionale precisione di posizionamento
- Progettazione altamente avanzata
- Affidabilità estrema
- Facile installazione
- Soluzioni e servizi di progettazione su misura

| Prodotto | TQ | TQK | TQF | TR | MP |
|---|---|---|---|---|---|
| |  |  |  |  |  |
| Coppia nominale | ●●●● | ●●●● | ●●●● | ●●●●● | ●●●●● |
| Carico sui cuscinetti | ●●●● | ●●●● | ●●●●● | ●●●● | ●●●● |
| Velocità in ingresso | ●●●● | ●●●● | ●●●● | ●●●● | ●●●● |
| Rigidezza torsionale | ●●●● | ●●●● | ●●●●● | ●●● | ●●● |
| Gioco | ●●●●● | ●●● | ●●●● | ●●●● | ●● |
| Rapporti di riduzione | ●●● | ●●●● | ●●● | ●●●●● | ●●●●● |

● Standard > ●●●●● Eccellente

# Linea Effective

(E)

## Prestazioni ed affidabilità Bonfiglioli a un eccellente rapporto qualità-prezzo.

La Linea Effective di riduttori epicicloidali di precisione è progettata per **sistemi con requisiti medi di precisione, dinamicità e densità di potenza** e garantisce i conosciuti standard di **qualità e affidabilità Bonfiglioli** a un eccellente rapporto qualità-prezzo.

La nostra Linea Effective copre un'ampia gamma di prodotti caratterizzati da una elevata **flessibilità**.
Grazie all'ampia varietà di configurazioni e di versioni di design, questa linea consente un elevato grado di libertà durante la progettazione di applicazioni diverse.

Inoltre, questo gruppo di prodotti garantisce installazione e retrofit facili grazie alla **vasta compatibilità** con un'ampia gamma di standard di mercato.

Il nostro **team tecnico fornisce supporto ai clienti** già dalla fase di progettazione, per consentire una scelta rapida delle soluzioni più adatte.

## Vantaggi principali

- Ampia flessibilità
- Elevata modularità
- Eccellente rapporto qualità-prezzo
- Qualità e affidabilità Bonfiglioli

| TQFE | TQFEK | SL | LC | LCK | MPE | MPEK | KR | Prodotto |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  | |
| ●● | ●● | ●● | ●●● | ●●● | ●● | ●● | ● | Coppia nominale |
| ●●●● | ●●●● | ●●●● | ●●● | ●●● | ●●● | ●●● | ● | Carico sui cuscinetti |
| ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●● | Velocità in ingresso |
| ●●●● | ●●●● | ●●●● | ●● | ●● | ●● | ●● | ●● | Rigidezza torsionale |
| ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●● | Gioco |
| ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ● | Rapporti di riduzione |

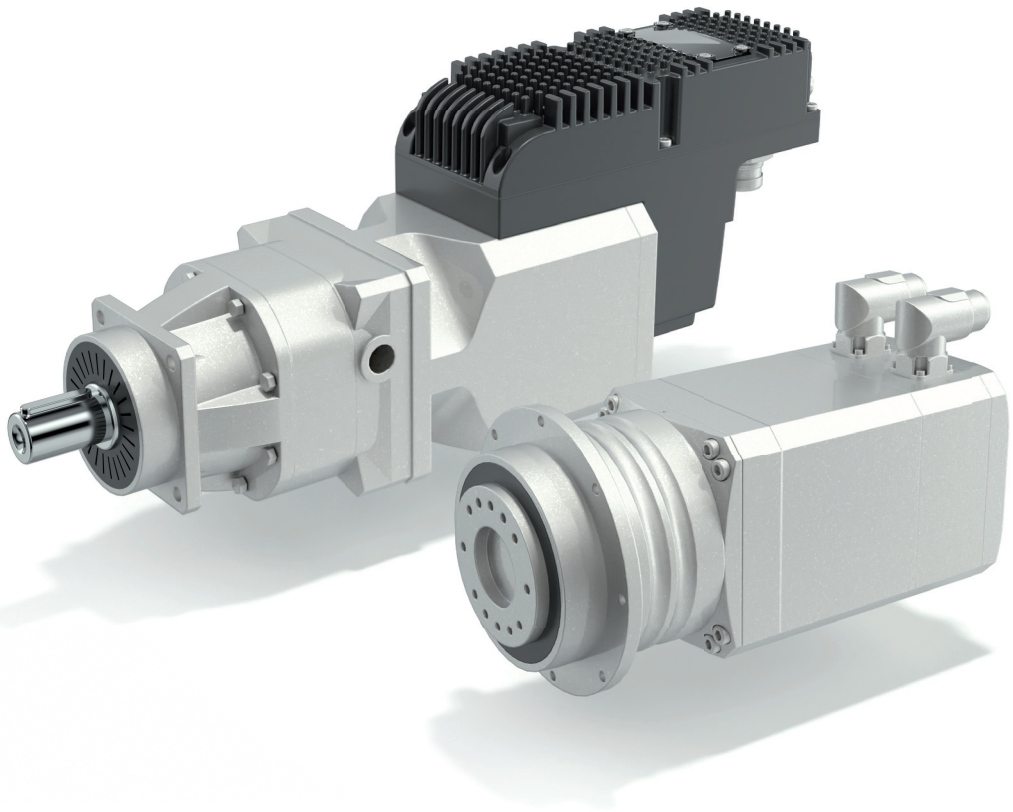
● Standard > ●●●●● Eccellente

# L'eccellenza nell'integrazione meccatronica

I nostri **servomotori integrati** rappresentano la risposta alle crescenti esigenze delle applicazioni industriali in termini di potenza, velocità e precisione. I nostri prodotti integrati sono progettati per **massimizzare le sinergie tra i nostri convertitori di frequenza, motori e riduttori** con l'obiettivo principale di **ottimizzare le prestazioni e ridurre la complessità**.
Le soluzioni meccatroniche integrate di Bonfiglioli si concentrano sul miglioramento degli aspetti chiave di prestazione quali: precisione, compattezza, efficienza energetica, dinamicità e affidabilità.

Il nostro **servo motoriduttore BMS** rappresenta l'integrazione ottimizzata tra i nostri riduttori epicicloidali di precisione e i nostri servomotori, combinando **l'elevata rigidezza torsionale** e **il gioco ridotto** dei nostri riduttori con la **massima densità di coppia** e **l'elevata dinamicità** dei nostri motori sincroni a magneti permanenti.

Inoltre, la combinazione dei nostri motori sincroni a magneti permanenti con i nostri potenti servo drive è progettata per applicazioni servo che richiedono i più elevati standard in termini di dinamica di controllo, precisione e robustezza.
**I nostri servomotori con drive integrati**, **iBMD**, offrono **coppie elevate** e **inerzia estremamente bassa** in un **pacchetto compatto e leggero**, ideale per applicazioni decentralizzate caratterizzate da elevata dinamicità.



# Informazioni tecniche

# 1 INFORMAZIONI GENERALI

## 1.1 SIMBOLI, DEFINIZIONI E UNITÀ DI MISURA

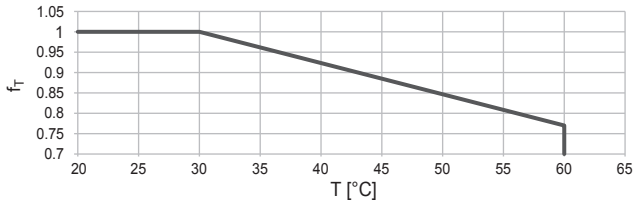
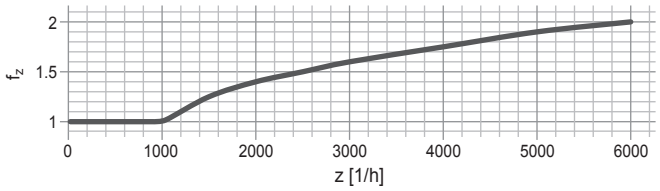
**Parametri dipendenti dall'APPLICAZIONE**

| simbolo | unità di misura | definizione |
|---|---|---|
| $A_2$ | [N] | Forza assiale applicata sull'albero lento |
| $A_{2\ EQU}$ | [N] | Forza assiale equivalente applicata sull'albero lento |
| $A_{2\ MAX}$ | [N] | Forza assiale massima applicata sull'albero lento |
| $R_2$ | [N] | Forza radiale applicata sull'albero lento |
| $R_{2\ EQU}$ | [N] | Forza radiale equivalente applicata sull'albero lento |
| $R_{2\ MAX}$ | [N] | Forza radiale massima applicata sull'albero lento |
| **ED** | [s] | Tempo di funzionamento (senza freno) |
| **ED%** | [%] | Fattore di utilizzo % |
| $L_{10h\ TARGET}$ | [h] | Durata di base dei cuscinetti dell'albero lento desiderata |
| $M_{1\ PEAK}$ | [Nm] | Coppia massima in ingresso (limitata dall' inverter) |
| $M_{2(1)}$ ... $M_{2(n)}$ | [Nm] | Coppia di uscita nei singoli intervalli $t_1$ ... $t_n$ |
| $M_{2\ EQU}$ | [Nm] | Coppia di uscita equivalente |
| $M_{2\ MAX}$ | [Nm] | Coppia di uscita massima in condizioni di emergenza |
| $M_{T2\ EQU}$ | [Nm] | Coppia di ribaltamento equivalente applicata sull'albero lento |
| $M_{T2\ MAX}$ | [Nm] | Coppia di ribaltamento massima applicata sull'albero lento |
| $n_1$ | [$min^{-1}$] | Velocità nominale in ingresso |
| $n_2$ | [$min^{-1}$] | Velocità di uscita |
| $n_{2(1)}$ ... $n_{2(n)}$ | [$min^{-1}$] | Velocità di uscita nei singoli intervalli $t_1$ ... $t_n$ |
| $n_{2\ EQU}$ | [$min^{-1}$] | Velocità di uscita equivalente |
| $n_{2\ MAX}$ | [$min^{-1}$] | Velocità massima in uscita |
| **T** | [C°] | Temperatura ambiente |
| $t_1$ ... $t_n$ | [s] | Intervalli di funzionamento |
| $t_\Sigma$ | [s] | Ciclo di funzionamento totale comprese le fasi di inattività |
| **Z** | [1/h] | Numero di cicli orari |

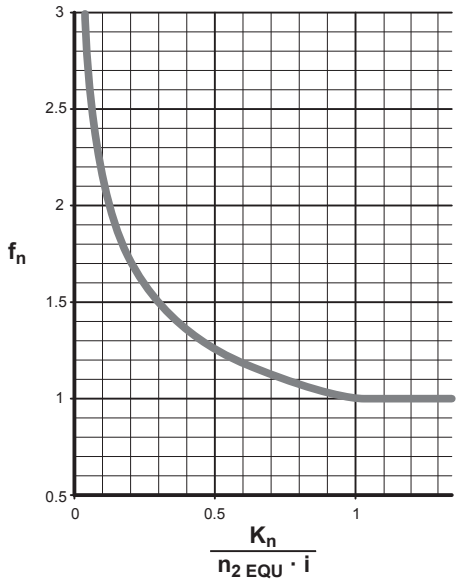
**Parametri dipendenti dal RIDUTTORE DI VELOCITÀ**

| simbolo | unità di misura | definizione |
|---|---|---|
| $A_{2/3\ max}$ | [N] | Forza assiale ammissibile sull'albero lento |
| $A_{2/3'\ max}$ | [N] | Forza assiale ammissibile in compresenza di carico radiale |
| $R_{1\ max}$ | [N] | Forza radiale ammissibile sulla mezzeria dell'albero veloce |
| $R_{2/3\ max}$ | [N] | Forza radiale ammissibile sulla mezzeria dell'albero lento |
| $C_B$ | [Nm] | Costante per il calcolo della durata teorica dei cuscinetti |
| $C_t$ | $\left[\frac{Nm}{arcmin}\right]$ | Rigidezza torsionale |
| **f** | — | Valore limite del rapporto tra forza assiale e forza radiale |
| $f_n$ | — | Fattore di velocità |
| $f_z$ | — | Fattore dinamico |
| $f_T$ | — | Fattore correttivo di temperatura |
| **i** | — | Rapporto di trasmissione |
| $J_G$ | [kgcm²] | Momento d'inerzia del riduttore |
| $K_n$ | — | Costante di velocità |
| $L_{10h}$ | [h] | Durata di vita dei cuscinetti |
| $L_Z$ | [mm] | Fattore per il calcolo della durata teorica dei cuscinetti |
| $M_{a\ 2}$ | [Nm] | Massima coppia accelerante in uscita |
| $M_{n\ 2}$ | [Nm] | Coppia nominale in uscita |
| $M_{p\ 2}$ | [Nm] | Coppia di emergenza. Consentita 1000 volte nella vita del riduttore |
| $M_{T2\ max}$ | [Nm] | Coppia di ribaltamento massima applicata sull'albero lento |
| $n_{1\ max}$ | [$min^{-1}$] | Velocità massima momentanea. La velocità alla quale può essere comandato il riduttore occasionalmente e in condizioni non ripetitive.<br>Per servizi intermittenti tipo S5 la velocità non può essere sviluppata continuativamente per più di 30 secondi. |
| **p** | — | Esponente nel calcolo della durata teorica dei cuscinetti |
| $\eta$ | [%] | Rendimento |
| $\varphi_R$ | [arcmin] | Il gioco ridotto è calcolato in condizioni statiche e con l'applicazione di una coppia pari al 2% della coppia nominale del riduttore |
| $\varphi_S$ | [arcmin] | Il gioco standard è calcolato in condizioni statiche e con l'applicazione di una coppia pari al 2% della coppia nominale del riduttore |

## 1.2 DIMENSIONAMENTO DEL RIDUTTORE

| | | | | |
|---|---|---|---|---|
| (a) | Rapporto di trasmissione | i | — | $i = \frac{n_1}{n_2}$ |
| (b) | Coppia di uscita equivalente | $M_{2\,EQU}$ | [Nm] | $M_{2\,EQU} = \sqrt[3]{\frac{\lvert n_{2(1)}\rvert \cdot t_1 \cdot \lvert M_{2(1)}\rvert^3 + \ldots + \lvert n_{2(n)}\rvert \cdot t_n \cdot \lvert M_{2(n)}\rvert^3}{\lvert n_{2(1)}\rvert \cdot t_1 + \ldots + \lvert n_{2(n)}\rvert \cdot t_n}}$ |
| (c) | Velocità di uscita equivalente | $n_{2\,EQU}$ | [$min^{-1}$] | $n_{2\,EQU} = \frac{\lvert n_{2(1)}\rvert \cdot t_1 + \lvert n_{2(2)}\rvert \cdot t_2 + \ldots + \lvert n_{2(n)}\rvert \cdot t_n}{t_\Sigma}$ |
| (d) | Fattore di velocità | $f_n$ | — | Se $\frac{K_n}{n_{2\,EQU} \cdot i} \geq 1 \Rightarrow f_n = 1$<br>Se $\frac{K_n}{n_{2\,EQU} \cdot i} < 1 \Rightarrow f_n$ = Ricavare dal diagramma |
| (e) | Fattore correttivo di temperatura | $f_T$ | — |  |
| (f) | Fattore di utilizzo<br>Tempo di funzionamento | ED%<br>ED | [%]<br>[s] | $ED\% = \frac{ED}{t_\Sigma} \cdot 100$<br>$ED = t_1 + t_2 + \ldots + t_n$ |
| (g) | Numero di cicli orari | Z | [1/h] | $Z = \frac{3600}{t_\Sigma}$ |
| (h) | Fattore dinamico* | $f_z$ | — |  <br>*Per Z>6000 contattateci! |
| (i) | Coppia massima in ingresso | $M_{1\,PEAK}$ | [Nm] | a) coppia di picco dell'applicazione<br>b) coppia motore limitata dall'inverter<br>c) massima coppia motore |

**$f_n$ - fattore di velocità**



## $K_n$ - costante di velocità

| i | TQ 060 | TQ 070 | TQ 090 | TQ 130 | TQ 160 |
|---|---|---|---|---|---|
| **3** | 3500 | 3100 | 1050 | 1800 | 1100 |
| **4** | 3500 | 3300 | 1050 | 2000 | 1450 |
| **5** | 3500 | 3500 | 1700 | 2500 | 1650 |
| **7** | 4000 | 3500 | 3000 | 2800 | 2500 |
| **10** | 4000 | 3500 | 3000 | 2800 | 2500 |
| **16** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **20** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **25** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **28** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **35** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **40** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **50** | 4500 | 3500 | 3500 | 3200 | 2500 |
| **70** | 5000 | 4500 | 4000 | 3500 | 2500 |
| **100** | 5000 | 4500 | 4000 | 3500 | 2500 |

| i | TQK 060 | TQK 070 | TQK 090 | TQK 130 | TQK 160 |
|---|---|---|---|---|---|
| **6** | 2400 | 2400 | 2000 | 1600 | 1600 |
| **8** | 2400 | 2400 | 2000 | 1600 | 1600 |
| **10** | 2400 | 2400 | 2000 | 1600 | 1600 |
| **14** | 2400 | 2400 | 2000 | 1600 | 1600 |
| **18** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **20** | 2400 | 2400 | 2400 | 1600 | 1600 |
| **24** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **30** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **40** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **50** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **70** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **80** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **100** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **140** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **200** | 2400 | 2400 | 2400 | 2000 | 1600 |

| i | TQF 060 | TQF 070 | TQF 090 | TQF 130 | TQF 160 |
|---|---|---|---|---|---|
| **4** | 3500 | 3300 | 1050 | 2000 | 1450 |
| **5** | 3500 | 3500 | 1700 | 2500 | 1650 |
| **7** | 4000 | 3500 | 3000 | 2800 | 2500 |
| **10** | 4000 | 3500 | 3000 | 2800 | 2500 |
| **16** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **20** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **25** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **28** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **35** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **40** | 4500 | 3500 | 3000 | 2800 | 2500 |
| **50** | 4500 | 3500 | 3500 | 3200 | 2500 |
| **70** | 5000 | 4500 | 4000 | 3500 | 2500 |
| **100** | 5000 | 4500 | 4000 | 3500 | 2500 |

In caso di servizio continuativo S1 con i valori contrassegnati con * la durata di vita dei cuscinetti si riduce.

| i | TR / MP 053 | TR / MP 060 | TR / MP 080 | TR / MP 105 | TR / MP 130 | TR / MP 160 | TR / MP 190 |
|---|---|---|---|---|---|---|---|
| **3** | 1400 | 1400 | 2700 | 2500 | 1700 | 550 | 1500 |
| **4** | 2000 | 1600 | 1500 | 1600* | 500* | 350* | 1150 |
| **5** | 2300 | 2050 | 1750 | 1850* | 600* | 350* | 1300 |
| **6** | 2300 | 2500 | 2500 | 1050* | 150* | 150* | 1150* |
| **7** | 3800 | 3000 | 2100 | 1350 | 400* | 300* | 1600 |
| **9** | 4000 | 3300 | 2900 | 2500 | 2100 | 1600 | 1500 |
| **10** | – | 4000 | 4000 | 3500 | 3200 | 1150 | 2900 |
| **12** | 3300 | 3300 | 1500 | 1500 | 500 | 300* | 1050 |
| **15** | 3300 | 3300 | 1700 | 1750 | 600 | 350* | 1200 |
| **16** | 3500 | 3500 | 1950 | 2050 | 700 | 450* | 1400 |
| **20** | 3500 | 3500 | 2450 | 2550 | 850 | 300 | 1750 |
| **25** | 3500 | 3500 | 2800 | 2900 | 1000 | 350 | 2000 |
| **28** | 4000 | 4000 | 3450 | 3500 | 1200 | 450 | 2450 |
| **30** | – | 4000 | 4000 | 3500 | 3200 | 3000 | 1950 |
| **35** | 4000 | 4000 | 3950 | 3500 | 1350 | 500 | 2800 |
| **36** | 4000 | 3500 | 3200 | 1950 | 550 | 500 | 2300 |
| **40** | – | 4000 | 4000 | 3500 | 1700 | 650 | 2900 |
| **45** | 4000 | – | – | – | – | – | – |
| **48** | 4000 | 3500 | 3100 | 2800 | 2300 | 850 | 2100 |
| **50** | – | 4000 | 4000 | 3500 | 1950 | 750 | 2900 |
| **60** | 3500 | – | – | – | – | – | – |
| **64** | 3500 | 3500 | 3100 | 2800 | 2400 | 1000 | 2100 |
| **70** | – | 4000 | 4000 | 3500 | 2400 | 900 | 2900 |
| **75** | 3500 | 3500 | 3200 | 3000 | 2900 | 1350 | 2300 |
| **80** | 3500 | 3500 | 3100 | 2800 | 2400 | 1300 | 2100 |
| **81** | 4000 | – | – | – | – | – | – |
| **84** | 4000 | 4000 | 4000 | 3500 | 2900 | 1050 | 2900 |
| **90** | – | 4000 | 4000 | 3500 | 2850 | 3000 | 2900 |
| **100** | 3500 | 4000 | 4000 | 3500 | 3200 | 3000 | 2900 |
| **112** | 3500 | – | – | – | – | – | – |
| **120** | – | 4000 | 4000 | 3500 | 3200 | 2150 | 2900 |
| **125** | 3500 | 3500 | 3200 | 3000 | 2900 | 1800 | 2300 |
| **140** | 4000 | 4000 | 4000 | 3500 | 3200 | 2050 | 2900 |
| **144** | 4000 | – | – | – | – | – | – |
| **150** | – | 4000 | 4000 | 3500 | 3200 | 2200 | 2900 |
| **160** | – | 4000 | 4000 | 3500 | 3200 | 2550 | 2900 |
| **175** | 4000 | 4000 | 4000 | 3500 | 3200 | 2550 | 2900 |
| **180** | 4000 | – | – | – | – | – | – |
| **200** | – | 4000 | 4000 | 3500 | 3200 | 2900 | 2900 |
| **210** | – | 4000 | 4000 | 3500 | 3200 | 2700 | 2900 |
| **216** | 3500 | 3500 | 3200 | 3000 | 1900 | – | – |
| **225** | 4000 | – | – | – | – | – | – |
| **245** | 4000 | – | – | – | – | – | – |
| **250** | – | 4000 | 4000 | 3500 | 3200 | 3000 | 2900 |
| **252** | 4000 | – | – | – | – | – | – |
| **280** | – | 4000 | 4000 | 3500 | 3200 | 3000 | 2900 |
| **324** | 4000 | – | – | – | – | – | – |
| **350** | – | 4000 | 4000 | 3500 | 3200 | 3000 | 2900 |
| **400** | – | 4000 | 4000 | 3500 | 3200 | 3000 | 2900 |
| **405** | 4000 | – | – | – | – | – | – |
| **500** | | 4000 | 4000 | 3500 | 3200 | 3000 | 2900 |
| **567** | 4000 | – | – | – | – | – | – |
| **700** | – | 4000 | 4000 | 3500 | 3200 | 3000 | 2900 |
| **729** | 4000 | – | – | – | – | – | – |
| **1000** | – | 4000 | 4000 | 3500 | 3200 | 3000 | 2900 |

## $K_n$ - costante di velocità

| i | MPE 040 | MPE 060<br>TQFE 060 | MPE 080<br>TQFE 070 | MPE 120<br>TQFE 090 |
|---|---|---|---|---|
| **3** | 2000 | 1400 | 3500 | 2500 |
| **4** | 2000 | 1600 | 2000 | 1700 |
| **5** | 2000 | 2050 | 1500 | 1500 |
| **7** | 3000 | 3050 | 1900 | 1900 |
| **9** | 2000 | 3300 | 3500 | 2500 |
| **10** | 3000 | 4000 | 3500 | 3500 |
| **12** | 3000 | 3300 | 3500 | 2500 |
| **15** | 3000 | 3500 | 3500 | 3000 |
| **16** | 3000 | 3500 | 3100 | 3000 |
| **20** | 3000 | 3700 | 3200 | 3000 |
| **25** | 3000 | 4000 | 3200 | 3000 |
| **28** | 3000 | 3700 | 3500 | 3000 |
| **30** | 3000 | 4000 | 4000 | 3500 |
| **35** | 3000 | 4000 | 3500 | 3000 |
| **40** | 3000 | 4000 | 4000 | 3500 |
| **50** | 3000 | 4000 | 4000 | 3500 |
| **70** | 3000 | 4000 | 4000 | 3500 |
| **100** | 3000 | 4000 | 4000 | 3500 |

| i | LC 050 | LC 070<br>LC 070P | LC 090 /<br>LC 090P | LC 120 /<br>LC 120P | LC 155 /<br>LC 155P |
|---|---|---|---|---|---|
| **3** | 1650 | 1400 | 2900 / 3500 | 2500 / 3000 | 1350 / 2100 |
| **4** | 2200 | 1600 | 2500 / 2000 | 2100 / 1700 | 900 / 2200 |
| **5** | 2900 | 2050 | 2700 / 1500 | 2300 / 1500 | 950 / 800 |
| **7** | 3700 | 3050 | 3500 / 1900 | 3000 / 1900 | 1250 |
| **9** | 4000 | 3300 | 2900 / 3500 | 2500 / 3000 | 2100 |
| **10** | – | 4000 | 4000 / 3500 | 3500 | 2500 / 3200 |
| **12** | 3300 | 3300 | 2900 / 3500 | 2500 / 3000 | 2100 |
| **15** | 3300 | 3300 | 2900 / 3500 | 2500 / 3000 | 2100 |
| **16** | 3500 | 3500 | 3100 | 2800 | 2400 |
| **20** | 3500 | 3500 | 3200 | 3000 | 2900 |
| **25** | 3500 | 3500 | 3200 | 3000 | 2900 |
| **28** | 3500 | 3700 | 3500 | 3500 | 3000 |
| **30** | – | 4000 | 4000 | 3500 | 3000 |
| **35** | 3700 | 4000 | 3500 | 3000 | 3000 |
| **36** | 4000 | – | – | – | – |
| **40** | – | 4000 | 4000 | 3500 | 3000 |
| **45** | 4000 | – | – | – | – |
| **50** | – | 4000 | 4000 | 3500 | 3000 |
| **70** | – | 4000 | 4000 | 3500 | 3000 |
| **81** | 4000 | – | – | – | – |
| **100** | – | 4000 | 4000 | 3500 | 3000 |

| i | LCK 050 | LCK 070<br>LCK 070P | LCK 090<br>LCK 090P | LCK 120<br>LCK 120P | LCK 155<br>LCK 155P |
|---|---|---|---|---|---|
| **6** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **8** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **10** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **14** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **20** | – | 2400 | 2400 | 2000 | 1600 |
| **24** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **30** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **50** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **70** | 2400 | 2400 | 2400 | 2000 | 1600 |
| **80** | – | 2400 | 2400 | 2000 | 1600 |
| **90** | 2400 | – | – | – | – |
| **100** | – | 2400 | 2400 | 2000 | 1600 |

| i | MPEK 060<br>TQFEK 060 | MPEK 080<br>TQFEK 070 | MPEK 120<br>TQFEK 090 |
|---|---|---|---|
| **3** | 1400 | 2700 | 2500 |
| **4** | 1600 | 1500 | 1700 |
| **5** | 2050 | 1750 | 1500 |
| **7** | 3050 | 2100 | 1900 |
| **9** | 3300 | 2900 | 3500 |
| **10** | 4000 | 4000 | 3500 |
| **12** | 3300 | 1500 | 3500 |
| **15** | 3500 | 1700 | 3500 |
| **16** | 3500 | 1950 | 2800 |
| **20** | 3700 | 2450 | 3000 |
| **25** | 4000 | 2800 | 3000 |
| **28** | 3700 | 3450 | 3000 |
| **30** | 4000 | 4000 | 3500 |
| **35** | 4000 | 3950 | 3000 |
| **40** | 4000 | 4000 | 3500 |
| **50** | 4000 | 4000 | 3500 |
| **70** | 4000 | 4000 | 3500 |
| **100** | 4000 | 4000 | 3500 |

| i | SL 070 / SL 070P | SL 090 / SL 090P | SL 120 / SL 120P |
|---|---|---|---|
| **3** | 1400 | 2900 / 3500 | 2500 / 3000 |
| **4** | 1600 | 2500 / 2000 | 2100 / 1700 |
| **5** | 2050 | 2700 / 1500 | 2300 / 1500 |
| **7** | 3050 | 3500 / 1900 | 3000 / 1900 |
| **9** | 3300 | 2900 / 3500 | 2500 / 3000 |
| **10** | 4000 | 4000 / 3500 | 3500 |
| **12** | 3300 | 2900 / 3500 | 2500 / 3000 |
| **15** | 3300 | 2900 / 3500 | 2500 / 3000 |
| **16** | 3500 | 3100 | 2800 |
| **20** | 3500 | 3200 | 3000 |
| **25** | 3500 | 3200 | 3000 |
| **28** | 3700 | 3500 | 3000 |
| **30** | 4000 | 4000 | 3500 |
| **35** | 4000 | 3500 | 3000 |
| **40** | 4000 | 4000 | 3500 |
| **50** | 4000 | 4000 | 3500 |
| **70** | 4000 | 4000 | 3500 |
| **100** | 4000 | 4000 | 3500 |

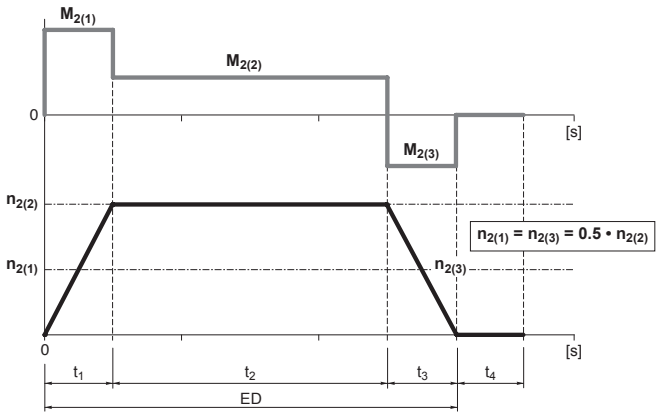
| i | KR 010 | KR 020 | KR 030 | KR 040 |
|---|---|---|---|---|
| **1** | 1200 | 1200 | 1000 | 800 |
| **2** | 2400 | 2400 | 2000 | 1600 |
| **3** | 3000 | 3000 | 2800 | 2500 |

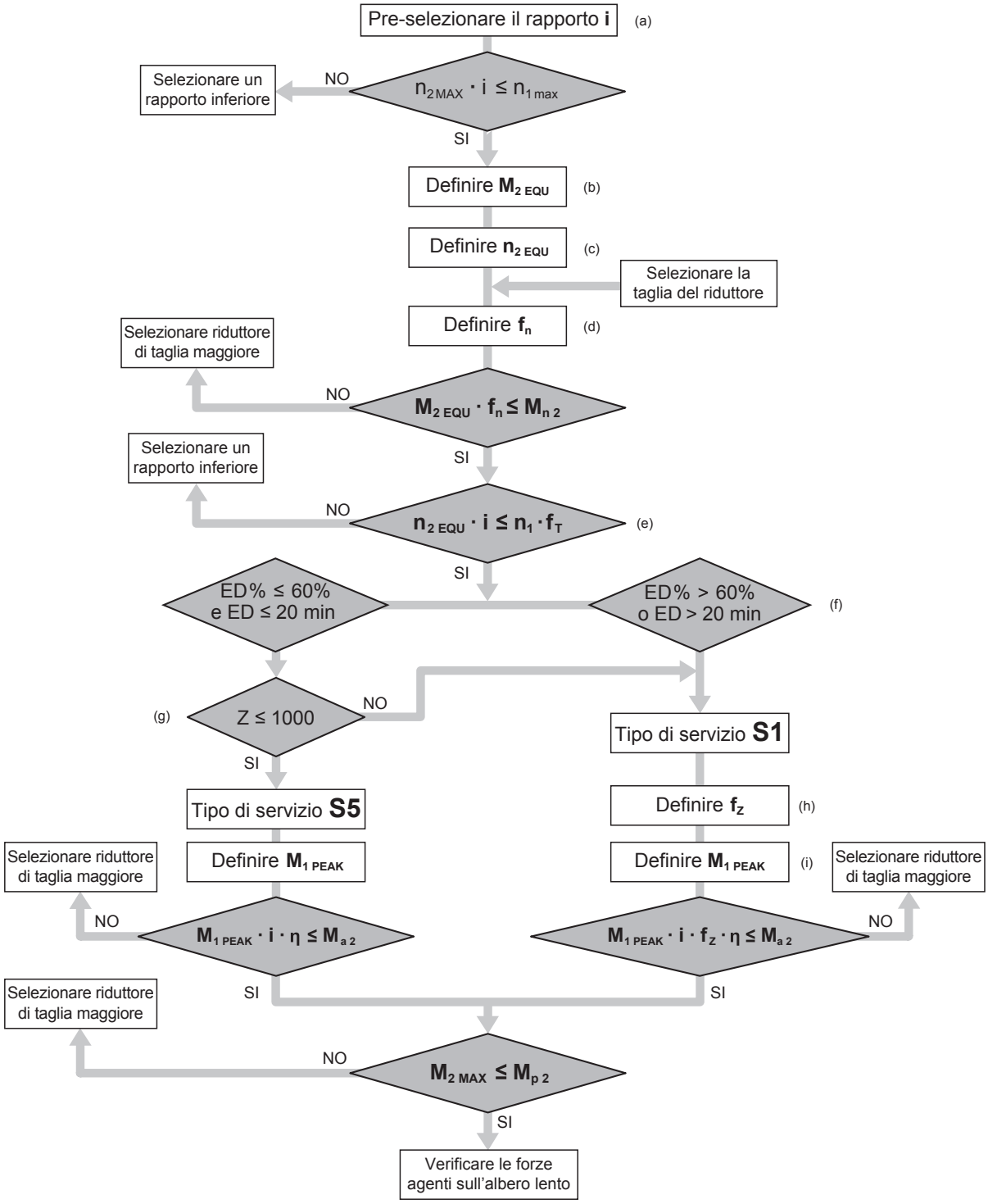
**Diagramma di carico**

**$M_2$:** Coppia in uscita

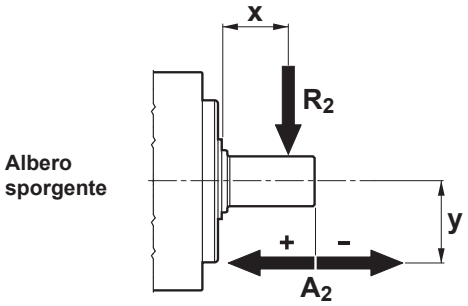
**Diagramma di velocità**

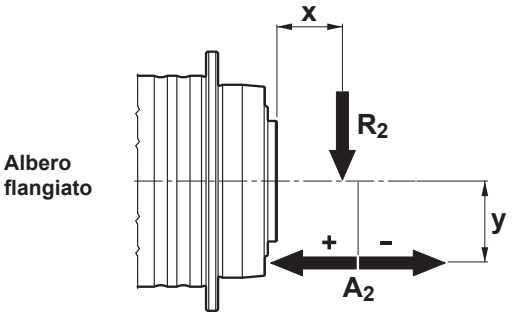
**$n_2$:** Velocità in uscita



## 1.3 CALCOLO DELLA DURATA DI VITA DEI CUSCINETTI




| | | | | |
|---|---|---|---|---|
| (a) | Forza radiale massima applicata sull'albero lento<br>Forza assiale massima applicata sull'albero lento | $R_{2\,MAX}$<br>$A_{2\,MAX}$ | [N]<br>[N] | Valutare eventuali condizioni applicative (es. la tensione di una cinghia durante la fase di accelerazione) |
| (b) | Coppia di ribaltamento massima applicata sull'albero lento | $M_{T\,2\,MAX}$ | [Nm] | $M_{T\,2\,MAX} = \frac{R_{2\,MAX} \cdot (x + L_Z) \pm A_{2\,MAX} \cdot y}{1000}$ |
| (c) | Forze equivalenti applicate sull'albero lento | $R_{2\,EQU}$<br>$A_{2\,EQU}$ | [N]<br>[N] | $R_{2\,EQU} = \sqrt[3]{\frac{\lvert n_{2(1)}\rvert \cdot t_1 \cdot \lvert R_{2(1)}\rvert^3 + \ldots + \lvert n_{2(n)}\rvert \cdot t_n \cdot \lvert R_{2(n)}\rvert^3}{\lvert n_{2(1)}\rvert \cdot t_1 + \ldots + \lvert n_{2(n)}\rvert \cdot t_n}}$<br>$A_{2\,EQU} = \sqrt[3]{\frac{\lvert n_{2(1)}\rvert \cdot t_1 \cdot \lvert A_{2(1)}\rvert^3 + \ldots + \lvert n_{2(n)}\rvert \cdot t_n \cdot \lvert A_{2(n)}\rvert^3}{\lvert n_{2(1)}\rvert \cdot t_1 + \ldots + \lvert n_{2(n)}\rvert \cdot t_n}}$ |
| (d) | Coppia di ribaltamento equivalente applicata sull'albero lento | $M_{T\,2\,EQU}$ | [Nm] | $M_{T\,2\,EQU} = \frac{R_{2\,EQU} \cdot (x + L_Z) + A_{2\,EQU} \cdot y}{1000}$ |
| (e) | Velocità di uscita equivalente | $n_{2\,EQU}$ | [$min^{-1}$] | $n_{2\,EQU} = \frac{\lvert n_{2(1)}\rvert \cdot t_1 + \lvert n_{2(2)}\rvert \cdot t_2 + \ldots + \lvert n_{2(n)}\rvert \cdot t_n}{t_1 + t_2 + \ldots + t_n}$ |
| (f) | Durata di base cuscinetti albero lento | $L_{10h}$ | [h] | $L_{10h} = \frac{16666}{n_{2\,EQU}} \cdot \left(\frac{C_B}{M_{T\,2\,EQU}}\right)^p$ |

| | | TQ / TQK 060 | TQ / TQK 070 | | TQ / TQK 090 | | TQ / TQK 130 | TQ / TQK 160 |
|---|---|---|---|---|---|---|---|---|
| | | SB | SB | HB | SB | HB | SB | SB |
| $L_Z$ | [mm] | 56 | 67 | 64 | 95 | 89 | 96 | 114 |
| $M_{T\,2\,max}$ | [Nm] | 129.5 | 221 | 343 | 592 | 772 | 1233 | 2331 |
| $C_B$ | [Nm] | 632 | 1065 | 1510 | 2898 | 3325 | 6395 | 9795 |
| p | — | 3 | 3 | 3.33 | 3 | 3.33 | 3.33 | 3.33 |

| | | TQF 060 | TQF 070 | TQF 090 | TQF 130 | TQF 160 |
|---|---|---|---|---|---|---|
| $L_Z$ | [mm] | 48 | 72 | 78 | 100 | 128 |
| $M_{T\,2\,max}$ | [Nm] | 115 | 318 | 430 | 1200 | 3700 |
| $C_B$ | [Nm] | 490 | 1335 | 1815 | 5055 | 16200 |
| p | - | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 |

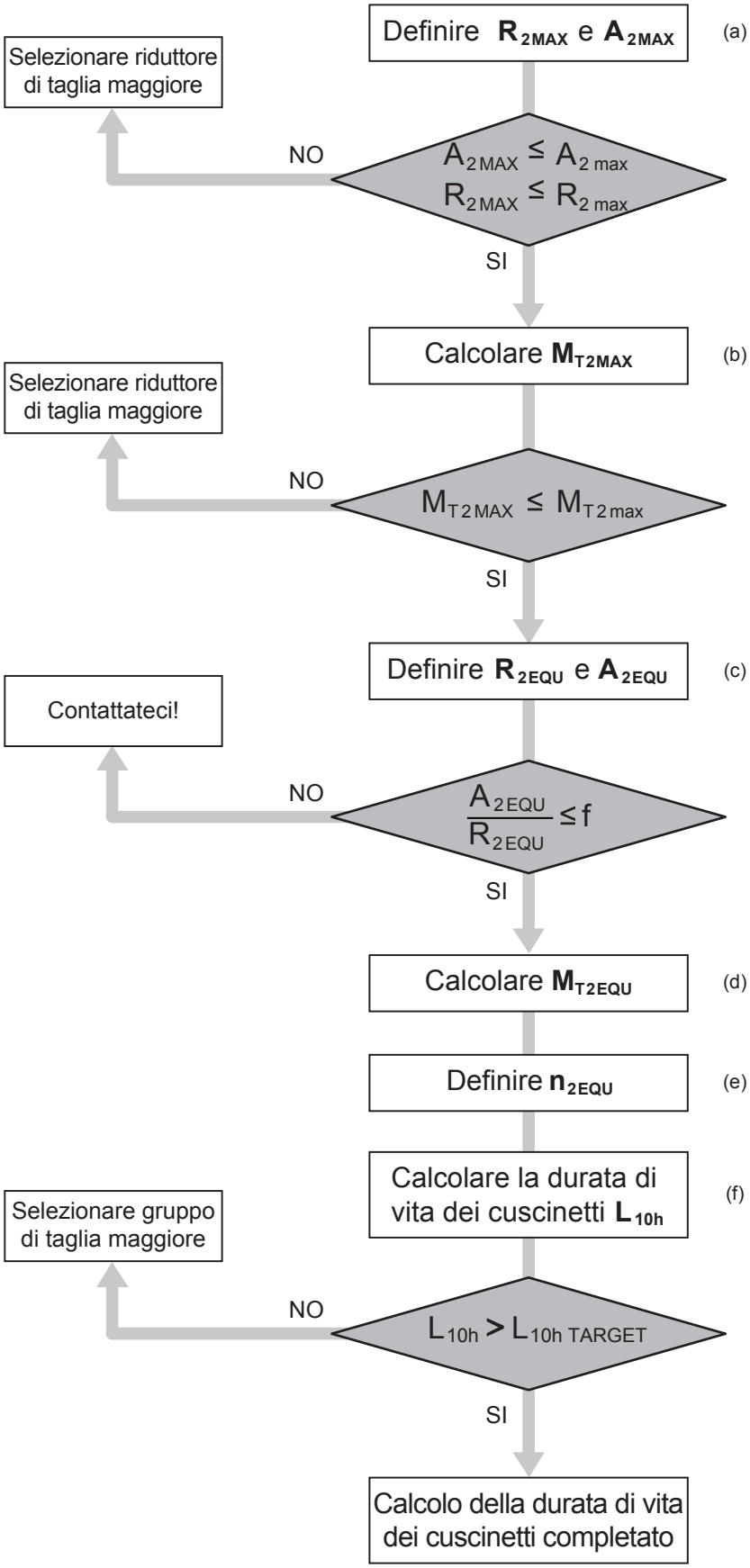
| | | TR 053 SB | TR 060 SB | TR 080 SB | TR 105 SB | TR 130 SB | TR 160 SB | TR 190 SB |
|---|---|---|---|---|---|---|---|---|
| $L_Z$ | [mm] | 22 | 23 | 42 | 53 | 74 | 94 | 100 |
| $M_{T\,2\,max}$ | [Nm] | 16 | 23 | 155 | 278 | 515 | 739 | 1683 |
| $C_B$ | [Nm] | 91 | 143 | 994 | 2048 | 3893 | 5824 | 8680 |
| p | — | 3 | 3 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 |

| | | MP 053 | MP 060 | MP 080 | | MP 105 | | MP 130 | MP 160 | MP 190 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | SB | SB | SB | HB | SB | HB | SB | SB | SB |
| $L_Z$ | [mm] | 22 | 23 | 44 | 42 | 46 | 53 | 74 | 94 | 100 |
| $M_{T\,2\,max}$ | [Nm] | 16 | 23 | 83 | 155 | 99 | 278 | 515 | 739 | 1683 |
| $C_B$ | [Nm] | 91 | 143 | 407 | 994 | 637 | 2048 | 3893 | 5824 | 8680 |
| p | — | 3 | 3 | 3 | 3.33 | 3 | 3.33 | 3.33 | 3.33 | 3.33 |

| | | TQFE 060 TQFEK 060 | TQFE 070 TQFEK 070 | TQFE 090 TQFEK 090 |
|---|---|---|---|---|
| $L_Z$ | [mm] | 17 | 28 | 37 |
| $M_{T\,2\,max}$ | [Nm] | 12 | 50 | 110 |
| $C_B$ | [Nm] | 60 | 248 | 547 |
| p | — | 3 | 3 | 3 |

| | | MPE 040 | MPE 060 MPEK 060 | MPE 080 MPEK 080 | MPE 120 MPEK 120 |
|---|---|---|---|---|---|
| $L_Z$ | [mm] | 16 | 23 | 31 | 37 |
| $M_{T\,2\,max}$ | [Nm] | 5.9 | 18 | 49 | 129 |
| $C_B$ | [Nm] | 23 | 92 | 255 | 645 |
| p | — | 3 | 3 | 3 | 3 |

| | | LC / LCK 050 | LC / LCK / SL 070 | LC / LCK / SL 090 | LC / LCK / SL 120 | LC / LCK 155 |
|---|---|---|---|---|---|---|
| $L_Z$ | [mm] | 22 | 28 | 30 | 39 | 46 |
| $M_{T\,2\,max}$ | [Nm] | 15 | 54 | 105 | 238 | 522 |
| $C_B$ | [Nm] | 106 | 280 | 298 | 813 | 1588 |
| p | — | 3 | 3 | 3 | 3 | 3 |

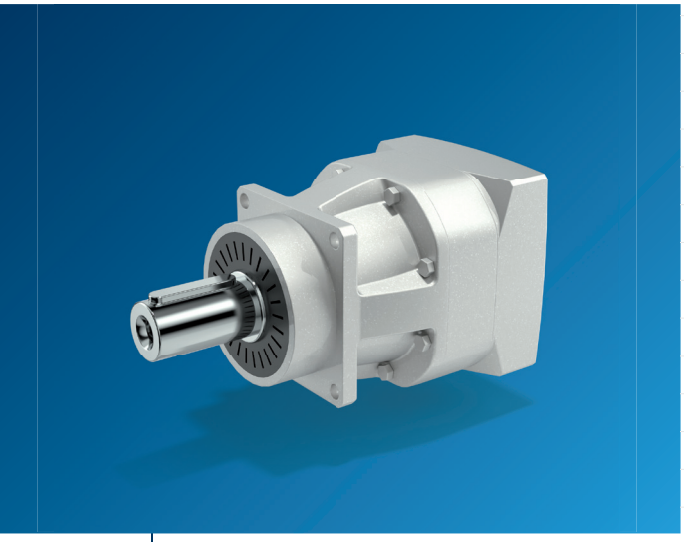



| f | TQ<br>TQK | TQF | TR | MP | TQFE<br>TQFEK | SL | LC<br>LCK | MPE | MPEK | KR |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.26 | **060 SB ... 090 SB** | | **053 SB ... 060 SB** | **053 SB ... 105 SB** | **060 ... 090** | **070 ... 120** | **050 ... 155** | **040 ... 120** | **060 ... 120** | **010 SB ... 040 SB** |
| 0.37 | **130 SB ; 160 SB<br>070 HB ; 090 HB** | **060 ... 160** | **080 SB ... 190 SB** | **130 SB ... 190 SB<br>080 HB ; 105 HB** | | | | | | **020 HB ... 040 HB** |

# Linea Performance

(P)





## Serie TQ

La serie TQ presenta alte prestazioni in ogni categoria: elevata densità di coppia, capacità di sovraccarico, precisione e bassi livelli di vibrazione.
I riduttori TQ sono adatti in particolare ai requisiti elevati dei sistemi servo, quali elevata dinamicità e frequenti inversioni del moto, controllo preciso di posizione e movimento, numero elevato di avvii e arresti.

## Vantaggi principali

- Massima densità di potenza
- Elevata precisione
- Capacità di sovraccarico elevata
- Cuscinetti rinforzati opzionali per forze radiali e assiali elevate
- Scelta ottimale per applicazioni servo che richiedono elevata dinamicità e precisione
- Elevata flessibilità grazie al design universale
- Funzionamento silenzioso

## Caratteristiche principali

- Coppia nominale in uscita (Nm)
  21 - 800
- Gioco torsionale (arcmin)
  2 - 6
- Rigidezza torsionale (Nm)
  4,7 - 170
- Momento di ribaltamento (Nm)
  129,5 - 2.331

## Grado di protezione

- IP65

## Grandezze

- 60
- 70
- 90
- 130
- 160

## Opzioni principali

- Versioni con ingresso
  - PREDISPOSIZIONE MOTORE
  - SENZA ADATTATORE IN INGRESSO
- Versioni alberi di uscita
  - ALBERO LISCIO
  - ALBERO CON CHIAVETTA
- Tipo di servizio
  - S1
  - S5
- Lubrificazione
  - LUBRIFICAZIONE STANDARD
  - UH1 LUBRIFICANTE AD USO ALIMENTARE
- Versioni dei cuscinetti
  - STANDARD
  - RINFORZATI

## 2 CARATTERISTICHE DELLA SERIE TQ



I riduttori epicicloidali a gioco ridotto della serie TQ coniugano prestazioni di assoluto rilievo con un design di chiaro stampo Italiano, che li rende immediatamente riconoscibili fra i prodotti similari dell'industria di riferimento.
La loro progettazione e costruzione è stata sviluppata con l'obiettivo primario di offrire agli utilizzatori una serie di prodotti di Qualità assoluta, affidabile e ripetibile, tale da costituire vantaggio competitivo per macchine e sistemi che li integrano come organi di trasmissione.

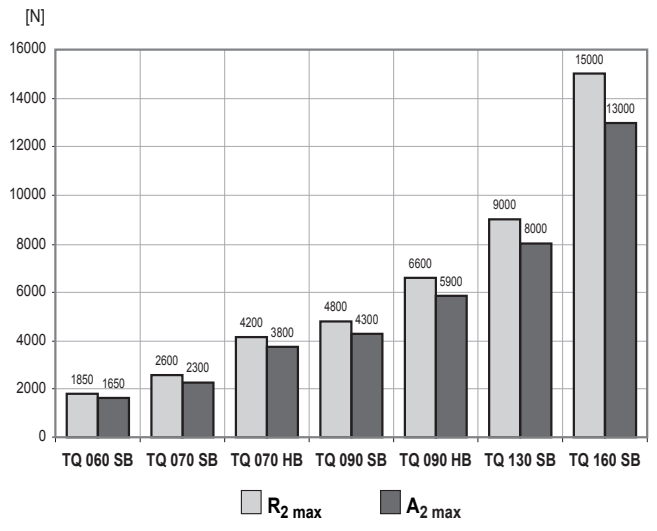
- La serie TQ dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
  1 stadio di riduzione: standard $\varphi_S \leq 3'$ ridotto $\varphi_R \leq 2'$ ( $\varphi_s \leq 4'$; $\varphi_R \leq 2'$ per TQ 060 e TQ 070)
  2 stadi di riduzione: standard $\varphi_S \leq 5'$ ridotto $\varphi_R \leq 3'$ ($\varphi_s \leq 6'$; $\varphi_R \leq 4'$ per TQ 060 e TQ 070)
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero di fornitura standard.
- Livello di rumorosità 60 ≤ Lp ≤ 70 dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 $min^{-1}$; i=10.
- Ampia possibilità di abbinamento alle marche e ai modelli di servomotori più diffusi.
- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

| tipo di servizio | TQ 060 ... TQ 160 | altre tenute |
|---|---|---|
| **S1** (continuo) | Olio sintetico viscosità ISO VG 220 | Fluoro-elastomero |
| **S5** (intermittente) | NLGI grasso con grado di consistenza 00 | NBR |

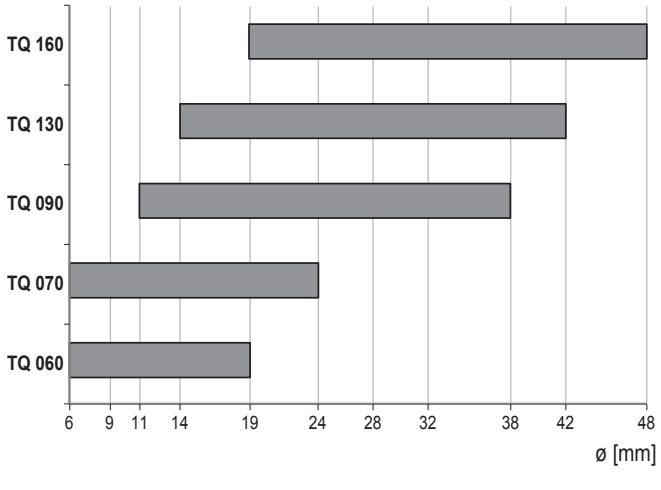
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$.
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C.

| Distribuzione coppia nominale $M_{n2}$ [Nm] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [i] | **3** | **4** | **5** | **7** | **10** | **16** | **20** | **25** | **28** | **35** | **40** | **50** | **70** | **100** |
| **TQ 060** | 21 | 30 | 30 | 25 | 20 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 25 | 20 |
| **TQ 070** | 45 | 70 | 70 | 60 | 40 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 60 | 40 |
| **TQ 090** | 130 | 200 | 180 | 160 | 110 | 200 | 180 | 180 | 200 | 180 | 200 | 180 | 160 | 110 |
| **TQ 130** | 260 | 400 | 400 | 360 | 280 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 360 | 280 |
| **TQ 160** | 530 | 800 | 800 | 750 | 550 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 750 | 550 |

**Carichi massimi applicabili sull' albero lento**




**Alberi motore accoppiabili**



## 2.1 CODICE ORDINATIVO

**TQ** **130** **1** **3** **STD** **80A3** **CD** **19** **S5** **SB** **KL** **UH1**

LUBRIFICANTE
- **–** standard
- **UH1** lubrificante sintetico ad uso alimentare

CONFIGURAZIONE ALBERO LENTO
- **KL** albero liscio
- **KE** albero con linguetta

SUPPORTAZIONE ALBERO LENTO
- **SB** standard
- **HB** rinforzata (TQ 070 - TQ 090)

TIPO DI SERVIZIO
- **S1** servizio continuo
- **S5** servizio intermittente

DIAMETRO FORO PER ALBERO MOTORE
- **6 ... 48**

TIPO DI CALETTAMENTO ALBERO MOTORE
- **CD** morsetto di serraggio

SEZIONE DI INGRESSO
- **30A ... 230A** predisposizione motore
- **FM** senza adattatore in ingresso

GIOCO ANGOLARE

| | 1 stadio | 1 stadio (solo TQ060, TQ070) | 2 stadi | 2 stadi (solo TQ060, TQ070) |
|---|---|---|---|---|
| **STD** | $\varphi s \leq 3'$ | $\varphi s \leq 4'$ | $\varphi s \leq 5'$ | $\varphi s \leq 6'$ |
| **LOW** | $\varphi_R \leq 2'$ | $\varphi_R \leq 2'$ | $\varphi_R \leq 3'$ | $\varphi_R \leq 4'$ |

RAPPORTO DI TRASMISSIONE

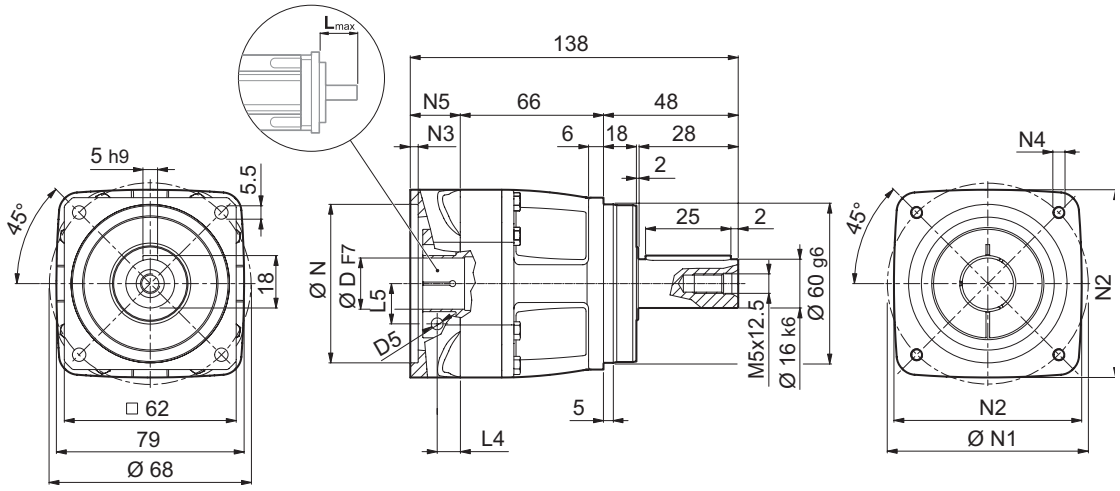
STADI DI RIDUZIONE
- **1** **2**

GRANDEZZA
- **060** **070** **090** **130** **160**

SERIE
- **TQ**

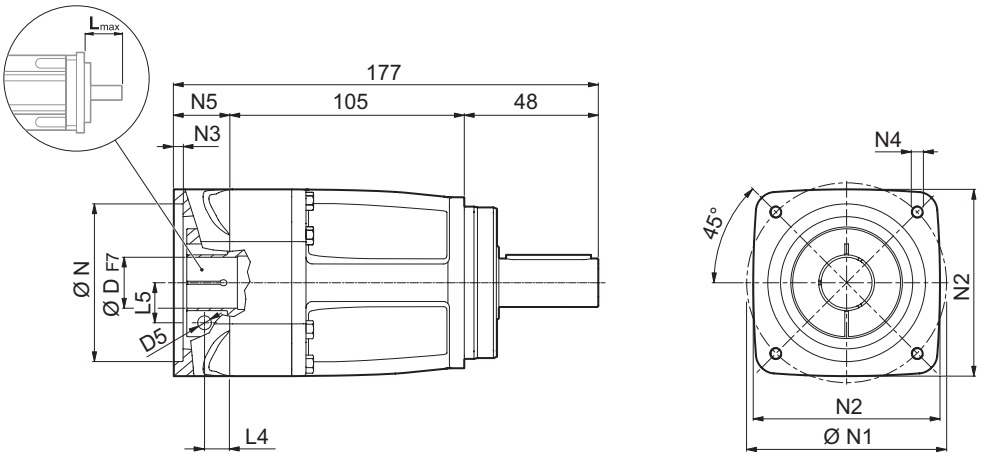
### *2.2 DIMENSIONI E DATI TECNICI*

# TQ 060




| | Kg |
|---|---|
| **TQ 060 1** | 2.5 |

## 30A ... 110B0



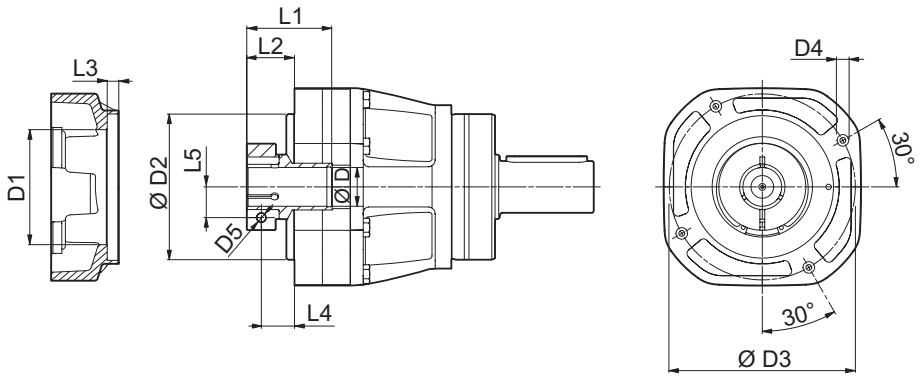

| | Kg |
|---|---|
| **TQ 060 2** | 3.5 |

| | D | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **30A** | 6 | – | – | – | – | 30 | 46 | 60 | 3.5 | M4x10 | 24 | 40 |
| **40B1** | 6 | 9 | 11 | 14 | – | 40 | 63 | 60 | 3.5 | M4x10 | 24 | 40 |
| **50A1** | 6 | 9 | 11 | 14 | – | 50 | 60 | 60 | 4.0 | M4x10 | 24 | 40 |
| **50C1** | 6 | 9 | 11 | 14 | – | 50 | 70 | 60 | 4.0 | M4x10 | 24 | 40 |
| **60A2** | 6 | 9 | 11 | 14 | 19 | 60 | 75 | 80 | 4.0 | M5x12 | 24 | 40 |
| **70B1** | 6 | 9 | 11 | 14 | 19 | 70 | 90 | 80 | 4.0 | M5x12 | 24 | 40 |
| **80A1** | 6 | 9 | 11 | 14 | 19 | 80 | 100 | 100 | 4.0 | M6x14 | 24 | 40 |
| **95A** | 6 | 9 | 11 | 14 | 19 | 95 | 115 | 100 | 4.0 | M8x24 | 24 | 40 |
| **110B0** | 6 | 9 | 11 | 14 | 19 | 110 | 145 | 120 | 4.0 | M8x24 | 24 | 40 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQ 060

**FM**



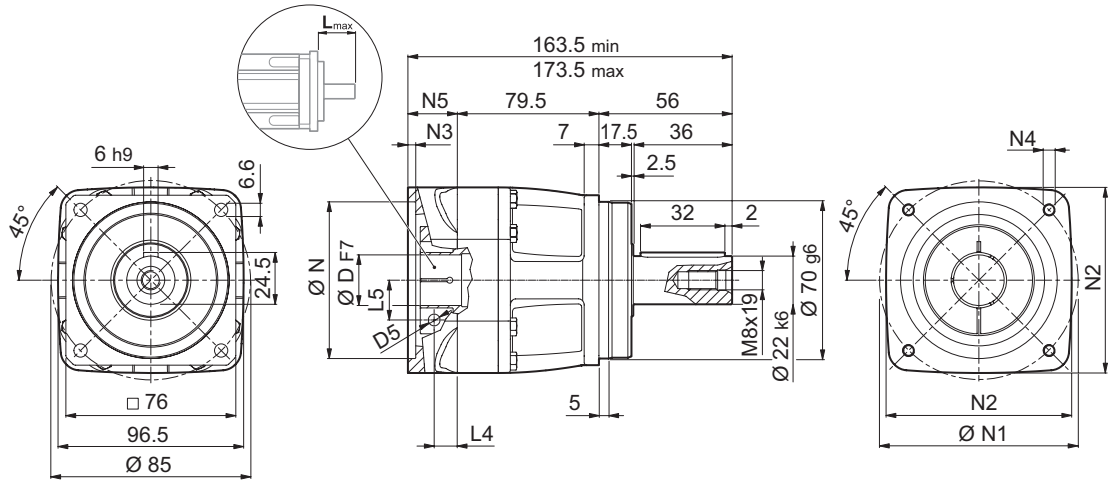

| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 37 | 59 | 72 | M5x11 | M4 | 31.5 | 15.5 | 4.5 | 10.5 | 8 |
| 9 | 49 | 59 | 72 | M5x11 | M5 | 35 | 19 | 4.5 | 11.5 | 10.5 |
| 11 | 49 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 12.5 |
| 14 | 49 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 14.5 |
| 19 | 54 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | η % | $J_G$ [kgcm$^2$] D 6 - 9 | 11 - 14 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQ 060 1_3 | 21 | 32 | 60 | 3500 | 6000 | 4' | 2' | 4.8 | 1850 | 1650 | 97 | 0.36 | 0.47 | 0.51 |
| TQ 060 1_4 | 30 | 45 | 80 | 3500 | 6000 | 4' | 2' | 4.8 | 1850 | 1650 | 97 | 0.28 | 0.39 | 0.43 |
| TQ 060 1_5 | 30 | 45 | 80 | 3500 | 6000 | 4' | 2' | 4.8 | 1850 | 1650 | 97 | 0.25 | 0.36 | 0.40 |
| TQ 060 1_7 | 25 | 38 | 70 | 4000 | 6000 | 4' | 2' | 4.8 | 1850 | 1650 | 97 | 0.22 | 0.33 | 0.37 |
| TQ 060 1_10 | 20 | 30 | 55 | 4000 | 6000 | 4' | 2' | 4.8 | 1850 | 1650 | 97 | 0.21 | 0.32 | 0.36 |
| TQ 060 2_16 | 30 | 45 | 80 | 4500 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.27 | 0.39 | 0.42 |
| TQ 060 2_20 | 30 | 45 | 80 | 4500 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.27 | 0.39 | 0.42 |
| TQ 060 2_25 | 30 | 45 | 80 | 4500 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.24 | 0.36 | 0.39 |
| TQ 060 2_28 | 30 | 45 | 80 | 4500 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.22 | 0.33 | 0.37 |
| TQ 060 2_35 | 30 | 45 | 80 | 4500 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.22 | 0.33 | 0.37 |
| TQ 060 2_40 | 30 | 45 | 80 | 4500 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.21 | 0.32 | 0.36 |
| TQ 060 2_50 | 30 | 45 | 80 | 4500 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.21 | 0.32 | 0.36 |
| TQ 060 2_70 | 25 | 38 | 70 | 5000 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.21 | 0.32 | 0.36 |
| TQ 060 2_100 | 20 | 30 | 55 | 5000 | 6000 | 6' | 4' | 4.7 | 1850 | 1650 | 94 | 0.20 | 0.32 | 0.35 |

# TQ 070

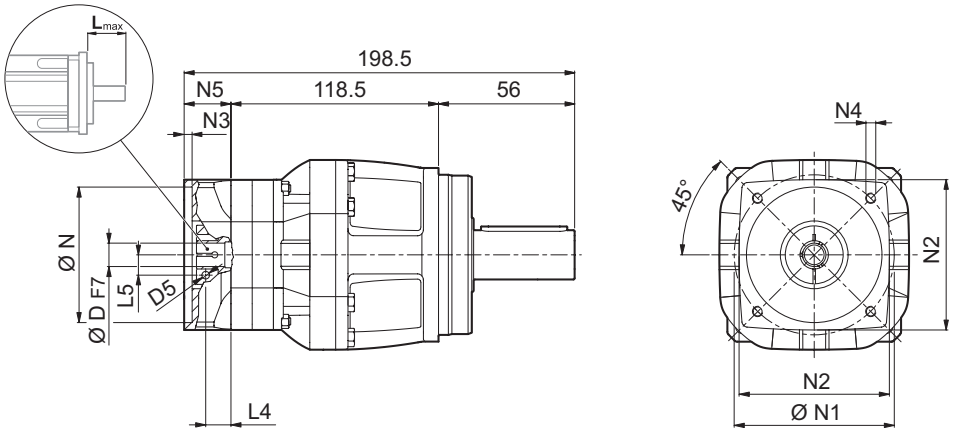


## 50C ... 130A




| | Kg |
|---|---|
| TQ 070 1 | 3.6 |

## 30A ... 110B0



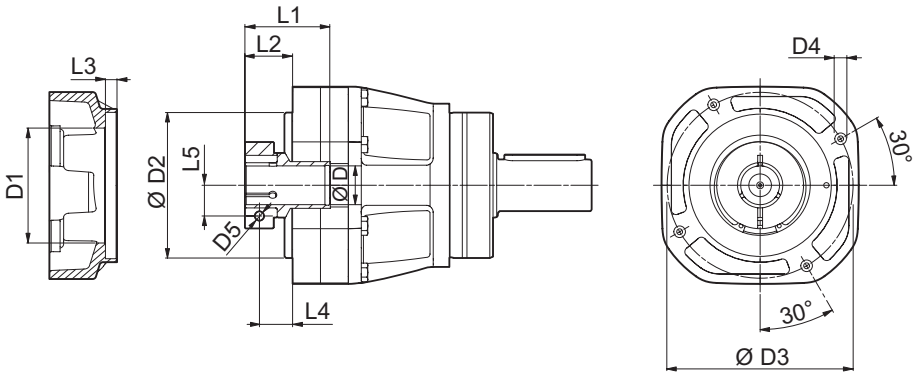

| | Kg |
|---|---|
| TQ 070 2 | 5.0 |

| | D | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQ 070 1** | | | | | | | | | | | | | |
| **50C2** | 6 | 9 | 11 | 14 | – | – | 50 | 70 | 80 | 6.5 | M4x12 | 28 | 50 |
| **60A3** | 6 | 9 | 11 | 14 | 19 | – | 60 | 75 | 80 | 6.5 | M5x14 | 28 | 50 |
| **70B2** | 6 | 9 | 11 | 14 | 19 | – | 70 | 90 | 80 | 6.5 | M5x14 | 28 | 50 |
| **80A2** | 6 | 9 | 11 | 14 | 19 | – | 80 | 100 | 100 | 6.5 | M6x14 | 28 | 50 |
| **95A1** | 6 | 9 | 11 | 14 | 19 | 24 | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 50 |
| **110A1** | 6 | 9 | 11 | 14 | 19 | 24 | 110 | 130 | 120 | 6.5 | M8x18 | 28 | 50 |
| **110B1** | 6 | 9 | 11 | 14 | 19 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 60 |
| **130A** | 6 | 9 | 11 | 14 | 19 | 24 | 130 | 165 | 140 | 6.5 | M10x19 | 28 | 50 |
| **TQ 070 2** | | | | | | | | | | | | | |
| **30A** | 6 | – | – | – | – | – | 30 | 46 | 60 | 3.5 | M4x10 | 24 | 40 |
| **40B1** | 6 | 9 | 11 | 14 | – | – | 40 | 63 | 60 | 3.5 | M4x10 | 24 | 40 |
| **50A1** | 6 | 9 | 11 | 14 | – | – | 50 | 60 | 60 | 4.0 | M4x10 | 24 | 40 |
| **50C1** | 6 | 9 | 11 | 14 | – | – | 50 | 70 | 60 | 4.0 | M4x10 | 24 | 40 |
| **60A2** | 6 | 9 | 11 | 14 | 19 | – | 60 | 75 | 80 | 4.0 | M5x12 | 24 | 40 |
| **70B1** | 6 | 9 | 11 | 14 | 19 | – | 70 | 90 | 80 | 4.0 | M5x12 | 24 | 40 |
| **80A1** | 6 | 9 | 11 | 14 | 19 | – | 80 | 100 | 100 | 4.0 | M6x14 | 24 | 40 |
| **95A** | 6 | 9 | 11 | 14 | 19 | – | 95 | 115 | 100 | 4.0 | M8x24 | 24 | 40 |
| **110B0** | 6 | 9 | 11 | 14 | 19 | – | 110 | 145 | 120 | 4.0 | M8x24 | 24 | 40 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQ 070

**FM**



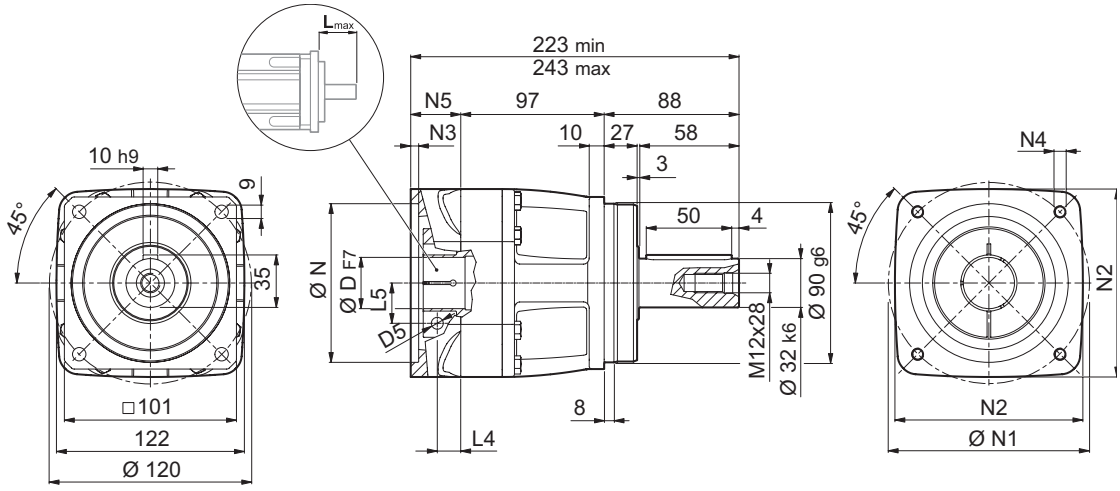

| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQ 070 1** | | | | | | | | | | |
| 6 | 51 | 70 | 85 | M6x11 | M4 | 42 | 20 | 5 | 12.5 | 12.5 |
| 9 | 51 | 70 | 85 | M6x11 | M5 | 42 | 20 | 5 | 12.5 | 14.5 |
| 11 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 12.5 |
| 14 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 14.5 |
| 19 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 16.5 |
| 24 | 60 | 70 | 85 | M6x11 | M6 | 43.5 | 21.5 | 5 | 12.5 | 19 |
| **TQ 070 2** | | | | | | | | | | |
| 6 | 37 | 59 | 72 | M5x11 | M4 | 31.5 | 15.5 | 4.5 | 10.5 | 8 |
| 9 | 49 | 59 | 72 | M5x11 | M5 | 35 | 19 | 4.5 | 11.5 | 10.5 |
| 11 | 49 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 12.5 |
| 14 | 49 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 14.5 |
| 19 | 54 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 16.5 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ ≤ | $\varphi_R$ ≤ | $C_t$ | SB $R_{2\,max}$ | SB $A_{2\,max}$ | HB $R_{2\,max}$ | HB $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | [N] | [N] | % | 6 - 9 | 11 - 14 | 19 | 24 |
| TQ 070 1_3 | 45 | 65 | 120 | 3000 | 6000 | 4' | 2' | 11.3 | 2600 | 2300 | 4200 | 3800 | 97 | – | 0.99 | 1.02 | 1.15 |
| TQ 070 1_4 | 70 | 100 | 180 | 3000 | 6000 | 4' | 2' | 11.3 | 2600 | 2300 | 4200 | 3800 | 97 | – | 0.76 | 0.79 | 0.92 |
| TQ 070 1_5 | 70 | 100 | 180 | 3000 | 6000 | 4' | 2' | 11.3 | 2600 | 2300 | 4200 | 3800 | 97 | – | 0.67 | 0.70 | 0.83 |
| TQ 070 1_7 | 60 | 90 | 160 | 3500 | 6000 | 4' | 2' | 11.3 | 2600 | 2300 | 4200 | 3800 | 97 | – | 0.59 | 0.62 | 0.75 |
| TQ 070 1_10 | 40 | 60 | 110 | 3500 | 6000 | 4' | 2' | 11.3 | 2600 | 2300 | 4200 | 3800 | 97 | – | 0.55 | 0.58 | 0.71 |
| TQ 070 2_16 | 70 | 100 | 180 | 3500 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.28 | 0.40 | 0.43 | – |
| TQ 070 2_20 | 70 | 100 | 180 | 3500 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.28 | 0.39 | 0.43 | – |
| TQ 070 2_25 | 70 | 100 | 180 | 3500 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.25 | 0.36 | 0.40 | – |
| TQ 070 2_28 | 70 | 100 | 180 | 3500 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.22 | 0.34 | 0.37 | – |
| TQ 070 2_35 | 70 | 100 | 180 | 3500 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.22 | 0.34 | 0.37 | – |
| TQ 070 2_40 | 70 | 100 | 180 | 3500 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.21 | 0.32 | 0.36 | – |
| TQ 070 2_50 | 70 | 100 | 180 | 3500 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.21 | 0.32 | 0.36 | – |
| TQ 070 2_70 | 60 | 90 | 160 | 4000 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.21 | 0.32 | 0.36 | – |
| TQ 070 2_100 | 40 | 60 | 110 | 4500 | 6000 | 6' | 4' | 11.3 | 2600 | 2300 | 4200 | 3800 | 94 | 0.21 | 0.32 | 0.36 | – |

# TQ 090

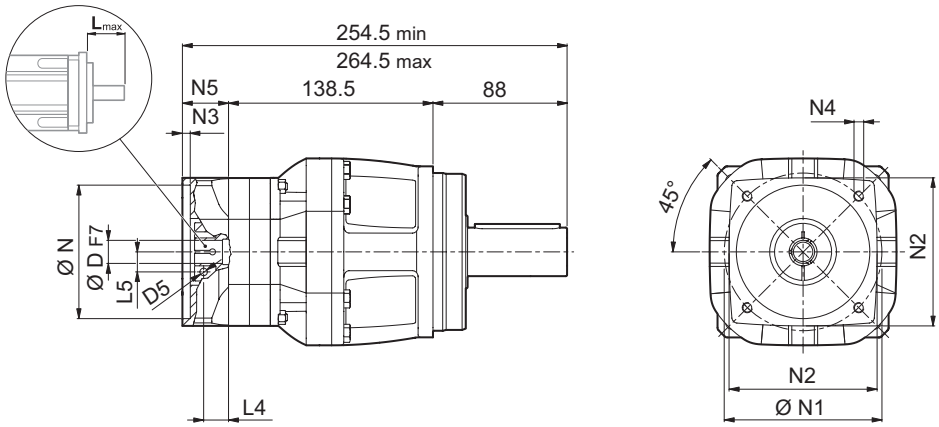


## 60A4 ... 180A1




| | Kg |
|---|---|
| TQ 090 1 | 7.6 |

## 50C2 ... 130A




| | Kg |
|---|---|
| TQ 090 2 | 8.9 |

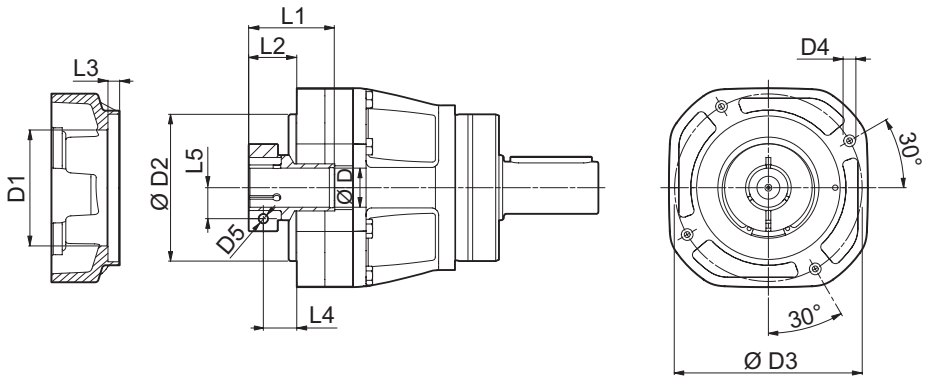
| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQ 090 1** | | | | | | | | | | | | | | |
| **60A4** | 11 | 14 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 38 | 60 |
| **80A3** | 11 | 14 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x14 | 38 | 60 |
| **95A2** | 11 | 14 | 19 | 24 | 28 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 60 |
| **110A2** | 11 | 14 | 19 | 24 | – | – | – | 110 | 130 | 122 | 6.5 | M8x20 | 38 | 60 |
| **110B1** | 11 | 14 | 19 | 24 | 28 | – | – | 110 | 145 | 122 | 6.5 | M8x20 | 38 | 60 |
| **130A1** | 11 | 14 | 19 | 24 | 28 | 32 | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 60 |
| **180A** | 11 | 14 | 19 | 24 | 28 | 32 | – | 180 | 215 | 190 | 6.5 | M14x38 | 38 | 60 |
| **180A1** | 11 | 14 | 19 | 24 | 28 | 32 | 38 | 180 | 215 | 190 | 6.5 | M14x28 | 58 | 80 |
| **TQ 090 2** | | | | | | | | | | | | | | |
| **50C2** | 11 | 14 | – | – | – | – | – | 50 | 70 | 80 | 6.5 | M4x12 | 28 | 50 |
| **60A3** | 11 | 14 | 19 | – | – | – | – | 60 | 75 | 80 | 6.5 | M5x14 | 28 | 50 |
| **70B2** | 11 | 14 | 19 | – | – | – | – | 70 | 90 | 80 | 6.5 | M5x14 | 28 | 50 |
| **80A2** | 11 | 14 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x14 | 28 | 50 |
| **95A1** | 11 | 14 | 19 | 24 | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 50 |
| **110A1** | 11 | 14 | 19 | 24 | – | – | – | 110 | 130 | 120 | 6.5 | M8x18 | 28 | 50 |
| **110B1** | 11 | 14 | 19 | 24 | – | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 60 |
| **130A** | 11 | 14 | 19 | 24 | – | – | – | 130 | 165 | 140 | 6.5 | M10x19 | 28 | 50 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQ 090



**FM**



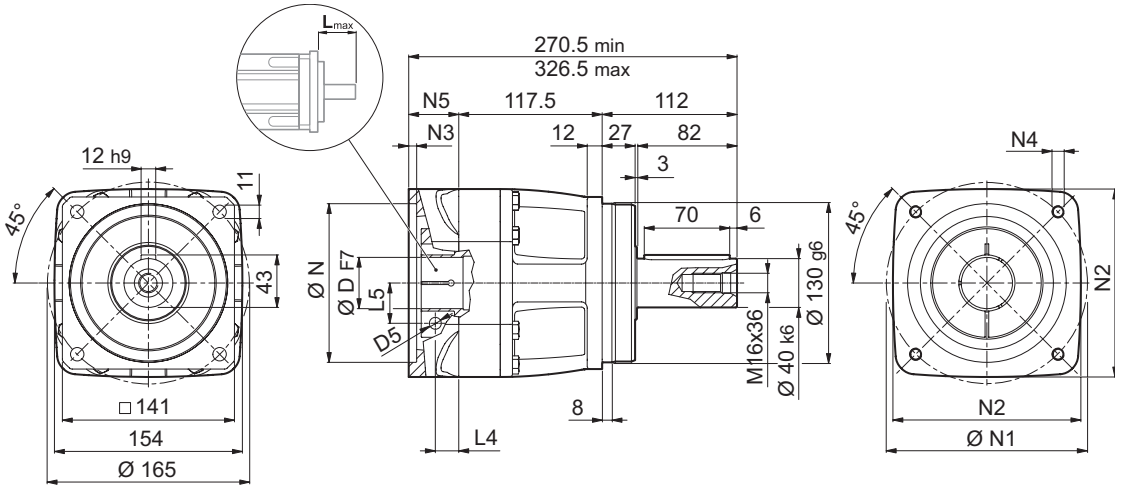

| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQ 090 1** | | | | | | | | | | |
| 11 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 14.5 |
| 14 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 14.5 |
| 19 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 16.5 |
| 24 | 60 | 90 | 115 | M8x13 | M6 | 51.5 | 29.5 | 6.5 | 20.5 | 19 |
| 28 | 72 | 90 | 115 | M8x13 | M8 | 51.5 | 29.5 | 6.5 | 20.5 | 22.5 |
| 32 | 72 | 90 | 115 | M8x13 | M8 | 51.5 | 29.5 | 6.5 | 20.5 | 24.5 |
| 38 | 80 | 90 | 115 | M8x13 | M8 | 51.5 | 32 | 6.5 | 20.5 | 28 |
| **TQ 090 2** | | | | | | | | | | |
| 6 | 51 | 70 | 85 | M6x11 | M4 | 42 | 20 | 5 | 12.5 | 12.5 |
| 9 | 51 | 70 | 85 | M6x11 | M5 | 42 | 20 | 5 | 12.5 | 14.5 |
| 11 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 12.5 |
| 14 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 14.5 |
| 19 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 16.5 |
| 24 | 60 | 70 | 85 | M6x11 | M6 | 43.5 | 21.5 | 5 | 12.5 | 19 |

| i | $M_{n2}$ | $M_{a2}$ | $M_{p2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ ≤ | $\varphi_R$ ≤ | $C_t$ | SB $R_{2\,max}$ | SB $A_{2\,max}$ | HB $R_{2\,max}$ | HB $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | [N] | [N] | % | 11 | 14 - 19 | 24 | 28 | 32-38 |
| TQ 090 1_3 | 130 | 200 | 400 | 2500 | 4500 | 3' | 2' | 28 | 4800 | 4300 | 6600 | 5900 | 97 | – | 2.18 | 2.30 | 2.69 | 4.48 |
| TQ 090 1_4 | 200 | 300 | 500 | 2500 | 4500 | 3' | 2' | 28 | 4800 | 4300 | 6600 | 5900 | 97 | – | 1.63 | 1.75 | 2.14 | 3.93 |
| TQ 090 1_5 | 180 | 280 | 500 | 2500 | 4500 | 3' | 2' | 28 | 4800 | 4300 | 6600 | 5900 | 97 | – | 1.39 | 1.52 | 1.90 | 3.70 |
| TQ 090 1_7 | 160 | 250 | 500 | 3000 | 4500 | 3' | 2' | 28 | 4800 | 4300 | 6600 | 5900 | 97 | – | 1.19 | 1.32 | 1.70 | 3.50 |
| TQ 090 1_10 | 110 | 170 | 350 | 3000 | 4500 | 3' | 2' | 28 | 4800 | 4300 | 6600 | 5900 | 97 | – | 1.08 | 1.21 | 1.59 | 3.39 |
| TQ 090 2_16 | 200 | 300 | 500 | 3000 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.70 | 0.80 | 0.94 | – | – |
| TQ 090 2_20 | 180 | 280 | 500 | 3000 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.69 | 0.79 | 0.92 | – | – |
| TQ 090 2_25 | 180 | 280 | 500 | 3000 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.60 | 0.70 | 0.83 | – | – |
| TQ 090 2_28 | 200 | 300 | 500 | 3000 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.53 | 0.63 | 0.76 | – | – |
| TQ 090 2_35 | 180 | 280 | 500 | 3000 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.52 | 0.62 | 0.75 | – | – |
| TQ 090 2_40 | 200 | 300 | 500 | 3000 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.48 | 0.58 | 0.71 | – | – |
| TQ 090 2_50 | 180 | 280 | 500 | 3500 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.48 | 0.58 | 0.71 | – | – |
| TQ 090 2_70 | 160 | 250 | 500 | 4000 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.48 | 0.58 | 0.71 | – | – |
| TQ 090 2_100 | 110 | 170 | 350 | 4000 | 4500 | 5' | 3' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | 0.48 | 0.58 | 0.71 | – | – |

# TQ 130

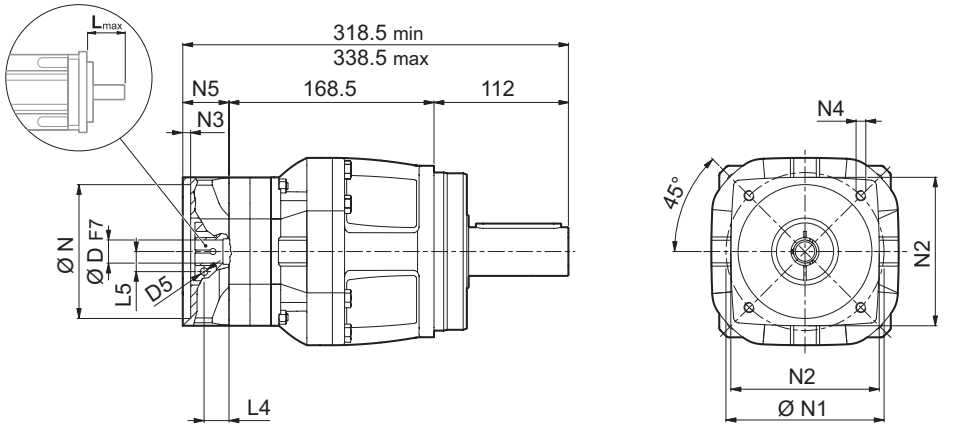


## 80A3 ... 200A




| | Kg |
|---|---|
| TQ 130 1 | 15.6 |

## 60A4 ... 180A1



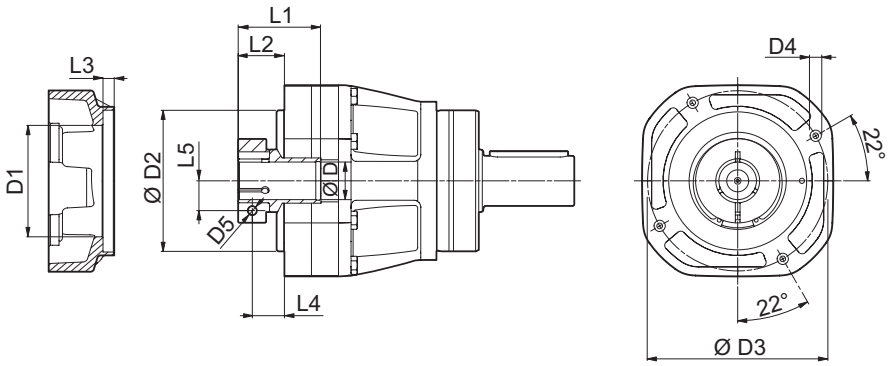

| | Kg |
|---|---|
| TQ 130 2 | 19.1 |

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQ 130 1** | | | | | | | | | | | | | | |
| **80A3** | 14 | 19 | – | – | – | – | – | 80 | 100 | 130 | 6.5 | M6x14 | 41 | 60 |
| **95A2** | 14 | 19 | 24 | 28 | – | – | – | 95 | 115 | 130 | 6.5 | M8x18 | 41 | 60 |
| **110A2** | 14 | 19 | 24 | – | – | – | – | 110 | 130 | 130 | 6.5 | M8x20 | 41 | 60 |
| **110B1** | 14 | 19 | 24 | 28 | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 41 | 60 |
| **130A1** | 14 | 19 | 24 | 28 | 32 | – | – | 130 | 165 | 154 | 6.5 | M10x20 | 41 | 60 |
| **180A** | 14 | 19 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x28 | 41 | 60 |
| **180A1** | 14 | 19 | 24 | 28 | 32 | 38 | – | 180 | 215 | 190 | 6.5 | M14x28 | 61 | 80 |
| **200A** | 14 | 19 | 24 | 28 | 32 | 38 | 42 | 200 | 235 | 210 | 6.5 | M14x28 | 97 | 110 |
| **TQ 130 2** | | | | | | | | | | | | | | |
| **60A4** | 14 | 19 | – | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 38 | 60 |
| **80A3** | 14 | 19 | – | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x14 | 38 | 60 |
| **95A2** | 14 | 19 | 24 | 28 | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 60 |
| **110A2** | 14 | 19 | 24 | – | – | – | – | 110 | 130 | 122 | 6.5 | M8x20 | 38 | 60 |
| **110B1** | 14 | 19 | 24 | 28 | – | – | – | 110 | 145 | 122 | 6.5 | M8x20 | 38 | 60 |
| **130A1** | 14 | 19 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 60 |
| **180A** | 14 | 19 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x38 | 38 | 60 |
| **180A1** | 14 | 19 | 24 | 28 | 32 | 38 | – | 180 | 215 | 190 | 6.5 | M14x28 | 58 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQ 130

**FM**



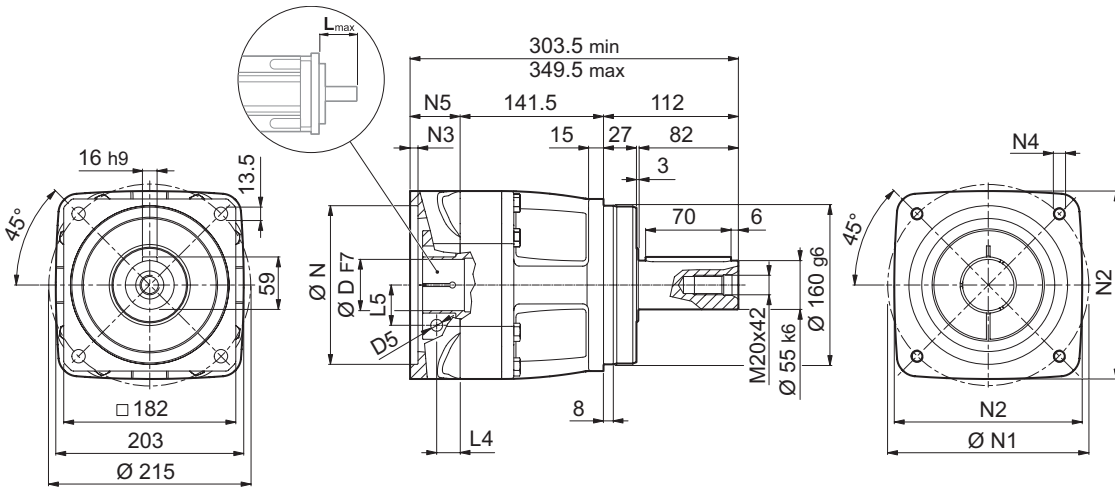

| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQ 130 1** | | | | | | | | | | |
| 14 | 54 | 120 | 140 | M10x16 | M6 | 50 | 31 | 7.5 | 23.5 | 16.5 |
| 19 | 54 | 120 | 140 | M10x16 | M6 | 50 | 31 | 7.5 | 23.5 | 16.5 |
| 24 | 70 | 120 | 140 | M10x16 | M6 | 51.5 | 32.5 | 7.5 | 23.5 | 19 |
| 28 | 70 | 120 | 140 | M10x16 | M8 | 51.5 | 32.5 | 7.5 | 23.5 | 22.5 |
| 32 | 72 | 120 | 140 | M10x16 | M8 | 51.5 | 32.5 | 7.5 | 23.5 | 24.5 |
| 38 | 100 | 120 | 140 | M10x16 | M8 | 54 | 35 | 7.5 | 23.5 | 28 |
| 42 | 114 | 120 | 140 | M10x16 | M10 | 51.5 | 38.5 | 7.5 | 23.5 | 33 |
| **TQ 130 2** | | | | | | | | | | |
| 11 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 14.5 |
| 14 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 14.5 |
| 19 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 16.5 |
| 24 | 60 | 90 | 115 | M8x13 | M6 | 51.5 | 29.5 | 6.5 | 20.5 | 19 |
| 28 | 72 | 90 | 115 | M8x13 | M8 | 51.5 | 29.5 | 6.5 | 20.5 | 22.5 |
| 32 | 72 | 90 | 115 | M8x13 | M8 | 51.5 | 29.5 | 6.5 | 20.5 | 24.5 |
| 38 | 80 | 90 | 115 | M8x13 | M8 | 51.5 | 32 | 6.5 | 20.5 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 | D 19 - 24 | D 28 - 32 | D 38 | D 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQ 130 1_3 | 260 | 400 | 900 | 2100 | 4000 | 3' | 2' | 59 | 9000 | 8000 | 97 | – | 10.02 | 10.48 | 11.12 | 17.12 |
| TQ 130 1_4 | 400 | 600 | 1000 | 2100 | 4000 | 3' | 2' | 59 | 9000 | 8000 | 97 | – | 6.38 | 6.85 | 7.49 | 13.49 |
| TQ 130 1_5 | 400 | 600 | 1000 | 2500 | 4000 | 3' | 2' | 59 | 9000 | 8000 | 97 | – | 5.01 | 5.47 | 6.11 | 12.11 |
| TQ 130 1_7 | 360 | 550 | 950 | 2500 | 4000 | 3' | 2' | 59 | 9000 | 8000 | 97 | – | 3.82 | 4.28 | 4.93 | 10.93 |
| TQ 130 1_10 | 280 | 420 | 900 | 2500 | 4000 | 3' | 2' | 59 | 9000 | 8000 | 97 | – | 3.15 | 3.61 | 4.25 | 10.25 |
| TQ 130 2_16 | 400 | 600 | 1000 | 2800 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.72 | 1.87 | 3.53 | 4.05 | – |
| TQ 130 2_20 | 400 | 600 | 1000 | 2800 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.64 | 1.80 | 3.46 | 3.98 | – |
| TQ 130 2_25 | 400 | 600 | 1000 | 2800 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.39 | 1.55 | 3.21 | 3.73 | – |
| TQ 130 2_28 | 400 | 600 | 1000 | 2800 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.20 | 1.36 | 3.02 | 3.54 | – |
| TQ 130 2_35 | 400 | 600 | 1000 | 2800 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.17 | 1.33 | 2.99 | 3.51 | – |
| TQ 130 2_40 | 400 | 600 | 1000 | 3200 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.07 | 1.23 | 2.89 | 3.41 | – |
| TQ 130 2_50 | 400 | 600 | 1000 | 3200 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.06 | 1.21 | 2.87 | 3.39 | – |
| TQ 130 2_70 | 360 | 550 | 950 | 3500 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.05 | 1.20 | 2.86 | 3.38 | – |
| TQ 130 2_100 | 280 | 420 | 900 | 4000 | 4000 | 5' | 3' | 58 | 9000 | 8000 | 94 | 1.04 | 1.20 | 2.86 | 3.38 | – |

# TQ 160

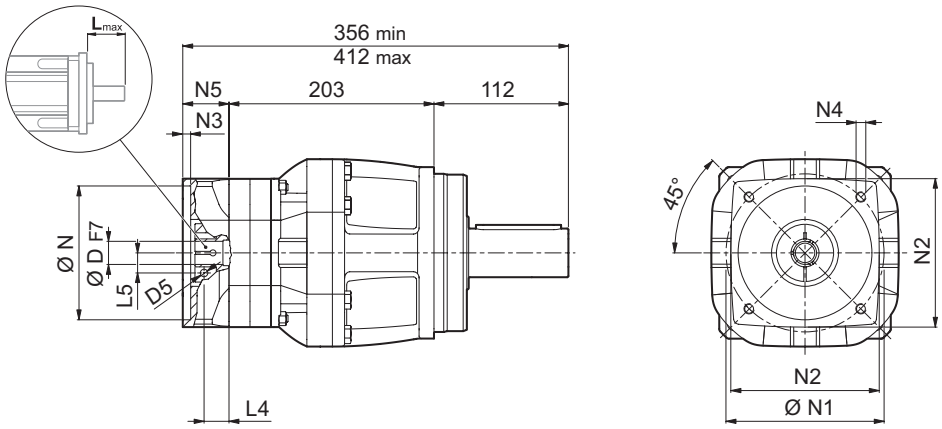


## 95A2 ... 230A




| | Kg |
|---|---|
| TQ 160 1 | 29.7 |

## 80A3 ... 200A



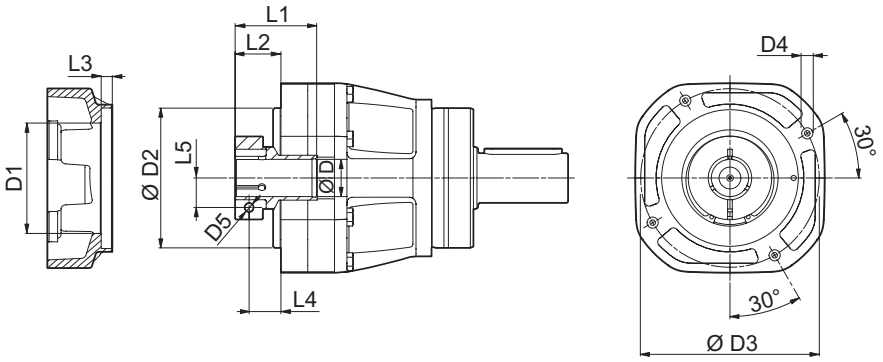

| | Kg |
|---|---|
| TQ 160 2 | 37.4 |

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQ 160 1** | | | | | | | | | | | | | | |
| **95A2** | 19 | 24 | 28 | – | – | – | – | 95 | 115 | 158 | 6.5 | M8x20 | 50 | 60 |
| **110A2** | 19 | 24 | – | – | – | – | – | 110 | 130 | 158 | 6.5 | M8x20 | 50 | 60 |
| **130A1** | 19 | 24 | 28 | 32 | – | – | – | 130 | 165 | 158 | 6.5 | M10x20 | 50 | 60 |
| **180A** | 19 | 24 | 28 | 32 | – | – | – | 180 | 215 | 203 | 6.5 | M14x28 | 50 | 60 |
| **180A1** | 19 | 24 | 28 | 32 | 38 | – | – | 180 | 215 | 205 | 6.5 | M14x28 | 60 | 80 |
| **200A** | 19 | 24 | 28 | 32 | 38 | 42 | 48 | 200 | 235 | 220 | 6.5 | M14x28 | 96 | 110 |
| **230A** | 19 | 24 | 28 | 32 | 38 | 42 | 48 | 230 | 265 | 240 | 6.5 | M14x28 | 96 | 110 |
| **TQ 160 2** | | | | | | | | | | | | | | |
| **80A3** | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 6.5 | M6x14 | 41 | 60 |
| **95A2** | 19 | 24 | 28 | – | – | – | – | 95 | 115 | 130 | 6.5 | M8x18 | 41 | 60 |
| **110A2** | 19 | 24 | – | – | – | – | – | 110 | 130 | 130 | 6.5 | M8x20 | 41 | 60 |
| **110B1** | 19 | 24 | 28 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 41 | 60 |
| **130A1** | 19 | 24 | 28 | 32 | – | – | – | 130 | 165 | 154 | 6.5 | M10x20 | 41 | 60 |
| **180A** | 19 | 24 | 28 | 32 | – | – | – | 180 | 215 | 190 | 6.5 | M14x28 | 41 | 60 |
| **180A1** | 19 | 24 | 28 | 32 | 38 | – | – | 180 | 215 | 190 | 6.5 | M14x28 | 61 | 80 |
| **200A** | 19 | 24 | 28 | 32 | 38 | 42 | – | 200 | 235 | 210 | 6.5 | M14x28 | 97 | 110 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQ 160

**FM**



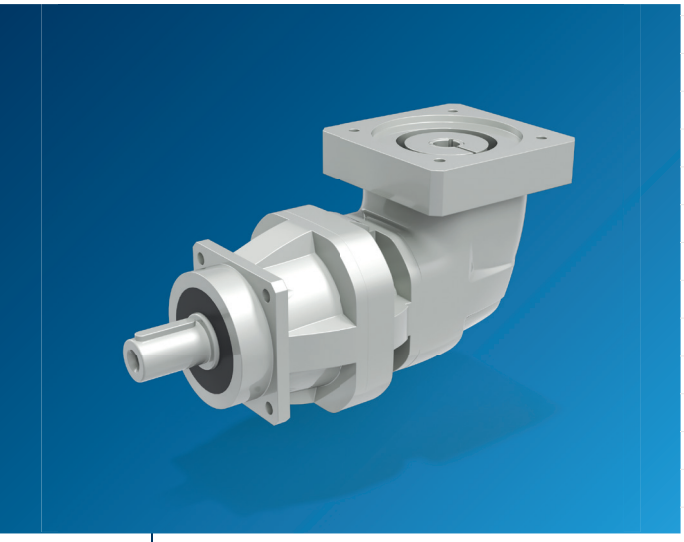

| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQ 160 1** | | | | | | | | | | |
| 19 | 58 | 150 | 175 | M12x20 | M6 | 47 | 37 | 9.5 | 28 | 19 |
| 24 | 58 | 150 | 175 | M12x20 | M6 | 47 | 37 | 9.5 | 28 | 19 |
| 28 | 70 | 150 | 175 | M12x20 | M8 | 47 | 37 | 9.5 | 28 | 22.5 |
| 32 | 72 | 150 | 175 | M12x20 | M8 | 47 | 37 | 9.5 | 28 | 24.5 |
| 38 | 100 | 150 | 175 | M12x20 | M8 | 59.5 | 39.5 | 9.5 | 28 | 28 |
| 42 | 114 | 150 | 175 | M12x20 | M10 | 57 | 43 | 9.5 | 28 | 33 |
| 48 | 125 | 150 | 175 | M12x20 | M12 | 57 | 43 | 9.5 | 28 | 36.5 |
| **TQ 160 2** | | | | | | | | | | |
| 14 | 54 | 120 | 140 | M10x16 | M6 | 50 | 31 | 7.5 | 23.5 | 16.5 |
| 19 | 54 | 120 | 140 | M10x16 | M6 | 50 | 31 | 7.5 | 23.5 | 16.5 |
| 24 | 70 | 120 | 140 | M10x16 | M6 | 51.5 | 32.5 | 7.5 | 23.5 | 19 |
| 28 | 70 | 120 | 140 | M10x16 | M8 | 51.5 | 32.5 | 7.5 | 23.5 | 22.5 |
| 32 | 72 | 120 | 140 | M10x16 | M8 | 51.5 | 32.5 | 7.5 | 23.5 | 24.5 |
| 38 | 100 | 120 | 140 | M10x16 | M8 | 54 | 35 | 7.5 | 23.5 | 28 |
| 42 | 114 | 120 | 140 | M10x16 | M10 | 51.5 | 38.5 | 7.5 | 23.5 | 33 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 19 | D 24 - 28 | D 32 - 38 | D 42 | D 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQ 160 1_3 | 530 | 800 | 1500 | 1500 | 3500 | 3' | 2' | 170 | 15000 | 13000 | 97 | – | 29.58 | 29.99 | 32.89 | 45.99 |
| TQ 160 1_4 | 800 | 1200 | 2000 | 1500 | 3500 | 3' | 2' | 170 | 15000 | 13000 | 97 | – | 18.03 | 18.44 | 21.33 | 34.44 |
| TQ 160 1_5 | 800 | 1200 | 2000 | 1800 | 3500 | 3' | 2' | 170 | 15000 | 13000 | 97 | – | 11.76 | 12.17 | 15.06 | 28.17 |
| TQ 160 1_7 | 750 | 1150 | 2000 | 2500 | 3500 | 3' | 2' | 170 | 15000 | 13000 | 97 | – | 9.27 | 9.68 | 12.58 | 25.68 |
| TQ 160 1_10 | 550 | 850 | 1600 | 2500 | 3500 | 3' | 2' | 170 | 15000 | 13000 | 97 | – | 7.05 | 7.46 | 10.35 | 23.46 |
| TQ 160 2_16 | 800 | 1200 | 2000 | 2800 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 6.52 | 7.05 | 7.77 | 13.77 | – |
| TQ 160 2_20 | 800 | 1200 | 2000 | 2800 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 6.16 | 6.69 | 7.41 | 13.41 | – |
| TQ 160 2_25 | 800 | 1200 | 2000 | 2800 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 4.81 | 5.34 | 6.06 | 12.06 | – |
| TQ 160 2_28 | 800 | 1200 | 2000 | 2800 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 3.77 | 4.30 | 5.02 | 11.02 | – |
| TQ 160 2_35 | 800 | 1200 | 2000 | 2800 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 3.65 | 4.18 | 4.90 | 10.90 | – |
| TQ 160 2_40 | 800 | 1200 | 2000 | 2800 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 3.05 | 3.57 | 4.30 | 10.30 | – |
| TQ 160 2_50 | 800 | 1200 | 2000 | 2800 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 2.99 | 3.52 | 4.24 | 10.24 | – |
| TQ 160 2_70 | 750 | 1150 | 2000 | 3000 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 2.97 | 3.50 | 4.22 | 10.22 | – |
| TQ 160 2_100 | 550 | 850 | 1600 | 3000 | 3500 | 5' | 3' | 170 | 15000 | 13000 | 94 | 2.95 | 3.48 | 4.20 | 10.20 | – |

# Linea Performance

(P)





## Serie TQK

La serie ortogonale TQK rappresenta la soluzione ideale per la riduzione degli ingombri, pur mantenendo gli stessi livelli di prestazioni di alto livello della serie coassiale TQ.
Questa serie è adatta in particolare ai requisiti elevati dei sistemi servo, quali elevata dinamicità e frequenti inversioni del moto, controllo preciso di posizione e movimento, numero elevato di avvii e arresti.

## Vantaggi principali

- Massima flessibilità di installazione
- Cuscinetti rinforzati opzionali per carichi radiali e assiali elevati
- Funzionamento silenzioso
- Design ortogonale per layout estremamente compatti
- Elevata flessibilità grazie al design universale

## Caratteristiche principali

- Coppia nominale in uscita (Nm)
  21 - 800
- Gioco torsionale (arcmin)
  4 - 7
- Rigidezza torsionale (Nm)
  4.3 - 167
- Momento di ribaltamento (Nm)
  129.5 - 2.331

## Grado di protezione

- IP65

## Grandezze

- 60
- 70
- 90
- 130
- 160

## Opzioni principali

- Versioni con ingresso
  - PREDISPOSIZIONE MOTORE
  - SENZA ADATTATORE IN INGRESSO
- Versioni alberi di uscita
  - ALBERO LISCIO
  - ALBERO CON CHIAVETTA
- Tipo di servizio
  - S1
  - S5
- Lubrificazione
  - LUBRIFICAZIONE STANDARD
  - UH1 LUBRIFICANTE AD USO ALIMENTARE
- Versioni dei cuscinetti
  - STANDARD
  - RINFORZATI

## 3 CARATTERISTICHE DELLA SERIE TQK

I riduttori a gioco ridotto in configurazione ortogonale della serie TQK costituiscono la soluzione alle problematiche di minimo ingombro talvolta imposte dalle macchine che tendono ad una sempre maggiore compattezza.
I gruppi ortogonali TQK coniugano prestazioni dinamiche elevate con una precisione al vertice della categoria, e tale da consentire grande accuratezza e ripetibilità ai posizionamenti in cui sono utilizzati. I gruppi TQK inoltre sono caratterizzati da un design tipicamente Italiano, che li rende immediatamente riconoscibili fra i prodotti similari dell'industria di riferimento.

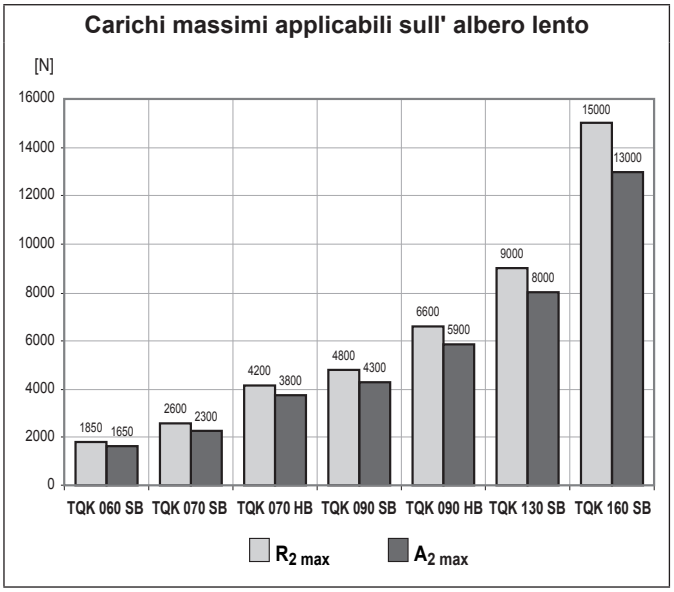


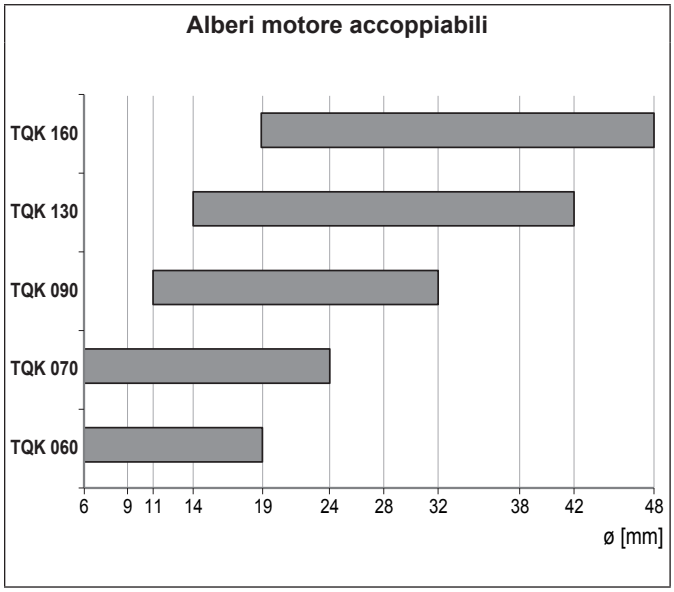
- La serie TQK dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
  2 stadi di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 4'$ ($\varphi_S \leq 6'$; $\varphi_R \leq 5'$ per TQK 060 e TQK 070)
  3 stadi di riduzione: standard $\varphi_S \leq 7'$; ridotto $\varphi_R \leq 6'$ ($\varphi_S \leq 8'$; $\varphi_R \leq 7'$ per TQK 060 e TQK 070)
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero di fornitura standard.
- Livello di rumorosità 60 ≤ Lp ≤ 70 dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 $min^{-1}$; i=20.
- Ampia possibilità di abbinamento alle marche e ai modelli di servomotori più diffusi.
- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

| tipo di servizio | TQK 060 ... TQK 160 | altre tenute |
|---|---|---|
| **S1** (continuo) | Olio sintetico viscosità ISO VG 220 | Fluoro-elastomero |
| **S5** (intermittente) | NLGI grasso con grado di consistenza 00 | NBR |

- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$.
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C.

| **Distribuzione coppia nominale** $M_{n2}$ [Nm] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [i] | **6** | **8** | **10** | **14** | **18** | **20** | **24** | **30** | **40** | **50** | **70** | **80** | **100** | **140** | **200** |
| **TQK 060** | 21 | 28 | 30 | 25 | 21 | 20 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 25 | 20 |
| **TQK 070** | 45 | 60 | 70 | 60 | 45 | 40 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 60 | 40 |
| **TQK 090** | 110 | 150 | 180 | 160 | 130 | 110 | 200 | 180 | 180 | 180 | 180 | 200 | 180 | 160 | 110 |
| **TQK 130** | 255 | 340 | 400 | 360 | 260 | 280 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 360 | 280 |
| **TQK 160** | 420 | 560 | 700 | 750 | 530 | 550 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 750 | 550 |



### *3.1 CODICE ORDINATIVO*

**TQK 130 2 25 STD 80A3 CD 19 S5 SB KL UH1**

LUBRIFICANTE
- **–** standard
- **UH1** lubrificante sintetico ad uso alimentare

CONFIGURAZIONE ALBERO LENTO
- **KL** albero liscio
- **KE** albero con linguetta

SUPPORTAZIONE ALBERO LENTO
- **SB** standard
- **HB** rinforzata (TQK 070 - TQK 090)

TIPO DI SERVIZIO
- **S1** servizio continuo
- **S5** servizio intermittente

DIAMETRO FORO PER ALBERO MOTORE
- **6 ... 48**

TIPO DI CALETTAMENTO ALBERO MOTORE
- **CD** morsetto di serraggio

SEZIONE DI INGRESSO
- **30A ... 230A** predisposizione motore
- **FM** senza adattatore in ingresso

GIOCO ANGOLARE

| | 2 stadi | 2 stadi (solo TQK060, TQK070) | 3 stadi | 3 stadi (solo TQK060, TQK070) |
|---|---|---|---|---|
| **STD** | $\varphi_S \leq 5'$ | $\varphi_S \leq 6'$ | $\varphi_S \leq 7'$ | $\varphi_S \leq 8'$ |
| **LOW** | $\varphi_R \leq 4'$ | $\varphi_R \leq 5'$ | $\varphi_R \leq 6'$ | $\varphi_R \leq 7'$ |

RAPPORTO DI TRASMISSIONE

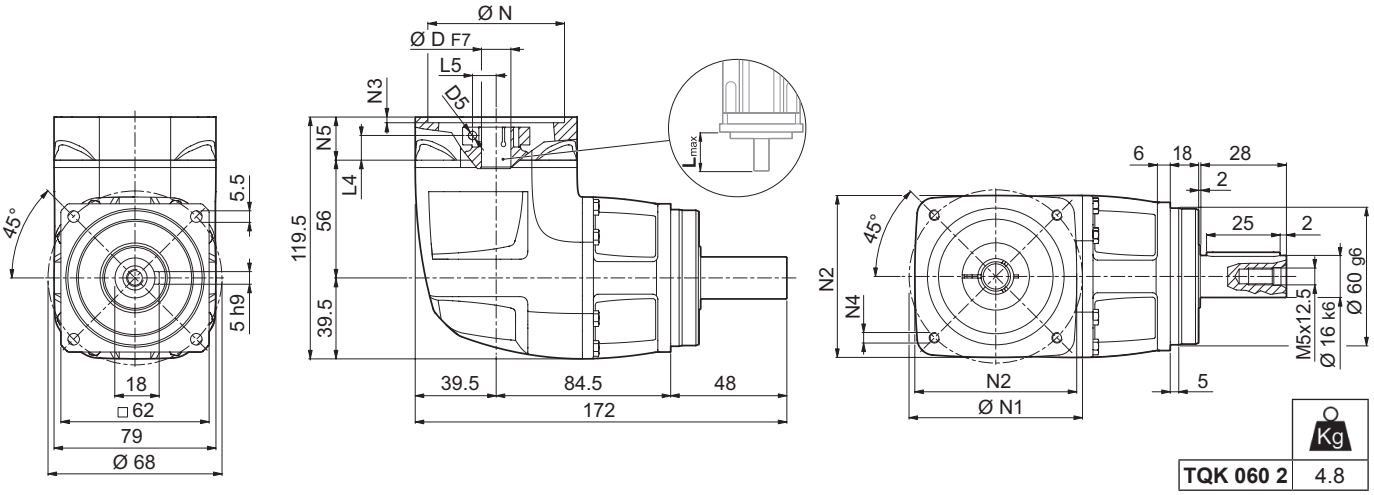
STADI DI RIDUZIONE
- **2** **3**

GRANDEZZA
- **060** **070** **090** **130** **160**

SERIE
- **TQK**

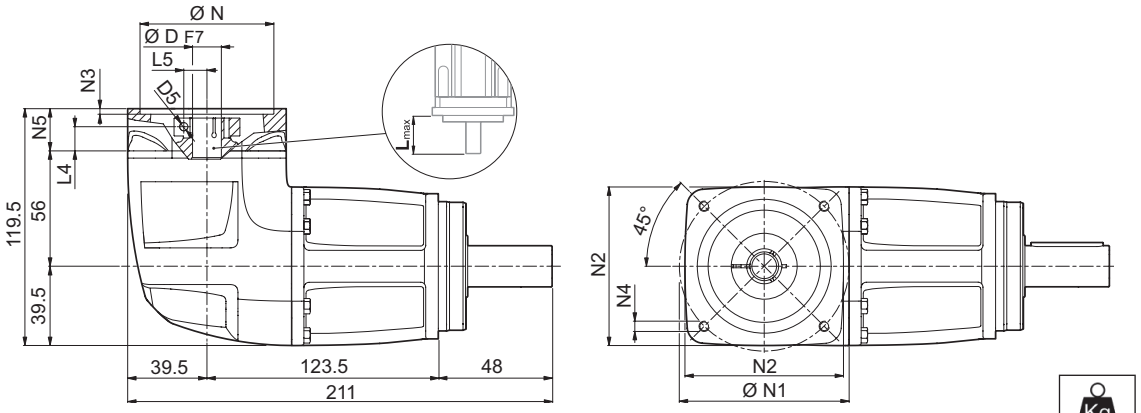
### *3.2 DIMENSIONI E DATI TECNICI*

# TQK 060




| Kg | |
|---|---|
| TQK 060 2 | 4.8 |

## 30A ... 110B0



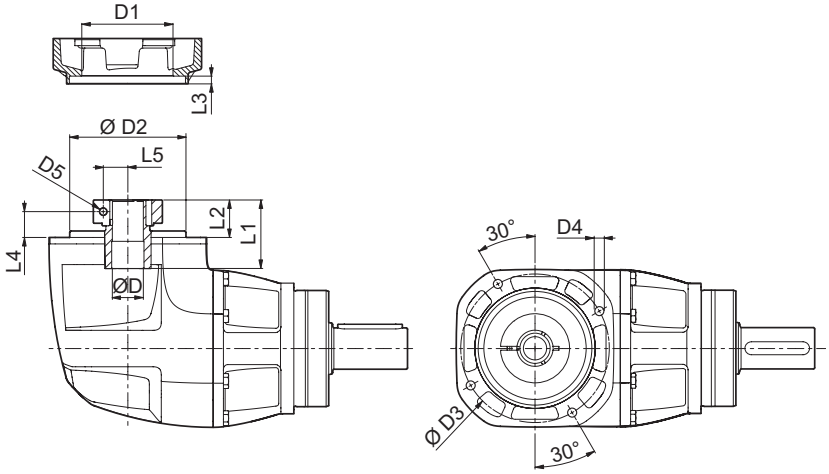

| Kg | |
|---|---|
| TQK 060 3 | 5.9 |

| | D | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **30A** | 6 | – | – | – | – | 30 | 46 | 60 | 3.5 | M4x10 | 24 | 40 |
| **40B1** | 6 | 9 | 11 | 14 | – | 40 | 63 | 60 | 3.5 | M4x10 | 24 | 40 |
| **50A1** | 6 | 9 | 11 | 14 | – | 50 | 60 | 60 | 4.0 | M4x10 | 24 | 40 |
| **50C1** | 6 | 9 | 11 | 14 | – | 50 | 70 | 60 | 4.0 | M4x10 | 24 | 40 |
| **60A2** | 6 | 9 | 11 | 14 | 19 | 60 | 75 | 80 | 4.0 | M5x12 | 24 | 40 |
| **70B1** | 6 | 9 | 11 | 14 | 19 | 70 | 90 | 80 | 4.0 | M5x12 | 24 | 40 |
| **80A1** | 6 | 9 | 11 | 14 | 19 | 80 | 100 | 100 | 4.0 | M6x14 | 24 | 40 |
| **95A** | 6 | 9 | 11 | 14 | 19 | 95 | 115 | 100 | 4.0 | M8x24* | 24 | 40 |
| **110B0** | 6 | 9 | 11 | 14 | 19 | 110 | 145 | 120 | 4.0 | M8x24* | 24 | 40 |

* foro passante. Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQK 060

**FM**

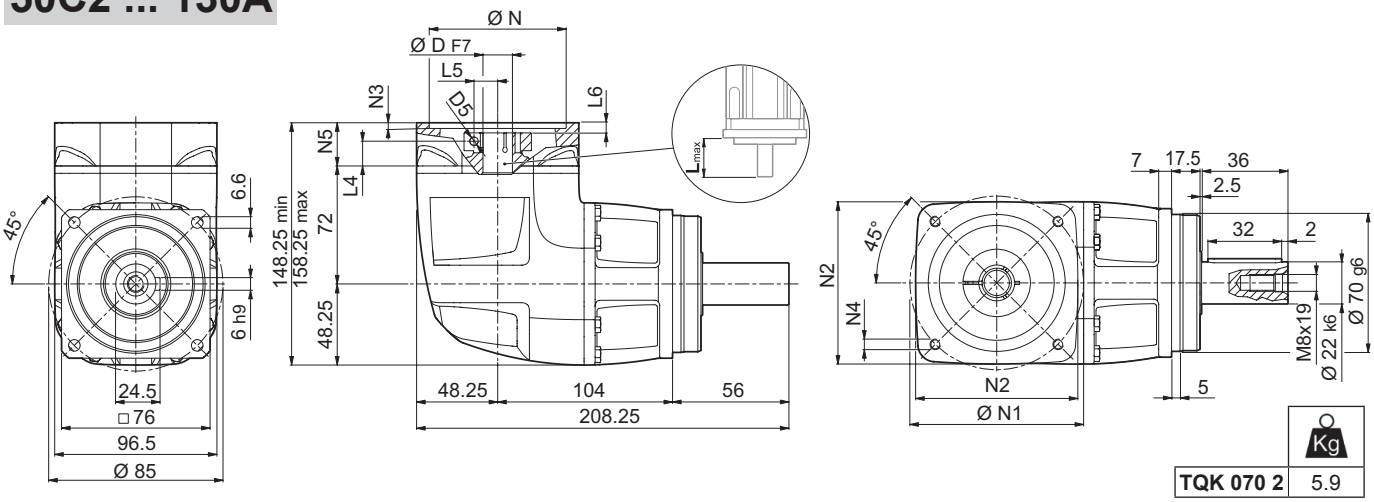



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 37 | 59 | 72 | M5x11 | M4 | 31.5 | 15.5 | 4.5 | 10.5 | 8 |
| 9 | 49 | 59 | 72 | M5x11 | M5 | 35 | 19 | 4.5 | 11.5 | 10.5 |
| 11 | 49 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 12.5 |
| 14 | 49 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 14.5 |
| 19 | 54 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 - 9 | 11 - 14 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQK 060 2_6 | 21 | 30 | 45 | 2500 | 5000 | 6' | 5' | 4.3 | 1850 | 1650 | 94 | 0.76 | 0.78 | 0.78 |
| TQK 060 2_8 | 28 | 40 | 60 | 2500 | 5000 | 6' | 5' | 4.3 | 1850 | 1650 | 94 | 0.75 | 0.76 | 0.77 |
| TQK 060 2_10 | 30 | 45 | 70 | 2500 | 5000 | 6' | 5' | 4.3 | 1850 | 1650 | 94 | 0.73 | 0.75 | 0.75 |
| TQK 060 2_14 | 25 | 38 | 70 | 2500 | 5000 | 6' | 5' | 4.3 | 1850 | 1650 | 94 | 0.72 | 0.73 | 0.74 |
| TQK 060 2_20 | 20 | 30 | 55 | 2500 | 5000 | 6' | 5' | 4.3 | 1850 | 1650 | 94 | 0.71 | 0.72 | 0.73 |
| TQK 060 3_18 | 21 | 32 | 60 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.61 | 0.62 | 0.63 |
| TQK 060 3_24 | 30 | 45 | 80 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.61 | 0.62 | 0.63 |
| TQK 060 3_30 | 30 | 45 | 80 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.60 | 0.62 | 0.62 |
| TQK 060 3_40 | 30 | 45 | 80 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.60 | 0.61 | 0.62 |
| TQK 060 3_50 | 30 | 45 | 80 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.60 | 0.61 | 0.62 |
| TQK 060 3_70 | 30 | 45 | 80 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.60 | 0.61 | 0.62 |
| TQK 060 3_80 | 30 | 45 | 80 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.60 | 0.61 | 0.62 |
| TQK 060 3_100 | 30 | 45 | 80 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.59 | 0.61 | 0.61 |
| TQK 060 3_140 | 25 | 38 | 70 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.59 | 0.61 | 0.61 |
| TQK 060 3_200 | 20 | 30 | 55 | 2500 | 5000 | 8' | 7' | 4.3 | 1850 | 1650 | 91 | 0.59 | 0.61 | 0.61 |

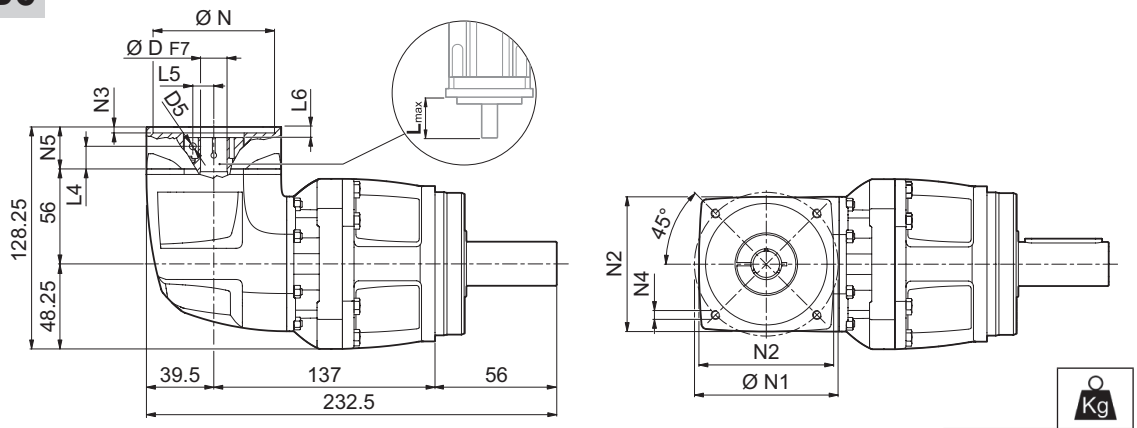
# TQK 070

## 50C2 ... 130A




| | Kg |
|---|---|
| TQK 070 2 | 5.9 |

## 30A ... 110B0



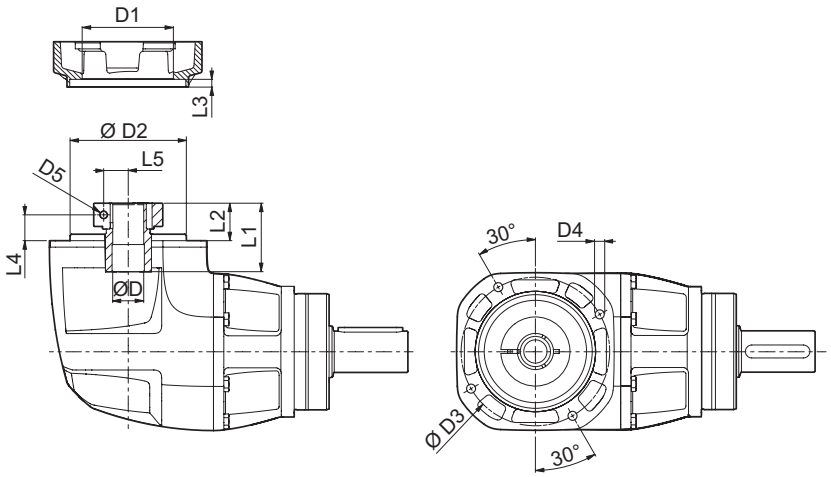

| | Kg |
|---|---|
| TQK 070 3 | 7.3 |

| | D | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 070 2** | | | | | | | | | | | | | |
| **50C2** | 6 | 9 | 11 | 14 | – | – | 50 | 70 | 80 | 6.5 | M4x12 | 28 | 50 |
| **60A3** | 6 | 9 | 11 | 14 | 19 | – | 60 | 75 | 80 | 6.5 | M5x14 | 28 | 50 |
| **70B2** | 6 | 9 | 11 | 14 | 19 | – | 70 | 90 | 80 | 6.5 | M5x14 | 28 | 50 |
| **80A2** | 6 | 9 | 11 | 14 | 19 | – | 80 | 100 | 100 | 6.5 | M6x14 | 28 | 50 |
| **95A1** | 6 | 9 | 11 | 14 | 19 | 24 | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 50 |
| **110A1** | 6 | 9 | 11 | 14 | 19 | 24 | 110 | 130 | 120 | 6.5 | M8x18 | 28 | 50 |
| **110B1** | 6 | 9 | 11 | 14 | 19 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 60 |
| **130A** | 6 | 9 | 11 | 14 | 19 | 24 | 130 | 165 | 140 | 6.5 | M10x19 | 28 | 50 |
| **TQK 070 3** | | | | | | | | | | | | | |
| **30A** | 6 | – | – | – | – | – | 30 | 46 | 60 | 3.5 | M4x10 | 24 | 40 |
| **40B1** | 6 | 9 | 11 | 14 | – | – | 40 | 63 | 60 | 3.5 | M4x10 | 24 | 40 |
| **50A1** | 6 | 9 | 11 | 14 | – | – | 50 | 60 | 60 | 4.0 | M4x10 | 24 | 40 |
| **50C1** | 6 | 9 | 11 | 14 | – | – | 50 | 70 | 60 | 4.0 | M4x10 | 24 | 40 |
| **60A2** | 6 | 9 | 11 | 14 | 19 | – | 60 | 75 | 80 | 4.0 | M5x12 | 24 | 40 |
| **70B1** | 6 | 9 | 11 | 14 | 19 | – | 70 | 90 | 80 | 4.0 | M5x12 | 24 | 40 |
| **80A1** | 6 | 9 | 11 | 14 | 19 | – | 80 | 100 | 100 | 4.0 | M6x14 | 24 | 40 |
| **95A** | 6 | 9 | 11 | 14 | 19 | – | 95 | 115 | 100 | 4.0 | M8x24* | 24 | 40 |
| **110B0** | 6 | 9 | 11 | 14 | 19 | – | 110 | 145 | 120 | 4.0 | M8x24* | 24 | 40 |

* foro passante. Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQK 070

**FM**

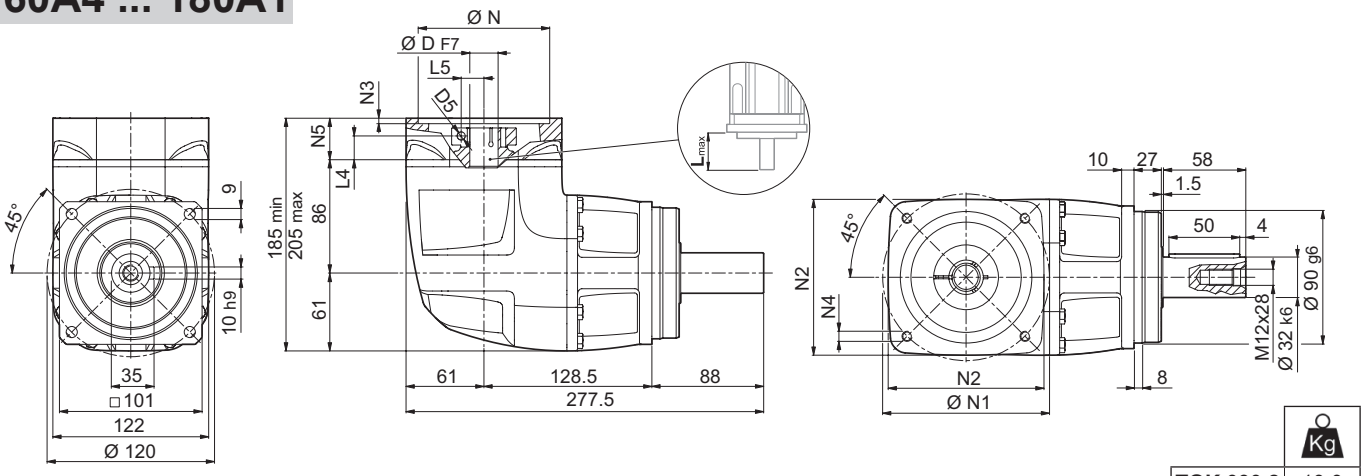



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 070 2** | | | | | | | | | | |
| 6 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 12.5 |
| 9 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 12.5 |
| 11 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 12.5 |
| 14 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 14.5 |
| 19 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 16.5 |
| 24 | 60 | 70 | 85 | M6x11 | M6 | 43.5 | 21.5 | 5 | 12.5 | 19 |
| **TQK 070 3** | | | | | | | | | | |
| 6 | 37 | 59 | 72 | M5x11 | M4 | 31.5 | 15.5 | 4.5 | 10.5 | 8 |
| 9 | 49 | 59 | 72 | M5x11 | M5 | 35 | 19 | 4.5 | 11.5 | 10.5 |
| 11 | 49 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 12.5 |
| 14 | 49 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 14.5 |
| 19 | 54 | 59 | 72 | M5x11 | M6 | 35 | 19 | 4.5 | 11.5 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | SB $R_{2\,max}$ [N] | SB $A_{2\,max}$ [N] | HB $R_{2\,max}$ [N] | HB $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 - 9 | $J_G$ [kgcm$^2$] D 11 - 14 | $J_G$ [kgcm$^2$] D 19 | $J_G$ [kgcm$^2$] D 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 070 2_6** | 45 | 65 | 90 | 2500 | 5000 | 6' | 5' | 11 | 2600 | 2300 | 4200 | 3800 | 94 | – | 1.52 | 1.55 | 1.63 |
| **TQK 070 2_8** | 60 | 85 | 120 | 2500 | 5000 | 6' | 5' | 11 | 2600 | 2300 | 4200 | 3800 | 94 | – | 1.44 | 1.47 | 1.55 |
| **TQK 070 2_10** | 70 | 100 | 150 | 2500 | 5000 | 6' | 5' | 11 | 2600 | 2300 | 4200 | 3800 | 94 | – | 1.41 | 1.43 | 1.52 |
| **TQK 070 2_14** | 60 | 90 | 160 | 2500 | 5000 | 6' | 5' | 11 | 2600 | 2300 | 4200 | 3800 | 94 | – | 1.38 | 1.41 | 1.49 |
| **TQK 070 2_20** | 40 | 60 | 110 | 2500 | 5000 | 6' | 5' | 11 | 2600 | 2300 | 4200 | 3800 | 94 | – | 1.36 | 1.39 | 1.48 |
| **TQK 070 3_18** | 45 | 65 | 120 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.28 | 1.39 | 1.42 | – |
| **TQK 070 3_24** | 70 | 100 | 180 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.26 | 1.37 | 1.40 | – |
| **TQK 070 3_30** | 70 | 100 | 180 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.25 | 1.36 | 1.39 | – |
| **TQK 070 3_40** | 70 | 100 | 180 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.20 | 1.31 | 1.34 | – |
| **TQK 070 3_50** | 70 | 100 | 180 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.19 | 1.31 | 1.33 | – |
| **TQK 070 3_70** | 70 | 100 | 180 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.18 | 1.29 | 1.32 | – |
| **TQK 070 3_80** | 70 | 100 | 180 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.17 | 1.29 | 1.31 | – |
| **TQK 070 3_100** | 70 | 100 | 180 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.17 | 1.28 | 1.31 | – |
| **TQK 070 3_140** | 60 | 90 | 160 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.16 | 1.27 | 1.30 | – |
| **TQK 070 3_200** | 40 | 60 | 110 | 2500 | 5000 | 8' | 7' | 11 | 2600 | 2300 | 4200 | 3800 | 91 | 1.15 | 1.27 | 1.29 | – |

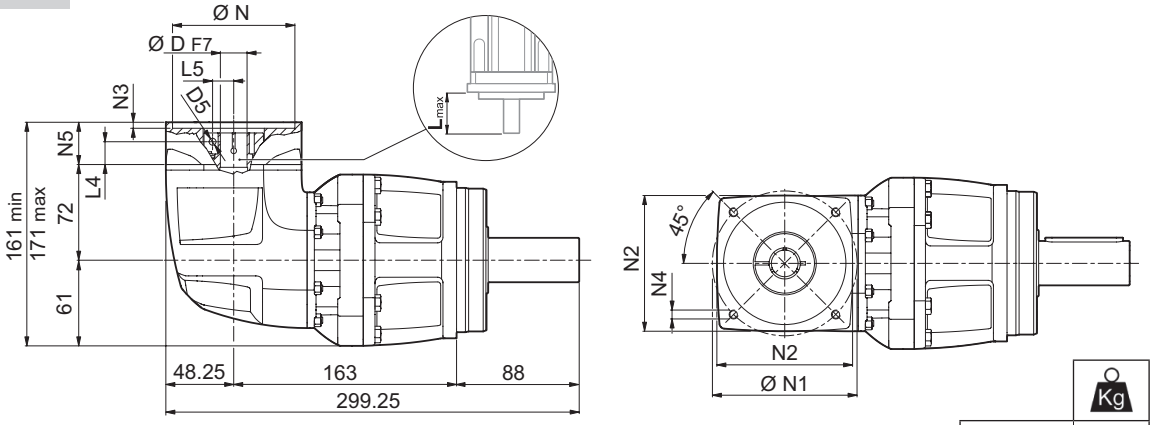
# TQK 090

## 60A4 ... 180A1




| | Kg |
|---|---|
| TQK 090 2 | 10.0 |

## 50C2 ... 130A



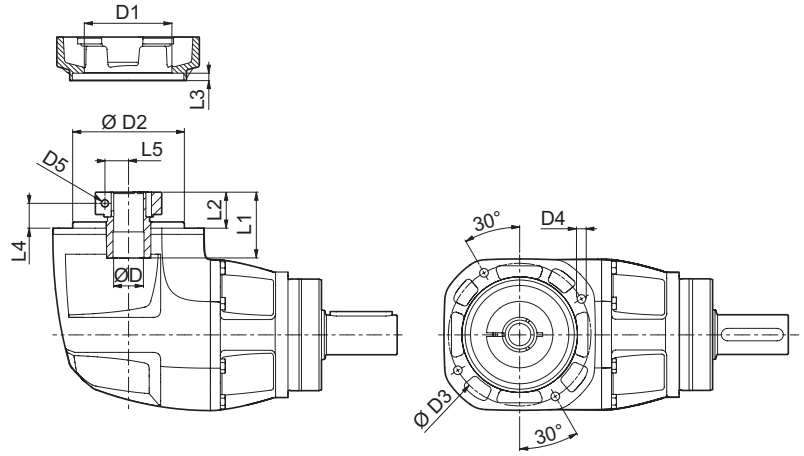

| | Kg |
|---|---|
| TQK 090 3 | 11.7 |

| | D | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 090 2** | | | | | | | | | | | | | |
| **60A4** | 11 | 14 | 19 | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 38 | 60 |
| **80A3** | 11 | 14 | 19 | – | – | – | 80 | 100 | 100 | 6.5 | M6x14 | 38 | 60 |
| **95A2** | 11 | 14 | 19 | 24 | 28 | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 60 |
| **110A2** | 11 | 14 | 19 | 24 | – | – | 110 | 130 | 122 | 6.5 | M8x20 | 38 | 60 |
| **110B1** | 11 | 14 | 19 | 24 | 28 | – | 110 | 145 | 122 | 6.5 | M8x20 | 38 | 60 |
| **130A1** | 11 | 14 | 19 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 60 |
| **180A** | 11 | 14 | 19 | 24 | 28 | 32 | 180 | 215 | 190 | 6.5 | M14x38* | 38 | 60 |
| **180A1** | 11 | 14 | 19 | 24 | 28 | 32 | 180 | 215 | 190 | 6.5 | M14x28 | 58 | 80 |
| **TQK 090 3** | | | | | | | | | | | | | |
| **50C2** | 11 | 14 | – | – | – | – | 50 | 70 | 80 | 6.5 | M4x12 | 28 | 50 |
| **60A3** | 11 | 14 | 19 | – | – | – | 60 | 75 | 80 | 6.5 | M5x14 | 28 | 50 |
| **70B2** | 11 | 14 | 19 | – | – | – | 70 | 90 | 80 | 6.5 | M5x14 | 28 | 50 |
| **80A2** | 11 | 14 | 19 | – | – | – | 80 | 100 | 100 | 6.5 | M6x14 | 28 | 50 |
| **95A1** | 11 | 14 | 19 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 50 |
| **110A1** | 11 | 14 | 19 | 24 | – | – | 110 | 130 | 120 | 6.5 | M8x18 | 28 | 50 |
| **110B1** | 11 | 14 | 19 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 60 |
| **130A** | 11 | 14 | 19 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x19 | 28 | 50 |

* foro passante. Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQK 090

**FM**

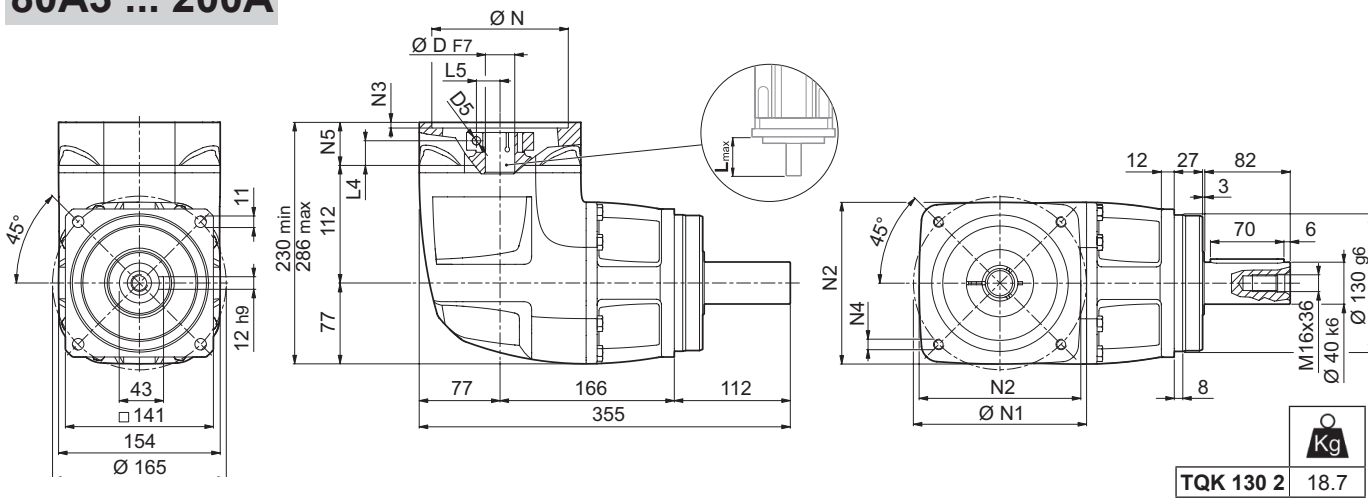



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 090 2** | | | | | | | | | | |
| 11 | 51 | 90 | 115 | M9x13 | M6 | 50 | 28 | 6.5 | 20.5 | 14.5 |
| 14 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 14.5 |
| 19 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 16.5 |
| 24 | 60 | 90 | 115 | M8x13 | M6 | 51.5 | 29.5 | 6.5 | 20.5 | 19 |
| 28 | 72 | 90 | 115 | M8x13 | M8 | 51.5 | 29.5 | 6.5 | 20.5 | 22.5 |
| 32 | 72 | 90 | 115 | M8x13 | M8 | 51.5 | 29.5 | 6.5 | 20.5 | 24.5 |
| **TQK 090 3** | | | | | | | | | | |
| 11 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 12.5 |
| 14 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 14.5 |
| 19 | 51 | 70 | 85 | M6x11 | M6 | 42 | 20 | 5 | 12.5 | 16.5 |
| 24 | 60 | 70 | 85 | M6x11 | M6 | 43.5 | 21.5 | 5 | 12.5 | 19 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ ≤ | $\varphi_R$ ≤ | $C_t$ | SB $R_{2\,max}$ | SB $A_{2\,max}$ | HB $R_{2\,max}$ | HB $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | [N] | [N] | % | 11 | 14 | 19 - 24 | 28 - 32 |
| TQK 090 2_6 | 110 | 150 | 225 | 2000 | 4500 | 5' | 4' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | – | 4.82 | 4.89 | 5.42 |
| TQK 090 2_8 | 150 | 208 | 300 | 2000 | 4500 | 5' | 4' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | – | 4.56 | 4.63 | 5.16 |
| TQK 090 2_10 | 180 | 260 | 360 | 2000 | 4500 | 5' | 4' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | – | 4.45 | 4.51 | 5.04 |
| TQK 090 2_14 | 160 | 250 | 500 | 2000 | 4500 | 5' | 4' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | – | 4.34 | 4.41 | 4.94 |
| TQK 090 2_20 | 110 | 170 | 350 | 2000 | 4500 | 5' | 4' | 28 | 4800 | 4300 | 6600 | 5900 | 94 | – | 4.29 | 4.36 | 4.88 |
| TQK 090 3_18 | 130 | 200 | 400 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.56 | 3.63 | 3.70 | – |
| TQK 090 3_24 | 200 | 300 | 500 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.53 | 3.60 | 3.67 | – |
| TQK 090 3_30 | 180 | 280 | 500 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.52 | 3.59 | 3.66 | – |
| TQK 090 3_40 | 180 | 280 | 500 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.45 | 3.52 | 3.58 | – |
| TQK 090 3_50 | 180 | 280 | 500 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.42 | 3.49 | 3.56 | – |
| TQK 090 3_70 | 180 | 280 | 500 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.40 | 3.46 | 3.53 | – |
| TQK 090 3_80 | 200 | 300 | 500 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.38 | 3.45 | 3.52 | – |
| TQK 090 3_100 | 180 | 280 | 500 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.38 | 3.45 | 3.52 | – |
| TQK 090 3_140 | 160 | 250 | 500 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.38 | 3.45 | 3.52 | – |
| TQK 090 3_200 | 110 | 170 | 350 | 2000 | 4500 | 7' | 6' | 28 | 4800 | 4300 | 6600 | 5900 | 91 | 3.38 | 3.45 | 3.52 | – |

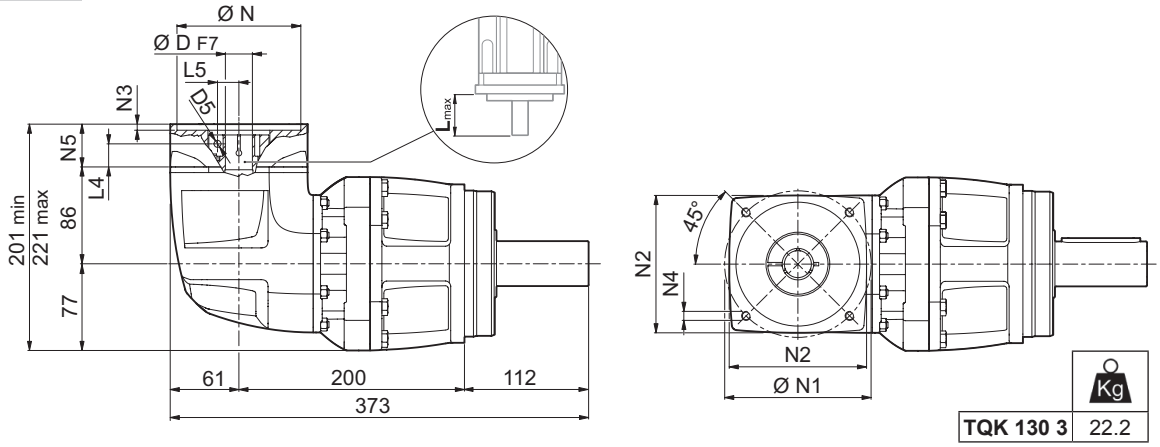
# TQK 130

## 80A3 ... 200A




| TQK 130 2 | 18.7 |
|---|---|

## 60A4 ... 180A1



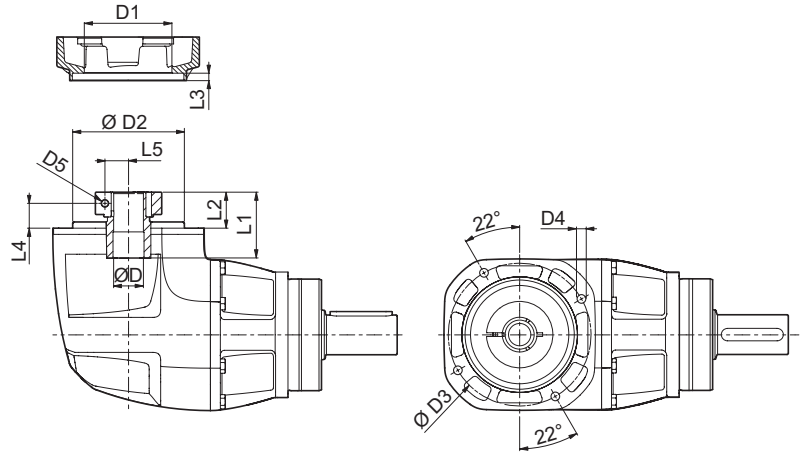

| TQK 130 3 | 22.2 |
|---|---|

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 130 2** | | | | | | | | | | | | | | |
| **80A3** | 14 | 19 | – | – | – | – | – | 80 | 100 | 130 | 6.5 | M6x14 | 41 | 60 |
| **95A2** | 14 | 19 | 24 | 28 | – | – | – | 95 | 115 | 130 | 6.5 | M8x18 | 41 | 60 |
| **110A2** | 14 | 19 | 24 | – | – | – | – | 110 | 130 | 130 | 6.5 | M8x20 | 41 | 60 |
| **110B1** | 14 | 19 | 24 | 28 | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 41 | 60 |
| **130A1** | 14 | 19 | 24 | 28 | 32 | – | – | 130 | 165 | 154 | 6.5 | M10x20 | 41 | 60 |
| **180A** | 14 | 19 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x28 | 41 | 60 |
| **180A1** | 14 | 19 | 24 | 28 | 32 | 38 | – | 180 | 215 | 190 | 6.5 | M14x28 | 61 | 80 |
| **200A** | 14 | 19 | 24 | 28 | 32 | 38 | 42 | 200 | 235 | 210 | 6.5 | M14x28 | 97 | 110 |
| **TQK 130 3** | | | | | | | | | | | | | | |
| **60A4** | 14 | 19 | – | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 38 | 60 |
| **80A3** | 14 | 19 | – | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x14 | 38 | 60 |
| **95A2** | 14 | 19 | 24 | 28 | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 60 |
| **110A2** | 14 | 19 | 24 | - | – | – | – | 110 | 130 | 122 | 6.5 | M8x20 | 38 | 60 |
| **110B1** | 14 | 19 | 24 | 28 | – | – | – | 110 | 145 | 122 | 6.5 | M8x20 | 38 | 60 |
| **130A1** | 14 | 19 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 60 |
| **180A** | 14 | 19 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x38 | 38 | 60 |
| **180A1** | 14 | 19 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x28 | 58 | 80 |

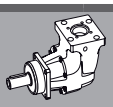
* foro passante. Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQK 130

**FM**

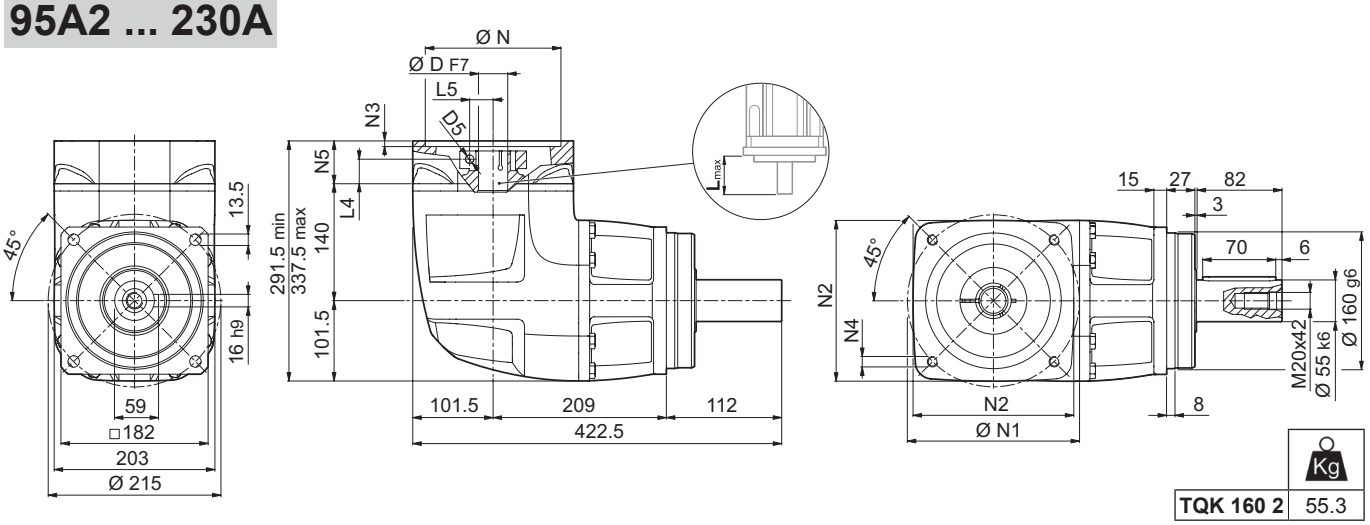



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 130 2** | | | | | | | | | | |
| 14 | 54 | 120 | 140 | M10x16 | M6 | 50 | 31 | 7.5 | 23.5 | 16.5 |
| 19 | 54 | 120 | 140 | M10x16 | M6 | 50 | 31 | 7.5 | 23.5 | 16.5 |
| 24 | 70 | 120 | 140 | M10x16 | M6 | 51.5 | 32.5 | 7.5 | 23.5 | 19 |
| 28 | 70 | 120 | 140 | M10x16 | M8 | 51.5 | 32.5 | 7.5 | 23.5 | 22.5 |
| 32 | 72 | 120 | 140 | M10x16 | M8 | 51.5 | 32.5 | 7.5 | 23.5 | 24.5 |
| 38 | 100 | 120 | 140 | M10x16 | M8 | 54 | 35 | 7.5 | 23.5 | 28 |
| 42 | 114 | 120 | 140 | M10x16 | M10 | 51.5 | 38.5 | 7.5 | 23.5 | 33 |
| **TQK 130 3** | | | | | | | | | | |
| 14 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 14.5 |
| 19 | 51 | 90 | 115 | M8x13 | M6 | 50 | 28 | 6.5 | 20.5 | 16.5 |
| 24 | 60 | 90 | 115 | M8x13 | M6 | 51.5 | 29.5 | 6.5 | 20.5 | 19 |
| 28 | 72 | 90 | 115 | M8x13 | M8 | 51.5 | 29.5 | 6.5 | 20.5 | 22.5 |
| 32 | 72 | 90 | 115 | M8x13 | M8 | 51.5 | 29.5 | 6.5 | 20.5 | 24.5 |

|  i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 | 19 - 24 | 28 - 32 | 38 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 130 2_6** | 255 | 360 | 510 | 2000 | 4500 | 5' | 4' | 56 | 9000 | 8000 | 94 | – | 17.44 | 18.02 | 18.55 | 24.47 |
| **TQK 130 2_8** | 340 | 480 | 680 | 2000 | 4500 | 5' | 4' | 56 | 9000 | 8000 | 94 | – | 16.31 | 16.89 | 17.41 | 23.33 |
| **TQK 130 2_10** | 400 | 600 | 850 | 2000 | 4500 | 5' | 4' | 56 | 9000 | 8000 | 94 | – | 15.77 | 16.35 | 16.88 | 22.80 |
| **TQK 130 2_14** | 360 | 550 | 950 | 2000 | 4500 | 5' | 4' | 56 | 9000 | 8000 | 94 | – | 15.35 | 15.93 | 16.46 | 22.38 |
| **TQK 130 2_20** | 280 | 420 | 900 | 2000 | 4500 | 5' | 4' | 56 | 9000 | 8000 | 94 | – | 15.13 | 15.71 | 16.23 | 22.15 |
| **TQK 130 3_18** | 260 | 400 | 900 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 15.18 | 15.34 | 15.92 | – | – |
| **TQK 130 3_24** | 400 | 600 | 1000 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 15.05 | 15.21 | 15.79 | – | – |
| **TQK 130 3_30** | 400 | 600 | 1000 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 14.99 | 15.15 | 15.73 | – | – |
| **TQK 130 3_40** | 400 | 600 | 1000 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 14.72 | 14.88 | 15.46 | – | – |
| **TQK 130 3_50** | 400 | 600 | 1000 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 14.61 | 14.77 | 15.35 | – | – |
| **TQK 130 3_70** | 400 | 600 | 1000 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 14.52 | 14.68 | 15.25 | – | – |
| **TQK 130 3_80** | 400 | 600 | 1000 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 14.47 | 14.63 | 15.21 | – | – |
| **TQK 130 3_100** | 400 | 600 | 1000 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 14.46 | 14.62 | 15.20 | – | – |
| **TQK 130 3_140** | 360 | 550 | 950 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 14.46 | 14.62 | 15.20 | – | – |
| **TQK 130 3_200** | 280 | 420 | 900 | 2000 | 4500 | 7' | 6' | 56 | 9000 | 8000 | 91 | 14.46 | 14.62 | 15.20 | – | – |

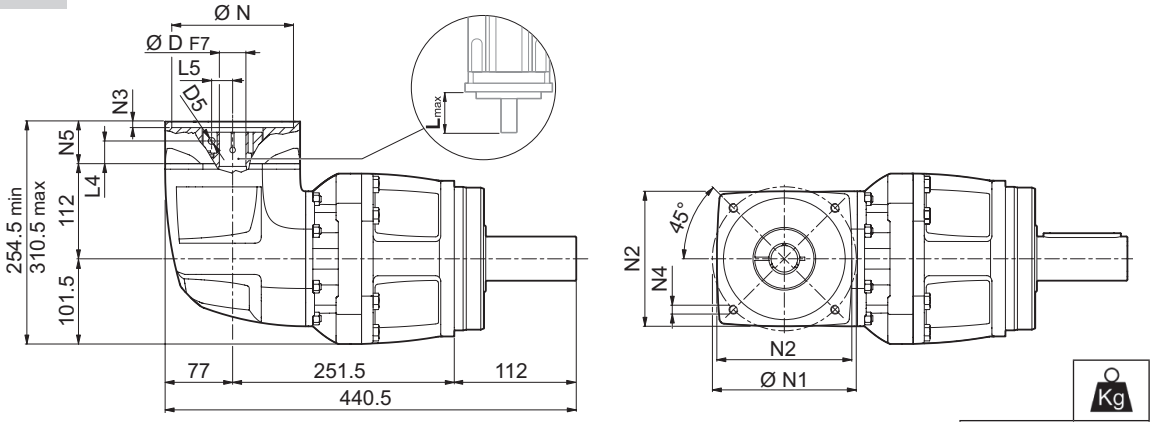
# TQK 160

## 95A2 ... 230A




| | Kg |
|---|---|
| **TQK 160 2** | 55.3 |

## 80A3 ... 200A



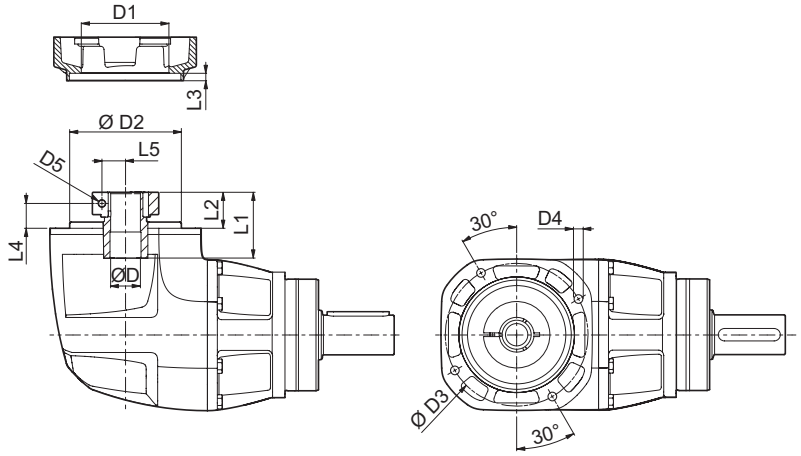

| | Kg |
|---|---|
| **TQK 160 3** | 63 |

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 160 2** | | | | | | | | | | | | | | |
| **95A2** | 19 | 24 | 28 | – | – | – | – | 95 | 115 | 158 | 6.5 | M8x20 | 50 | 60 |
| **110A2** | 19 | 24 | – | – | – | – | – | 110 | 130 | 158 | 6.5 | M8x20 | 50 | 60 |
| **130A1** | 19 | 24 | 28 | 32 | – | – | – | 130 | 165 | 158 | 6.5 | M10x20 | 50 | 60 |
| **180A** | 19 | 24 | 28 | 32 | – | – | – | 180 | 215 | 203 | 6.5 | M14x28 | 50 | 60 |
| **180A1** | 19 | 24 | 28 | 32 | 38 | – | – | 180 | 215 | 205 | 6.5 | M14x28 | 60 | 80 |
| **200A** | 19 | 24 | 28 | 32 | 38 | 42 | 48 | 200 | 235 | 220 | 6.5 | M14x28 | 96 | 110 |
| **230A** | 19 | 24 | 28 | 32 | 38 | 42 | 48 | 230 | 265 | 240 | 6.5 | M14x28 | 96 | 110 |
| **TQK 160 3** | | | | | | | | | | | | | | |
| **80A3** | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 6.5 | M6x14 | 41 | 60 |
| **95A2** | 19 | 24 | 28 | – | – | – | – | 95 | 115 | 130 | 6.5 | M8x18 | 41 | 60 |
| **110A2** | 19 | 24 | – | – | – | – | – | 110 | 130 | 130 | 6.5 | M8x20 | 41 | 60 |
| **110B1** | 19 | 24 | 28 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 41 | 60 |
| **130A1** | 19 | 24 | 28 | 32 | – | – | – | 130 | 165 | 154 | 6.5 | M10x20 | 41 | 60 |
| **180A** | 19 | 24 | 28 | 32 | – | – | – | 180 | 215 | 190 | 6.5 | M14x28 | 41 | 60 |
| **180A1** | 19 | 24 | 28 | 32 | 38 | – | – | 180 | 215 | 190 | 6.5 | M14x28 | 61 | 80 |
| **200A** | 19 | 24 | 28 | 32 | 38 | 42 | – | 200 | 235 | 210 | 6.5 | M14x28 | 97 | 110 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQK 160

**FM**




| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 160 2** | | | | | | | | | | |
| 19 | 58 | 150 | 175 | M12x20 | M6 | 47 | 37 | 9.5 | 28 | 19 |
| 24 | 58 | 150 | 175 | M12x20 | M6 | 47 | 37 | 9.5 | 28 | 19 |
| 28 | 70 | 150 | 175 | M12x20 | M8 | 47 | 37 | 9.5 | 28 | 22.5 |
| 32 | 72 | 150 | 175 | M12x20 | M8 | 47 | 37 | 9.5 | 28 | 24.5 |
| 38 | 100 | 150 | 175 | M12x20 | M8 | 59.5 | 39.5 | 9.5 | 28 | 28 |
| 42 | 114 | 150 | 175 | M12x20 | M10 | 57 | 45 | 9.5 | 28 | 33 |
| 48 | 125 | 150 | 175 | M12x20 | M12 | 57 | 45 | 9.5 | 28 | 36.5 |
| **TQK 160 3** | | | | | | | | | | |
| 19 | 54 | 120 | 140 | M10x16 | M6 | 50 | 31 | 7.5 | 23.5 | 16.5 |
| 24 | 70 | 120 | 140 | M10x16 | M6 | 51.5 | 32.5 | 7.5 | 23.5 | 19 |
| 28 | 70 | 120 | 140 | M10x16 | M8 | 51.5 | 32.5 | 7.5 | 23.5 | 22.5 |
| 32 | 72 | 120 | 140 | M10x16 | M8 | 51.5 | 32.5 | 7.5 | 23.5 | 24.5 |
| 38 | 100 | 120 | 140 | M10x16 | M8 | 54 | 35 | 7.5 | 23.5 | 28 |
| 42 | 114 | 120 | 140 | M10x16 | M10 | 51.5 | 38.5 | 7.5 | 23.5 | 33 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 19 | 24 - 28 | 32 - 38 | 42 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQK 160 2_6** | 420 | 630 | 840 | 1600 | 4000 | 5' | 4' | 167 | 15000 | 13000 | 94 | – | 73.33 | 73.51 | 75.57 | 79.19 |
| **TQK 160 2_8** | 560 | 840 | 1120 | 1600 | 4000 | 5' | 4' | 167 | 15000 | 13000 | 94 | – | 69.49 | 69.66 | 71.73 | 75.34 |
| **TQK 160 2_10** | 700 | 1050 | 1400 | 1600 | 4000 | 5' | 4' | 167 | 15000 | 13000 | 94 | – | 67.98 | 68.16 | 70.22 | 73.83 |
| **TQK 160 2_14** | 750 | 1150 | 2000 | 1600 | 4000 | 5' | 4' | 167 | 15000 | 13000 | 94 | – | 66.68 | 66.85 | 68.92 | 72.53 |
| **TQK 160 2_20** | 550 | 850 | 1600 | 1600 | 4000 | 5' | 4' | 167 | 15000 | 13000 | 94 | – | 65.94 | 66.12 | 68.18 | 71.80 |
| **TQK 160 3_18** | 530 | 800 | 1500 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 66.84 | 67.17 | 67.34 | 69.41 | – |
| **TQK 160 3_24** | 800 | 1200 | 2000 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 66.47 | 66.79 | 66.97 | 69.03 | – |
| **TQK 160 3_30** | 800 | 1200 | 2000 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 66.30 | 66.63 | 66.80 | 68.87 | – |
| **TQK 160 3_40** | 800 | 1200 | 2000 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 65.41 | 65.73 | 65.91 | 67.97 | – |
| **TQK 160 3_50** | 800 | 1200 | 2000 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 64.99 | 65.32 | 65.49 | 67.56 | – |
| **TQK 160 3_70** | 800 | 1200 | 2000 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 64.67 | 65.00 | 65.17 | 67.24 | – |
| **TQK 160 3_80** | 800 | 1200 | 2000 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 64.51 | 64.84 | 65.01 | 67.08 | – |
| **TQK 160 3_100** | 800 | 1200 | 2000 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 64.49 | 64.82 | 65.00 | 67.06 | – |
| **TQK 160 3_140** | 750 | 1150 | 2000 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 64.48 | 64.81 | 64.99 | 67.05 | – |
| **TQK 160 3_200** | 550 | 850 | 1600 | 1600 | 4000 | 7' | 6' | 167 | 15000 | 13000 | 91 | 64.47 | 64.80 | 64.98 | 67.04 | – |

# Linea Performance

(P)



## Serie TQF

La serie TQF presenta un flangia in uscita in linea con gli standard di mercato e caratterizzata da un'eccezionale compattezza per installazioni facili.
Momento di ribaltamento, rigidezza e capacità di sovraccarico elevati caratterizzano questo robusto riduttore nella sua categoria di prodotto.

## Vantaggi principali

- Elevata precisione nei movimenti
- Elevata compattezza
- Facile installazione grazie al design standardizzato della flangia
- Massima capacità di sovraccarico
- Elevata flessibilità grazie al design universale

## Caratteristiche principali

- Coppia nominale in uscita (Nm)
  30 - 800
- Gioco torsionale (arcmin)
  3 - 7
- Rigidezza torsionale (Nm)
  12 - 500
- Momento di ribaltamento (Nm)
  115 - 3.700

## Grado di protezione

- IP65

## Grandezze

- 60
- 70
- 90
- 130
- 160

## Opzioni principali

- Versioni con ingresso
  - PREDISPOSIZIONE MOTORE
  - SENZA ADATTATORE IN INGRESSO
- Tipo di servizio
  - S1
  - S5
- Lubrificazione
  - LUBRIFICAZIONE STANDARD
  - UH1 LUBRIFICANTE AD USO ALIMENTARE

## *4 CARATTERISTICHE DELLA NUOVA SERIE TQF*

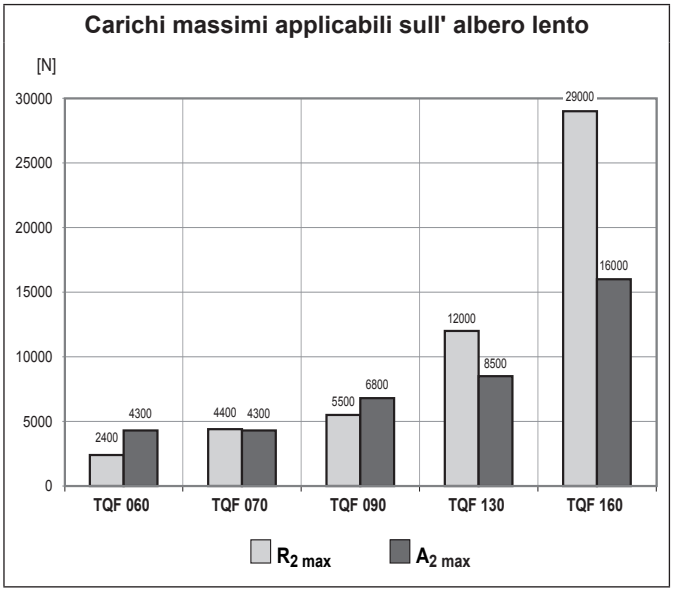
I riduttori a gioco ridotto della serie TQF presentano un albero di uscita flangiato ed sono il prodotto ideale dove viene richiesta alta precisione di posizionamento e funzionamento ciclico altamente dinamico.
Il loro design e la loro forma costruttiva sono stati studiati con l'obiettivo di poter offrire una linea di prodotti con prestazioni eccezionali, i più alti livelli di rigidità, gioco ridotto e compatezza.

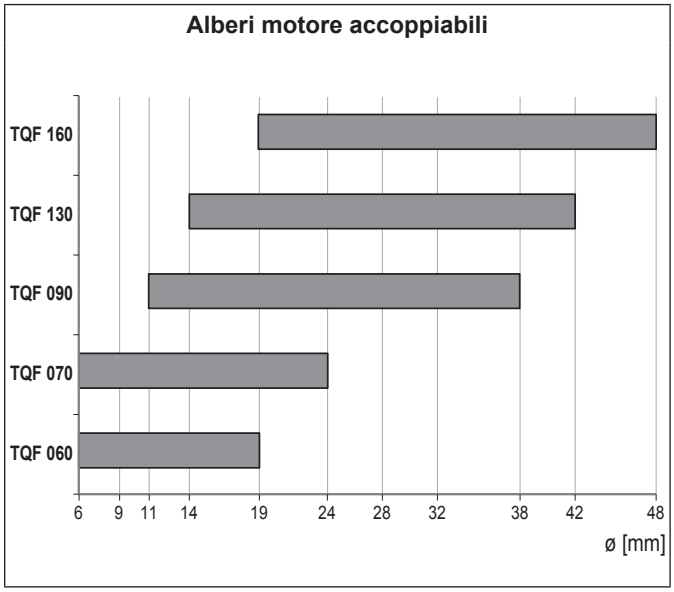
- La serie TQF dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
  1 stadio di riduzione: standard $\varphi_S \leq 5'$ ridotto $\varphi_R \leq 3'$
  2 stadi di riduzione: standard $\varphi_S \leq 7'$ ridotto $\varphi_R \leq 5'$
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero di fornitura standard.
- Livello di rumorosità 60 ≤ Lp ≤ 70 dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 $min^{-1}$; i=10.
- Ampia possibilità di abbinamento alle marche e ai modelli di servomotori più diffusi.
- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

| tipo di servizio | TQF 060 ... TQF 160 | altre tenute |
|---|---|---|
| **S1** (continuo) | Olio sintetico viscosità ISO VG 220 | Fluoro-elastomero |
| **S5** (intermittente) | NLGI grasso con grado di consistenza 00 | NBR |

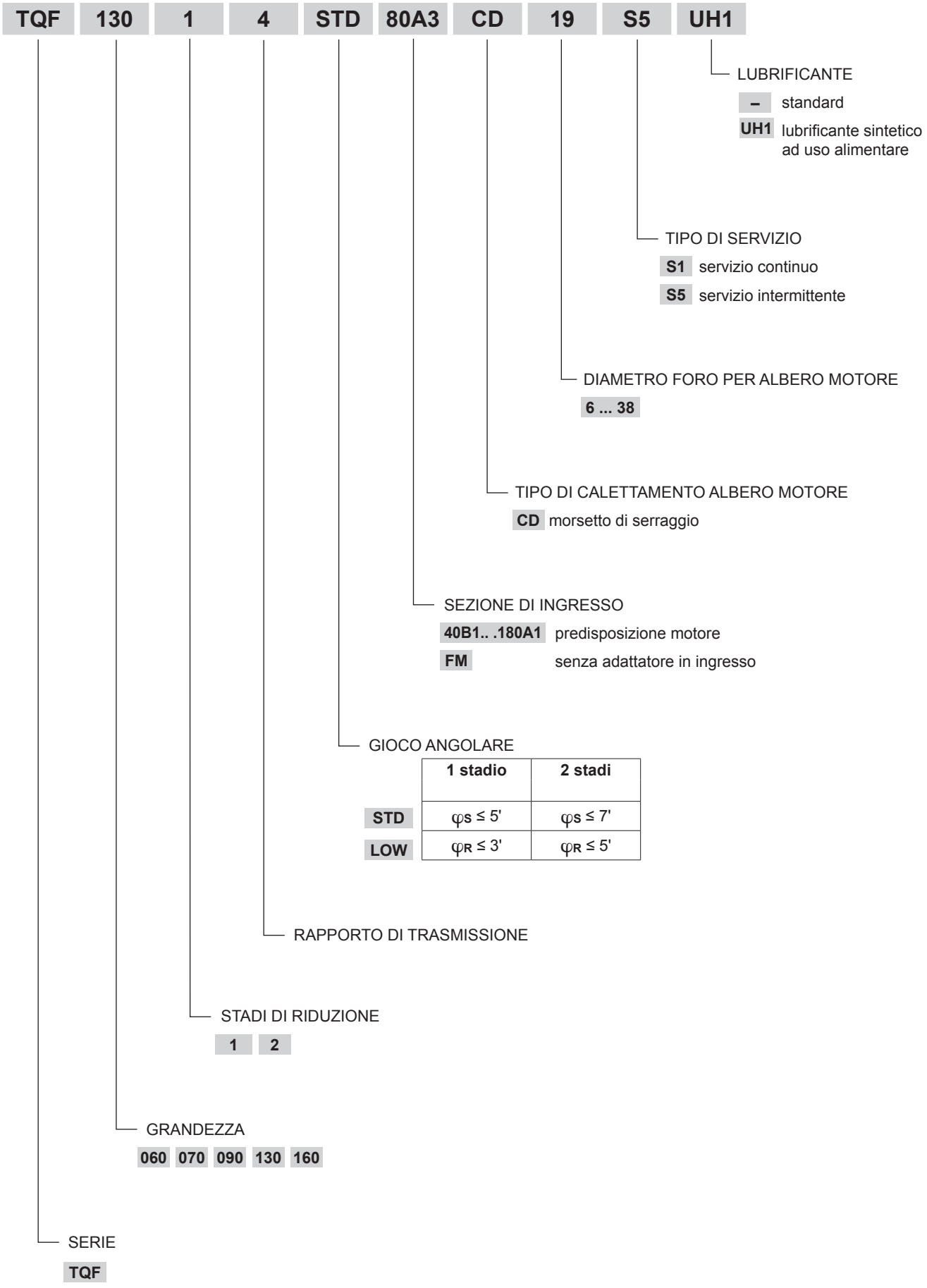
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$.
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C.

| Distribuzione coppia nominale $M_{n2}$ [Nm] | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [i] | **4** | **5** | **7** | **10** | **16** | **20** | **25** | **28** | **35** | **40** | **50** | **70** | **100** |
| **TQF 060** | 30 | 30 | 25 | 20 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 25 | 20 |
| **TQF 070** | 70 | 70 | 60 | 40 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 60 | 40 |
| **TQF 090** | 200 | 180 | 160 | 110 | 200 | 180 | 180 | 200 | 180 | 200 | 180 | 160 | 110 |
| **TQF 130** | 400 | 400 | 360 | 280 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 360 | 280 |
| **TQF 160** | 800 | 800 | 750 | 550 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 750 | 550 |



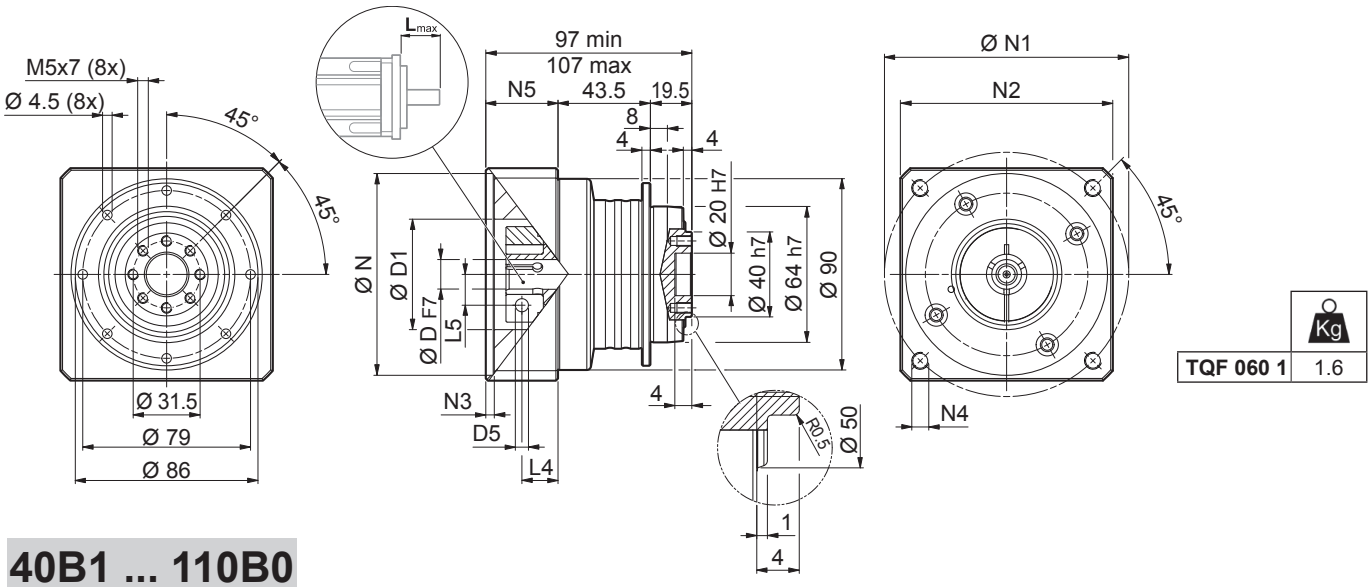



### *4.1 CODICE ORDINATIVO*



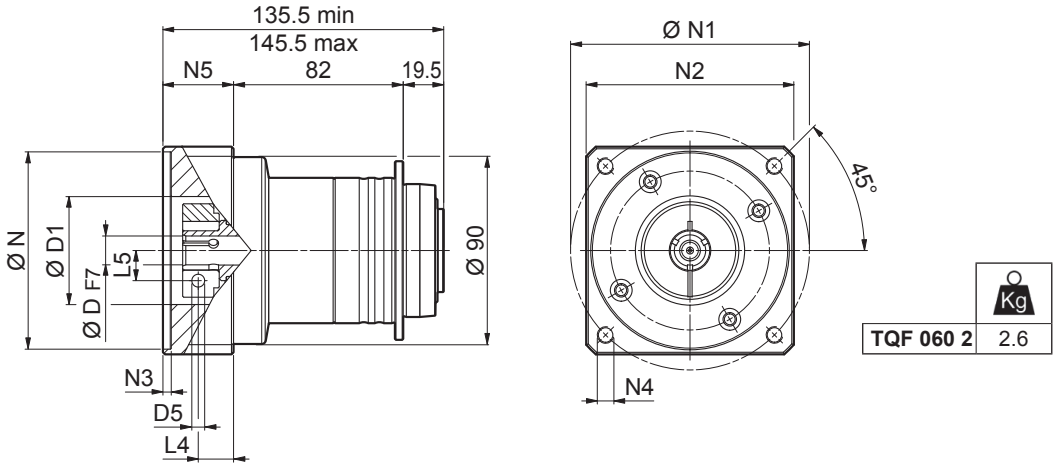
### *4.2 DIMENSIONI E DATI TECNICI*

# TQF 060




| | Kg |
|---|---|
| TQF 060 1 | 1.6 |

## 40B1 ... 110B0



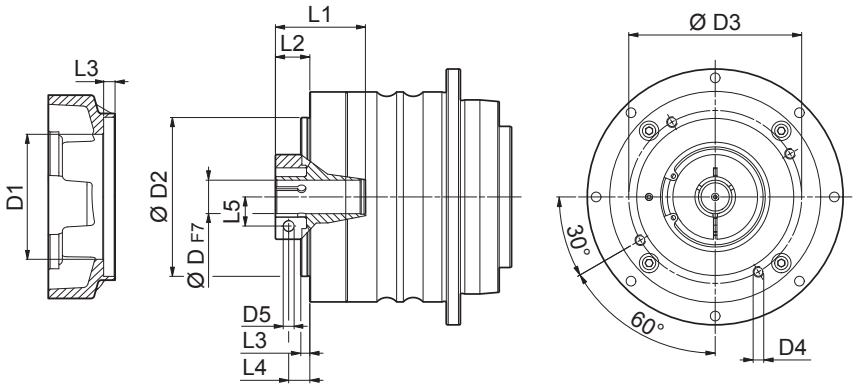

| | Kg |
|---|---|
| TQF 060 2 | 2.6 |

| | D | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 6 | 9 | 11 | 14 | - | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50A1** | 6 | 9 | 11 | 14 | - | 50 | 60 | 80 | 4 | M4x10 | 34 | 40 |
| **50C1** | 6 | 9 | 11 | 14 | - | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **60A2** | 6 | 9 | 11 | 14 | 19 | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **70B1** | 6 | 9 | 11 | 14 | 19 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **80A1** | 6 | 9 | 11 | 14 | 19 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 6 | 9 | 11 | 14 | 19 | 95 | 115 | 100 | 6.5 | M8x20 | 34 | 40 |
| **110B0** | 6 | 9 | 11 | 14 | 19 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 40 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQF 060

**FM**



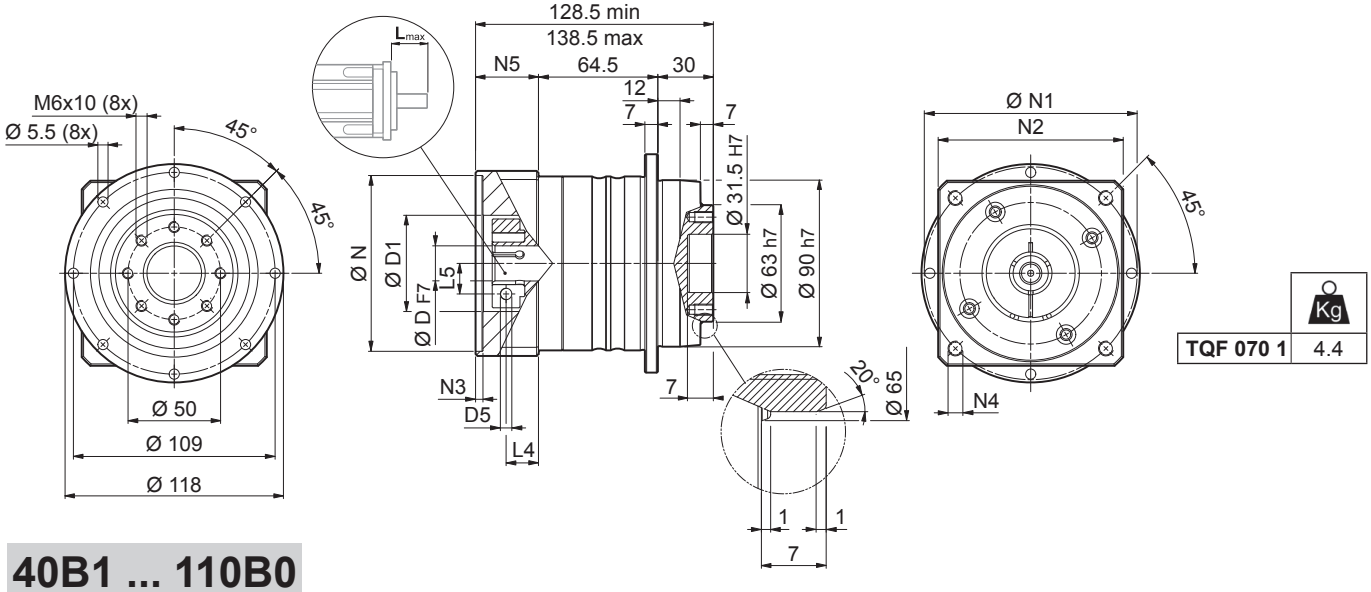



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 37 | 68 | 76.5 | M6x12 | M4 | 31.5 | 21 | 7.5 | 16 | 8 |
| 9 | 49 | 68 | 76.5 | M6x12 | M5 | 35 | 24.5 | 7.5 | 17 | 10.5 |
| 11 | 49 | 68 | 76.5 | M6x12 | M6 | 35 | 24.5 | 7.5 | 17 | 12.5 |
| 14 | 49 | 68 | 76.5 | M6x12 | M6 | 35 | 24.5 | 7.5 | 17 | 14.5 |
| 19 | 54 | 68 | 76.5 | M6x12 | M6 | 35 | 24.5 | 7.5 | 17 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 - 9 | D 11 - 14 | D 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQF 060 1_4 | 30 | 45 | 80 | 3500 | 6000 | 5' | 3' | 12 | 2400 | 4300 | 97 | 0.32 | 0.43 | 0.47 |
| TQF 060 1_5 | 30 | 45 | 80 | 3500 | 6000 | 5' | 3' | 12 | 2400 | 4300 | 97 | 0.27 | 0.39 | 0.42 |
| TQF 060 1_7 | 25 | 38 | 70 | 4000 | 6000 | 5' | 3' | 12 | 2400 | 4300 | 97 | 0.23 | 0.35 | 0.38 |
| TQF 060 1_10 | 20 | 30 | 55 | 4000 | 6000 | 5' | 3' | 12 | 2400 | 4300 | 97 | 0.21 | 0.33 | 0.36 |
| TQF 060 2_16 | 30 | 45 | 80 | 4500 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.28 | 0.39 | 0.43 |
| TQF 060 2_20 | 30 | 45 | 80 | 4500 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.27 | 0.39 | 0.42 |
| TQF 060 2_25 | 30 | 45 | 80 | 4500 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.25 | 0.36 | 0,40 |
| TQF 060 2_28 | 30 | 45 | 80 | 4500 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.22 | 0.34 | 0.37 |
| TQF 060 2_35 | 30 | 45 | 80 | 4500 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.22 | 0.33 | 0.37 |
| TQF 060 2_40 | 30 | 45 | 80 | 4500 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.21 | 0.32 | 0.36 |
| TQF 060 2_50 | 30 | 45 | 80 | 4500 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.21 | 0.32 | 0.36 |
| TQF 060 2_70 | 25 | 38 | 70 | 5000 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.21 | 0.32 | 0.36 |
| TQF 060 2_100 | 20 | 30 | 55 | 5000 | 6000 | 7' | 5' | 12 | 2400 | 4300 | 94 | 0.21 | 0.32 | 0.36 |

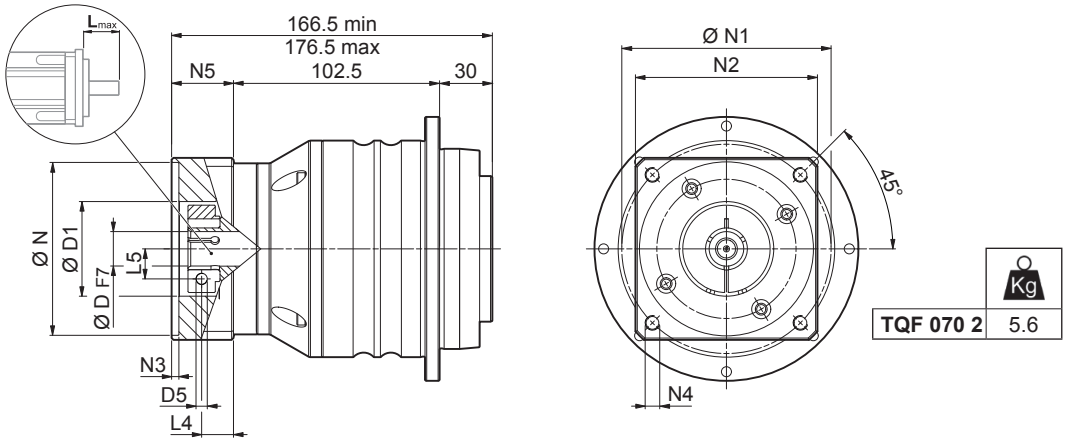
# TQF 070

## 50C2 ... 130A




| | Kg |
|---|---|
| TQF 070 1 | 4.4 |

## 40B1 ... 110B0



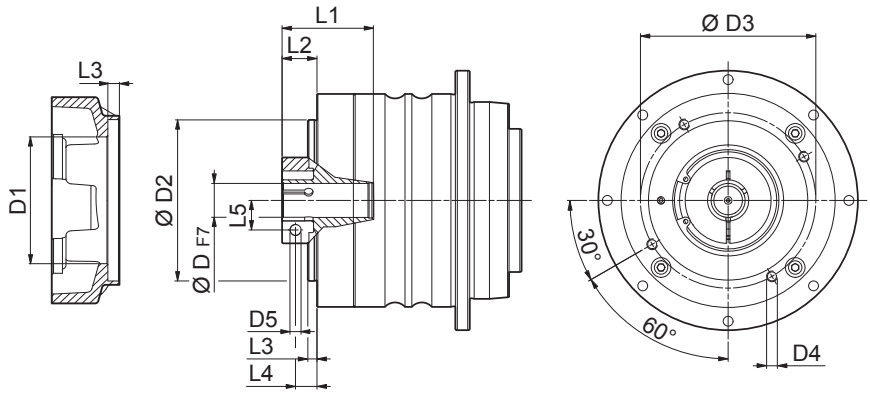

| | Kg |
|---|---|
| TQF 070 2 | 5.6 |

| | D | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 070 1** | | | | | | | | | | | | | |
| **50C2** | 6 | 9 | 11 | 14 | - | - | 50 | 70 | 80 | 4 | M4x10 | 34 | 50 |
| **60A3** | 6 | 9 | 11 | 14 | 19 | - | 60 | 75 | 80 | 4 | M5x16 | 34 | 50 |
| **70B2** | 6 | 9 | 11 | 14 | 19 | - | 70 | 90 | 80 | 4 | M5x16 | 34 | 50 |
| **80A2** | 6 | 9 | 11 | 14 | 19 | - | 80 | 100 | 90 | 4 | M6x16 | 34 | 50 |
| **95A1** | 6 | 9 | 11 | 14 | 19 | 24 | 95 | 115 | 100 | 6.5 | M8x20 | 34 | 50 |
| **110A1** | 6 | 9 | 11 | 14 | 19 | 24 | 110 | 130 | 115 | 6.5 | M8x20 | 34 | 50 |
| **110B1** | 6 | 9 | 11 | 14 | 19 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 60 |
| **130A** | 6 | 9 | 11 | 14 | 19 | 24 | 130 | 165 | 140 | 6.5 | M10x19 | 34 | 50 |
| **TQF 070 2** | | | | | | | | | | | | | |
| **40B1** | 6 | 9 | 11 | 14 | - | - | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50A1** | 6 | 9 | 11 | 14 | - | - | 50 | 60 | 80 | 4 | M4x10 | 34 | 40 |
| **50C1** | 6 | 9 | 11 | 14 | - | - | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **60A2** | 6 | 9 | 11 | 14 | 19 | - | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **70B1** | 6 | 9 | 11 | 14 | 19 | - | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **80A1** | 6 | 9 | 11 | 14 | 19 | - | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 6 | 9 | 11 | 14 | 19 | - | 95 | 115 | 100 | 6.5 | M8x20 | 34 | 40 |
| **110B0** | 6 | 9 | 11 | 14 | 19 | - | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 40 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQF 070

**FM**

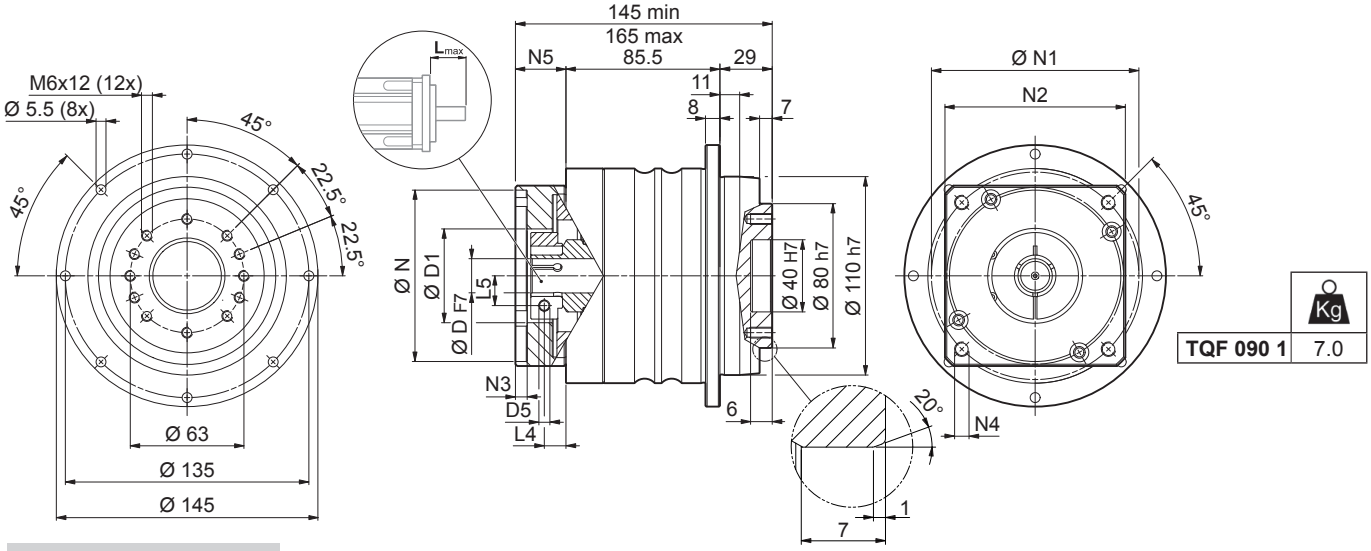



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 070 1** | | | | | | | | | | |
| 6 | 37 | 68 | 76.5 | M6x14 | M4 | 45 | 25 | 9 | 19 | 8 |
| 9 | 49 | 68 | 76.5 | M6x14 | M5 | 42 | 25 | 9 | 18.5 | 10.5 |
| 11 | 51 | 68 | 76.5 | M6x14 | M6 | 42 | 25 | 9 | 17.5 | 12.5 |
| 14 | 51 | 68 | 76.5 | M6x14 | M6 | 42 | 25 | 9 | 17.5 | 14.5 |
| 19 | 51 | 68 | 76.5 | M6x14 | M6 | 42 | 25 | 9 | 17.5 | 16.5 |
| 24 | 60 | 68 | 76.5 | M6x14 | M6 | 43.5 | 26.5 | 9 | 17.5 | 19 |
| **TQF 070 2** | | | | | | | | | | |
| 6 | 37 | 68 | 76.5 | M6x12 | M4 | 31.5 | 21 | 7.5 | 16 | 8 |
| 9 | 49 | 68 | 76.5 | M6x12 | M5 | 35 | 24.5 | 7.5 | 17 | 10.5 |
| 11 | 49 | 68 | 76.5 | M6x12 | M6 | 35 | 24.5 | 7.5 | 17 | 12.5 |
| 14 | 49 | 68 | 76.5 | M6x12 | M6 | 35 | 24.5 | 7.5 | 17 | 14.5 |
| 19 | 54 | 68 | 76.5 | M6x12 | M6 | 35 | 24.5 | 7.5 | 17 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 - 9 | 11 - 14 | 19 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQF 070 1_4 | 70 | 100 | 180 | 3000 | 6000 | 5' | 3' | 29 | 4400 | 4300 | 97 | - | 1.05 | 1.09 | 1.22 |
| TQF 070 1_5 | 70 | 100 | 180 | 3000 | 6000 | 5' | 3' | 29 | 4400 | 4300 | 97 | - | 0.85 | 0.88 | 1.01 |
| TQF 070 1_7 | 60 | 90 | 160 | 3500 | 6000 | 5' | 3' | 29 | 4400 | 4300 | 97 | - | 0.68 | 0.71 | 0.85 |
| TQF 070 1_10 | 40 | 60 | 110 | 3500 | 6000 | 5' | 3' | 29 | 4400 | 4300 | 97 | - | 0.59 | 0.62 | 0.75 |
| TQF 070 2_16 | 70 | 100 | 180 | 3500 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0.31 | 0.43 | 0.46 | - |
| TQF 070 2_20 | 70 | 100 | 180 | 3500 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0,30 | 0.41 | 0.45 | - |
| TQF 070 2_25 | 70 | 100 | 180 | 3500 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0.26 | 0.37 | 0.41 | - |
| TQF 070 2_28 | 70 | 100 | 180 | 3500 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0.23 | 0.35 | 0.38 | - |
| TQF 070 2_35 | 70 | 100 | 180 | 3500 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0.23 | 0.34 | 0.38 | - |
| TQF 070 2_40 | 70 | 100 | 180 | 3500 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0.21 | 0.33 | 0.36 | - |
| TQF 070 2_50 | 70 | 100 | 180 | 3500 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0.21 | 0.32 | 0.36 | - |
| TQF 070 2_70 | 60 | 90 | 160 | 4000 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0.21 | 0.32 | 0.36 | - |
| TQF 070 2_100 | 40 | 60 | 110 | 4500 | 6000 | 7' | 5' | 29 | 4400 | 4300 | 94 | 0.21 | 0.32 | 0.36 | - |

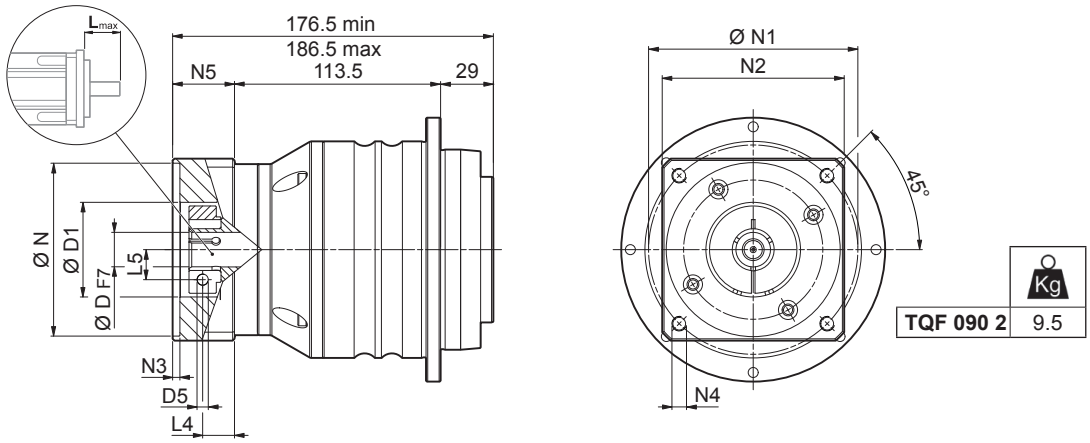
# TQF 090

## 60A4 ... 180A




| Kg | |
|---|---|
| TQF 090 1 | 7.0 |

## 50C2 ... 130A



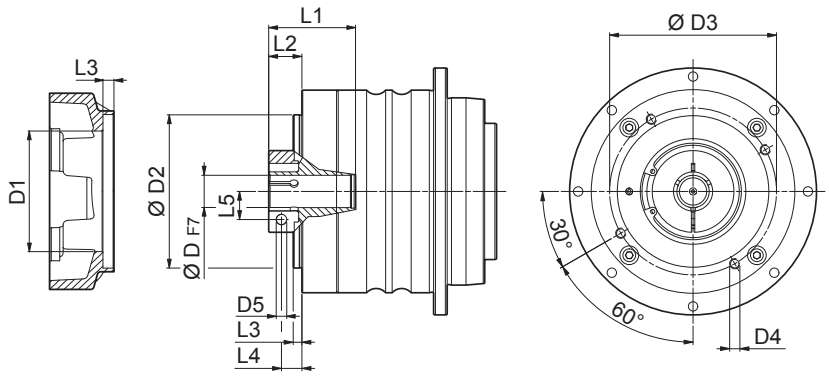

| Kg | |
|---|---|
| TQF 090 2 | 9.5 |

| | D | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 090 1** | | | | | | | | | | | | | |
| **60A4** | 11 | 14 | 19 | - | - | - | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 60 |
| **80A3** | 11 | 14 | 19 | - | - | - | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 60 |
| **95A2** | 11 | 14 | 19 | 24 | 28 | - | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 60 |
| **110A2** | 11 | 14 | 19 | 24 | - | - | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 60 |
| **110B1** | 11 | 14 | 19 | 24 | - | - | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 60 |
| **130A1** | 11 | 14 | 19 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 38 | 60 |
| **180A** | 11 | 14 | 19 | 24 | 28 | 32 | 180 | 215 | 190 | 6.5 | M14x28 | 48 | 80 |
| **TQF 090 2** | | | | | | | | | | | | | |
| **50C2** | 11 | 14 | - | - | - | - | 50 | 70 | 80 | 4 | M4x10 | 34 | 50 |
| **60A3** | 11 | 14 | 19 | - | - | - | 60 | 75 | 80 | 4 | M5x16 | 34 | 50 |
| **70B2** | 11 | 14 | 19 | - | - | - | 70 | 90 | 80 | 4 | M5x16 | 34 | 50 |
| **80A2** | 11 | 14 | 19 | - | - | - | 80 | 100 | 90 | 4 | M6x16 | 34 | 50 |
| **95A1** | 11 | 14 | 19 | 24 | - | - | 95 | 115 | 100 | 6.5 | M8x20 | 34 | 50 |
| **110A1** | 11 | 14 | 19 | 24 | - | - | 110 | 130 | 115 | 6.5 | M8x20 | 34 | 50 |
| **110B1** | 11 | 14 | 19 | 24 | - | - | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 60 |
| **130A** | 11 | 14 | 19 | 24 | - | - | 130 | 165 | 140 | 6.5 | M10x19 | 34 | 50 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQF 090

**FM**



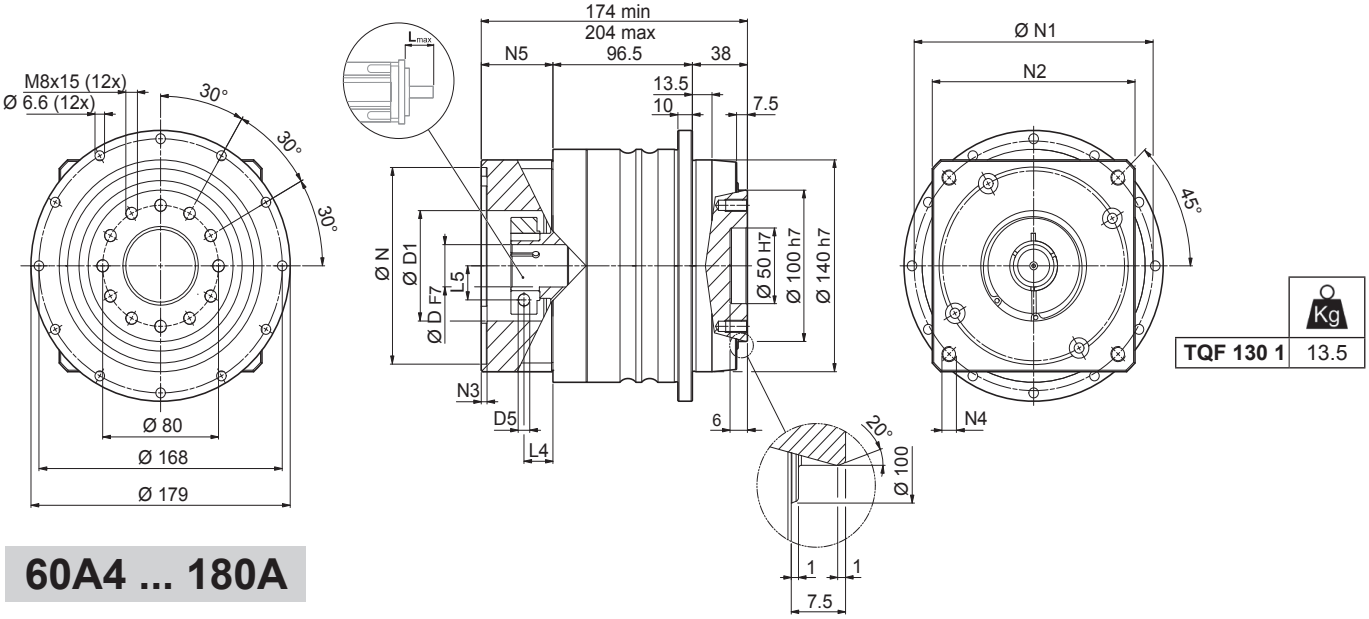



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 090 1** | | | | | | | | | | |
| 11 | 49 | 90 | 98 | M6x12 | M6 | 50 | 17 | 4 | 9.5 | 12.5 |
| 14 | 51 | 90 | 98 | M6x12 | M6 | 50 | 17 | 4 | 9.5 | 14.5 |
| 19 | 51 | 90 | 98 | M6x12 | M6 | 50 | 17 | 4 | 9.5 | 16.5 |
| 24 | 60 | 90 | 98 | M6x12 | M6 | 51.5 | 18.5 | 4 | 9.5 | 19 |
| 28 | 72 | 90 | 98 | M6x12 | M8 | 51.5 | 18.5 | 4 | 9.5 | 22.5 |
| 32 | 72 | 90 | 98 | M6x12 | M8 | 51.5 | 21 | 5 | 12 | 24.5 |
| **TQF 090 2** | | | | | | | | | | |
| 6 | 37 | 68 | 76.5 | M6x14 | M4 | 45 | 25 | 9 | 19 | 8 |
| 9 | 49 | 68 | 76.5 | M6x14 | M5 | 42 | 25 | 9 | 18.5 | 10.5 |
| 11 | 51 | 68 | 76.5 | M6x14 | M6 | 42 | 25 | 9 | 17.5 | 12.5 |
| 14 | 51 | 68 | 76.5 | M6x14 | M6 | 42 | 25 | 9 | 17.5 | 14.5 |
| 19 | 51 | 68 | 76.5 | M6x14 | M6 | 42 | 25 | 9 | 17.5 | 16.5 |
| 24 | 60 | 68 | 76.5 | M6x14 | M6 | 43.5 | 26.5 | 9 | 17.5 | 19 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ ≤ | $\varphi_R$ ≤ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 11 | 14 - 19 | 24 | 28 | 32 |
| TQF 090 1_4 | 200 | 300 | 500 | 2500 | 4500 | 5' | 3' | 70 | 5500 | 6800 | 97 | - | 2,00 | 2.12 | 2.51 | 4,30 |
| TQF 090 1_5 | 180 | 280 | 500 | 2500 | 4500 | 5' | 3' | 70 | 5500 | 6800 | 97 | - | 1.63 | 1.76 | 2.14 | 3.94 |
| TQF 090 1_7 | 160 | 250 | 500 | 3000 | 4500 | 5' | 3' | 70 | 5500 | 6800 | 97 | - | 1.31 | 1.44 | 1.82 | 3.62 |
| TQF 090 1_10 | 110 | 170 | 350 | 3000 | 4500 | 5' | 3' | 70 | 5500 | 6800 | 97 | - | 1.14 | 1.27 | 1.65 | 3.45 |
| TQF 090 2_16 | 200 | 300 | 500 | 3000 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.75 | 0.85 | 0.98 | - | - |
| TQF 090 2_20 | 180 | 280 | 500 | 3000 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.72 | 0.82 | 0.96 | - | - |
| TQF 090 2_25 | 180 | 280 | 500 | 3000 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.62 | 0.72 | 0.85 | - | - |
| TQF 090 2_28 | 200 | 300 | 500 | 3000 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.54 | 0.64 | 0.77 | - | - |
| TQF 090 2_35 | 180 | 280 | 500 | 3000 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.53 | 0.63 | 0.76 | - | - |
| TQF 090 2_40 | 200 | 300 | 500 | 3000 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.49 | 0.59 | 0.72 | - | - |
| TQF 090 2_50 | 180 | 280 | 500 | 3500 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.48 | 0.58 | 0.72 | - | - |
| TQF 090 2_70 | 160 | 250 | 500 | 4000 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.48 | 0.58 | 0.71 | - | - |
| TQF 090 2_100 | 110 | 170 | 350 | 4000 | 4500 | 7' | 5' | 70 | 5500 | 6800 | 94 | 0.48 | 0.58 | 0.71 | - | - |

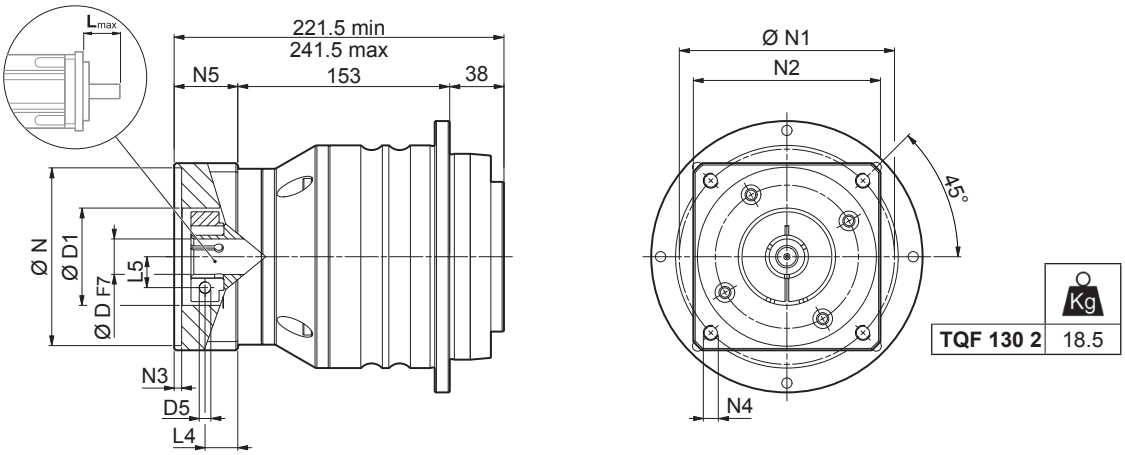
# TQF 130

## 80A3 ... 180A1




| | Kg |
|---|---|
| **TQF 130 1** | 13.5 |

## 60A4 ... 180A



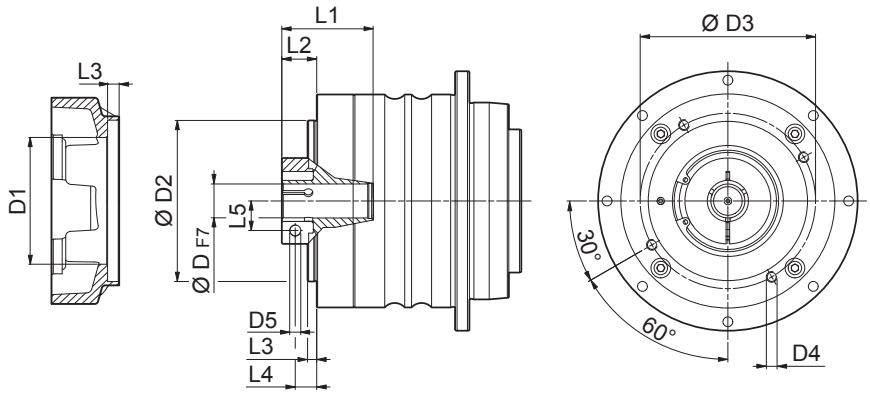

| | Kg |
|---|---|
| **TQF 130 2** | 18.5 |

| | D | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 130 1** | | | | | | | | | | | | | |
| **80A3** | 14 | 19 | - | - | - | - | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 60 |
| **95A2** | 14 | 19 | 24 | 28 | - | - | 95 | 115 | 130 | 6.5 | M8x20 | 39.5 | 60 |
| **110A2** | 14 | 19 | 24 | - | - | - | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 60 |
| **110B1** | 14 | 19 | 24 | - | - | - | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **130A1** | 14 | 19 | 24 | 28 | 32 | - | 130 | 165 | 140 | 4 | M10x20 | 39 | 60 |
| **180A** | 14 | 19 | 24 | 28 | 32 | - | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 19 | 24 | 28 | 32 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |
| **TQF 130 2** | | | | | | | | | | | | | |
| **60A4** | 14 | 19 | - | - | - | - | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 60 |
| **80A3** | 14 | 19 | - | - | - | - | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 60 |
| **95A2** | 14 | 19 | 24 | 28 | - | - | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 60 |
| **110A2** | 14 | 19 | 24 | - | - | - | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 60 |
| **110B1** | 14 | 19 | 24 | 28 | - | - | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 60 |
| **130A1** | 14 | 19 | 24 | 28 | 32 | - | 130 | 165 | 140 | 6.5 | M10x25 | 38 | 60 |
| **180A** | 14 | 19 | 24 | 28 | 32 | - | 180 | 215 | 190 | 6.5 | M14x28 | 48 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQF 130

**FM**



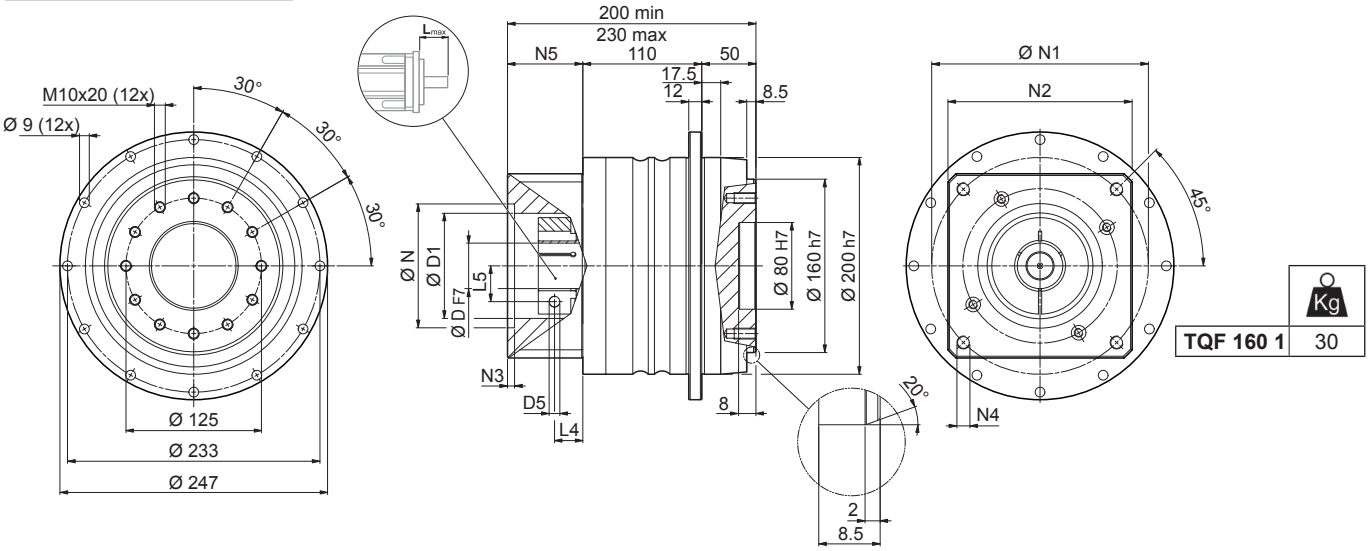

| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 130 1** | | | | | | | | | | |
| 14 | 51 | 113 | 125.5 | M8x16 | M6 | 50 | 27.5 | 5 | 23 | 14.5 |
| 19 | 54 | 113 | 125.5 | M8x16 | M6 | 50 | 27.5 | 5 | 20 | 16.5 |
| 24 | 70 | 113 | 125.5 | M8x16 | M6 | 51.5 | 29 | 5 | 20 | 19 |
| 28 | 70 | 113 | 125.5 | M8x16 | M8 | 51.5 | 29 | 5 | 20 | 22.5 |
| 32 | 72 | 113 | 125.5 | M8x16 | M8 | 51.5 | 29 | 5 | 20 | 24.5 |
| 38 | 100 | 113 | 125.5 | M8x16 | M8 | 54 | 31.5 | 5 | 20 | 28 |
| **TQF 130 2** | | | | | | | | | | |
| 11 | 49 | 90 | 98 | M6x12 | M6 | 50 | 17 | 4 | 9.5 | 12.5 |
| 14 | 51 | 90 | 98 | M6x12 | M6 | 50 | 17 | 4 | 9.5 | 14.5 |
| 19 | 51 | 90 | 98 | M6x12 | M6 | 50 | 17 | 4 | 9.5 | 16.5 |
| 24 | 60 | 90 | 98 | M6x12 | M6 | 51.5 | 18.5 | 4 | 9.5 | 19 |
| 28 | 72 | 90 | 98 | M6x12 | M8 | 51.5 | 18.5 | 4 | 9.5 | 22.5 |
| 32 | 72 | 90 | 98 | M6x12 | M8 | 51.5 | 21 | 5 | 12 | 24.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 | D 19 - 24 | D 28 - 32 | D 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQF 130 1_4 | 400 | 600 | 1000 | 2100 | 4000 | 5' | 3' | 180 | 12000 | 8500 | 97 | - | 8.14 | 8.61 | 9.25 |
| TQF 130 1_5 | 400 | 600 | 1000 | 2500 | 4000 | 5' | 3' | 180 | 12000 | 8500 | 97 | - | 6.13 | 6.59 | 7.24 |
| TQF 130 1_7 | 360 | 550 | 950 | 2500 | 4000 | 5' | 3' | 180 | 12000 | 8500 | 97 | - | 4.40 | 4.86 | 5.50 |
| TQF 130 1_10 | 280 | 420 | 900 | 2500 | 4000 | 5' | 3' | 180 | 12000 | 8500 | 97 | - | 3.43 | 3.89 | 4.53 |
| TQF 130 2_16 | 400 | 600 | 1000 | 2800 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.89 | 2.05 | 3.71 | - |
| TQF 130 2_20 | 400 | 600 | 1000 | 2800 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.77 | 1.92 | 3.58 | - |
| TQF 130 2_25 | 400 | 600 | 1000 | 2800 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.47 | 1.63 | 3.29 | - |
| TQF 130 2_28 | 400 | 600 | 1000 | 2800 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.26 | 1.41 | 3.07 | - |
| TQF 130 2_35 | 400 | 600 | 1000 | 2800 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.22 | 1.37 | 3.03 | - |
| TQF 130 2_40 | 400 | 600 | 1000 | 3200 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.10 | 1.25 | 2.91 | - |
| TQF 130 2_50 | 400 | 600 | 1000 | 3200 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.08 | 1.23 | 2.89 | - |
| TQF 130 2_70 | 360 | 550 | 950 | 3500 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.06 | 1.22 | 2.88 | - |
| TQF 130 2_100 | 280 | 420 | 900 | 4000 | 4000 | 7' | 5' | 180 | 12000 | 8500 | 94 | 1.05 | 1.21 | 2.87 | - |

# TQF 160

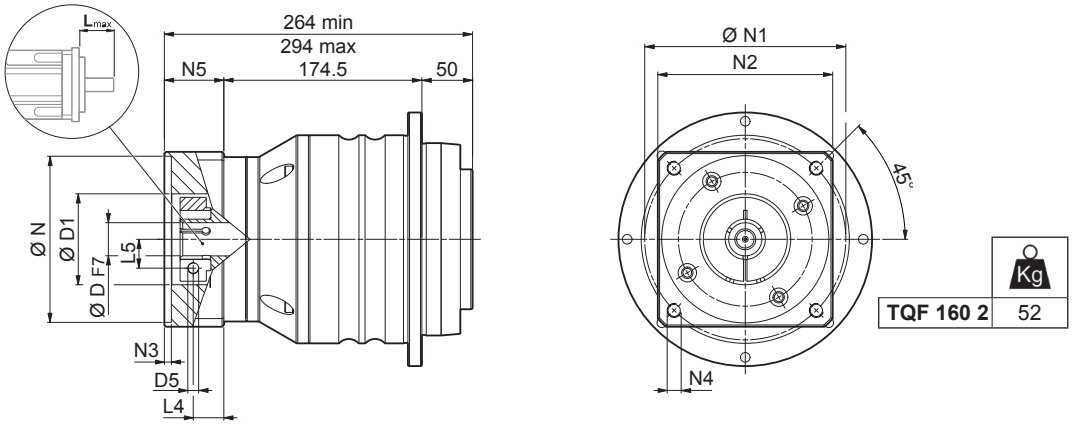


## 95A2 ... 180A1




| | Kg |
|---|---|
| TQF 160 1 | 30 |

## 80A3 ... 180A1



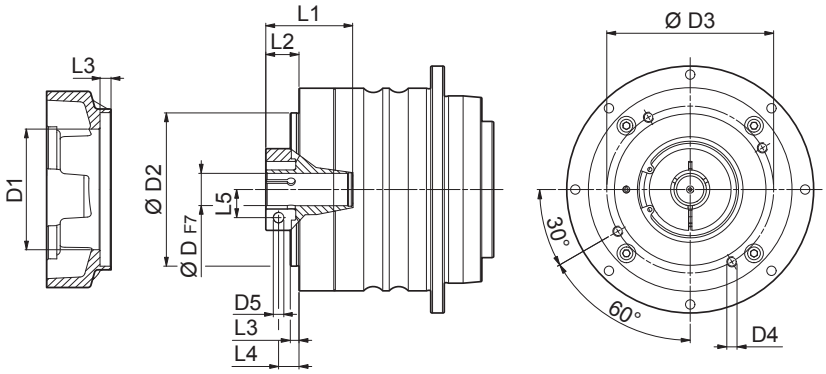

| | Kg |
|---|---|
| TQF 160 2 | 52 |

| | D | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 160 1** | | | | | | | | | | | | |
| **95A2** | 19 | 24 | 28 | - | - | 95 | 115 | 140 | 6.5 | M8x20 | 39.5 | 60 |
| **110A2** | 19 | 24 | - | - | - | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 60 |
| **130A1** | 19 | 24 | 28 | 32 | - | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 60 |
| **180A** | - | 24 | 28 | 32 | - | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 19 | 24 | 28 | 32 | 38 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |
| **TQF 160 2** | | | | | | | | | | | | |
| **80A3** | 19 | - | - | - | - | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 60 |
| **95A2** | 19 | 24 | 28 | - | - | 95 | 115 | 130 | 6.5 | M8x20 | 39.5 | 60 |
| **110A2** | 19 | 24 | - | - | - | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 60 |
| **110B1** | 19 | 24 | 28 | - | - | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **130A1** | 19 | 24 | 28 | 32 | - | 130 | 165 | 140 | 4 | M10x20 | 39 | 60 |
| **180A** | 19 | 24 | 28 | 32 | - | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 19 | 24 | 28 | 32 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQF 160

**FM**



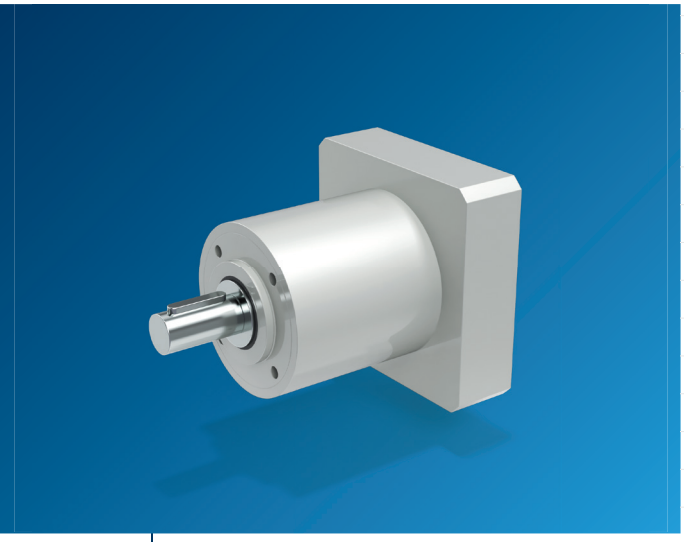



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 160 1** | | | | | | | | | | |
| 19 | 54 | 130 | 142.5 | M8x16 | M6 | 47 | 35.1 | 8 | 26 | 16.5 |
| 24 | 58 | 130 | 142.5 | M8x16 | M6 | 47 | 35.1 | 8 | 26 | 19 |
| 28 | 70 | 130 | 142.5 | M8x16 | M8 | 47 | 35.1 | 8 | 26 | 22.5 |
| 32 | 72 | 130 | 142.5 | M8x16 | M8 | 47 | 35.1 | 8 | 26 | 24.5 |
| 38 | 100 | 130 | 142.5 | M8x16 | M8 | 59.5 | 37.6 | 8 | 26 | 28 |
| **TQF 160 2** | | | | | | | | | | |
| 14 | 51 | 113 | 125.5 | M8x16 | M6 | 50 | 27.5 | 5 | 23 | 14.5 |
| 19 | 54 | 113 | 125.5 | M8x16 | M6 | 50 | 27.5 | 5 | 20 | 16.5 |
| 24 | 70 | 113 | 125.5 | M8x16 | M6 | 51.5 | 29 | 5 | 20 | 19 |
| 28 | 70 | 113 | 125.5 | M8x16 | M8 | 51.5 | 29 | 5 | 20 | 22.5 |
| 32 | 72 | 113 | 125.5 | M8x16 | M8 | 51.5 | 29 | 5 | 20 | 24.5 |
| 38 | 100 | 113 | 125.5 | M8x16 | M8 | 54 | 31.5 | 5 | 20 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ ≤ [arcmin] | $\varphi_R$ ≤ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 19 | $J_G$ [kgcm$^2$] D 24 - 28 | $J_G$ [kgcm$^2$] D 32 - 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQF 160 1_4** | 800 | 1200 | 2000 | 1500 | 3500 | 5' | 3' | 500 | 29000 | 16000 | 97 | - | 27,10 | 27.51 |
| **TQF 160 1_5** | 800 | 1200 | 2000 | 1800 | 3500 | 5' | 3' | 500 | 29000 | 16000 | 97 | - | 18.22 | 18.63 |
| **TQF 160 1_7** | 750 | 1150 | 2000 | 2500 | 3500 | 5' | 3' | 500 | 29000 | 16000 | 97 | - | 13.46 | 13.87 |
| **TQF 160 1_10** | 550 | 850 | 1600 | 2500 | 3500 | 5' | 3' | 500 | 29000 | 16000 | 97 | - | 10.03 | 10.44 |
| **TQF 160 2_16** | 800 | 1200 | 2000 | 2800 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 7.22 | 7.75 | 8.47 |
| **TQF 160 2_20** | 800 | 1200 | 2000 | 2800 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 6.67 | 7,20 | 7.92 |
| **TQF 160 2_25** | 800 | 1200 | 2000 | 2800 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 5.13 | 5.66 | 6.38 |
| **TQF 160 2_28** | 800 | 1200 | 2000 | 2800 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 4,00 | 4.53 | 5.25 |
| **TQF 160 2_35** | 800 | 1200 | 2000 | 2800 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 3.82 | 4.34 | 5.07 |
| **TQF 160 2_40** | 800 | 1200 | 2000 | 2800 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 3.16 | 3.69 | 4.41 |
| **TQF 160 2_50** | 800 | 1200 | 2000 | 2800 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 3.07 | 3,60 | 4.32 |
| **TQF 160 2_70** | 750 | 1150 | 2000 | 3000 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 3.02 | 3.55 | 4.27 |
| **TQF 160 2_100** | 550 | 850 | 1600 | 3000 | 3500 | 7' | 5' | 500 | 29000 | 16000 | 94 | 2.99 | 3.52 | 4.24 |

# Linea Performance

(P)



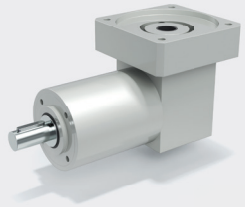
## Serie TR

Oltre alle prestazioni ottimali, al gioco estremamente ridotto, alla capacità di sovraccarico elevata e alla facile installazione, la serie TR è caratterizzata dall'elevata modularità grazie alle molteplici configurazioni e all'ampio intervallo di rapporti, garantendo un'elevata affidabilità e la risposta più adatta a diversi requisiti applicativi.

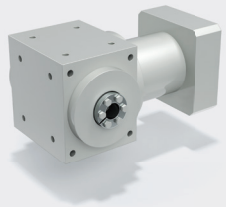


## Altre versioni

- Versione K/G



- Versione MB



## Vantaggi principali

- Gioco estremamente ridotto
- Flessibilità elevata grazie ad un'ampia gamma di rapporti di trasmissione e a molteplici configurazioni
- Grande varietà di configurazioni di ingresso e di uscita

## Caratteristiche principali

- Coppia nominale in uscita (Nm)

12 - 1.000

- Gioco torsionale (arcmin)

3 - 7

- Rigidezza torsionale (Nm)

0,7 - 130

- Momento di ribaltamento (Nm)

16 - 1.683

## Grado di protezione

- IP65

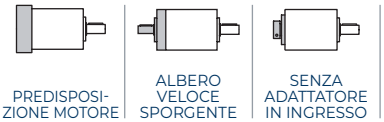
## Grandezze

- 53
- 60
- 80
- 105
- 130
- 160
- 190

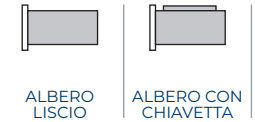
## Opzioni principali

- Versioni del design


- Versioni con ingresso




- Versioni alberi di uscita




- Tipo di servizio


- Lubrificazione


- Versioni dei cuscinetti

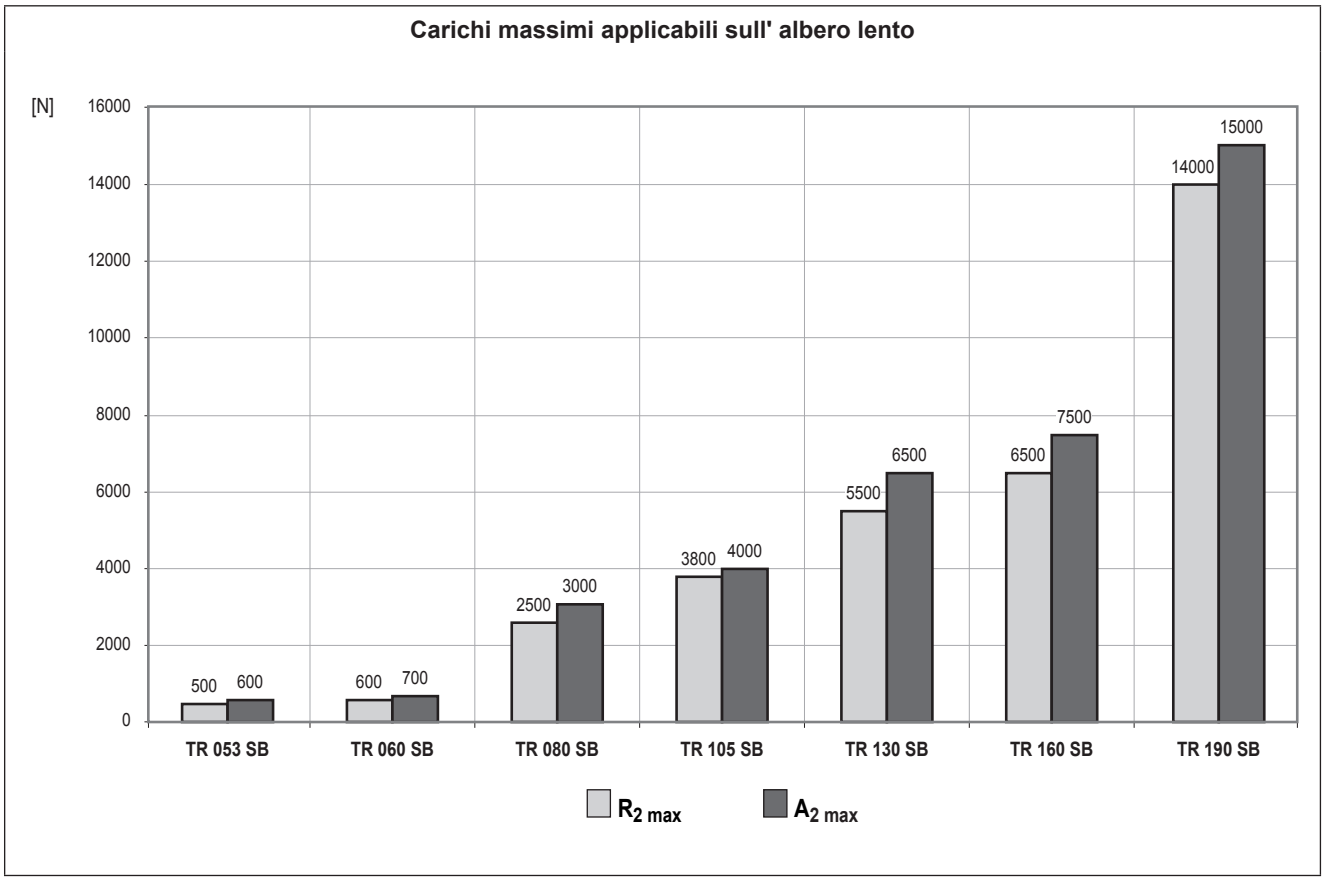
## *5 CARATTERISTICHE DELLA SERIE TR*

I riduttori epicicloidali a gioco ridotto della serie TR costituiscono una gamma assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio senza la richiesta di particolari interventi di manutenzione.
L'accoppiamento al motore è operazione che non richiede alcuna attrezzatura specifica, se non quella normalmente reperibile in un'officina..

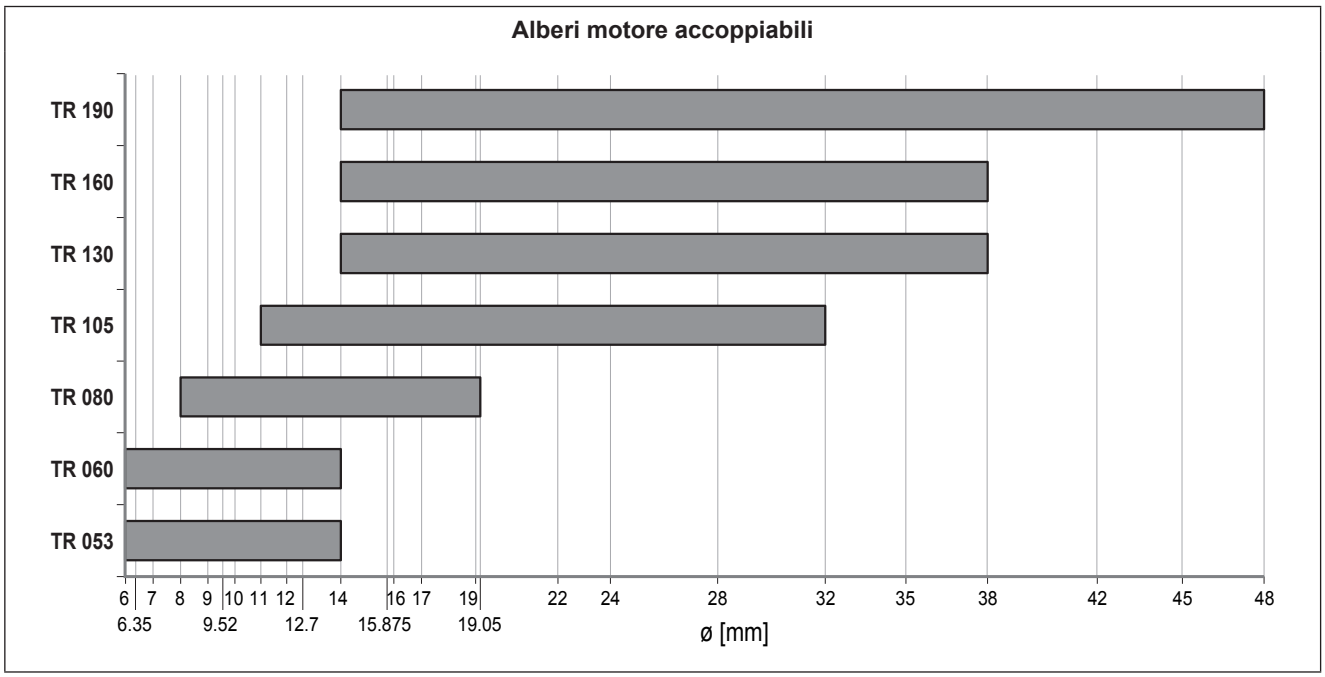
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
  1 stadio di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 3'$
  2 stadi di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 3'$
  3 stadi di riduzione (solo G e MB): standard $\varphi_R \leq 5'$; ridotto $\varphi_R \leq 3'$
  3 stadi di riduzione: standard $\varphi_S \leq 7'$; ridotto $\varphi_R \leq 5'$
  4 stadi di riduzione (solo G e MB): standard $\varphi_S \leq 7'$; ridotto $\varphi_R \leq 5'$
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero fornite per il ciclo intermittente S5.
- Livello di rumorosità $L_P \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 $min^{-1}$; i=10.
- Cuscinetti dimensionati per una durata media di 20000 ore, in condizioni di funzionamento nominale. La tabella sottostante illustra le tipologie di cuscinetti dell'asse lento.



| | TR 053 | TR 060 | TR 080 | TR 105 | TR 130 | TR 160 | TR 190 |
|---|---|---|---|---|---|---|---|
| SB |  |  |  |  |  |  |  |



- Ampia possibilità di configurazione lato accoppiamento motore.




- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

| tipo di servizio | TR 053 - TR 060 | TR 080 ... TR 190 | anelli di tenuta |
|---|---|---|---|
| **S1** (continuo) | NLGI grasso con grado di consistenza 00 | Olio sintetico viscosità ISO VG 220 | Fluoro-elastomero |
| **S5** (intermittente) | | NLGI grasso con grado di consistenza 00 | NBR |

- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C.

**Distribuzione coppia nominale** $M_{n2}$ [Nm]

| [i] | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 12 | 15 | 16 | 20 | 25 | 28 | 30 | 35 | 36 | 40 | 45 | 48 | 50 | 60 | 64 | 70 | 75 | 80 | 81 | 84 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TR 053** | 12 | 15 | 15 | 15 | 15 | 12 | – | 20 | 20 | 20 | 20 | 20 | 20 | – | 20 | 15 | – | 20 | 20 | – | 20 | 20 | – | 20 | 20 | 12 | 20 | – |
| **TR 060** | 18 | 25 | 25 | 25 | 25 | 18 | 18 | 30 | 30 | 30 | 30 | 30 | 30 | 18 | 30 | 25 | 30 | – | 30 | 30 | – | 30 | 30 | 30 | 30 | – | 30 | 18 |
| **TR 080** | 40 | 50 | 50 | 50 | 50 | 40 | 40 | 70 | 70 | 70 | 70 | 70 | 70 | 40 | 70 | 50 | 70 | – | 70 | 70 | – | 70 | 70 | 70 | 70 | – | 70 | 40 |
| **TR 105** | 100 | 140 | 140 | 140 | 140 | 100 | 100 | 170 | 170 | 170 | 170 | 170 | 170 | 100 | 170 | 140 | 170 | – | 170 | 170 | – | 170 | 170 | 170 | 170 | – | 170 | 100 |
| **TR 130** | 215 | 380 | 380 | 380 | 380 | 215 | 215 | 450 | 450 | 450 | 450 | 450 | 450 | 215 | 450 | 380 | 450 | – | 450 | 450 | – | 450 | 450 | 450 | 450 | – | 450 | 215 |
| **TR 160** | 350 | 500 | 500 | 500 | 500 | 350 | 350 | 700 | 700 | 700 | 700 | 700 | 700 | 350 | 700 | 500 | 700 | – | 700 | 700 | – | 700 | 700 | 700 | 700 | – | 700 | 350 |
| **TR 190** | 500 | 700 | 700 | 700 | 700 | 500 | 500 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 500 | 1000 | 700 | 1000 | – | 1000 | 1000 | – | 1000 | 1000 | 1000 | 1000 | – | 1000 | 500 |

| [i] | 100 | 112 | 120 | 125 | 140 | 144 | 150 | 160 | 175 | 180 | 200 | 210 | 216 | 225 | 245 | 250 | 252 | 280 | 324 | 350 | 400 | 405 | 500 | 567 | 700 | 729 | 1000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TR 053** | 20 | 20 | – | 20 | 20 | 20 | – | – | 20 | 20 | – | – | 20 | 20 | 20 | – | 20 | – | 20 | – | – | 20 | – | 20 | – | 12 | – |
| **TR 060** | 18 | – | 30 | 30 | 30 | – | 30 | 30 | 30 | – | 30 | 30 | 30 | – | – | 30 | – | 30 | – | 30 | 30 | – | 30 | – | 30 | – | 18 |
| **TR 080** | 40 | – | 70 | 70 | 70 | – | 70 | 70 | 70 | – | 70 | 70 | 70 | – | – | 70 | – | 70 | – | 70 | 70 | – | 70 | – | 70 | – | 40 |
| **TR 105** | 100 | – | 170 | 170 | 170 | – | 170 | 170 | 170 | – | 170 | 170 | 170 | – | – | 170 | – | 170 | – | 170 | 170 | – | 170 | – | 170 | – | 100 |
| **TR 130** | 215 | – | 450 | 450 | 450 | – | 450 | 450 | 450 | – | 450 | 450 | 450 | – | – | 450 | – | 450 | – | 450 | 450 | – | 450 | – | 450 | – | 215 |
| **TR 160** | 700 | – | 350 | 700 | 700 | – | 700 | 700 | 700 | – | 700 | 700 | – | – | – | 700 | – | 700 | – | 700 | 700 | – | 700 | – | 700 | – | 350 |
| **TR 190** | 1000 | – | 500 | 1000 | 1000 | – | 1000 | 1000 | 1000 | – | 1000 | 1000 | – | – | – | 1000 | – | 1000 | – | 1000 | 1000 | – | 1000 | – | 1000 | – | 500 |

### 5.1 CODICE ORDINATIVO

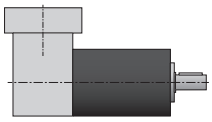
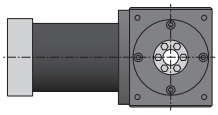
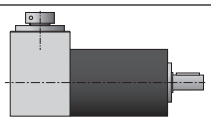
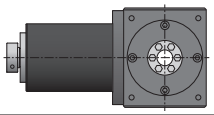
**TR G 080 3 20 STD 95A CD 19 S1 OR SB KL UH1**

- **UH1** LUBRIFICANTE
  - **–** standard
  - **UH1** lubrificante sintetico ad uso alimentare
- **KL** CONFIGURAZIONE ALBERO LENTO
  - **KL** albero liscio
  - **KE** albero con linguetta (⛔ MB)
- **SB** SUPPORTAZIONE ALBERO LENTO
  - **SB** standard
- **OR** POSIZIONE DI MONTAGGIO
  - **OR** orizzontale
  - **VA** verticale con motore in alto
  - **VB** verticale con motore in basso
- **S1** TIPO DI SERVIZIO
  - **S1** servizio continuo
  - **S5** servizio intermittente
- **19** DIAMETRO FORO PER ALBERO MOTORE
  - **6 ... 48** (⛔ IS)
- **CD** TIPO DI CALETTAMENTO ALBERO MOTORE
  - **CD** morsetto di serraggio (⛔ IS)
- **95A** SEZIONE DI INGRESSO
  - **25AH ... 180A1** predisposizione motore
  - **IS** albero veloce sporgente (TR 053 ... TR 160) (⛔ K, G, MB)
  - **FM** senza adattatore in ingresso
- **STD** GIOCO ANGOLARE

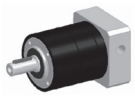
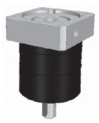
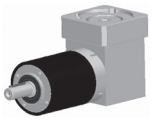
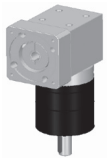
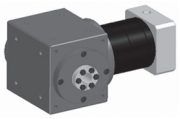
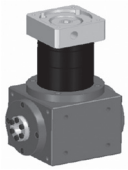
| | 1 stadio | 2 stadi | 3 stadi (solo K, G, MB) | 3 stadi | 4 stadi (solo K, G, MB) |
|---|---|---|---|---|---|
| **STD** | $\varphi_S \le 5'$ | $\varphi_S \le 5'$ | $\varphi_S \le 5'$ | $\varphi_S \le 7'$ | $\varphi_S \le 7'$ |
| **LOW** (⛔ TR 053) | $\varphi_R \le 3'$ | $\varphi_R \le 3'$ | $\varphi_R \le 3'$ | $\varphi_R \le 5'$ | $\varphi_R \le 5'$ |

- **20** RAPPORTO DI TRASMISSIONE
- **3** STADI DI RIDUZIONE
  - **1** **2** **3** **4**
- **080** GRANDEZZA
  - **053** **060** **080** **105** **130** **160** **190**
- **G** FORMA COSTRUTTIVA
  - **–** coassiale
  - **K** con stadio ortogonale in ingresso (TR 053 ... TR 060)
  - **G** con stadio ortogonale in ingresso (TR 080 ... TR 160)
  - **MB** con stadio ortogonale in uscita (TR 080 ... TR 160)
- **TR** SERIE
  - **TR**

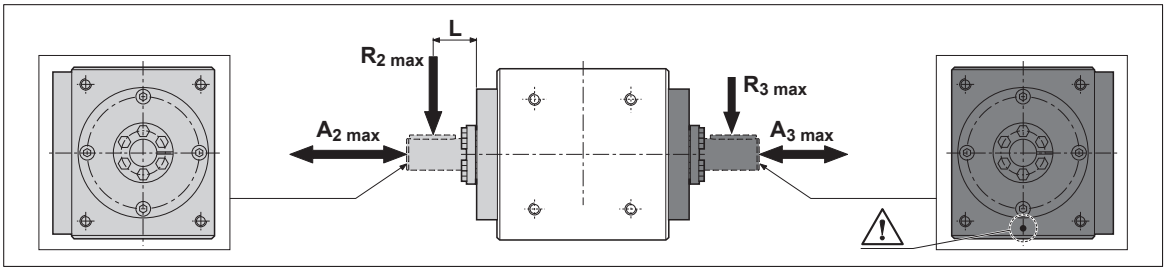
### *5.1.1 FORME COSTRUTTIVE E CONFIGURAZIONI DI INGRESSO*

| SEZIONE DI INGRESSO | FORMA COSTRUTTIVA: coassiale (—) | con stadio ortogonale in ingresso (K - G) | con stadio ortogonale in uscita (MB) |
|---|---|---|---|
| 25AH ... 180A1 |  |  |  |
| IS |  | ⛔ | ⛔ |
| FM |  |  |  |

### *5.1.2 POSIZIONI DI MONTAGGIO*

| | OR | VA | VB |
|---|---|---|---|
| — |  |  |  |
| K - G |  |  |  |
| MB |  |  |  |

### *5.2 CARICHI RADIALI ED ASSIALI AMMISSIBILI PER LA FORMA COSTRUTTIVA MB*



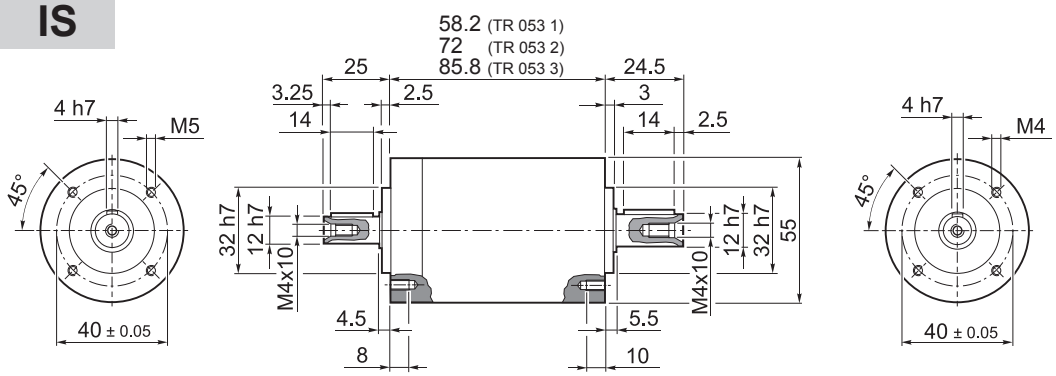

| | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | L [mm] | $R_{3\,max}$ [N] | $A_{3\,max}$ [N] |
|---|---|---|---|---|---|
| **TR MB 080** | 6000 | 5000 | 60 | 5500 | 5000 |
| **TR MB 105** | 9000 | 7500 | 80 | 7500 | 7500 |
| **TR MB 130** | 13500 | 11500 | 100 | 11000 | 11500 |
| **TR MB 160*** | 15000 | 11500 | 100 | 12500 | 11500 |

* Cuscinetti dimensionati per durata media pari a 10000 ore in condizioni di funzionamento nominale.

### *5.3 DIMENSIONI E DATI TECNICI*

# TR 053

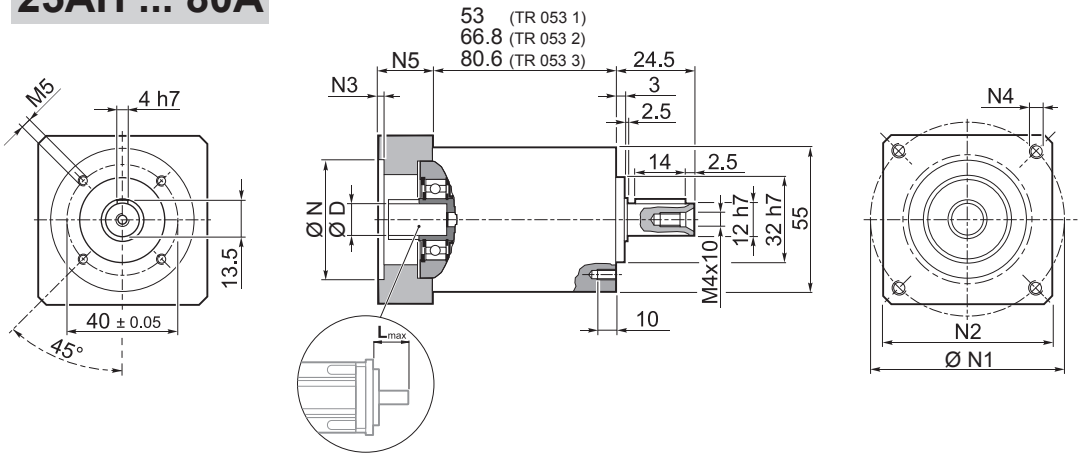
## IS




| | Kg |
|---|---|
| **TR 053 1** | 0.8 |
| **TR 053 2** | 1.0 |
| **TR 053 3** | 1.3 |

TR

## 25AH ... 80A



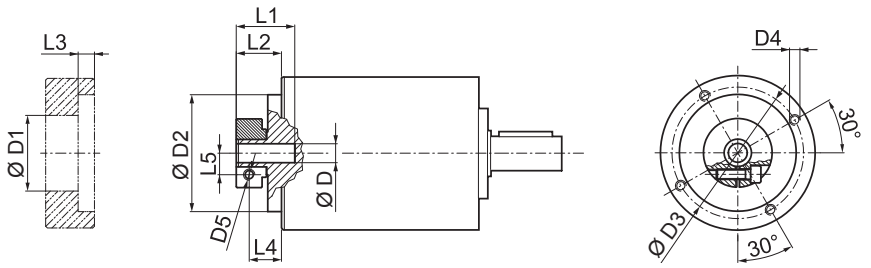

| | Kg |
|---|---|
| **TR 053 1** | 0.8 |
| **TR 053 2** | 1.0 |
| **TR 053 3** | 1.3 |

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 36 | 48 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 36 | 48 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 36 | 48 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 36 | 48 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 38 | 48 | 55 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 48 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 48 | | | | | |
| **38AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 38 | 44 | 48 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 48 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 4 | 5.5 | 23 | 30 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **50MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 65 | | 55 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | 5.5 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60AH1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | 5.5 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR 053

**FM**

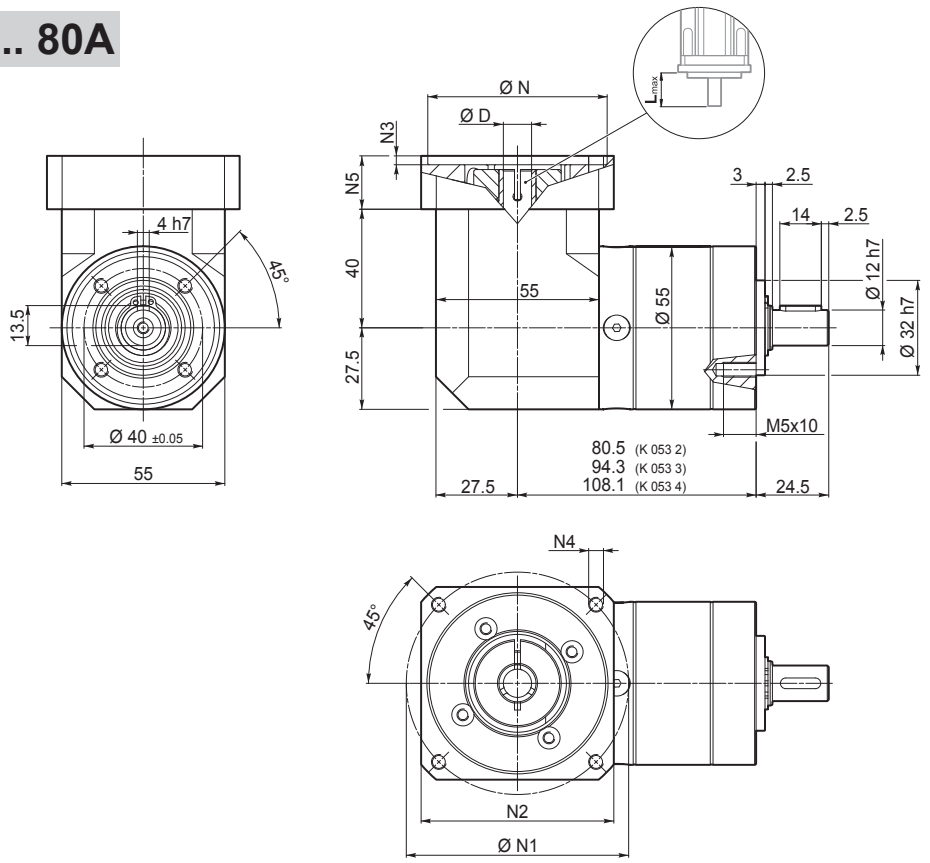



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 8.7 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 7.8 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 20.5 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 24 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR 053 1_3 | 12 | 22 | 40 | 3300 | 4000 | 5' | 1.0 | 200 | 500 | 600 | 97 | 0.06 | 0.08 |
| TR 053 1_4 | 15 | 28 | 45 | 3500 | 5000 | 5' | 1.0 | 200 | 500 | 600 | 97 | 0.05 | 0.06 |
| TR 053 1_5 | 15 | 28 | 45 | 3500 | 5000 | 5' | 1.0 | 200 | 500 | 600 | 97 | 0.04 | 0.06 |
| TR 053 1_6 | 15 | 28 | 45 | 3500 | 5000 | 5' | 1.0 | 200 | 500 | 600 | 97 | 0.03 | 0.05 |
| TR 053 1_7 | 15 | 28 | 45 | 4000 | 6000 | 5' | 1.0 | 200 | 500 | 600 | 97 | 0.03 | 0.05 |
| TR 053 1_9 | 12 | 22 | 40 | 4000 | 6000 | 5' | 1.0 | 200 | 500 | 600 | 97 | 0.03 | 0.05 |
| TR 053 2_12 | 20 | 30 | 60 | 3300 | 4000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.06 | 0.08 |
| TR 053 2_15 | 20 | 30 | 60 | 3300 | 4000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.06 | 0.08 |
| TR 053 2_16 | 20 | 30 | 60 | 3500 | 5000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.05 | 0.06 |
| TR 053 2_20 | 20 | 30 | 60 | 3500 | 5000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.04 | 0.06 |
| TR 053 2_25 | 20 | 30 | 60 | 3500 | 5000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.04 | 0.06 |
| TR 053 2_28 | 20 | 30 | 60 | 4000 | 6000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| TR 053 2_35 | 20 | 30 | 60 | 4000 | 6000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| TR 053 2_36 | 15 | 28 | 45 | 4000 | 6000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| TR 053 2_45 | 20 | 30 | 60 | 4000 | 6000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| TR 053 2_81 | 12 | 22 | 40 | 4000 | 6000 | 5' | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| TR 053 3_48 | 20 | 30 | 60 | 4000 | 5000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.07 |
| TR 053 3_60 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.07 |
| TR 053 3_64 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.06 |
| TR 053 3_75 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.04 | 0.06 |
| TR 053 3_80 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.06 |
| TR 053 3_84 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_100 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.04 | 0.06 |
| TR 053 3_112 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_125 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.04 | 0.06 |
| TR 053 3_140 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_144 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_175 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_180 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_216 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_225 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_245 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_252 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.06 |
| TR 053 3_324 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_405 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_567 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| TR 053 3_729 | 12 | 22 | 40 | 4000 | 6000 | 7' | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |

# TR K 053

## 25AH ... 80A




| | Kg |
|---|---|
| **TR K 053 2** | 1.3 |
| **TR K 053 3** | 1.5 |
| **TR K 053 4** | 1.8 |

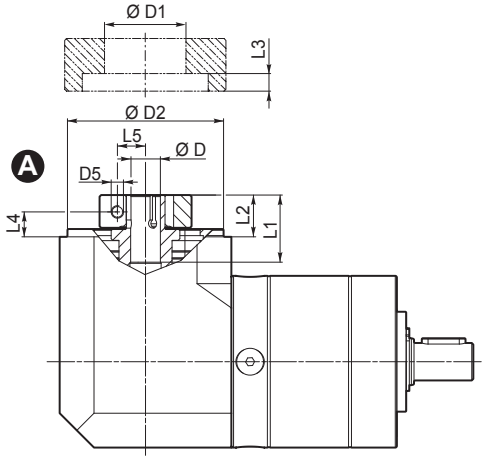
TR

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 36 | 48 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 36 | 48 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 36 | 48 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 36 | 48 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 38 | 48 | 55 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 48 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 48 | | | | | |
| **38AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 38 | 44 | 48 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 48 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 4 | 5.5 | 23 | 30 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **50MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 65 | | 55 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

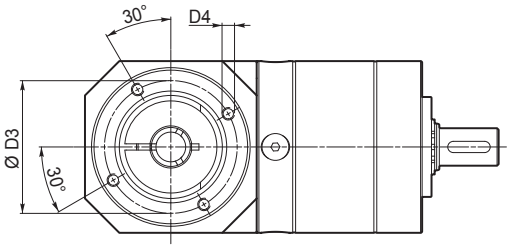
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR K 053

**FM**




Vista da A

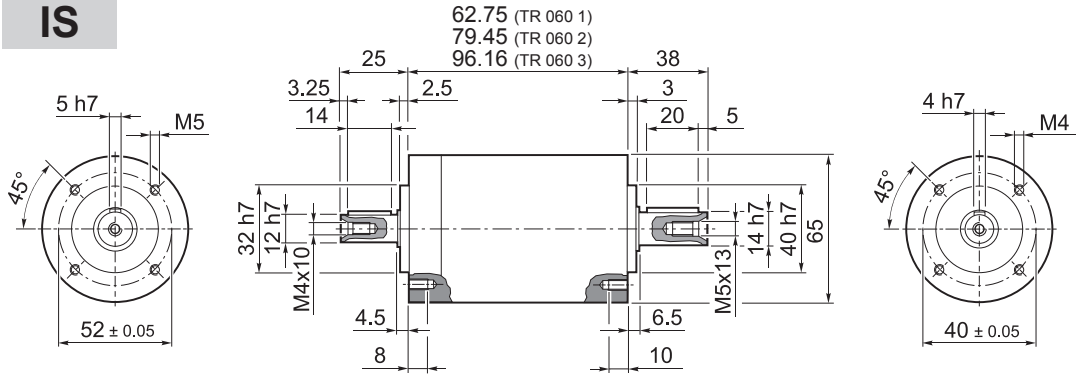



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 8.7 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 7.8 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 20.5 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 24 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR K 053 2_3 | 12 | 22 | 40 | 3300 | 4000 | 5' | 1.0 | 500 | 600 | 94 | 0.18 | 0.20 |
| TR K 053 2_4 | 15 | 28 | 45 | 3500 | 5000 | 5' | 1.0 | 500 | 600 | 94 | 0.18 | 0.19 |
| TR K 053 2_5 | 15 | 28 | 45 | 3500 | 5000 | 5' | 1.0 | 500 | 600 | 94 | 0.17 | 0.19 |
| TR K 053 2_6 | 15 | 28 | 45 | 3500 | 5000 | 5' | 1.0 | 500 | 600 | 94 | 0.17 | 0.18 |
| TR K 053 2_7 | 15 | 28 | 45 | 4000 | 6000 | 5' | 1.0 | 500 | 600 | 94 | 0.17 | 0.19 |
| TR K 053 2_9 | 12 | 22 | 40 | 4000 | 6000 | 5' | 1.0 | 500 | 600 | 94 | 0.17 | 0.18 |
| TR K 053 3_12 | 20 | 30 | 60 | 3300 | 4000 | 5' | 0.9 | 500 | 600 | 91 | 0.18 | 0.20 |
| TR K 053 3_15 | 20 | 30 | 60 | 3300 | 4000 | 5' | 0.9 | 500 | 600 | 91 | 0.18 | 0.20 |
| TR K 053 3_16 | 20 | 30 | 60 | 3500 | 5000 | 5' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| TR K 053 3_20 | 20 | 30 | 60 | 3500 | 5000 | 5' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| TR K 053 3_25 | 20 | 30 | 60 | 3500 | 5000 | 5' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| TR K 053 3_28 | 20 | 30 | 60 | 4000 | 6000 | 5' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| TR K 053 3_35 | 20 | 30 | 60 | 4000 | 6000 | 5' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| TR K 053 3_36 | 15 | 28 | 45 | 4000 | 6000 | 5' | 0.9 | 500 | 600 | 91 | 0.17 | 0.18 |
| TR K 053 3_45 | 20 | 30 | 60 | 4000 | 6000 | 5' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| TR K 053 3_81 | 12 | 22 | 40 | 4000 | 6000 | 5' | 0.9 | 500 | 600 | 91 | 0.17 | 0.18 |
| TR K 053 4_48 | 20 | 30 | 60 | 4000 | 5000 | 7' | 0.7 | 500 | 600 | 89 | 0.18 | 0.19 |
| TR K 053 4_60 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 500 | 600 | 89 | 0.18 | 0.19 |
| TR K 053 4_64 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_75 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_80 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_84 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_100 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_112 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_125 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_140 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_144 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| TR K 053 4_175 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_180 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| TR K 053 4_216 | 20 | 30 | 60 | 3500 | 5000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| TR K 053 4_225 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| TR K 053 4_245 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| TR K 053 4_252 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.18 | 0.20 |
| TR K 053 4_324 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| TR K 053 4_405 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| TR K 053 4_567 | 20 | 30 | 60 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| TR K 053 4_729 | 12 | 22 | 40 | 4000 | 6000 | 7' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |

# TR 060

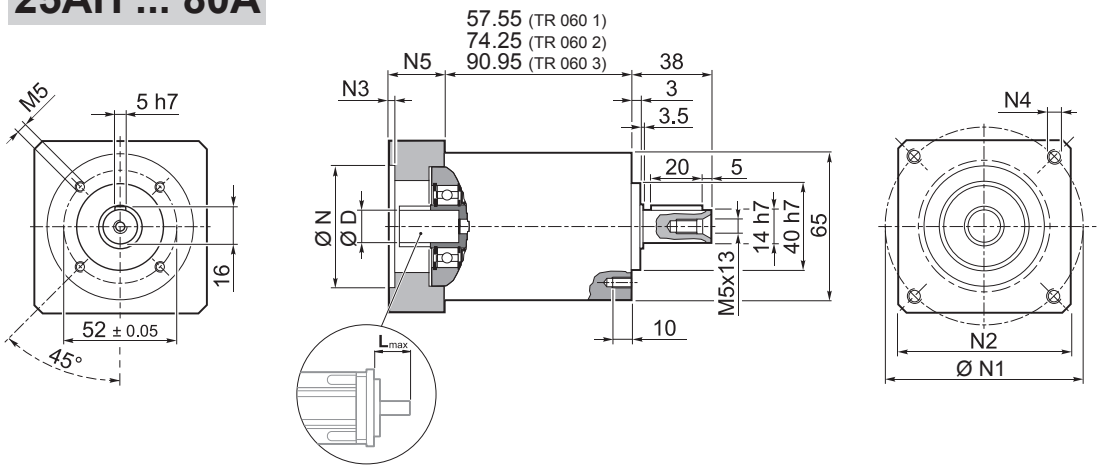
## IS




| | Kg |
|---|---|
| **TR 060 1** | 1.2 |
| **TR 060 2** | 1.7 |
| **TR 060 3** | 2.0 |

TR

## 25AH ... 80A



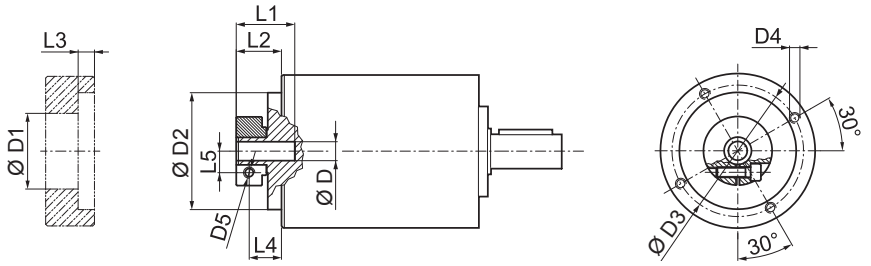

| | Kg |
|---|---|
| **TR 060 1** | 1.2 |
| **TR 060 2** | 1.7 |
| **TR 060 3** | 2.0 |

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | 5.5 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60AH1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | 5.5 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR 060

**FM**

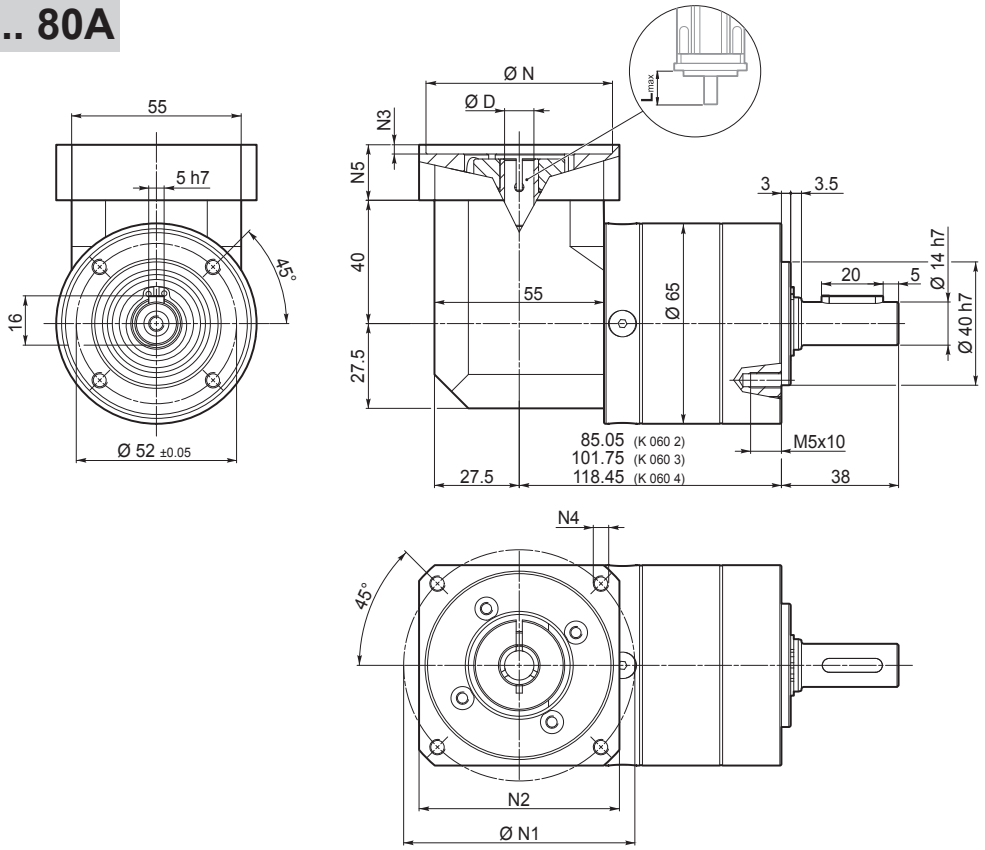



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 8.7 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 7.8 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 20.5 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 24 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR 060 1_3 | 18 | 35 | 70 | 3300 | 4000 | 5' | 3' | 3.0 | 200 | 600 | 700 | 97 | 0.10 | 0.11 |
| TR 060 1_4 | 25 | 40 | 90 | 3500 | 5000 | 5' | 3' | 3.0 | 200 | 600 | 700 | 97 | 0.06 | 0.08 |
| TR 060 1_5 | 25 | 40 | 90 | 3500 | 5000 | 5' | 3' | 3.0 | 200 | 600 | 700 | 97 | 0.05 | 0.07 |
| TR 060 1_6 | 25 | 40 | 90 | 3500 | 5000 | 5' | 3' | 3.0 | 200 | 600 | 700 | 97 | 0.04 | 0.06 |
| TR 060 1_7 | 25 | 40 | 90 | 4000 | 6000 | 5' | 3' | 3.0 | 200 | 600 | 700 | 97 | 0.04 | 0.06 |
| TR 060 1_10 | 18 | 35 | 70 | 4000 | 6000 | 5' | 3' | 3.0 | 200 | 600 | 700 | 97 | 0.03 | 0.05 |
| TR 060 2_9 | 18 | 35 | 70 | 3300 | 4000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.10 | 0.12 |
| TR 060 2_12 | 30 | 45 | 100 | 3300 | 4000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.10 | 0.11 |
| TR 060 2_15 | 30 | 45 | 100 | 3300 | 4000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.09 | 0.11 |
| TR 060 2_16 | 30 | 45 | 100 | 3500 | 5000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.06 | 0.08 |
| TR 060 2_20 | 30 | 45 | 100 | 3500 | 5000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.05 | 0.07 |
| TR 060 2_25 | 30 | 45 | 100 | 3500 | 5000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.05 | 0.06 |
| TR 060 2_28 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.04 | 0.06 |
| TR 060 2_30 | 18 | 35 | 70 | 4000 | 6000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| TR 060 2_35 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.04 | 0.06 |
| TR 060 2_36 | 25 | 40 | 90 | 3500 | 5000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.04 | 0.06 |
| TR 060 2_40 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| TR 060 2_50 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| TR 060 2_70 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| TR 060 2_100 | 18 | 35 | 70 | 4000 | 6000 | 5' | 3' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| TR 060 3_48 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.06 | 0.08 |
| TR 060 3_64 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.06 | 0.08 |
| TR 060 3_75 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.05 | 0.07 |
| TR 060 3_80 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.06 | 0.08 |
| TR 060 3_84 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.04 | 0.06 |
| TR 060 3_90 | 18 | 35 | 70 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_120 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_125 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.05 | 0.07 |
| TR 060 3_140 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.04 | 0.06 |
| TR 060 3_150 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_160 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_175 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.04 | 0.06 |
| TR 060 3_200 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_210 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_216 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.04 | 0.06 |
| TR 060 3_250 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_280 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_350 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_400 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_500 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_700 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| TR 060 3_1000 | 18 | 35 | 70 | 4000 | 6000 | 7' | 5' | 2.0 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |

# TR K 060

## 25AH ... 80A



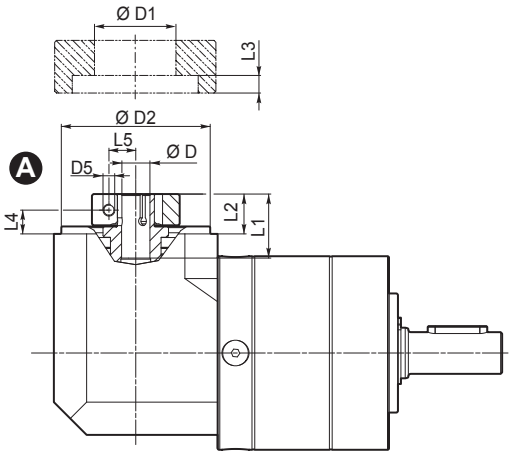

| | Kg |
|---|---|
| **TR K 060 2** | 1.7 |
| **TR K 060 3** | 2.2 |
| **TR K 060 4** | 2.5 |

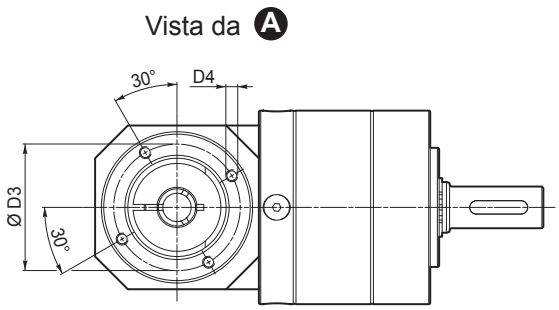
| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR K 060

**FM**



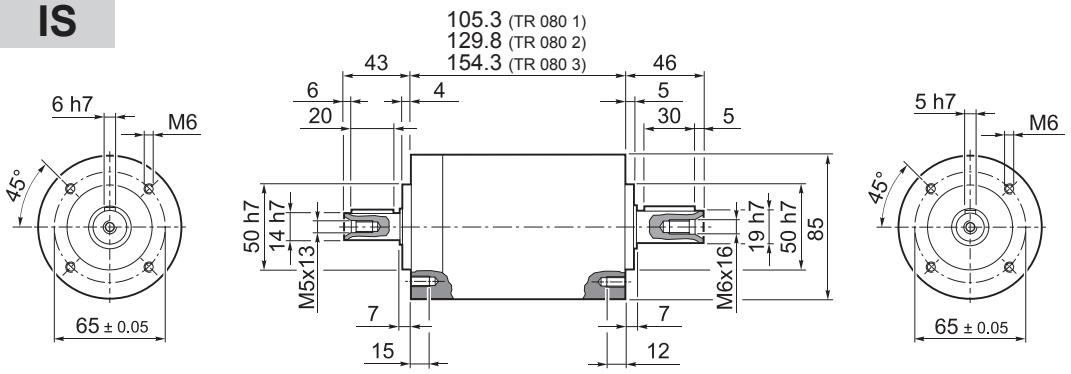




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 8.7 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 7.8 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 20.5 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 24 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR K 060 2_3 | 18 | 35 | 70 | 3300 | 4000 | 5' | 3' | 3.0 | 600 | 700 | 94 | 0.20 | 0.20 |
| TR K 060 2_4 | 25 | 40 | 90 | 3500 | 5000 | 5' | 3' | 3.0 | 600 | 700 | 94 | 0.18 | 0.20 |
| TR K 060 2_5 | 25 | 40 | 90 | 3500 | 5000 | 5' | 3' | 3.0 | 600 | 700 | 94 | 0.17 | 0.19 |
| TR K 060 2_6 | 25 | 40 | 90 | 3500 | 5000 | 5' | 3' | 3.0 | 600 | 700 | 94 | 0.17 | 0.19 |
| TR K 060 2_7 | 25 | 40 | 90 | 4000 | 6000 | 5' | 3' | 3.0 | 600 | 700 | 94 | 0.17 | 0.19 |
| TR K 060 2_10 | 18 | 35 | 70 | 4000 | 6000 | 5' | 3' | 3.0 | 600 | 700 | 94 | 0.17 | 0.18 |
| TR K 060 3_9 | 18 | 35 | 70 | 3300 | 4000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.20 | 0.21 |
| TR K 060 3_12 | 30 | 45 | 100 | 3300 | 4000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.20 | 0.21 |
| TR K 060 3_15 | 30 | 45 | 100 | 3300 | 4000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.19 | 0.21 |
| TR K 060 3_16 | 30 | 45 | 100 | 3500 | 5000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.18 | 0.20 |
| TR K 060 3_20 | 30 | 45 | 100 | 3500 | 5000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.17 | 0.19 |
| TR K 060 3_25 | 30 | 45 | 100 | 3500 | 5000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| TR K 060 3_28 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.17 | 0.19 |
| TR K 060 3_30 | 18 | 35 | 70 | 4000 | 6000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| TR K 060 3_35 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.18 | 0.19 |
| TR K 060 3_36 | 25 | 40 | 90 | 3500 | 5000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.18 | 0.19 |
| TR K 060 3_40 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| TR K 060 3_50 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| TR K 060 3_70 | 30 | 45 | 100 | 4000 | 6000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| TR K 060 3_100 | 18 | 35 | 70 | 4000 | 6000 | 5' | 3' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| TR K 060 4_48 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.18 | 0.20 |
| TR K 060 4_64 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.18 | 0.20 |
| TR K 060 4_75 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.19 |
| TR K 060 4_80 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.18 | 0.20 |
| TR K 060 4_84 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.19 |
| TR K 060 4_90 | 18 | 35 | 70 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_120 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.15 | 0.17 |
| TR K 060 4_125 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.19 |
| TR K 060 4_140 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.19 |
| TR K 060 4_150 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_160 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_175 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.19 |
| TR K 060 4_200 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_210 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_216 | 30 | 45 | 100 | 3500 | 5000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.19 |
| TR K 060 4_250 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_280 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_350 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_400 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_500 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_700 | 30 | 45 | 100 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |
| TR K 060 4_1000 | 18 | 35 | 70 | 4000 | 6000 | 7' | 5' | 2.0 | 600 | 700 | 89 | 0.17 | 0.18 |

# TR 080

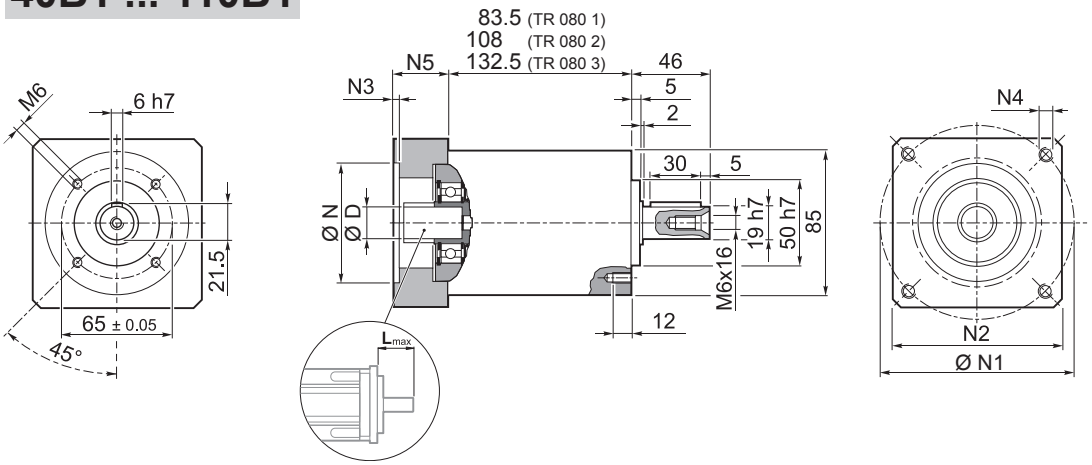
## IS




| | Kg |
|---|---|
| **TR 080 1** | 4.0 |
| **TR 080 2** | 4.6 |
| **TR 080 3** | 5.2 |



## 40B1 ... 110B1



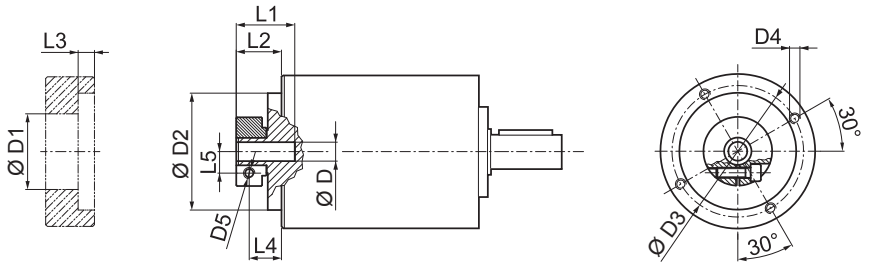

| | Kg |
|---|---|
| **TR 080 1** | 4.0 |
| **TR 080 2** | 4.6 |
| **TR 080 3** | 5.2 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR 080

**FM**

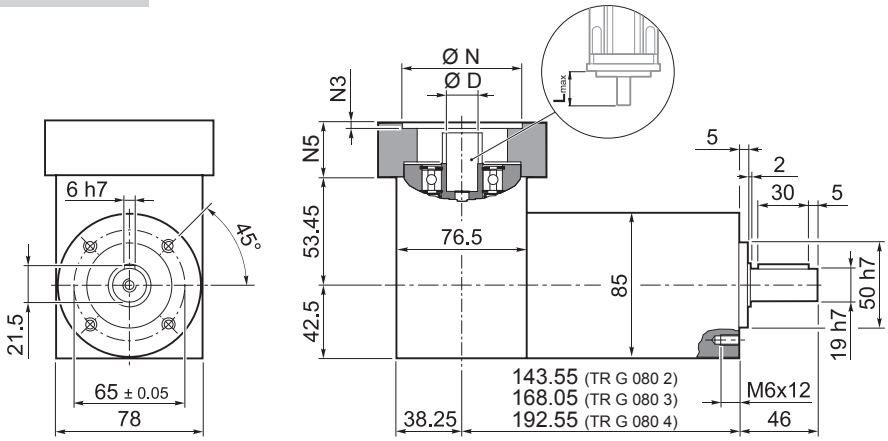


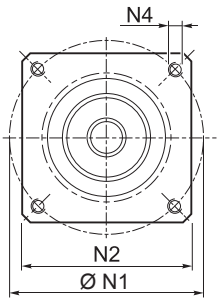

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR 080 1_3 | 40 | 80 | 180 | 2900 | 3500 | 5' | 3' | 8.0 | 400 | 2500 | 3000 | 97 | 0.50 | 0.59 |
| TR 080 1_4 | 50 | 80 | 200 | 3100 | 4500 | 5' | 3' | 8.0 | 400 | 2500 | 3000 | 97 | 0.34 | 0.43 |
| TR 080 1_5 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 8.0 | 400 | 2500 | 3000 | 97 | 0.28 | 0.37 |
| TR 080 1_6 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 8.0 | 400 | 2500 | 3000 | 97 | 0.21 | 0.30 |
| TR 080 1_7 | 50 | 80 | 200 | 4000 | 6000 | 5' | 3' | 8.0 | 400 | 2500 | 3000 | 97 | 0.23 | 0.32 |
| TR 080 1_10 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 8.0 | 400 | 2500 | 3000 | 97 | 0.20 | 0.29 |
| TR 080 2_9 | 40 | 80 | 180 | 2900 | 3500 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.49 | 0.58 |
| TR 080 2_12 | 70 | 100 | 250 | 2900 | 3500 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.47 | 0.56 |
| TR 080 2_15 | 70 | 100 | 250 | 2900 | 3500 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.46 | 0.55 |
| TR 080 2_16 | 70 | 100 | 250 | 3100 | 4500 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.32 | 0.41 |
| TR 080 2_20 | 70 | 100 | 250 | 3200 | 4500 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.27 | 0.36 |
| TR 080 2_25 | 70 | 100 | 250 | 3200 | 4500 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.27 | 0.36 |
| TR 080 2_28 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.22 | 0.31 |
| TR 080 2_30 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.20 | 0.29 |
| TR 080 2_35 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.22 | 0.31 |
| TR 080 2_36 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.20 | 0.29 |
| TR 080 2_40 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.20 | 0.29 |
| TR 080 2_50 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.19 | 0.28 |
| TR 080 2_70 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.19 | 0.28 |
| TR 080 2_100 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 6.5 | 400 | 2500 | 3000 | 94 | 0.19 | 0.28 |
| TR 080 3_48 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.33 | 0.42 |
| TR 080 3_64 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.32 | 0.41 |
| TR 080 3_75 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.27 | 0.36 |
| TR 080 3_80 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.32 | 0.41 |
| TR 080 3_84 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.23 | 0.32 |
| TR 080 3_90 | 40 | 80 | 180 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| TR 080 3_120 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| TR 080 3_125 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.27 | 0.36 |
| TR 080 3_140 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.22 | 0.31 |
| TR 080 3_150 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| TR 080 3_160 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| TR 080 3_175 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.22 | 0.31 |
| TR 080 3_200 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| TR 080 3_210 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| TR 080 3_216 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| TR 080 3_250 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| TR 080 3_280 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| TR 080 3_350 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| TR 080 3_400 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| TR 080 3_500 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| TR 080 3_700 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| TR 080 3_1000 | 40 | 80 | 180 | 4000 | 6000 | 7' | 5' | 5.5 | 400 | 2500 | 3000 | 91 | 0.19 | 0.28 |

# TR G 080

## 40B1 ... 110B1



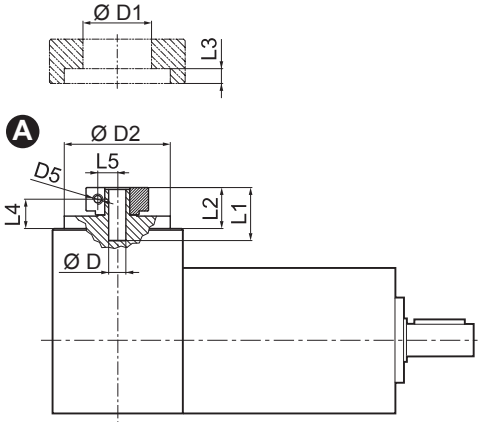

| | Kg |
|---|---|
| **TR G 080 2** | 5.2 |
| **TR G 080 3** | 5.8 |
| **TR G 080 4** | 6.4 |

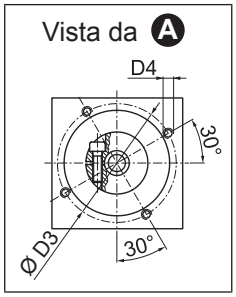
| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR G 080

**FM**



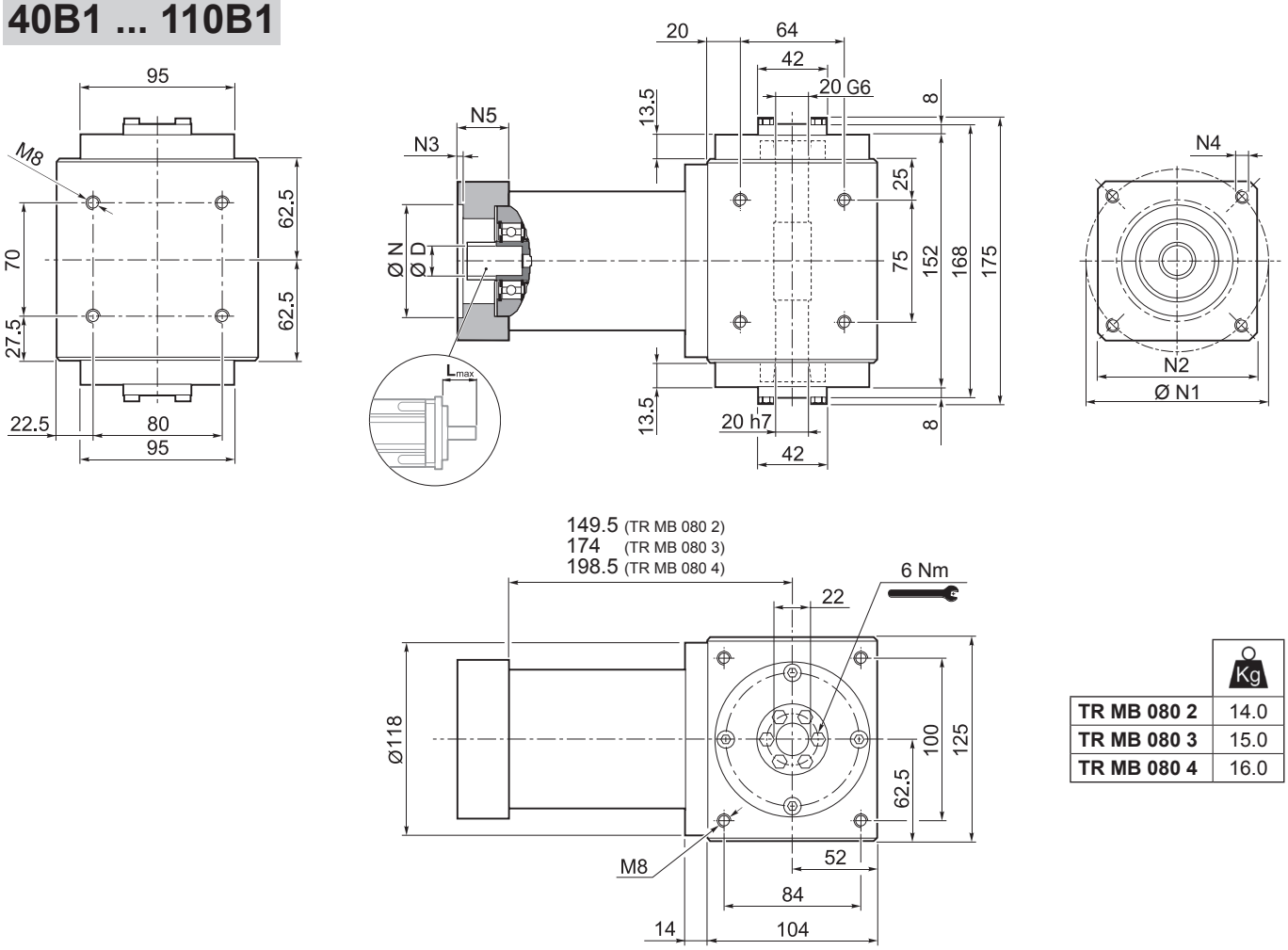




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR G 080 2_3 | 40 | 80 | 180 | 2900 | 3500 | 5' | 3' | 8.0 | 2500 | 3000 | 94 | 0.67 | 0.79 |
| TR G 080 2_4 | 50 | 80 | 200 | 3100 | 4500 | 5' | 3' | 8.0 | 2500 | 3000 | 94 | 0.62 | 0.75 |
| TR G 080 2_5 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 8.0 | 2500 | 3000 | 94 | 0.61 | 0.74 |
| TR G 080 2_6 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 8.0 | 2500 | 3000 | 94 | 0.58 | 0.71 |
| TR G 080 2_7 | 50 | 80 | 200 | 4000 | 6000 | 5' | 3' | 8.0 | 2500 | 3000 | 94 | 0.60 | 0.73 |
| TR G 080 2_10 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 8.0 | 2500 | 3000 | 94 | 0.60 | 0.72 |
| TR G 080 3_9 | 40 | 80 | 180 | 2900 | 3500 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.66 | 0.78 |
| TR G 080 3_12 | 70 | 100 | 250 | 2900 | 3500 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.75 | 0.87 |
| TR G 080 3_15 | 70 | 100 | 250 | 2900 | 3500 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.74 | 0.87 |
| TR G 080 3_16 | 70 | 100 | 250 | 3100 | 4500 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.60 | 0.73 |
| TR G 080 3_20 | 70 | 100 | 250 | 3200 | 4500 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.60 | 0.73 |
| TR G 080 3_25 | 70 | 100 | 250 | 3200 | 4500 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.64 | 0.76 |
| TR G 080 3_28 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.59 | 0.72 |
| TR G 080 3_30 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.60 | 0.72 |
| TR G 080 3_35 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.61 | 0.74 |
| TR G 080 3_36 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.57 | 0.70 |
| TR G 080 3_40 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.60 | 0.72 |
| TR G 080 3_50 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.59 | 0.71 |
| TR G 080 3_70 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.59 | 0.71 |
| TR G 080 3_100 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 6.5 | 2500 | 3000 | 91 | 0.59 | 0.71 |
| TR G 080 4_48 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.61 | 0.75 |
| TR G 080 4_64 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| TR G 080 4_75 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| TR G 080 4_80 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| TR G 080 4_84 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| TR G 080 4_90 | 40 | 80 | 180 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| TR G 080 4_120 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| TR G 080 4_125 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| TR G 080 4_140 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.72 |
| TR G 080 4_150 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| TR G 080 4_160 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| TR G 080 4_175 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.72 |
| TR G 080 4_200 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| TR G 080 4_210 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| TR G 080 4_216 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.57 | 0.70 |
| TR G 080 4_250 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| TR G 080 4_280 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| TR G 080 4_350 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| TR G 080 4_400 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| TR G 080 4_500 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| TR G 080 4_700 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| TR G 080 4_1000 | 40 | 80 | 180 | 4000 | 6000 | 7' | 5' | 5.5 | 2500 | 3000 | 89 | 0.59 | 0.71 |

# TR MB 080

## 40B1 ... 110B1



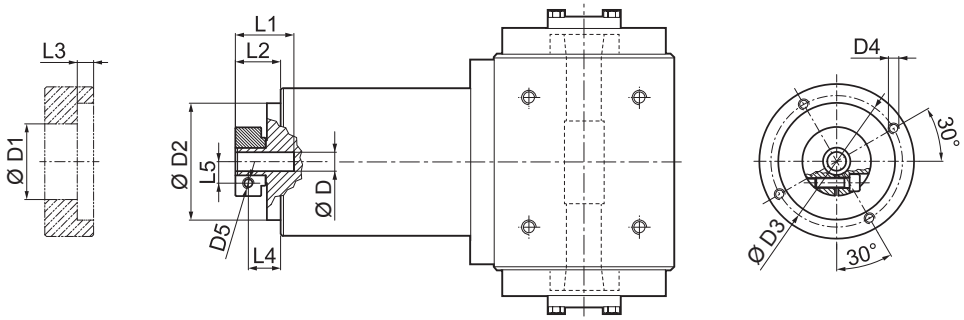

| | Kg |
|---|---|
| **TR MB 080 2** | 14.0 |
| **TR MB 080 3** | 15.0 |
| **TR MB 080 4** | 16.0 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR MB 080

**FM**

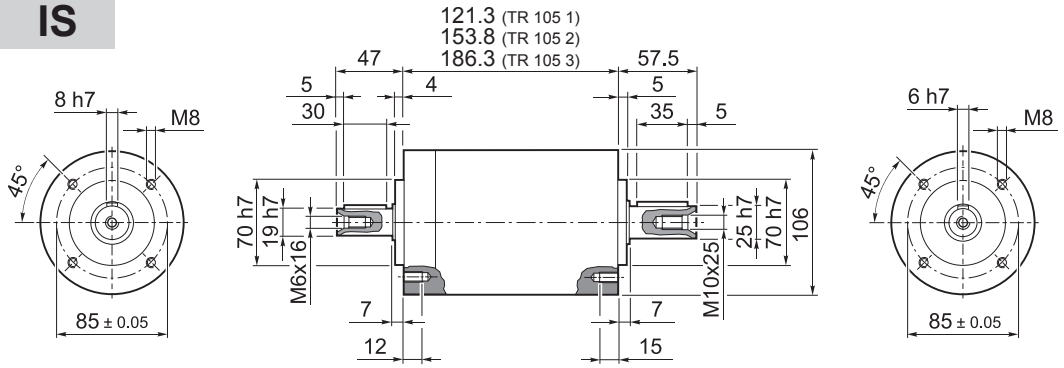



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TR MB 080 2_3 | 40 | 80 | 180 | 2900 | 3500 | 5' | 3' | 8.0 | 94 | 0.50 | 0.59 |
| TR MB 080 2_4 | 50 | 80 | 200 | 3100 | 4500 | 5' | 3' | 8.0 | 94 | 0.34 | 0.43 |
| TR MB 080 2_5 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 8.0 | 94 | 0.28 | 0.37 |
| TR MB 080 2_6 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 8.0 | 94 | 0.21 | 0.30 |
| TR MB 080 2_7 | 50 | 80 | 200 | 4000 | 6000 | 5' | 3' | 8.0 | 94 | 0.23 | 0.32 |
| TR MB 080 2_10 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 8.0 | 94 | 0.20 | 0.29 |
| TR MB 080 3_9 | 40 | 80 | 180 | 2900 | 3500 | 5' | 3' | 6.5 | 91 | 0.49 | 0.58 |
| TR MB 080 3_12 | 70 | 100 | 250 | 2900 | 3500 | 5' | 3' | 6.5 | 91 | 0.47 | 0.56 |
| TR MB 080 3_15 | 70 | 100 | 250 | 2900 | 3500 | 5' | 3' | 6.5 | 91 | 0.46 | 0.55 |
| TR MB 080 3_16 | 70 | 100 | 250 | 3100 | 4500 | 5' | 3' | 6.5 | 91 | 0.32 | 0.41 |
| TR MB 080 3_20 | 70 | 100 | 250 | 3200 | 4500 | 5' | 3' | 6.5 | 91 | 0.27 | 0.36 |
| TR MB 080 3_25 | 70 | 100 | 250 | 3200 | 4500 | 5' | 3' | 6.5 | 91 | 0.27 | 0.36 |
| TR MB 080 3_28 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 91 | 0.22 | 0.31 |
| TR MB 080 3_30 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 6.5 | 91 | 0.20 | 0.29 |
| TR MB 080 3_35 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 91 | 0.22 | 0.31 |
| TR MB 080 3_36 | 50 | 80 | 200 | 3200 | 4500 | 5' | 3' | 6.5 | 91 | 0.20 | 0.29 |
| TR MB 080 3_40 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 91 | 0.20 | 0.29 |
| TR MB 080 3_50 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 91 | 0.19 | 0.28 |
| TR MB 080 3_70 | 70 | 100 | 250 | 4000 | 6000 | 5' | 3' | 6.5 | 91 | 0.19 | 0.28 |
| TR MB 080 3_100 | 40 | 80 | 180 | 4000 | 6000 | 5' | 3' | 6.5 | 91 | 0.19 | 0.28 |
| TR MB 080 4_48 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 89 | 0.33 | 0.42 |
| TR MB 080 4_64 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 89 | 0.32 | 0.41 |
| TR MB 080 4_75 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 89 | 0.27 | 0.36 |
| TR MB 080 4_80 | 70 | 100 | 250 | 3100 | 4500 | 7' | 5' | 5.5 | 89 | 0.32 | 0.41 |
| TR MB 080 4_84 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.23 | 0.32 |
| TR MB 080 4_90 | 40 | 80 | 180 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.20 | 0.29 |
| TR MB 080 4_120 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.20 | 0.29 |
| TR MB 080 4_125 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 89 | 0.27 | 0.36 |
| TR MB 080 4_140 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.22 | 0.31 |
| TR MB 080 4_150 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.20 | 0.29 |
| TR MB 080 4_160 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.20 | 0.29 |
| TR MB 080 4_175 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.22 | 0.31 |
| TR MB 080 4_200 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.20 | 0.29 |
| TR MB 080 4_210 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.20 | 0.29 |
| TR MB 080 4_216 | 70 | 100 | 250 | 3200 | 4500 | 7' | 5' | 5.5 | 89 | 0.20 | 0.29 |
| TR MB 080 4_250 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.19 | 0.28 |
| TR MB 080 4_280 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.19 | 0.28 |
| TR MB 080 4_350 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.19 | 0.28 |
| TR MB 080 4_400 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.19 | 0.28 |
| TR MB 080 4_500 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.19 | 0.28 |
| TR MB 080 4_700 | 70 | 100 | 250 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.19 | 0.28 |
| TR MB 080 4_1000 | 40 | 80 | 180 | 4000 | 6000 | 7' | 5' | 5.5 | 89 | 0.19 | 0.28 |

# TR 105

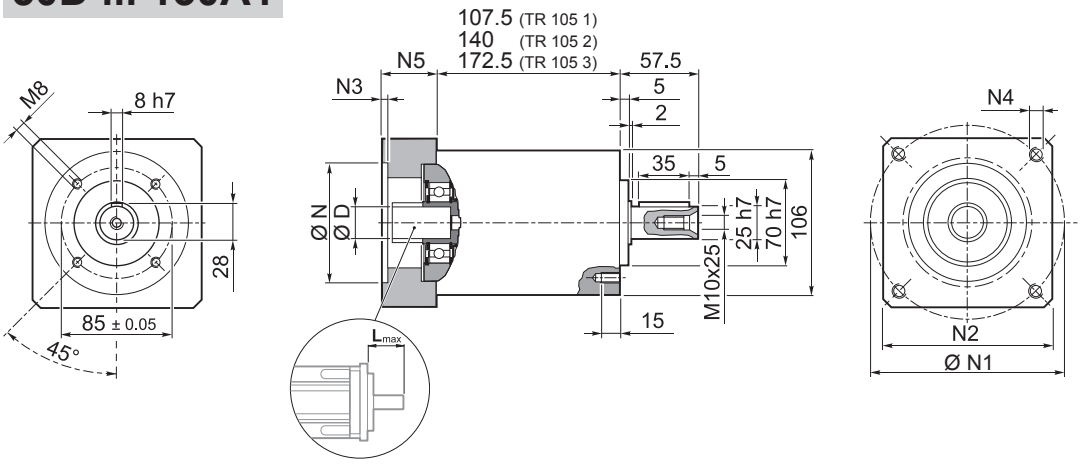
## IS




| | Kg |
|---|---|
| **TR 105 1** | 6.5 |
| **TR 105 2** | 8.5 |
| **TR 105 3** | 10.5 |



## 50D ... 130A1



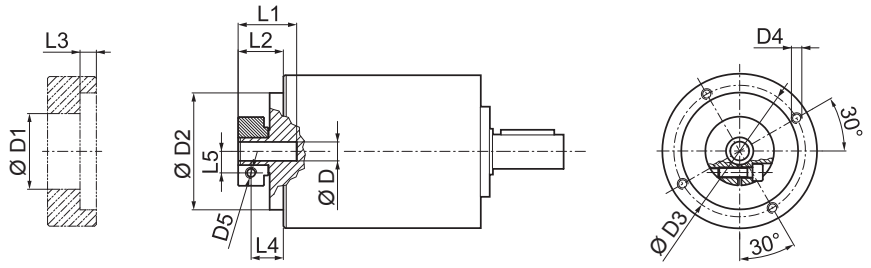

| | Kg |
|---|---|
| **TR 105 1** | 6.5 |
| **TR 105 2** | 8.5 |
| **TR 105 3** | 10.5 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR 105

## FM

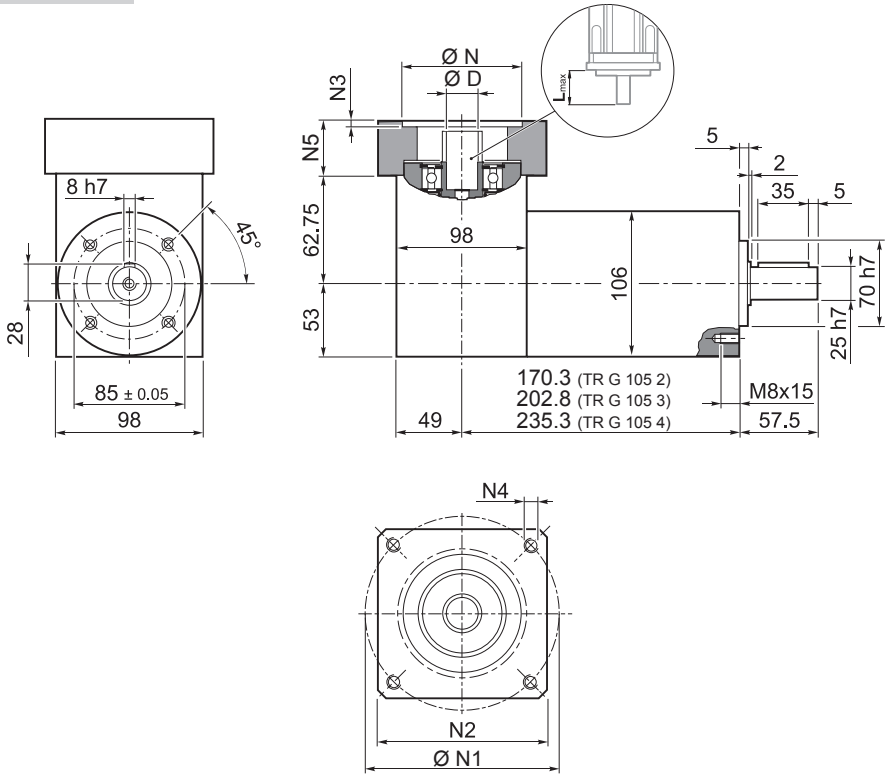



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 35 | 23 | 7.6 | 12 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 35 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 37 | 25 | 7.6 | 16 | 24.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D: 11 ... 12.7 | D: 14 ... 19 | D: 22 - 24 | D: 28 - 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR 105 1_3 | 100 | 180 | 360 | 2500 | 3500 | 5' | 3' | 24.0 | 600 | 3800 | 4000 | 97 | 1.70 | 1.78 | 2.22 | 2.59 |
| TR 105 1_4 | 140 | 210 | 450 | 2800 | 4500 | 5' | 3' | 24.0 | 600 | 3800 | 4000 | 97 | 0.99 | 1.06 | 1.51 | 1.87 |
| TR 105 1_5 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 24.0 | 600 | 3800 | 4000 | 97 | 0.72 | 0.79 | 1.23 | 1.60 |
| TR 105 1_6 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 24.0 | 600 | 3800 | 4000 | 97 | 0.36 | 0.43 | 0.88 | 1.24 |
| TR 105 1_7 | 140 | 210 | 450 | 3500 | 5000 | 5' | 3' | 24.0 | 600 | 3800 | 4000 | 97 | 0.47 | 0.55 | 0.99 | 1.35 |
| TR 105 1_10 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 24.0 | 600 | 3800 | 4000 | 97 | 0.33 | 0.41 | 0.85 | 1.21 |
| TR 105 2_9 | 100 | 180 | 360 | 2500 | 3500 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 1.58 | 1.63 | 2.07 | 2.44 |
| TR 105 2_12 | 170 | 250 | 600 | 2500 | 3500 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 1.52 | 1.59 | 2.03 | 2.40 |
| TR 105 2_15 | 170 | 250 | 600 | 2500 | 3500 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 1.47 | 1.55 | 1.99 | 2.36 |
| TR 105 2_16 | 170 | 250 | 600 | 2800 | 4500 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.87 | 0.95 | 1.39 | 1.76 |
| TR 105 2_20 | 170 | 250 | 600 | 3000 | 4500 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.86 | 0.93 | 1.37 | 1.74 |
| TR 105 2_25 | 170 | 250 | 600 | 3000 | 4500 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.63 | 0.71 | 1.15 | 1.51 |
| TR 105 2_28 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.43 | 0.51 | 0.95 | 1.32 |
| TR 105 2_30 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.32 | 0.40 | 0.84 | 1.20 |
| TR 105 2_35 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.43 | 0.50 | 0.95 | 1.31 |
| TR 105 2_36 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR 105 2_40 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.31 | 0.39 | 0.83 | 1.20 |
| TR 105 2_50 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.31 | 0.39 | 0.83 | 1.19 |
| TR 105 2_70 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR 105 2_100 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 21.5 | 600 | 3800 | 4000 | 94 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR 105 3_48 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.91 | 0.98 | 1.42 | 1.79 |
| TR 105 3_64 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.87 | 0.94 | 1.38 | 1.75 |
| TR 105 3_75 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.66 | 0.74 | 1.18 | 1.55 |
| TR 105 3_80 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.86 | 0.94 | 1.38 | 1.75 |
| TR 105 3_84 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.44 | 0.52 | 0.96 | 1.33 |
| TR 105 3_90 | 100 | 180 | 360 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR 105 3_120 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR 105 3_125 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.63 | 0.70 | 1.15 | 1.51 |
| TR 105 3_140 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.43 | 0.51 | 0.95 | 1.32 |
| TR 105 3_150 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR 105 3_160 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.39 | 0.83 | 1.21 |
| TR 105 3_175 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.43 | 0.50 | 0.95 | 1.31 |
| TR 105 3_200 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.39 | 0.83 | 1.20 |
| TR 105 3_210 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR 105 3_216 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.39 | 0.83 | 1.20 |
| TR 105 3_250 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.39 | 0.83 | 1.19 |
| TR 105 3_280 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR 105 3_350 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR 105 3_400 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR 105 3_500 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR 105 3_700 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR 105 3_1000 | 100 | 180 | 360 | 3500 | 5000 | 7' | 5' | 18.0 | 600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |

# TR G 105

## 50D ... 130A1




| | Kg |
|---|---|
| **TR G 105 2** | 8.5 |
| **TR G 105 3** | 10.5 |
| **TR G 105 4** | 12.5 |

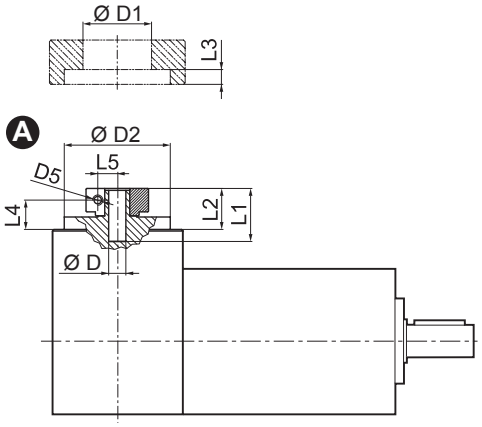
TR

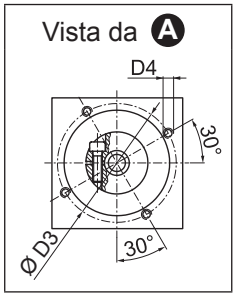
| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR G 105

**FM**



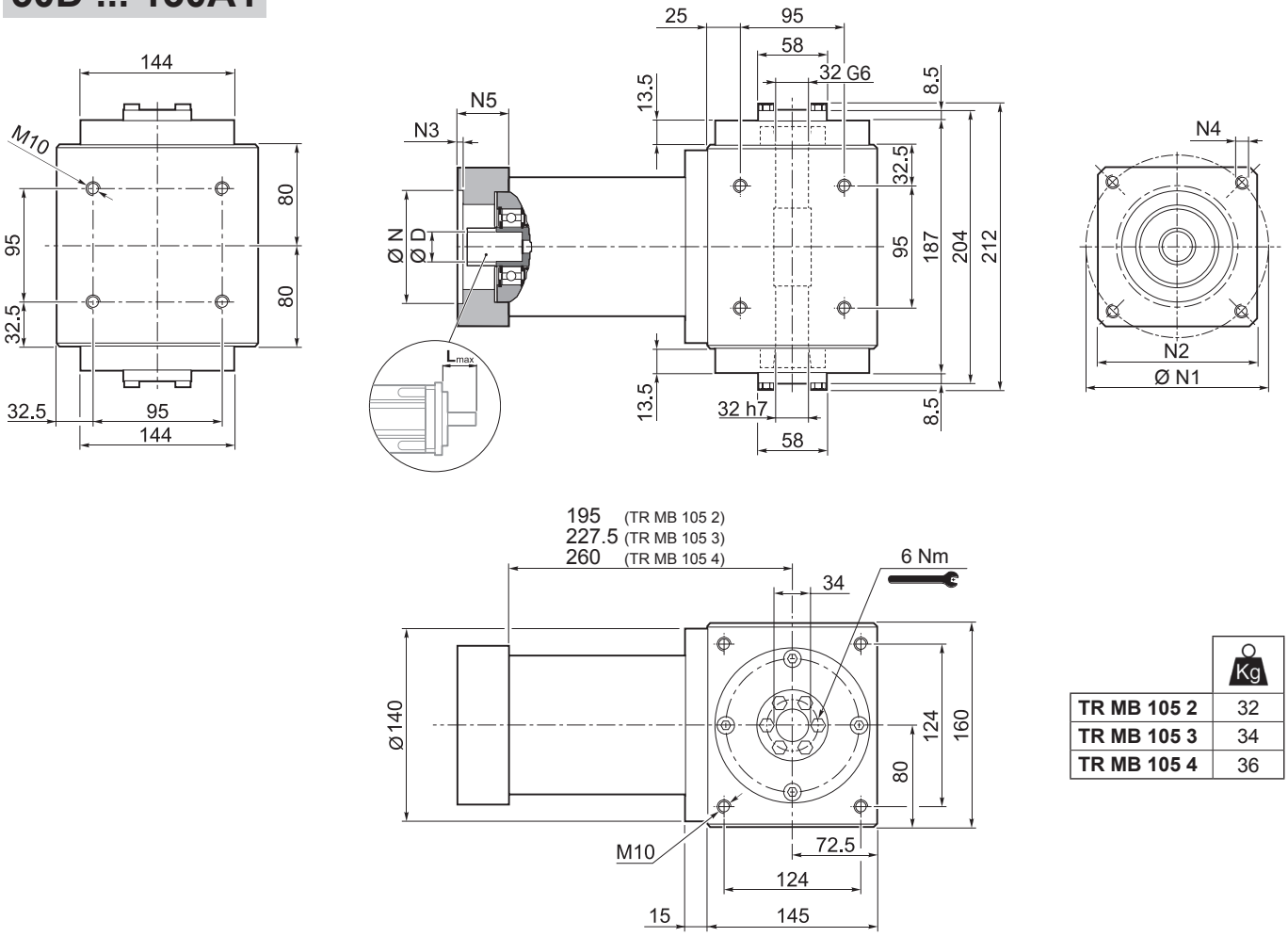




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 35 | 23 | 7.6 | 12 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 35 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 37 | 25 | 7.6 | 16 | 24.5 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 11 ... 12.7 | 14 ... 19 | 22 - 24 | 28 - 32 |
| TR G 105 2_3 | 100 | 180 | 360 | 2500 | 3500 | 5' | 3' | 24.0 | 3800 | 4000 | 94 | 1.85 | 2.01 | 2.33 | 3.07 |
| TR G 105 2_4 | 140 | 210 | 450 | 2800 | 4500 | 5' | 3' | 24.0 | 3800 | 4000 | 94 | 1.14 | 1.29 | 1.62 | 2.35 |
| TR G 105 2_5 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 24.0 | 3800 | 4000 | 94 | 1.07 | 1.21 | 1.34 | 2.08 |
| TR G 105 2_6 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 24.0 | 3800 | 4000 | 94 | 0.87 | 1.02 | 1.16 | 1.89 |
| TR G 105 2_7 | 140 | 210 | 450 | 3500 | 5000 | 5' | 3' | 24.0 | 3800 | 4000 | 94 | 0.98 | 1.14 | 1.27 | 2.00 |
| TR G 105 2_10 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 24.0 | 3800 | 4000 | 94 | 0.94 | 1.09 | 1.23 | 1.95 |
| TR G 105 3_9 | 100 | 180 | 360 | 2500 | 3500 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 1.76 | 1.86 | 2.18 | 2.92 |
| TR G 105 3_12 | 170 | 250 | 600 | 2500 | 3500 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 1.60 | 1.75 | 2.14 | 2.88 |
| TR G 105 3_15 | 170 | 250 | 600 | 2500 | 3500 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 1.57 | 1.73 | 2.10 | 2.84 |
| TR G 105 3_16 | 170 | 250 | 600 | 2800 | 4500 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 1.02 | 1.18 | 1.50 | 2.24 |
| TR G 105 3_20 | 170 | 250 | 600 | 3000 | 4500 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 1.20 | 1.35 | 1.48 | 2.22 |
| TR G 105 3_25 | 170 | 250 | 600 | 3000 | 4500 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 1.13 | 1.29 | 1.42 | 2.15 |
| TR G 105 3_28 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 0.94 | 1.10 | 1.23 | 1.97 |
| TR G 105 3_30 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 0.93 | 1.08 | 1.22 | 1.94 |
| TR G 105 3_35 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 1.02 | 1.17 | 1.31 | 2.04 |
| TR G 105 3_36 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 0.83 | 0.98 | 1.12 | 1.85 |
| TR G 105 3_40 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 0.96 | 1.11 | 1.25 | 1.98 |
| TR G 105 3_50 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 0.96 | 1.11 | 1.25 | 1.98 |
| TR G 105 3_70 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 0.92 | 1.06 | 1.21 | 1.93 |
| TR G 105 3_100 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 21.5 | 3800 | 4000 | 91 | 0.92 | 1.06 | 1.21 | 1.93 |
| TR G 105 4_48 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 1.06 | 1.21 | 1.53 | 2.27 |
| TR G 105 4_64 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 1.02 | 1.17 | 1.49 | 2.23 |
| TR G 105 4_75 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 1.00 | 1.16 | 1.29 | 2.03 |
| TR G 105 4_80 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 1.01 | 1.17 | 1.49 | 2.23 |
| TR G 105 4_84 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.95 | 1.11 | 1.24 | 1.98 |
| TR G 105 4_90 | 100 | 180 | 360 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.93 | 1.07 | 1.22 | 1.94 |
| TR G 105 4_120 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.93 | 1.07 | 1.22 | 1.94 |
| TR G 105 4_125 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.97 | 1.12 | 1.26 | 1.99 |
| TR G 105 4_140 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.94 | 1.10 | 1.23 | 1.97 |
| TR G 105 4_150 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.93 | 1.07 | 1.22 | 1.94 |
| TR G 105 4_160 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.07 | 1.21 | 1.96 |
| TR G 105 4_175 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.94 | 1.09 | 1.23 | 1.96 |
| TR G 105 4_200 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.07 | 1.21 | 1.94 |
| TR G 105 4_210 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.93 | 1.07 | 1.22 | 1.94 |
| TR G 105 4_216 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.83 | 0.98 | 1.11 | 1.85 |
| TR G 105 4_250 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.07 | 1.21 | 1.93 |
| TR G 105 4_280 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| TR G 105 4_350 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| TR G 105 4_400 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| TR G 105 4_500 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| TR G 105 4_700 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| TR G 105 4_1000 | 100 | 180 | 360 | 3500 | 5000 | 7' | 5' | 18.0 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |

# TR MB 105

## 50D ... 130A1



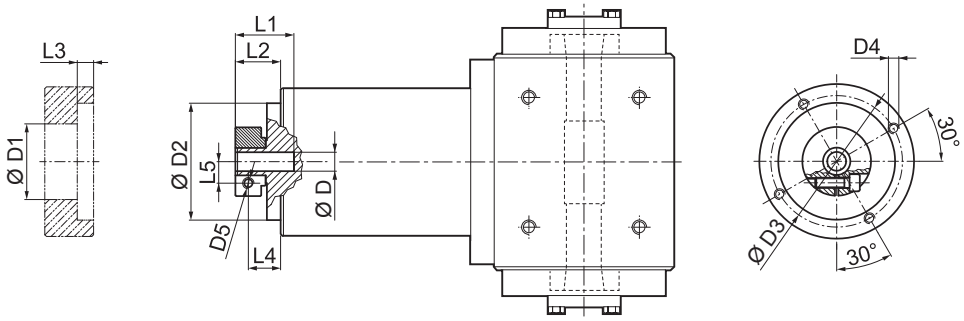

| | Kg |
|---|---|
| **TR MB 105 2** | 32 |
| **TR MB 105 3** | 34 |
| **TR MB 105 4** | 36 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR MB 105

**FM**

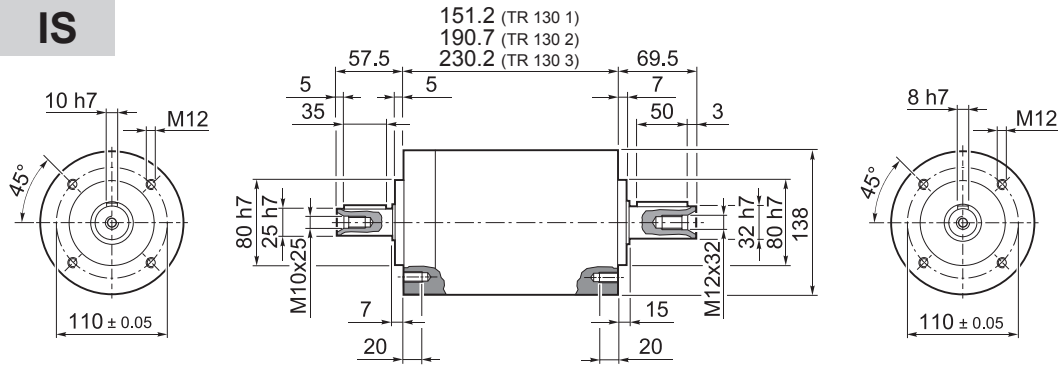



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 35 | 23 | 7.6 | 12 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 35 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 37 | 25 | 7.6 | 16 | 24.5 |

| i | $M_{n2}$ | $M_{a2}$ | $M_{p2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | % | 11 ... 12.7 | 14 ... 19 | 22 - 24 | 28 - 32 |
| TR MB 105 2_3 | 100 | 180 | 360 | 2500 | 3500 | 5' | 3' | 24.0 | 94 | 1.70 | 1.78 | 2.22 | 2.59 |
| TR MB 105 2_4 | 140 | 210 | 450 | 2800 | 4500 | 5' | 3' | 24.0 | 94 | 0.99 | 1.06 | 1.51 | 1.87 |
| TR MB 105 2_5 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 24.0 | 94 | 0.72 | 0.79 | 1.23 | 1.60 |
| TR MB 105 2_6 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 24.0 | 94 | 0.36 | 0.43 | 0.88 | 1.24 |
| TR MB 105 2_7 | 140 | 210 | 450 | 3500 | 5000 | 5' | 3' | 24.0 | 94 | 0.47 | 0.55 | 0.99 | 1.35 |
| TR MB 105 2_10 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 24.0 | 94 | 0.33 | 0.41 | 0.85 | 1.21 |
| TR MB 105 3_9 | 100 | 180 | 360 | 2500 | 3500 | 5' | 3' | 21.5 | 91 | 1.58 | 1.63 | 2.07 | 2.44 |
| TR MB 105 3_12 | 170 | 250 | 600 | 2500 | 3500 | 5' | 3' | 21.5 | 91 | 1.52 | 1.59 | 2.03 | 2.40 |
| TR MB 105 3_15 | 170 | 250 | 600 | 2500 | 3500 | 5' | 3' | 21.5 | 91 | 1.47 | 1.55 | 1.99 | 2.36 |
| TR MB 105 3_16 | 170 | 250 | 600 | 2800 | 4500 | 5' | 3' | 21.5 | 91 | 0.87 | 0.95 | 1.39 | 1.76 |
| TR MB 105 3_20 | 170 | 250 | 600 | 3000 | 4500 | 5' | 3' | 21.5 | 91 | 0.86 | 0.93 | 1.37 | 1.74 |
| TR MB 105 3_25 | 170 | 250 | 600 | 3000 | 4500 | 5' | 3' | 21.5 | 91 | 0.63 | 0.71 | 1.15 | 1.51 |
| TR MB 105 3_28 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 91 | 0.43 | 0.51 | 0.95 | 1.32 |
| TR MB 105 3_30 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 21.5 | 91 | 0.32 | 0.40 | 0.84 | 1.20 |
| TR MB 105 3_35 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 91 | 0.43 | 0.50 | 0.95 | 1.31 |
| TR MB 105 3_36 | 140 | 210 | 450 | 3000 | 4500 | 5' | 3' | 21.5 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR MB 105 3_40 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 91 | 0.31 | 0.39 | 0.83 | 1.20 |
| TR MB 105 3_50 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 91 | 0.31 | 0.39 | 0.83 | 1.19 |
| TR MB 105 3_70 | 170 | 250 | 600 | 3500 | 5000 | 5' | 3' | 21.5 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR MB 105 3_100 | 100 | 180 | 360 | 3500 | 5000 | 5' | 3' | 21.5 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR MB 105 4_48 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 89 | 0.91 | 0.98 | 1.42 | 1.79 |
| TR MB 105 4_64 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 89 | 0.87 | 0.94 | 1.38 | 1.75 |
| TR MB 105 4_75 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 89 | 0.66 | 0.74 | 1.18 | 1.55 |
| TR MB 105 4_80 | 170 | 250 | 600 | 2800 | 4500 | 7' | 5' | 18.0 | 89 | 0.86 | 0.94 | 1.38 | 1.75 |
| TR MB 105 4_84 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.44 | 0.52 | 0.96 | 1.33 |
| TR MB 105 4_90 | 100 | 180 | 360 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR MB 105 4_120 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR MB 105 4_125 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 89 | 0.63 | 0.70 | 1.15 | 1.51 |
| TR MB 105 4_140 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.43 | 0.51 | 0.95 | 1.32 |
| TR MB 105 4_150 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR MB 105 4_160 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.39 | 0.83 | 1.21 |
| TR MB 105 4_175 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.43 | 0.50 | 0.95 | 1.31 |
| TR MB 105 4_200 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.39 | 0.83 | 1.20 |
| TR MB 105 4_210 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.32 | 0.39 | 0.84 | 1.20 |
| TR MB 105 4_216 | 170 | 250 | 600 | 3000 | 4500 | 7' | 5' | 18.0 | 89 | 0.31 | 0.39 | 0.83 | 1.20 |
| TR MB 105 4_250 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.39 | 0.83 | 1.19 |
| TR MB 105 4_280 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR MB 105 4_350 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR MB 105 4_400 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR MB 105 4_500 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR MB 105 4_700 | 170 | 250 | 600 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| TR MB 105 4_1000 | 100 | 180 | 360 | 3500 | 5000 | 7' | 5' | 18.0 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |

# TR 130

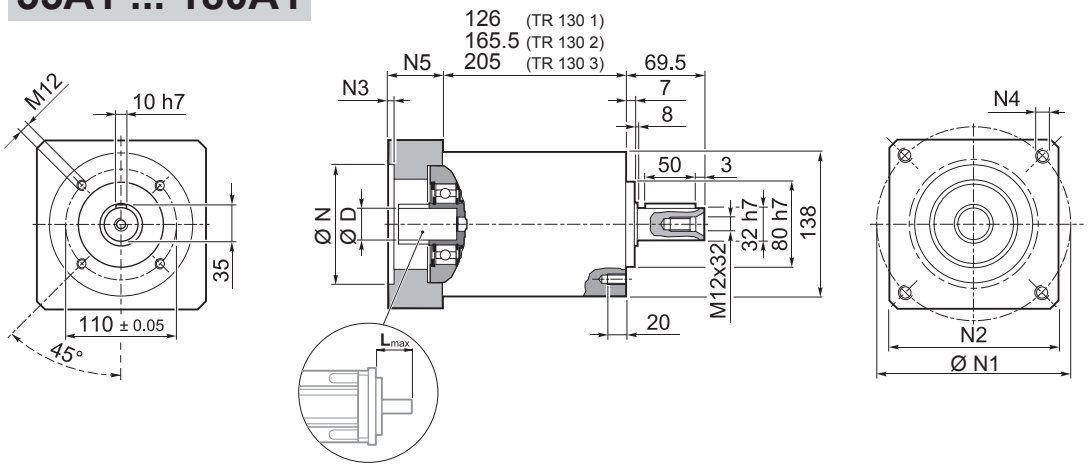
## IS




| | Kg |
|---|---|
| **TR 130 1** | 12.0 |
| **TR 130 2** | 15.5 |
| **TR 130 3** | 18.5 |



## 55A1 ... 180A1



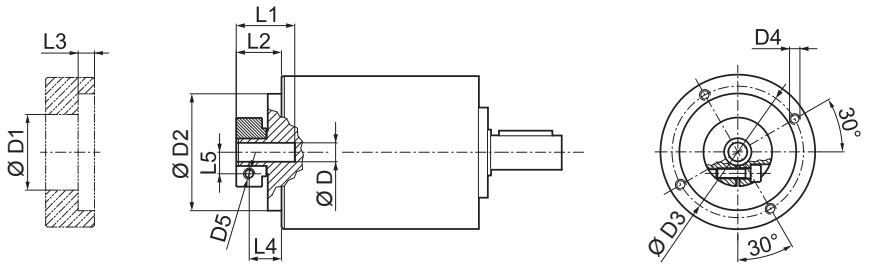

| | Kg |
|---|---|
| **TR 130 1** | 12.0 |
| **TR 130 2** | 15.5 |
| **TR 130 3** | 18.5 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A0** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 114.3 | 200 | 170 | 5.5 | M12x25 | 39.5 | 50 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR 130

## FM

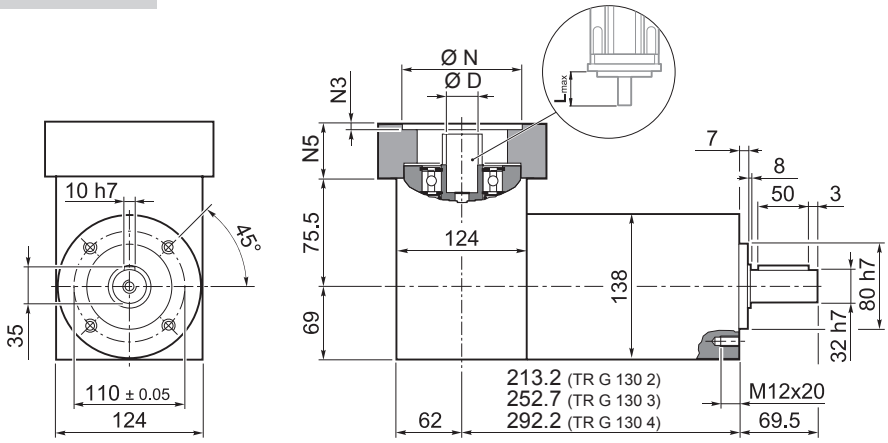


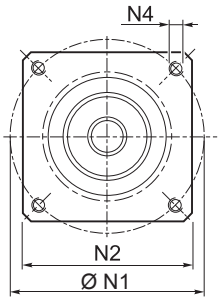

| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR 130 1_3 | 215 | 400 | 800 | 2100 | 3000 | 5' | 3' | 45.0 | 800 | 5500 | 6500 | 97 | 5.25 | 5.46 | 5.81 | 7.16 |
| TR 130 1_4 | 380 | 600 | 1100 | 2400 | 3500 | 5' | 3' | 45.0 | 800 | 5500 | 6500 | 97 | 3.06 | 3.26 | 3.61 | 4.97 |
| TR 130 1_5 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 45.0 | 800 | 5500 | 6500 | 97 | 2.22 | 2.42 | 2.77 | 4.13 |
| TR 130 1_6 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 45.0 | 800 | 5500 | 6500 | 97 | 1.19 | 1.40 | 1.75 | 3.10 |
| TR 130 1_7 | 380 | 600 | 1100 | 3200 | 4000 | 5' | 3' | 45.0 | 800 | 5500 | 6500 | 97 | 1.47 | 1.68 | 2.03 | 3.38 |
| TR 130 1_10 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 45.0 | 800 | 5500 | 6500 | 97 | 1.04 | 1.25 | 1.60 | 2.95 |
| TR 130 2_9 | 215 | 400 | 800 | 2100 | 3000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 4.82 | 5.02 | 5.37 | 6.72 |
| TR 130 2_12 | 450 | 700 | 1300 | 2100 | 3000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 4.57 | 4.78 | 5.13 | 6.48 |
| TR 130 2_15 | 450 | 700 | 1300 | 2100 | 3000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 4.48 | 4.69 | 5.04 | 6.39 |
| TR 130 2_16 | 450 | 700 | 1300 | 2400 | 3500 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 2.67 | 2.88 | 3.23 | 4.58 |
| TR 130 2_20 | 450 | 700 | 1300 | 2900 | 3500 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 1.97 | 2.18 | 2.53 | 3.88 |
| TR 130 2_25 | 450 | 700 | 1300 | 2900 | 3500 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 1.94 | 2.15 | 2.50 | 3.85 |
| TR 130 2_28 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 1.34 | 1.55 | 1.90 | 3.25 |
| TR 130 2_30 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 1.00 | 1.21 | 1.56 | 2.91 |
| TR 130 2_35 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 1.33 | 1.53 | 1.88 | 3.24 |
| TR 130 2_36 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 1.05 | 1.26 | 1.61 | 2.96 |
| TR 130 2_40 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 0.98 | 1.19 | 1.54 | 2.89 |
| TR 130 2_50 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 0.97 | 1.18 | 1.53 | 2.88 |
| TR 130 2_70 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR 130 2_100 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 38.5 | 800 | 5500 | 6500 | 94 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR 130 3_48 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 2.77 | 2.98 | 3.33 | 4.68 |
| TR 130 3_64 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 2.65 | 2.86 | 3.21 | 4.56 |
| TR 130 3_75 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 2.03 | 2.24 | 2.59 | 3.94 |
| TR 130 3_80 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 2.65 | 2.85 | 3.20 | 4.56 |
| TR 130 3_84 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 1.37 | 1.58 | 1.93 | 3.28 |
| TR 130 3_90 | 215 | 400 | 800 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 1.00 | 1.20 | 1.55 | 2.91 |
| TR 130 3_120 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.99 | 1.20 | 1.55 | 2.90 |
| TR 130 3_125 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 1.93 | 2.13 | 2.48 | 3.84 |
| TR 130 3_140 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 1.34 | 1.54 | 1.89 | 3.25 |
| TR 130 3_150 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.99 | 1.20 | 1.55 | 2.90 |
| TR 130 3_160 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.98 | 1.18 | 1.53 | 2.89 |
| TR 130 3_175 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 1.32 | 1.53 | 1.88 | 3.23 |
| TR 130 3_200 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.97 | 1.18 | 1.53 | 2.88 |
| TR 130 3_210 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.99 | 1.20 | 1.55 | 2.90 |
| TR 130 3_216 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 1.05 | 1.26 | 1.61 | 2.96 |
| TR 130 3_250 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.97 | 1.18 | 1.53 | 2.88 |
| TR 130 3_280 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR 130 3_350 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR 130 3_400 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR 130 3_500 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR 130 3_700 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR 130 3_1000 | 215 | 400 | 800 | 3200 | 4000 | 7' | 5' | 30.0 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |

# TR G 130

## 55A1 ... 180A1



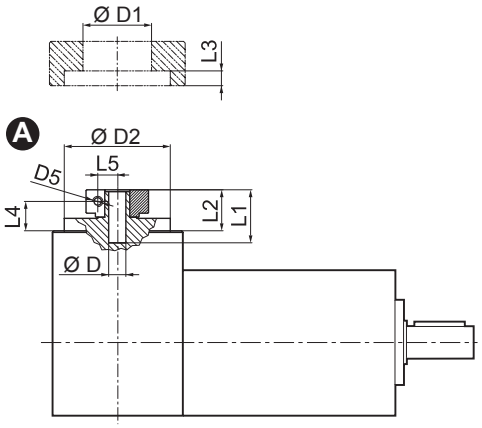

| | Kg |
|---|---|
| **TR G 130 2** | 16.0 |
| **TR G 130 3** | 19.5 |
| **TR G 130 4** | 22.5 |

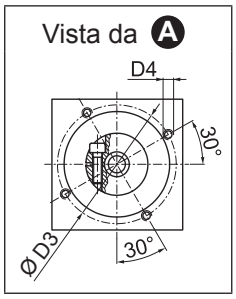
| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A0** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 114.3 | 200 | 170 | 5.5 | M12x25 | 39.5 | 50 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR G 130

**FM**



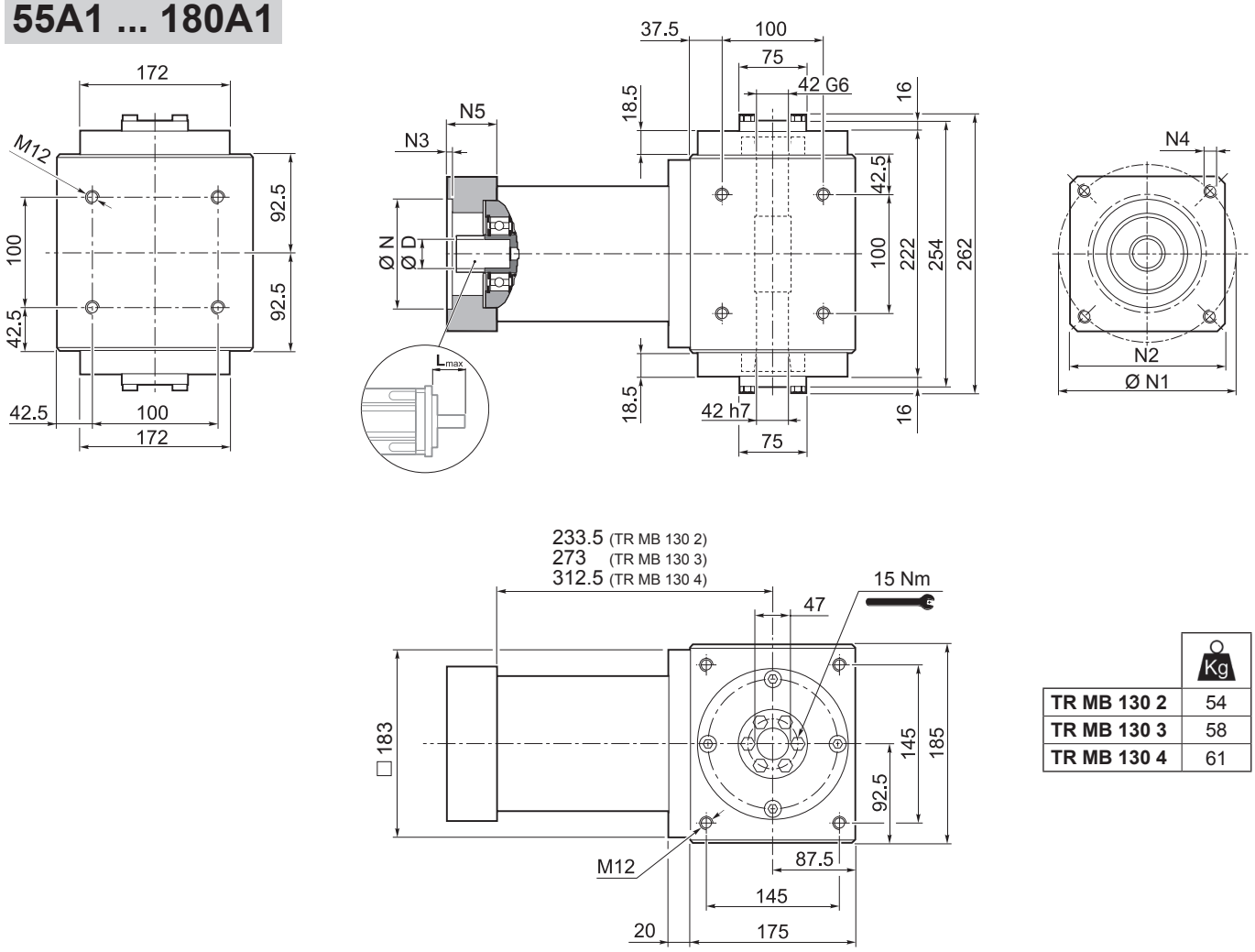




| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
| TR G 130 2_3 | 215 | 400 | 800 | 2100 | 3000 | 5' | 3' | 45.0 | 5500 | 6500 | 94 | 7.09 | 7.28 | 7.66 | 10.37 |
| TR G 130 2_4 | 380 | 600 | 1100 | 2400 | 3500 | 5' | 3' | 45.0 | 5500 | 6500 | 94 | 4.90 | 5.08 | 5.46 | 8.18 |
| TR G 130 2_5 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 45.0 | 5500 | 6500 | 94 | 4.81 | 4.99 | 5.38 | 8.10 |
| TR G 130 2_6 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 45.0 | 5500 | 6500 | 94 | 4.45 | 4.64 | 5.03 | 7.73 |
| TR G 130 2_7 | 380 | 600 | 1100 | 3200 | 4000 | 5' | 3' | 45.0 | 5500 | 6500 | 94 | 4.73 | 4.92 | 5.31 | 8.01 |
| TR G 130 2_10 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 45.0 | 5500 | 6500 | 94 | 4.68 | 4.88 | 5.26 | 7.97 |
| TR G 130 3_9 | 215 | 400 | 800 | 2100 | 3000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 6.66 | 6.84 | 7.22 | 9.93 |
| TR G 130 3_12 | 450 | 700 | 1300 | 2100 | 3000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 6.25 | 6.45 | 6.84 | 9.54 |
| TR G 130 3_15 | 450 | 700 | 1300 | 2100 | 3000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 6.25 | 6.44 | 6.83 | 9.53 |
| TR G 130 3_16 | 450 | 700 | 1300 | 2400 | 3500 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.51 | 4.70 | 5.08 | 7.79 |
| TR G 130 3_20 | 450 | 700 | 1300 | 2900 | 3500 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.56 | 5.36 | 5.75 | 8.45 |
| TR G 130 3_25 | 450 | 700 | 1300 | 2900 | 3500 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 5.13 | 4.72 | 5.11 | 7.82 |
| TR G 130 3_28 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.60 | 4.79 | 5.18 | 7.88 |
| TR G 130 3_30 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.64 | 4.84 | 5.22 | 7.93 |
| TR G 130 3_35 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.92 | 5.10 | 5.49 | 8.20 |
| TR G 130 3_36 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.31 | 4.50 | 4.89 | 7.59 |
| TR G 130 3_40 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.77 | 4.96 | 5.35 | 8.05 |
| TR G 130 3_50 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.76 | 4.96 | 5.34 | 8.05 |
| TR G 130 3_70 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.60 | 4.80 | 5.18 | 7.89 |
| TR G 130 3_100 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 38.5 | 5500 | 6500 | 91 | 4.60 | 4.80 | 5.18 | 7.89 |
| TR G 130 4_48 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.61 | 4.81 | 5.18 | 7.89 |
| TR G 130 4_64 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.49 | 4.68 | 5.06 | 7.77 |
| TR G 130 4_75 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.62 | 4.81 | 5.20 | 7.91 |
| TR G 130 4_80 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.49 | 4.67 | 5.05 | 7.77 |
| TR G 130 4_84 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.63 | 4.82 | 5.21 | 7.91 |
| TR G 130 4_90 | 215 | 400 | 800 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.64 | 4.83 | 5.21 | 7.93 |
| TR G 130 4_120 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.63 | 4.83 | 5.21 | 7.92 |
| TR G 130 4_125 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.52 | 4.70 | 5.09 | 7.81 |
| TR G 130 4_140 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.60 | 4.78 | 5.17 | 7.88 |
| TR G 130 4_150 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.63 | 4.83 | 5.21 | 7.92 |
| TR G 130 4_160 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.62 | 4.81 | 5.19 | 7.91 |
| TR G 130 4_175 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.58 | 4.77 | 5.16 | 7.86 |
| TR G 130 4_200 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.61 | 4.81 | 5.19 | 7.90 |
| TR G 130 4_210 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.63 | 4.83 | 5.21 | 7.92 |
| TR G 130 4_216 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.31 | 4.50 | 4.89 | 7.59 |
| TR G 130 4_250 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.61 | 4.81 | 5.19 | 7.90 |
| TR G 130 4_280 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| TR G 130 4_350 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| TR G 130 4_400 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| TR G 130 4_500 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| TR G 130 4_700 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| TR G 130 4_1000 | 215 | 400 | 800 | 3200 | 4000 | 7' | 5' | 30.0 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |

# TR MB 130

## 55A1 ... 180A1



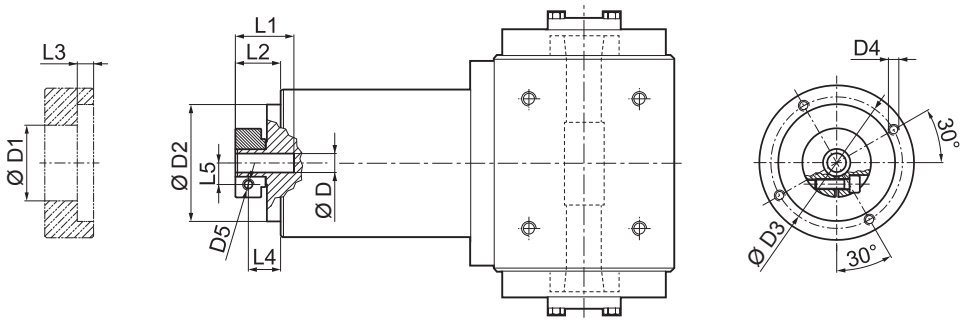

| | Kg |
|---|---|
| **TR MB 130 2** | 54 |
| **TR MB 130 3** | 58 |
| **TR MB 130 4** | 61 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A0** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 114.3 | 200 | 170 | 5.5 | M12x25 | 39.5 | 50 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR MB 130

**FM**

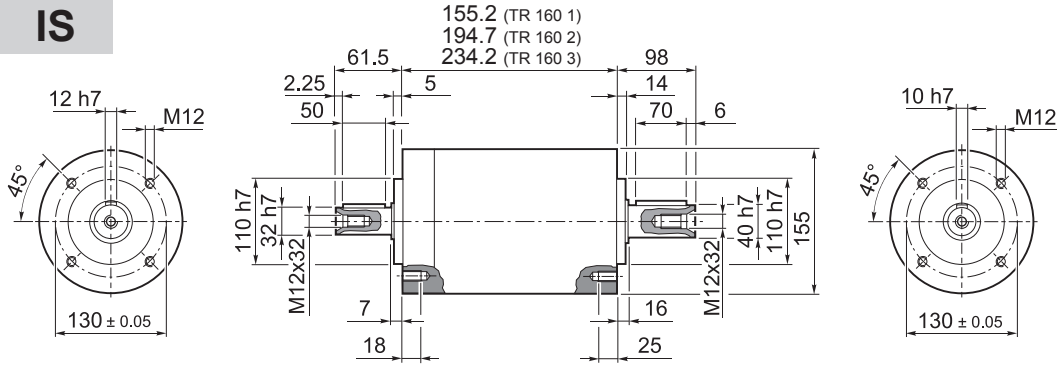



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TR MB 130 2_3 | 215 | 400 | 800 | 2100 | 3000 | 5' | 3' | 45.0 | 94 | 5.25 | 5.46 | 5.81 | 7.16 |
| TR MB 130 2_4 | 380 | 600 | 1100 | 2400 | 3500 | 5' | 3' | 45.0 | 94 | 3.06 | 3.26 | 3.61 | 4.97 |
| TR MB 130 2_5 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 45.0 | 94 | 2.22 | 2.42 | 2.77 | 4.13 |
| TR MB 130 2_6 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 45.0 | 94 | 1.19 | 1.40 | 1.75 | 3.10 |
| TR MB 130 2_7 | 380 | 600 | 1100 | 3200 | 4000 | 5' | 3' | 45.0 | 94 | 1.47 | 1.68 | 2.03 | 3.38 |
| TR MB 130 2_10 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 45.0 | 94 | 1.04 | 1.25 | 1.60 | 2.95 |
| TR MB 130 3_9 | 215 | 400 | 800 | 2100 | 3000 | 5' | 3' | 38.5 | 91 | 4.82 | 5.02 | 5.37 | 6.72 |
| TR MB 130 3_12 | 450 | 700 | 1300 | 2100 | 3000 | 5' | 3' | 38.5 | 91 | 4.57 | 4.78 | 5.13 | 6.48 |
| TR MB 130 3_15 | 450 | 700 | 1300 | 2100 | 3000 | 5' | 3' | 38.5 | 91 | 4.48 | 4.69 | 5.04 | 6.39 |
| TR MB 130 3_16 | 450 | 700 | 1300 | 2400 | 3500 | 5' | 3' | 38.5 | 91 | 2.67 | 2.88 | 3.23 | 4.58 |
| TR MB 130 3_20 | 450 | 700 | 1300 | 2900 | 3500 | 5' | 3' | 38.5 | 91 | 1.97 | 2.18 | 2.53 | 3.88 |
| TR MB 130 3_25 | 450 | 700 | 1300 | 2900 | 3500 | 5' | 3' | 38.5 | 91 | 1.94 | 2.15 | 2.50 | 3.85 |
| TR MB 130 3_28 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 91 | 1.34 | 1.55 | 1.90 | 3.25 |
| TR MB 130 3_30 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 38.5 | 91 | 1.00 | 1.21 | 1.56 | 2.91 |
| TR MB 130 3_35 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 91 | 1.33 | 1.53 | 1.88 | 3.24 |
| TR MB 130 3_36 | 380 | 600 | 1100 | 2900 | 3500 | 5' | 3' | 38.5 | 91 | 1.05 | 1.26 | 1.61 | 2.96 |
| TR MB 130 3_40 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 91 | 0.98 | 1.19 | 1.54 | 2.89 |
| TR MB 130 3_50 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 91 | 0.97 | 1.18 | 1.53 | 2.88 |
| TR MB 130 3_70 | 450 | 700 | 1300 | 3200 | 4000 | 5' | 3' | 38.5 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR MB 130 3_100 | 215 | 400 | 800 | 3200 | 4000 | 5' | 3' | 38.5 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR MB 130 4_48 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 89 | 2.77 | 2.98 | 3.33 | 4.68 |
| TR MB 130 4_64 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 89 | 2.65 | 2.86 | 3.21 | 4.56 |
| TR MB 130 4_75 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 89 | 2.03 | 2.24 | 2.59 | 3.94 |
| TR MB 130 4_80 | 450 | 700 | 1300 | 2400 | 3500 | 7' | 5' | 30.0 | 89 | 2.65 | 2.85 | 3.20 | 4.56 |
| TR MB 130 4_84 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 1.37 | 1.58 | 1.93 | 3.28 |
| TR MB 130 4_90 | 215 | 400 | 800 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 1.00 | 1.20 | 1.55 | 2.91 |
| TR MB 130 4_120 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.99 | 1.20 | 1.55 | 2.90 |
| TR MB 130 4_125 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 89 | 1.93 | 2.13 | 2.48 | 3.84 |
| TR MB 130 4_140 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 1.34 | 1.54 | 1.89 | 3.25 |
| TR MB 130 4_150 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.99 | 1.20 | 1.55 | 2.90 |
| TR MB 130 4_160 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.98 | 1.18 | 1.53 | 2.89 |
| TR MB 130 4_175 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 1.32 | 1.53 | 1.88 | 3.23 |
| TR MB 130 4_200 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.97 | 1.18 | 1.53 | 2.88 |
| TR MB 130 4_210 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.99 | 1.20 | 1.55 | 2.90 |
| TR MB 130 4_216 | 450 | 700 | 1300 | 2900 | 3500 | 7' | 5' | 30.0 | 89 | 1.05 | 1.26 | 1.61 | 2.96 |
| TR MB 130 4_250 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.97 | 1.18 | 1.53 | 2.88 |
| TR MB 130 4_280 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR MB 130 4_350 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR MB 130 4_400 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR MB 130 4_500 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR MB 130 4_700 | 450 | 700 | 1300 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| TR MB 130 4_1000 | 215 | 400 | 800 | 3200 | 4000 | 7' | 5' | 30.0 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |

# TR 160

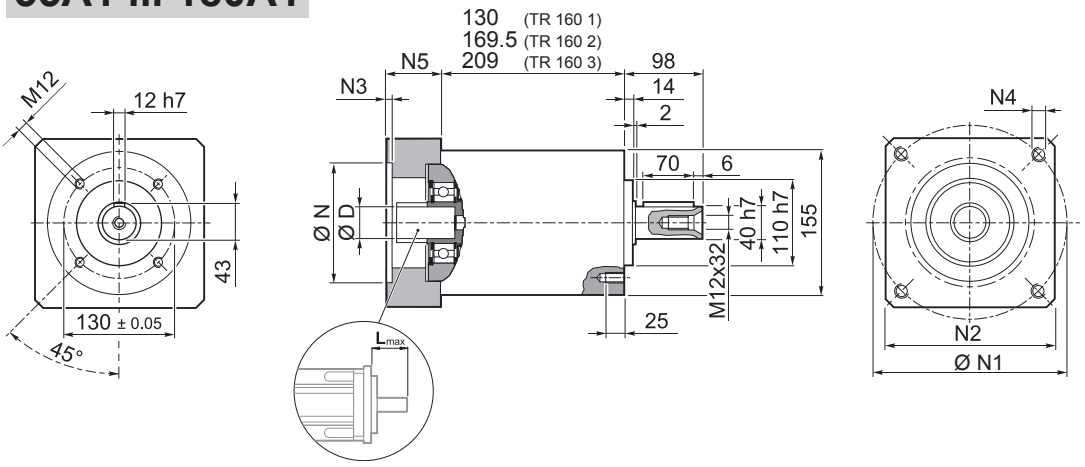
## IS




| | Kg |
|---|---|
| **TR 160 1** | 17.0 |
| **TR 160 2** | 21 |
| **TR 160 3** | 28 |



## 55A1 ... 180A1



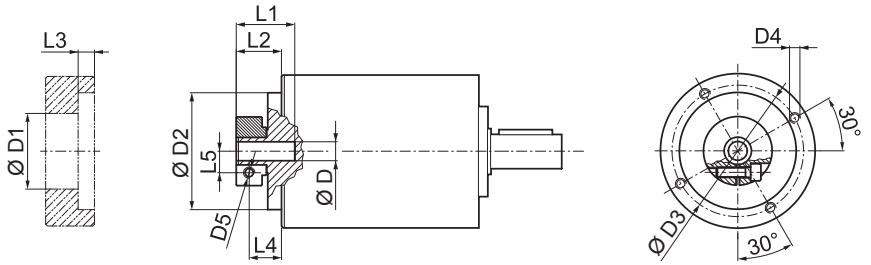

| | Kg |
|---|---|
| **TR 160 1** | 17.0 |
| **TR 160 2** | 21 |
| **TR 160 3** | 28 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 140 | 5 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 140 | 5 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 140 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 6.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 5 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR 160

**FM**

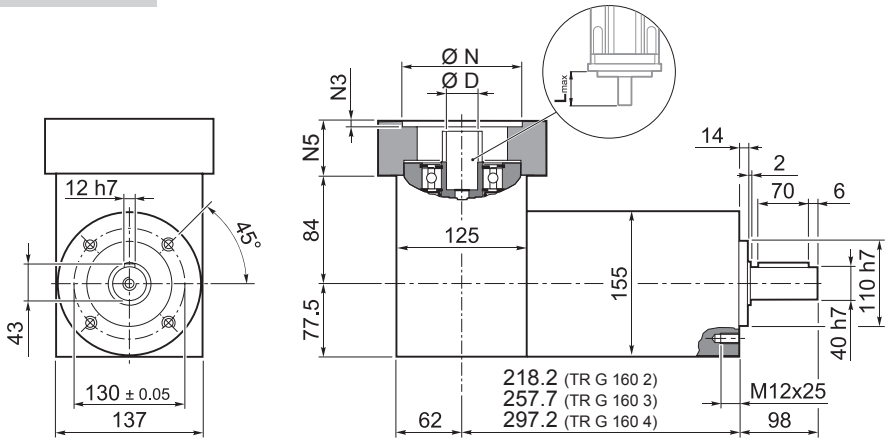


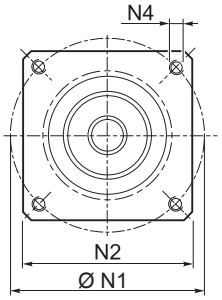

| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 130 | 142.5 | M8x16 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 130 | 142.5 | M8x16 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 130 | 142.5 | M8x16 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 130 | 142.5 | M8x16 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 130 | 142.5 | M8x16 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 130 | 142.5 | M8x16 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 130 | 142.5 | M8x16 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n2}$ | $M_{a2}$ | $M_{p2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{1\,max}$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | [N] | % | 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
| TR 160 1_3 | 350 | 660 | 1200 | 1900 | 3000 | 5' | 3' | 90 | 1200 | 6500 | 7500 | 97 | 8.39 | 8.60 | 8.95 | 10.30 |
| TR 160 1_4 | 500 | 750 | 1400 | 2200 | 3500 | 5' | 3' | 90 | 1200 | 6500 | 7500 | 97 | 4.68 | 4.89 | 5.24 | 6.59 |
| TR 160 1_5 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 90 | 1200 | 6500 | 7500 | 97 | 3.28 | 3.49 | 3.84 | 5.19 |
| TR 160 1_6 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 90 | 1200 | 6500 | 7500 | 97 | 1.32 | 1.53 | 1.88 | 3.23 |
| TR 160 1_7 | 500 | 750 | 1400 | 3000 | 4000 | 5' | 3' | 90 | 1200 | 6500 | 7500 | 97 | 2.03 | 2.24 | 2.59 | 3.94 |
| TR 160 1_10 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 90 | 1200 | 6500 | 7500 | 97 | 1.33 | 1.53 | 1.88 | 3.24 |
| TR 160 2_9 | 350 | 660 | 1200 | 1900 | 3000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 7.51 | 7.72 | 8.07 | 9.42 |
| TR 160 2_12 | 700 | 950 | 1800 | 1900 | 3000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 7.10 | 7.30 | 7.65 | 9.01 |
| TR 160 2_15 | 700 | 950 | 1800 | 1900 | 3000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 6.94 | 7.15 | 7.50 | 8.85 |
| TR 160 2_16 | 700 | 950 | 1800 | 2200 | 3500 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 3.95 | 4.16 | 4.51 | 5.86 |
| TR 160 2_20 | 700 | 950 | 1800 | 2500 | 3500 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 2.82 | 3.02 | 3.37 | 4.73 |
| TR 160 2_25 | 700 | 950 | 1800 | 2500 | 3500 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 2.76 | 2.97 | 3.32 | 4.67 |
| TR 160 2_28 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 1.79 | 2.00 | 2.35 | 3.70 |
| TR 160 2_30 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 1.25 | 1.46 | 1.81 | 3.16 |
| TR 160 2_35 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 1.77 | 1.97 | 2.32 | 3.68 |
| TR 160 2_36 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 1.06 | 1.27 | 1.62 | 2.97 |
| TR 160 2_40 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 1.21 | 1.42 | 1.77 | 3.12 |
| TR 160 2_50 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 1.20 | 1.40 | 1.75 | 3.11 |
| TR 160 2_70 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 1.18 | 1.39 | 1.74 | 3.09 |
| TR 160 2_100 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 83.5 | 1200 | 6500 | 7500 | 94 | 1.18 | 1.38 | 1.73 | 3.09 |
| TR 160 3_48 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 4.10 | 4.31 | 4.66 | 6.01 |
| TR 160 3_64 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 3.90 | 4.11 | 4.46 | 5.81 |
| TR 160 3_75 | 700 | 950 | 1800 | 2500 | 3500 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 2.91 | 3.11 | 3.46 | 4.82 |
| TR 160 3_80 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 3.90 | 4.11 | 4.46 | 5.81 |
| TR 160 3_84 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.84 | 2.05 | 2.40 | 3.75 |
| TR 160 3_90 | 350 | 660 | 1200 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.24 | 1.45 | 1.80 | 3.15 |
| TR 160 3_120 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.23 | 1.44 | 1.79 | 3.14 |
| TR 160 3_125 | 700 | 950 | 1800 | 2500 | 3500 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 2.74 | 2.95 | 3.30 | 4.65 |
| TR 160 3_140 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.78 | 1.98 | 2.33 | 3.69 |
| TR 160 3_150 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.23 | 1.44 | 1.79 | 3.14 |
| TR 160 3_160 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.20 | 1.41 | 1.76 | 3.11 |
| TR 160 3_175 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.76 | 1.96 | 2.31 | 3.67 |
| TR 160 3_200 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.20 | 1.41 | 1.76 | 3.11 |
| TR 160 3_210 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.23 | 1.44 | 1.79 | 3.14 |
| TR 160 3_250 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.19 | 1.40 | 1.75 | 3.10 |
| TR 160 3_280 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.39 | 1.74 | 3.09 |
| TR 160 3_350 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.39 | 1.74 | 3.09 |
| TR 160 3_400 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |
| TR 160 3_500 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |
| TR 160 3_700 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |
| TR 160 3_1000 | 350 | 660 | 1200 | 3000 | 4000 | 7' | 5' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |

# TR G 160

## 55A1 ... 180A1




| | Kg |
|---|---|
| **TR G 160 2** | 24 |
| **TR G 160 3** | 28 |
| **TR G 160 4** | 34 |

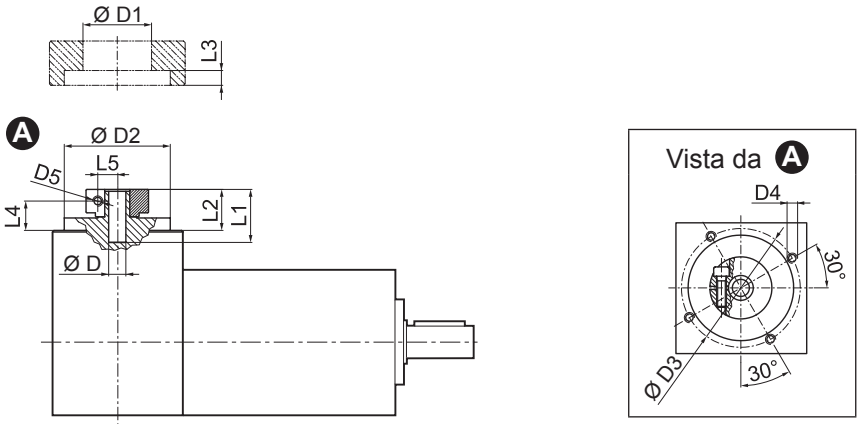
TR

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 140 | 5 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 140 | 5 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 140 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 6.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 5 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR G 160

**FM**

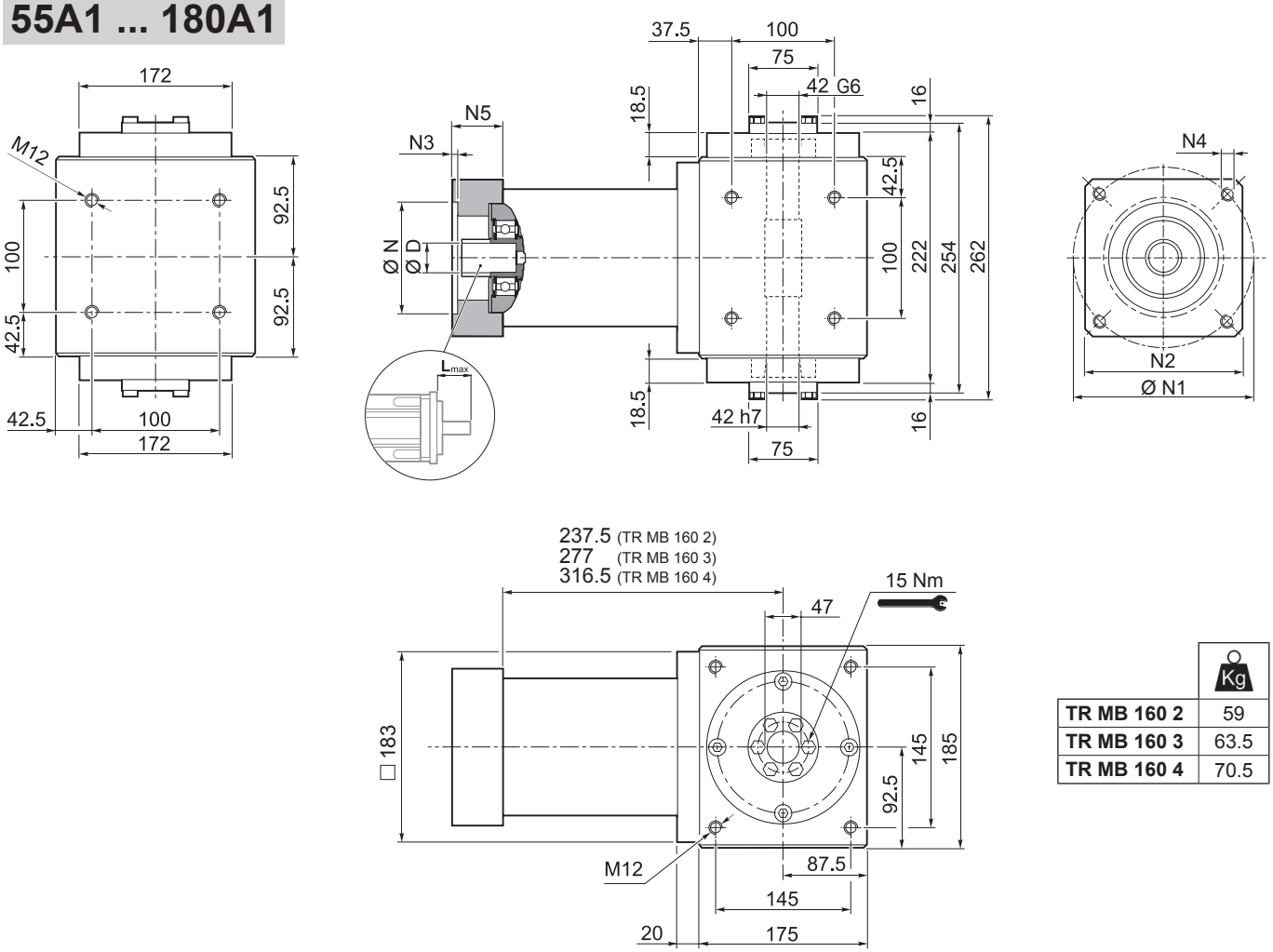



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n2}$ | $M_{a2}$ | $M_{p2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
| TR G 160 2_3 | 350 | 660 | 1200 | 1900 | 3000 | 5' | 3' | 90 | 6500 | 7500 | 94 | 10.23 | 10.42 | 10.80 | 13.51 |
| TR G 160 2_4 | 500 | 750 | 1400 | 2200 | 3500 | 5' | 3' | 90 | 6500 | 7500 | 94 | 6.52 | 6.71 | 7.09 | 9.80 |
| TR G 160 2_5 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 90 | 6500 | 7500 | 94 | 5.87 | 6.06 | 6.45 | 9.16 |
| TR G 160 2_6 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 90 | 6500 | 7500 | 94 | 4.58 | 4.77 | 5.16 | 7.86 |
| TR G 160 2_7 | 500 | 750 | 1400 | 3000 | 4000 | 5' | 3' | 90 | 6500 | 7500 | 94 | 5.29 | 5.48 | 5.87 | 8.57 |
| TR G 160 2_10 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 90 | 6500 | 7500 | 94 | 4.97 | 5.16 | 5.54 | 8.25 |
| TR G 160 3_9 | 350 | 660 | 1200 | 1900 | 3000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 9.35 | 9.54 | 9.92 | 12.63 |
| TR G 160 3_12 | 700 | 950 | 1800 | 1900 | 3000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 8.78 | 8.97 | 9.36 | 12.07 |
| TR G 160 3_15 | 700 | 950 | 1800 | 1900 | 3000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 8.71 | 8.90 | 9.29 | 11.99 |
| TR G 160 3_16 | 700 | 950 | 1800 | 2200 | 3500 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 5.79 | 5.98 | 6.36 | 9.07 |
| TR G 160 3_20 | 700 | 950 | 1800 | 2500 | 3500 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 5.41 | 6.20 | 6.59 | 9.30 |
| TR G 160 3_25 | 700 | 950 | 1800 | 2500 | 3500 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 5.95 | 5.54 | 5.93 | 8.64 |
| TR G 160 3_28 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 5.05 | 5.24 | 5.63 | 8.33 |
| TR G 160 3_30 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 4.89 | 5.09 | 5.47 | 8.18 |
| TR G 160 3_35 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 5.36 | 5.54 | 5.93 | 8.64 |
| TR G 160 3_36 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 4.32 | 4.51 | 4.90 | 7.60 |
| TR G 160 3_40 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 5.00 | 5.19 | 5.58 | 8.28 |
| TR G 160 3_50 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 4.99 | 5.18 | 5.56 | 8.27 |
| TR G 160 3_70 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 4.82 | 5.02 | 5.40 | 8.11 |
| TR G 160 3_100 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 83.5 | 6500 | 7500 | 91 | 4.82 | 5.01 | 5.39 | 8.10 |
| TR G 160 4_48 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 6500 | 7500 | 89 | 5.94 | 6.13 | 6.53 | 9.22 |
| TR G 160 4_64 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 6500 | 7500 | 89 | 5.74 | 5.93 | 6.31 | 9.02 |
| TR G 160 4_75 | 700 | 950 | 1800 | 2500 | 3500 | 7' | 5' | 60 | 6500 | 7500 | 89 | 5.50 | 5.68 | 6.07 | 8.79 |
| TR G 160 4_80 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 6500 | 7500 | 89 | 5.74 | 5.93 | 6.31 | 9.02 |
| TR G 160 4_84 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 5.10 | 5.29 | 5.68 | 8.38 |
| TR G 160 4_90 | 350 | 660 | 1200 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.88 | 5.08 | 5.46 | 8.17 |
| TR G 160 4_120 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.87 | 5.07 | 5.45 | 8.16 |
| TR G 160 4_125 | 700 | 950 | 1800 | 2500 | 3500 | 7' | 5' | 60 | 6500 | 7500 | 89 | 5.33 | 5.52 | 5.91 | 8.62 |
| TR G 160 4_140 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 5.04 | 5.22 | 5.61 | 8.32 |
| TR G 160 4_150 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.87 | 5.07 | 5.45 | 8.16 |
| TR G 160 4_160 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.84 | 5.04 | 5.42 | 8.13 |
| TR G 160 4_175 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 5.02 | 5.20 | 5.59 | 8.30 |
| TR G 160 4_200 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.84 | 5.04 | 5.42 | 8.13 |
| TR G 160 4_210 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.87 | 5.07 | 5.45 | 8.16 |
| TR G 160 4_250 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.83 | 5.03 | 5.41 | 8.12 |
| TR G 160 4_280 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.82 | 5.02 | 5.40 | 8.11 |
| TR G 160 4_350 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.82 | 2.05 | 5.40 | 8.11 |
| TR G 160 4_400 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.82 | 5.01 | 5.39 | 8.11 |
| TR G 160 4_500 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.82 | 5.01 | 5.39 | 8.11 |
| TR G 160 4_700 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.82 | 5.01 | 5.39 | 8.11 |
| TR G 160 4_1000 | 350 | 660 | 1200 | 3000 | 4000 | 7' | 5' | 60 | 6500 | 7500 | 89 | 4.82 | 5.01 | 5.39 | 8.11 |

# TR MB 160

## 55A1 ... 180A1



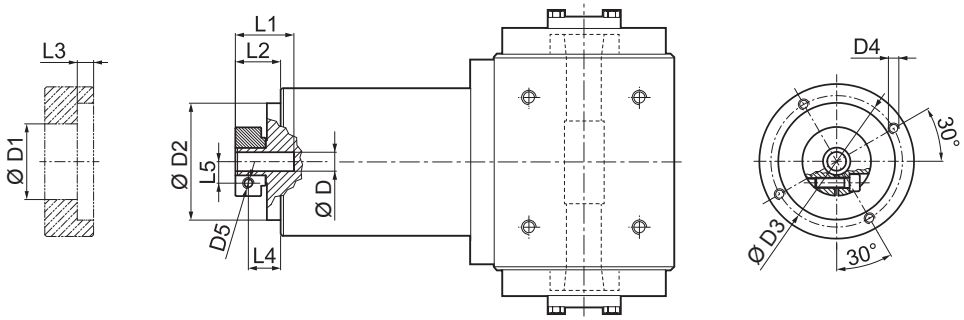

| | Kg |
|---|---|
| **TR MB 160 2** | 59 |
| **TR MB 160 3** | 63.5 |
| **TR MB 160 4** | 70.5 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 140 | 5 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 140 | 5 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 140 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 6.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 5 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TR MB 160

**FM**

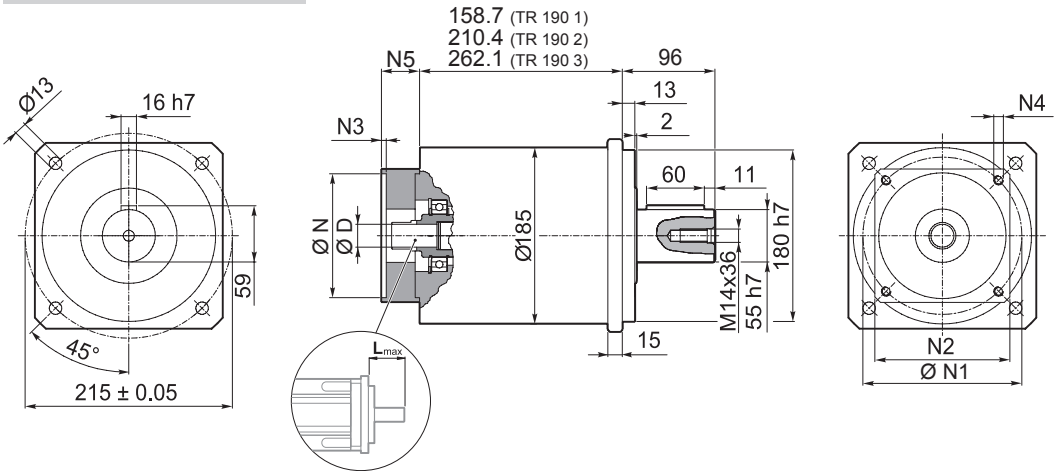



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 130 | 142.5 | M8x16 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 130 | 142.5 | M8x16 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 130 | 142.5 | M8x16 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 130 | 142.5 | M8x16 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 130 | 142.5 | M8x16 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 130 | 142.5 | M8x16 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 130 | 142.5 | M8x16 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | % | 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
| TR MB 160 2_3 | 350 | 660 | 1200 | 1900 | 3000 | 5' | 3' | 90 | 94 | 8.39 | 8.60 | 8.95 | 10.30 |
| TR MB 160 2_4 | 500 | 750 | 1400 | 2200 | 3500 | 5' | 3' | 90 | 94 | 4.68 | 4.89 | 5.24 | 6.59 |
| TR MB 160 2_5 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 90 | 94 | 3.28 | 3.49 | 3.84 | 5.19 |
| TR MB 160 2_6 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 90 | 94 | 1.32 | 1.53 | 1.88 | 3.23 |
| TR MB 160 2_7 | 500 | 750 | 1400 | 3000 | 4000 | 5' | 3' | 90 | 94 | 2.03 | 2.24 | 2.59 | 3.94 |
| TR MB 160 2_10 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 90 | 94 | 1.33 | 1.53 | 1.88 | 3.24 |
| TR MB 160 3_9 | 350 | 660 | 1200 | 1900 | 3000 | 5' | 3' | 83 | 91 | 7.51 | 7.72 | 8.07 | 9.42 |
| TR MB 160 3_12 | 700 | 950 | 1800 | 1900 | 3000 | 5' | 3' | 83 | 91 | 7.10 | 7.30 | 7.65 | 9.01 |
| TR MB 160 3_15 | 700 | 950 | 1800 | 1900 | 3000 | 5' | 3' | 83 | 91 | 6.94 | 7.15 | 7.50 | 8.85 |
| TR MB 160 3_16 | 700 | 950 | 1800 | 2200 | 3500 | 5' | 3' | 83 | 91 | 3.95 | 4.16 | 4.51 | 5.86 |
| TR MB 160 3_20 | 700 | 950 | 1800 | 2500 | 3500 | 5' | 3' | 83 | 91 | 2.82 | 3.02 | 3.37 | 4.73 |
| TR MB 160 3_25 | 700 | 950 | 1800 | 2500 | 3500 | 5' | 3' | 83 | 91 | 2.76 | 2.97 | 3.32 | 4.67 |
| TR MB 160 3_28 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83 | 91 | 1.79 | 2.00 | 2.35 | 3.70 |
| TR MB 160 3_30 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 83 | 91 | 1.25 | 1.46 | 1.81 | 3.16 |
| TR MB 160 3_35 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83 | 91 | 1.77 | 1.97 | 2.32 | 3.68 |
| TR MB 160 3_36 | 500 | 750 | 1400 | 2500 | 3500 | 5' | 3' | 83 | 91 | 1.06 | 1.27 | 1.62 | 2.97 |
| TR MB 160 3_40 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83 | 91 | 1.21 | 1.42 | 1.77 | 3.12 |
| TR MB 160 3_50 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83 | 91 | 1.20 | 1.40 | 1.75 | 3.11 |
| TR MB 160 3_70 | 700 | 950 | 1800 | 3000 | 4000 | 5' | 3' | 83 | 91 | 1.18 | 1.39 | 1.74 | 3.09 |
| TR MB 160 3_100 | 350 | 660 | 1200 | 3000 | 4000 | 5' | 3' | 83 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |
| TR MB 160 4_48 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 89 | 4.10 | 4.31 | 4.66 | 6.01 |
| TR MB 160 4_64 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 89 | 3.90 | 4.11 | 4.46 | 5.81 |
| TR MB 160 4_75 | 700 | 950 | 1800 | 2500 | 3500 | 7' | 5' | 60 | 89 | 2.91 | 3.11 | 3.46 | 4.82 |
| TR MB 160 4_80 | 700 | 950 | 1800 | 2200 | 3500 | 7' | 5' | 60 | 89 | 3.90 | 4.11 | 4.46 | 5.81 |
| TR MB 160 4_84 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.84 | 2.05 | 2.40 | 3.75 |
| TR MB 160 4_90 | 350 | 660 | 1200 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.24 | 1.45 | 1.80 | 3.15 |
| TR MB 160 4_120 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.23 | 1.44 | 1.79 | 3.14 |
| TR MB 160 4_125 | 700 | 950 | 1800 | 2500 | 3500 | 7' | 5' | 60 | 89 | 2.74 | 2.95 | 3.30 | 4.65 |
| TR MB 160 4_140 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.78 | 1.98 | 2.33 | 3.69 |
| TR MB 160 4_150 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.23 | 1.44 | 1.79 | 3.14 |
| TR MB 160 4_160 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.20 | 1.41 | 1.76 | 3.11 |
| TR MB 160 4_175 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.76 | 1.96 | 2.31 | 3.67 |
| TR MB 160 4_200 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.20 | 1.41 | 1.76 | 3.11 |
| TR MB 160 4_210 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.23 | 1.44 | 1.79 | 3.14 |
| TR MB 160 4_250 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.19 | 1.40 | 1.75 | 3.10 |
| TR MB 160 4_280 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.18 | 1.39 | 1.74 | 3.09 |
| TR MB 160 4_350 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.18 | 1.39 | 1.74 | 3.09 |
| TR MB 160 4_400 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.18 | 1.38 | 1.73 | 3.09 |
| TR MB 160 4_500 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.18 | 1.38 | 1.73 | 3.09 |
| TR MB 160 4_700 | 700 | 950 | 1800 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.18 | 1.38 | 1.73 | 3.09 |
| TR MB 160 4_1000 | 350 | 660 | 1200 | 3000 | 4000 | 7' | 5' | 60 | 89 | 1.18 | 1.38 | 1.73 | 3.09 |

# TR 190

## 55A1 ... 180A1



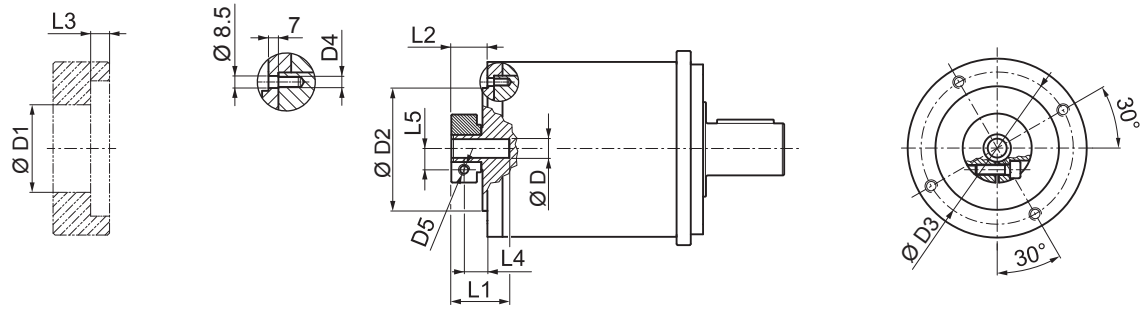

| | Kg |
|---|---|
| **TR 190 1** | 25 |
| **TR 190 2** | 29 |
| **TR 190 3** | 34 |

TR

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 16 | 19 | – | – | – | – | – | – | – | – | – | 55.5 | 125.7 | 140 | 5 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 16 | 19 | – | – | – | | | | – | – | – | 80 | 100 | 140 | 5 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 16 | 19 | 22 | 24 | – | – | – | – | – | – | – | 95 | 115 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 16 | 19 | 22 | 24 | – | – | – | – | – | – | – | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 16 | 19 | 22 | 24 | – | – | – | – | – | – | – | 110 | 145 | 140 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 42 | 45 | 48 | 114.3 | 200 | 170 | 6.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 16 | 19 | 22 | 24 | – | – | – | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | – | – | – | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 42 | 45 | 48 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |

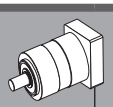
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

## FM




| D | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 16 | 48 | 130 | 142.5 | M8x14 | M6 | 45.5 | 27.5 | 6 | 20 | 14.5 |
| 19 | | 51 | 130 | 142.5 | M8x14 | M6 | 45.5 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | 56.5 | 130 | 142.5 | M8x14 | M6 | 47 | 29 | 6 | 20 | 19 |
| 28 | | 67 | 130 | 142.5 | M8x14 | M8 | 47 | 29 | 6 | 20 | 22.5 |
| 32 | | 71 | 130 | 142.5 | M8x14 | M8 | 47 | 29 | 6 | 20 | 24.5 |
| 35 | | 73 | 130 | 142.5 | M8x14 | M8 | 54.5 | 36.5 | 6 | 25 | 26 |
| 38 | | 77.5 | 130 | 142.5 | M8x14 | M8 | 54.5 | 36.5 | 6 | 25 | 28 |
| 42 | | 92 | 130 | 142.5 | M8x14 | M10 | 60.5 | 40 | 6 | 25 | 33 |
| 45 | | 95 | 130 | 142.5 | M8x14 | M10 | 60.5 | 40 | 6 | 25 | 33 |
| 48 | | 97 | 130 | 142.5 | M8x14 | M10 | 60.5 | 40 | 6 | 25 | 33 |

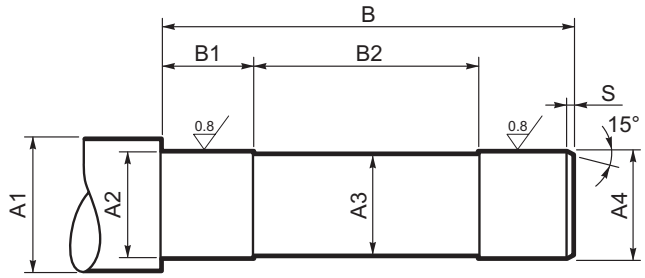
# TR 190

|  i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | $\left[\frac{Nm}{arcmin}\right]$ | [N] | [N] | % | 14 ... 24 | 28 - 32 | 35 - 35 | 42 | 45 - 48 |
| TR 190 1_3 | 500 | 800 | 1400 | 1500 | 2500 | 5' | 3' | 130 | 14000 | 15000 | 97 | 24.20 | 24.88 | 25.65 | 29.30 | 29.90 |
| TR 190 1_4 | 700 | 950 | 1800 | 2100 | 3000 | 5' | 3' | 130 | 14000 | 15000 | 97 | 13.41 | 14.09 | 14.85 | 18.51 | 19.11 |
| TR 190 1_5 | 700 | 950 | 1800 | 2300 | 3000 | 5' | 3' | 130 | 14000 | 15000 | 97 | 9.32 | 10.00 | 10.77 | 14.42 | 15.02 |
| TR 190 1_6 | 700 | 950 | 1800 | 2300 | 3000 | 5' | 3' | 130 | 14000 | 15000 | 97 | 2.88 | 3.56 | 4.33 | 7.98 | 8.58 |
| TR 190 1_7 | 700 | 950 | 1800 | 2900 | 3500 | 5' | 3' | 130 | 14000 | 15000 | 97 | 5.68 | 6.36 | 7.13 | 10.78 | 11.38 |
| TR 190 1_10 | 500 | 800 | 1400 | 2900 | 3500 | 5' | 3' | 130 | 14000 | 15000 | 97 | 3.57 | 4.25 | 5.02 | 8.67 | 9.27 |
| TR 190 2_9 | 500 | 800 | 1400 | 1500 | 2500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 23.23 | 23.91 | 24.67 | 28.33 | 28.93 |
| TR 190 2_12 | 1000 | 1200 | 2200 | 1500 | 2500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 22.03 | 22.71 | 23.48 | 27.13 | 27.73 |
| TR 190 2_15 | 1000 | 1200 | 2200 | 1500 | 2500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 21.58 | 22.25 | 23.02 | 26.68 | 27.27 |
| TR 190 2_16 | 1000 | 1200 | 2200 | 2100 | 3000 | 5' | 3' | 100 | 14000 | 15000 | 94 | 12.19 | 12.86 | 13.63 | 17.29 | 17.89 |
| TR 190 2_20 | 1000 | 1200 | 2200 | 2300 | 3000 | 5' | 3' | 100 | 14000 | 15000 | 94 | 8.54 | 9.22 | 9.98 | 13.64 | 14.24 |
| TR 190 2_25 | 1000 | 1200 | 2200 | 2300 | 3000 | 5' | 3' | 100 | 14000 | 15000 | 94 | 8.37 | 9.05 | 9.82 | 13.48 | 14.07 |
| TR 190 2_28 | 1000 | 1200 | 2200 | 2900 | 3500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 5.28 | 5.96 | 6.73 | 10.38 | 10.98 |
| TR 190 2_30 | 500 | 800 | 1400 | 2900 | 3500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 3.48 | 4.16 | 4.93 | 8.58 | 9.18 |
| TR 190 2_35 | 1000 | 1200 | 2200 | 2900 | 3500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 5.20 | 5.87 | 6.64 | 10.30 | 10.90 |
| TR 190 2_36 | 700 | 950 | 1800 | 2300 | 3000 | 5' | 3' | 100 | 14000 | 15000 | 94 | 2.18 | 2.86 | 3.63 | 7.28 | 7.88 |
| TR 190 2_40 | 1000 | 1200 | 2200 | 2900 | 3500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 3.37 | 4.05 | 4.82 | 8.48 | 9.07 |
| TR 190 2_50 | 1000 | 1200 | 2200 | 2900 | 3500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 3.33 | 4.01 | 4.78 | 8.44 | 9.03 |
| TR 190 2_70 | 1000 | 1200 | 2200 | 2900 | 3500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 3.30 | 3.97 | 4.74 | 8.40 | 9.00 |
| TR 190 2_100 | 500 | 800 | 1400 | 2900 | 3500 | 5' | 3' | 100 | 14000 | 15000 | 94 | 3.28 | 3.95 | 4.72 | 8.38 | 8.98 |
| TR 190 3_48 | 1000 | 1200 | 2200 | 2100 | 3000 | 7' | 5' | 90 | 14000 | 15000 | 91 | 12.73 | 13.40 | 14.17 | 17.83 | 18.43 |
| TR 190 3_64 | 1000 | 1200 | 2200 | 2100 | 3000 | 7' | 5' | 90 | 14000 | 15000 | 91 | 12.10 | 12.78 | 13.55 | 17.21 | 17.80 |
| TR 190 3_75 | 1000 | 1200 | 2200 | 2300 | 3000 | 7' | 5' | 90 | 14000 | 15000 | 91 | 8.86 | 9.54 | 10.31 | 13.97 | 14.56 |
| TR 190 3_80 | 1000 | 1200 | 2200 | 2100 | 3000 | 7' | 5' | 90 | 14000 | 15000 | 91 | 12.09 | 12.76 | 13.53 | 17.19 | 17.79 |
| TR 190 3_84 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 5.46 | 6.13 | 6.90 | 10.56 | 11.16 |
| TR 190 3_90 | 500 | 800 | 1400 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.47 | 4.15 | 4.92 | 8.57 | 9.17 |
| TR 190 3_120 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.46 | 4.14 | 4.91 | 8.56 | 9.16 |
| TR 190 3_125 | 1000 | 1200 | 2200 | 2300 | 3000 | 7' | 5' | 90 | 14000 | 15000 | 91 | 8.34 | 9.01 | 9.78 | 13.44 | 14.04 |
| TR 190 3_140 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 5.25 | 5.92 | 6.69 | 10.35 | 10.95 |
| TR 190 3_150 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.46 | 4.13 | 4.90 | 8.56 | 9.15 |
| TR 190 3_160 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.36 | 4.04 | 4.81 | 8.46 | 9.06 |
| TR 190 3_175 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 5.18 | 5.85 | 6.62 | 10.28 | 10.88 |
| TR 190 3_200 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.36 | 4.03 | 4.80 | 8.46 | 9.06 |
| TR 190 3_210 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.45 | 4.13 | 4.90 | 8.55 | 9.15 |
| TR 190 3_250 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.32 | 4.00 | 4.77 | 8.42 | 9.02 |
| TR 190 3_280 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.29 | 3.97 | 4.74 | 8.39 | 8.99 |
| TR 190 3_350 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.29 | 3.97 | 4.74 | 8.39 | 8.99 |
| TR 190 3_400 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.27 | 3.95 | 4.72 | 8.38 | 8.97 |
| TR 190 3_500 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.27 | 3.95 | 4.72 | 8.38 | 8.97 |
| TR 190 3_700 | 1000 | 1200 | 2200 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.27 | 3.95 | 4.72 | 8.38 | 8.97 |
| TR 190 3_1000 | 500 | 800 | 1400 | 2900 | 3500 | 7' | 5' | 90 | 14000 | 15000 | 91 | 3.27 | 3.95 | 4.72 | 8.38 | 8.97 |

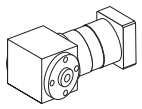
### *5.3.1 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE*

Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Suggeriamo inoltre di completare il montaggio con un dispositivo che garantisca il bloccaggio assiale dell'albero (non illustrato).
Il numero e la dimensione del/i relativi fori all'estremità dell'albero saranno determinati dalle diverse esigenze applicative.

**MB**

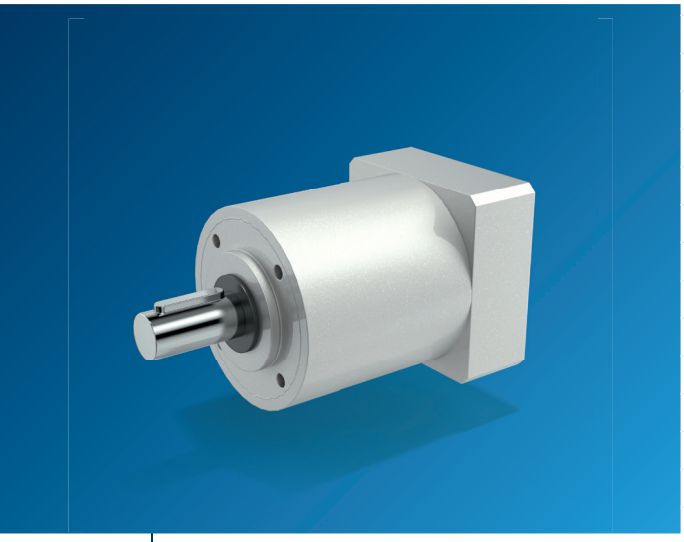





|  | A1 | A2 | A3 | A4 | B | B1 | B2 | S |
|---|---|---|---|---|---|---|---|---|
| **TR MB 080** | ≥ 25 | 20 h7 | 18 | 20 h7 | 178 | 50 | 90 | 1 |
| **TR MB 105** | ≥ 40 | 32 h7 | 30 | 32 h7 | 205 | 60 | 115 | |
| **TR MB 130/160** | ≥ 50 | 42 h7 | 40 | 42 h7 | 259 | 70 | 140 | |

# Linea Performance

(P)



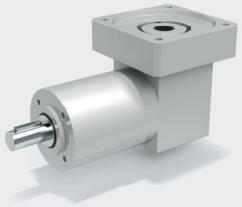
## Serie MP

La serie MP è caratterizzata da un ampio intervallo di coppia e elevata modularità grazie alle molteplici configurazioni e grandezze, vasta gamma di rapporti e diverse opzioni di lubrificazione, che garantiscono elevata affidabilità e la risposta più adatta a diversi requisiti applicativi.

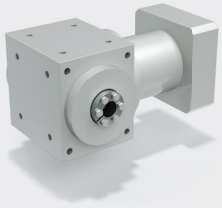


## Altre versioni

- Versione K/G



- Versione MB



## Vantaggi principali

- Ampio intervallo di coppia
- Capacità di sovraccarico elevata
- Flessibilità elevata grazie ad un'ampia gamma di rapporti e a molteplici configurazioni

## Caratteristiche principali

- Coppia nominale in uscita (Nm)

12 - 1.000

- Gioco torsionale (arcmin)

10 - 17

- Rigidezza torsionale (Nm)

0,7 - 130

- Momento di ribaltamento (Nm)

16 - 1.683

## Grado di protezione

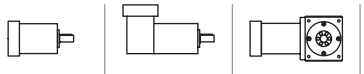
- IP65

## Grandezze

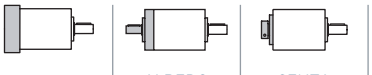
- 53
- 60
- 80
- 105
- 130
- 160
- 190

## Opzioni principali

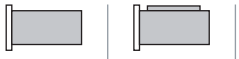
- Versioni del design




- Versioni con ingresso




- Versioni alberi di uscita




- Tipo di servizio


- Lubrificazione


- Versioni dei cuscinetti

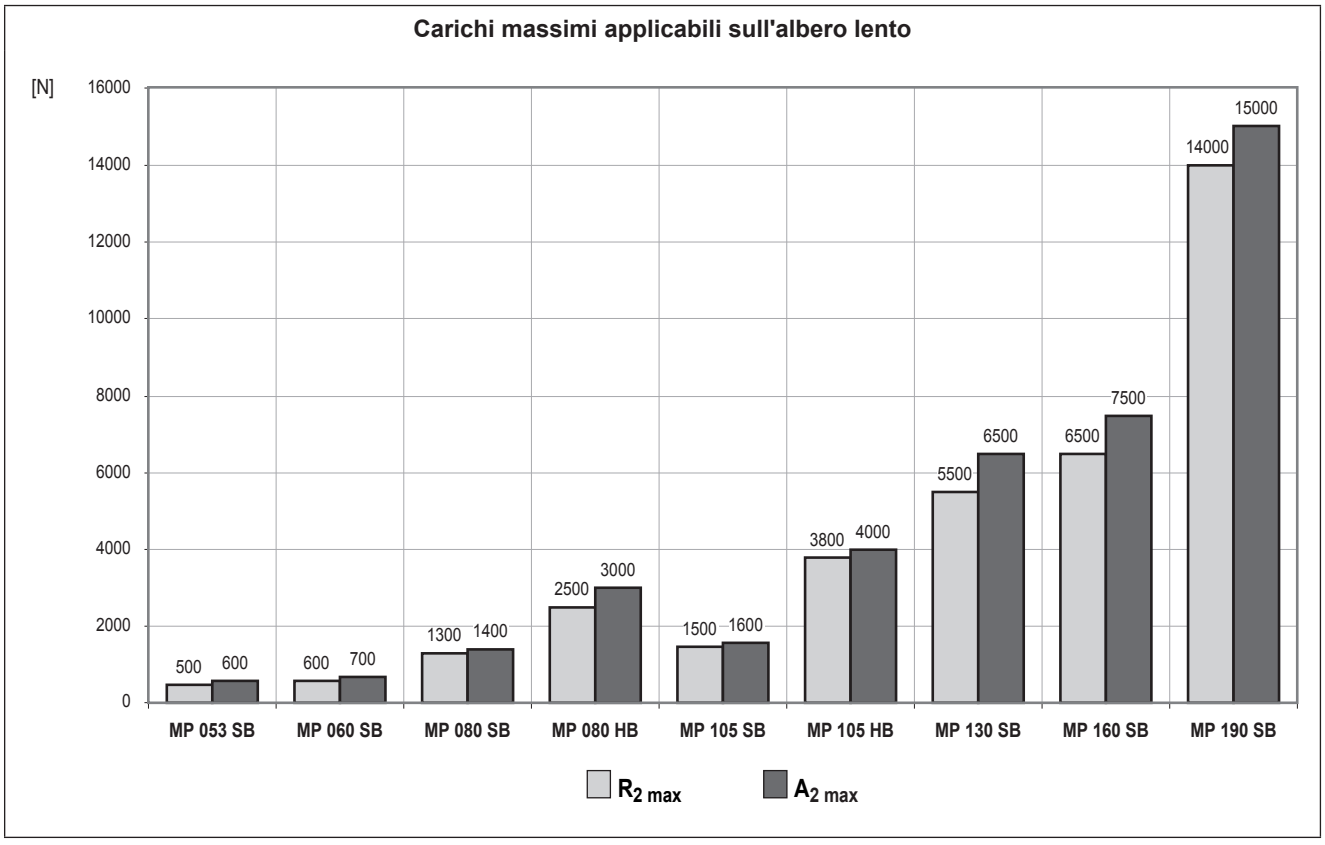
## 6 CARATTERISTICHE DELLA SERIE MP

I riduttori epicicloidali a gioco ridotto della serie MP costituiscono una gamma assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio senza la richiesta di particolari interventi di manutenzione.
L'accoppiamento al motore è operazione che non richiede alcuna attrezzatura specifica, se non quella normalmente reperibile in un'officina.

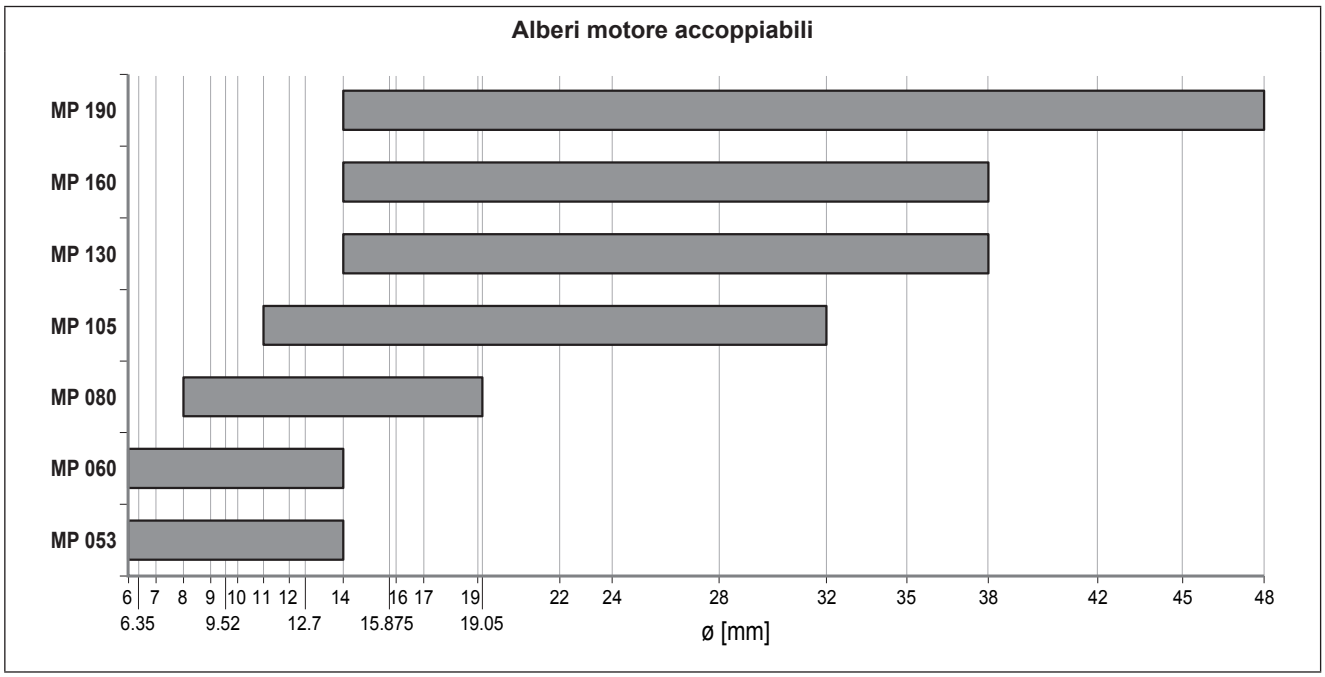
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
  1 stadio di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 10'$
  2 stadi di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 10'$
  3 stadi di riduzione (solo G e MB): standard $\varphi_R \leq 15'$; ridotto $\varphi_R \leq 10'$
  3 stadi di riduzione: standard $\varphi_S \leq 17'$; ridotto $\varphi_R \leq 12'$
  4 stadi di riduzione (solo G e MB): standard $\varphi_S \leq 17'$; ridotto $\varphi_R \leq 12'$
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero fornite per il ciclo intermittente S5.
- Livello di rumorosità $L_P \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 $min^{-1}$; i=10.
- Cuscinetti dimensionati per una durata media di 20000 ore, in condizioni di funzionamento nominale. La tabella sottostante illustra le tipologie di cuscinetti dell'asse lento.



| | MP 053 | MP 060 | MP 080 | MP 105 | MP 130 | MP 160 | MP 190 |
|---|---|---|---|---|---|---|---|
| SB |  |  |  |  |  |  |  |
| HB | | |  |  | | | |



- Ampia possibilità di configurazione lato accoppiamento motore.




- Lubrificazione ottimale in funzione del tipo di servizio specificato.
  In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

| tipo di servizio | MP 053 - MP 060 | MP 080 ... MP 190 | anelli di tenuta |
|---|---|---|---|
| **S1** (continuo) | NLGI grasso con grado di consistenza 00 | Olio sintetico viscosità ISO VG 220 | Fluoro-elastomero |
| **S5** (intermittente) | | NLGI grasso con grado di consistenza 00 | NBR |

- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$.
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C.

**Distribuzione coppia nominale** $M_{n2}$ [Nm]

| [i] | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 12 | 15 | 16 | 20 | 25 | 28 | 30 | 35 | 36 | 40 | 45 | 48 | 50 | 60 | 64 | 70 | 75 | 80 | 81 | 84 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MP 053** | 12 | 15 | 15 | 15 | 15 | 12 | – | 20 | 20 | 20 | 20 | 20 | 20 | – | 20 | 15 | – | 20 | 20 | – | 20 | 20 | – | 20 | 20 | 12 | 20 | – |
| **MP 060** | 18 | 25 | 25 | 25 | 25 | 18 | 18 | 30 | 30 | 30 | 30 | 30 | 30 | 18 | 30 | 25 | 30 | – | 30 | 30 | – | 30 | 30 | 30 | 30 | – | 30 | 18 |
| **MP 080** | 40 | 50 | 50 | 50 | 50 | 40 | 40 | 70 | 70 | 70 | 70 | 70 | 70 | 40 | 70 | 50 | 70 | – | 70 | 70 | – | 70 | 70 | 70 | 70 | – | 70 | 40 |
| **MP 105** | 100 | 140 | 140 | 140 | 140 | 100 | 100 | 170 | 170 | 170 | 170 | 170 | 170 | 100 | 170 | 140 | 170 | – | 170 | 170 | – | 170 | 170 | 170 | 170 | – | 170 | 100 |
| **MP 130** | 215 | 380 | 380 | 380 | 380 | 215 | 215 | 450 | 450 | 450 | 450 | 450 | 450 | 215 | 450 | 380 | 450 | – | 450 | 450 | – | 450 | 450 | 450 | 450 | – | 450 | 215 |
| **MP 160** | 350 | 500 | 500 | 500 | 500 | 350 | 350 | 700 | 700 | 700 | 700 | 700 | 700 | 350 | 700 | 500 | 700 | – | 700 | 700 | – | 700 | 700 | 700 | 700 | – | 700 | 350 |
| **MP 190** | 500 | 700 | 700 | 700 | 700 | 500 | 500 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 500 | 1000 | 700 | 1000 | – | 1000 | 1000 | – | 1000 | 1000 | 1000 | 1000 | – | 1000 | 500 |

| [i] | 100 | 112 | 120 | 125 | 140 | 144 | 150 | 160 | 175 | 180 | 200 | 210 | 216 | 225 | 245 | 250 | 252 | 280 | 324 | 350 | 400 | 405 | 500 | 567 | 700 | 729 | 1000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MP 053** | 20 | 20 | – | 20 | 20 | 20 | – | – | 20 | 20 | – | – | 20 | 20 | 20 | – | 20 | – | 20 | – | – | 20 | – | 20 | – | 12 | – |
| **MP 060** | 18 | – | 30 | 30 | 30 | – | 30 | 30 | 30 | – | 30 | 30 | 30 | – | – | 30 | – | 30 | – | 30 | 30 | – | 30 | – | 30 | – | 18 |
| **MP 080** | 40 | – | 70 | 70 | 70 | – | 70 | 70 | 70 | – | 70 | 70 | 70 | – | – | 70 | – | 70 | – | 70 | 70 | – | 70 | – | 70 | – | 40 |
| **MP 105** | 100 | – | 170 | 170 | 170 | – | 170 | 170 | 170 | – | 170 | 170 | 170 | – | – | 170 | – | 170 | – | 170 | 170 | – | 170 | – | 170 | – | 100 |
| **MP 130** | 215 | – | 450 | 450 | 450 | – | 450 | 450 | 450 | – | 450 | 450 | 450 | – | – | 450 | – | 450 | – | 450 | 450 | – | 450 | – | 450 | – | 215 |
| **MP 160** | 700 | – | 350 | 700 | 700 | – | 700 | 700 | 700 | – | 700 | 700 | – | – | – | 700 | – | 700 | – | 700 | 700 | – | 700 | – | 700 | – | 350 |
| **MP 190** | 1000 | – | 500 | 1000 | 1000 | – | 1000 | 1000 | 1000 | – | 1000 | 1000 | – | – | – | 1000 | – | 1000 | – | 1000 | 1000 | – | 1000 | – | 1000 | – | 500 |

### 6.1 CODICE ORDINATIVO

**MP G 080 3 20 STD 95A CD 19 S1 OR SB KL UH1**

LUBRIFICANTE
- **–** standard
- **UH1** lubrificante sintetico ad uso alimentare

CONFIGURAZIONE ALBERO LENTO
- **KL** albero liscio
- **KE** albero con linguetta (⛔ MB)

SUPPORTAZIONE ALBERO LENTO
- **SB** standard
- **HB** rinforzata (MP 080 - MP 105) (⛔ MB)

POSIZIONE DI MONTAGGIO
- **OR** orizzontale
- **VA** verticale con motore in alto
- **VB** verticale con motore in basso

TIPO DI SERVIZIO
- **S1** servizio continuo
- **S5** servizio intermittente

DIAMETRO FORO PER ALBERO MOTORE
- **6 ... 48** (⛔ IS)

TIPO DI CALETTAMENTO ALBERO MOTORE
- **CD** morsetto di serraggio (⛔ IS)

SEZIONE DI INGRESSO
- **25AH ... 180A1** predisposizione motore
- **IS** albero veloce sporgente (TR 053 ... TR 160) (⛔ K, G, MB)
- **FM** senza adattatore in ingresso

GIOCO ANGOLARE

| | 1 stadio | 2 stadi | 3 stadi (solo K, G, MB) | 3 stadi | 4 stadi (solo K, G, MB) |
|---|---|---|---|---|---|
| **STD** | $\varphi_S \leq 15'$ | $\varphi_S \leq 15'$ | $\varphi_S \leq 15'$ | $\varphi_S \leq 17'$ | $\varphi_S \leq 17'$ |
| **LOW** | $\varphi_R \leq 10'$ | $\varphi_R \leq 10'$ | $\varphi_R \leq 10'$ | $\varphi_R \leq 12'$ | $\varphi_R \leq 12'$ |

RAPPORTO DI TRASMISSIONE

STADI DI RIDUZIONE
- **1** **2** **3** **4**

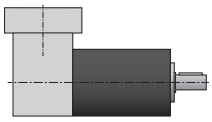
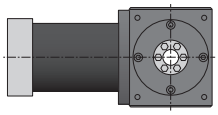
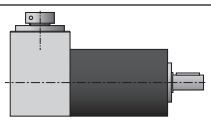
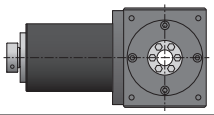
GRANDEZZA
- **053** **060** **080** **105** **130** **160** **190**

FORMA COSTRUTTIVA
- **–** coassiale
- **K** con stadio ortogonale in ingresso (MP 053 ... MP 060)
- **G** con stadio ortogonale in ingresso (MP 080 ... MP 160)
- **MB** con stadio ortogonale in uscita (MP 080 ... MP 160)

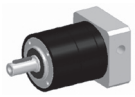
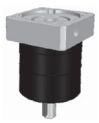
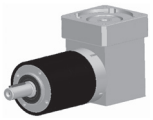
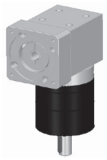
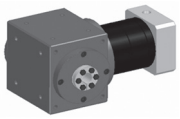
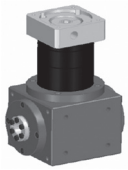
SERIE
- **MP**

MP

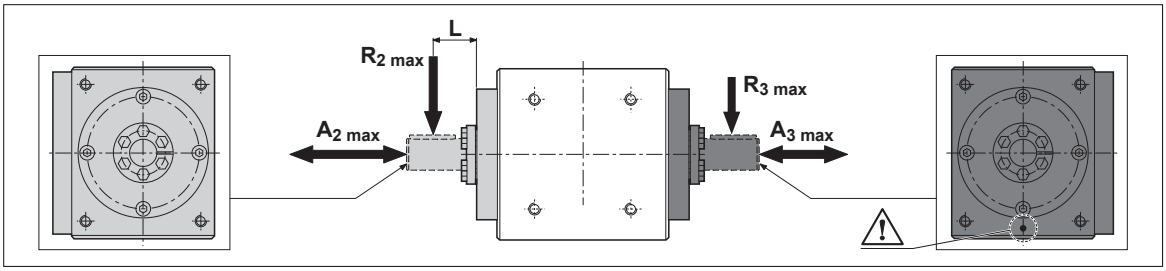
### 6.1.1 FORME COSTRUTTIVE E CONFIGURAZIONI DI INGRESSO

| SEZIONE DI INGRESSO | FORMA COSTRUTTIVA: coassiale (—) | con stadio ortogonale in ingresso (K - G) | con stadio ortogonale in uscita (MB) |
|---|---|---|---|
| 25AH ... 180A1 |  |  |  |
| IS |  | ⛔ | ⛔ |
| FM |  |  |  |

### 6.1.2 POSIZIONI DI MONTAGGIO

| | OR | VA | VB |
|---|---|---|---|
| — |  |  |  |
| K - G |  |  |  |
| MB |  |  |  |

### 6.2 CARICHI RADIALI ED ASSIALI AMMISSIBILI PER LA FORMA COSTRUTTIVA MB



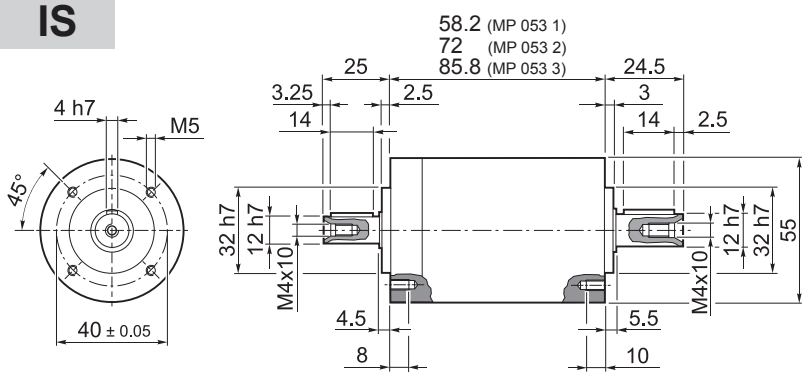

| | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | L [mm] | $R_{3\,max}$ [N] | $A_{3\,max}$ [N] |
|---|---|---|---|---|---|
| **MP MB 080** | 6000 | 5000 | 60 | 5500 | 5000 |
| **MP MB 105** | 9000 | 7500 | 80 | 7500 | 7500 |
| **MP MB 130** | 13500 | 11500 | 100 | 11000 | 11500 |
| **MP MB 160*** | 15000 | 11500 | 100 | 12500 | 11500 |

* Cuscinetti dimensionati per durata media pari a 10000 ore in condizioni di funzionamento nominale.

### *6.3 DIMENSIONI E DATI TECNICI*

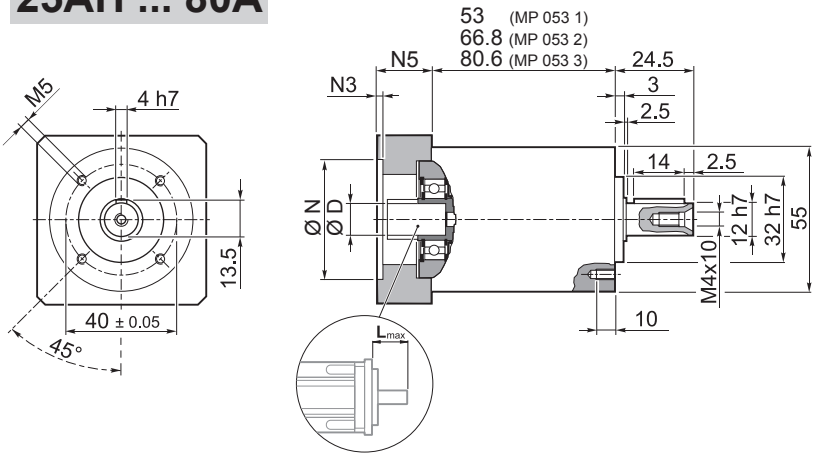
# MP 053

## IS




| | Kg |
|---|---|
| **MP 053 1** | 0.8 |
| **MP 053 2** | 1.0 |
| **MP 053 3** | 1.3 |

## 25AH ... 80A



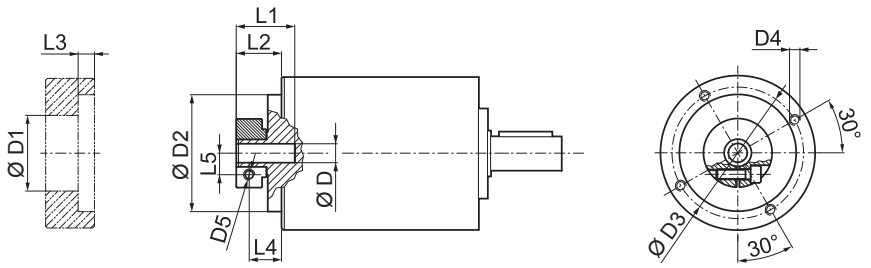

| | Kg |
|---|---|
| **MP 053 1** | 0.8 |
| **MP 053 2** | 1.0 |
| **MP 053 3** | 1.3 |

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 36 | 48 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 36 | 48 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 36 | 48 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 36 | 48 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 38 | 48 | 55 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 48 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 48 | | | | | |
| **38AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 38 | 44 | 48 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 48 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 4 | 5.5 | 23 | 30 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **50MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 65 | | 55 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | 5.5 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60AH1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | 5.5 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP 053

**FM**

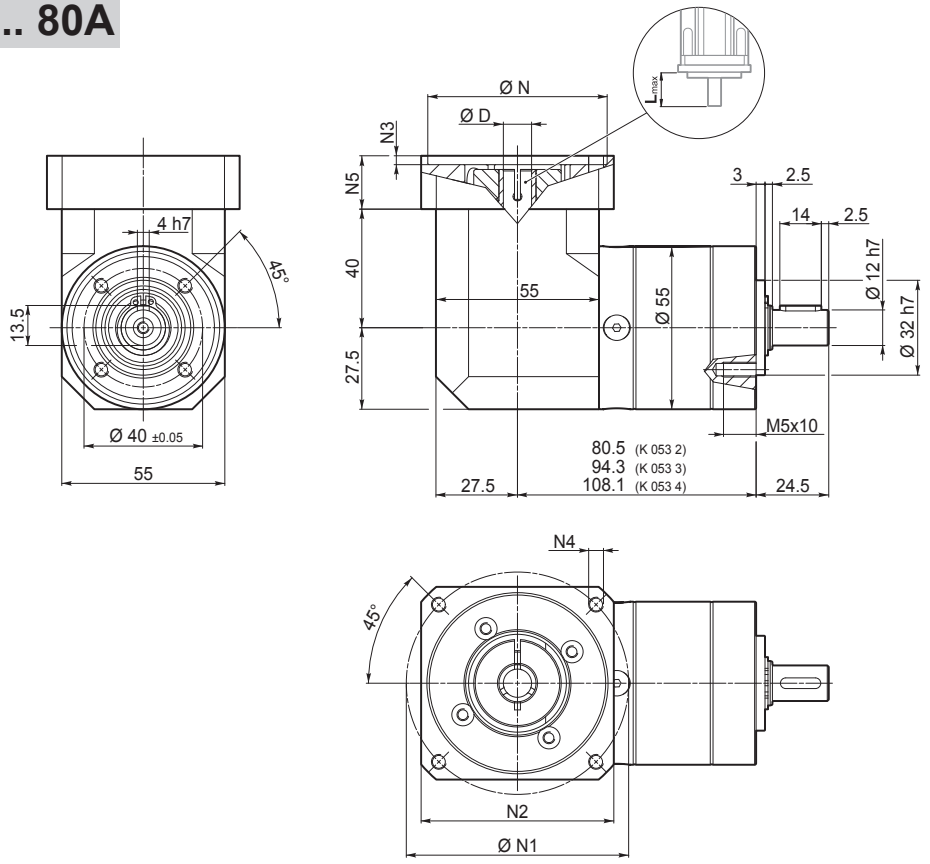



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 8.7 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 7.8 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 20.5 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 24 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP 053 1_3 | 12 | 22 | 40 | 3300 | 4000 | 15’ | 10’ | 1.0 | 200 | 500 | 600 | 97 | 0.06 | 0.08 |
| MP 053 1_4 | 15 | 28 | 45 | 3500 | 5000 | 15’ | 10’ | 1.0 | 200 | 500 | 600 | 97 | 0.05 | 0.06 |
| MP 053 1_5 | 15 | 28 | 45 | 3500 | 5000 | 15’ | 10’ | 1.0 | 200 | 500 | 600 | 97 | 0.04 | 0.06 |
| MP 053 1_6 | 15 | 28 | 45 | 3500 | 5000 | 15’ | 10’ | 1.0 | 200 | 500 | 600 | 97 | 0.03 | 0.05 |
| MP 053 1_7 | 15 | 28 | 45 | 4000 | 6000 | 15’ | 10’ | 1.0 | 200 | 500 | 600 | 97 | 0.03 | 0.05 |
| MP 053 1_9 | 12 | 22 | 40 | 4000 | 6000 | 15’ | 10’ | 1.0 | 200 | 500 | 600 | 97 | 0.03 | 0.05 |
| MP 053 2_12 | 20 | 30 | 60 | 3300 | 4000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.06 | 0.08 |
| MP 053 2_15 | 20 | 30 | 60 | 3300 | 4000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.06 | 0.08 |
| MP 053 2_16 | 20 | 30 | 60 | 3500 | 5000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.05 | 0.06 |
| MP 053 2_20 | 20 | 30 | 60 | 3500 | 5000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.04 | 0.06 |
| MP 053 2_25 | 20 | 30 | 60 | 3500 | 5000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.04 | 0.06 |
| MP 053 2_28 | 20 | 30 | 60 | 4000 | 6000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| MP 053 2_35 | 20 | 30 | 60 | 4000 | 6000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| MP 053 2_36 | 15 | 28 | 45 | 4000 | 6000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| MP 053 2_45 | 20 | 30 | 60 | 4000 | 6000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| MP 053 2_81 | 12 | 22 | 40 | 4000 | 6000 | 15’ | 10’ | 0.9 | 200 | 500 | 600 | 94 | 0.03 | 0.05 |
| MP 053 3_48 | 20 | 30 | 60 | 4000 | 5000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.07 |
| MP 053 3_60 | 20 | 30 | 60 | 3500 | 5000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.07 |
| MP 053 3_64 | 20 | 30 | 60 | 3500 | 5000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.06 |
| MP 053 3_75 | 20 | 30 | 60 | 3500 | 5000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.04 | 0.06 |
| MP 053 3_80 | 20 | 30 | 60 | 3500 | 5000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.06 |
| MP 053 3_84 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_100 | 20 | 30 | 60 | 3500 | 5000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.04 | 0.06 |
| MP 053 3_112 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_125 | 20 | 30 | 60 | 3500 | 5000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.04 | 0.06 |
| MP 053 3_140 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_144 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_175 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_180 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_216 | 20 | 30 | 60 | 3500 | 5000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_225 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_245 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_252 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.05 | 0.06 |
| MP 053 3_324 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_405 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_567 | 20 | 30 | 60 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |
| MP 053 3_729 | 12 | 22 | 40 | 4000 | 6000 | 17’ | 12’ | 0.7 | 200 | 500 | 600 | 91 | 0.03 | 0.05 |

# MP K 053

## 25AH ... 80A




| | Kg |
|---|---|
| **MP K 053 2** | 1.3 |
| **MP K 053 3** | 1.5 |
| **MP K 053 4** | 1.8 |

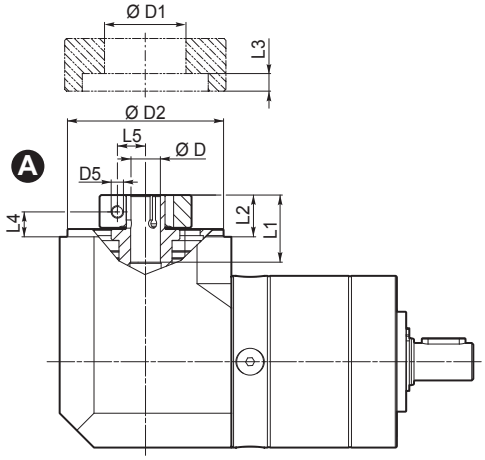


| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 36 | 48 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 36 | 48 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 36 | 48 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 36 | 48 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 38 | 48 | 55 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 48 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 48 | | | | | |
| **38AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 38 | 44 | 48 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 48 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 4 | 5.5 | 23 | 30 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **50MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 65 | | 55 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

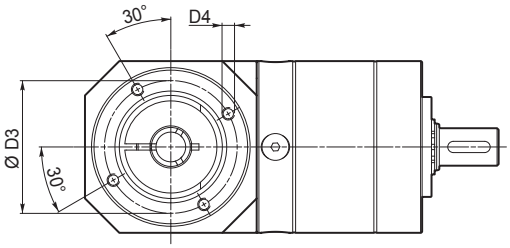
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP K 053

**FM**




Vista da A

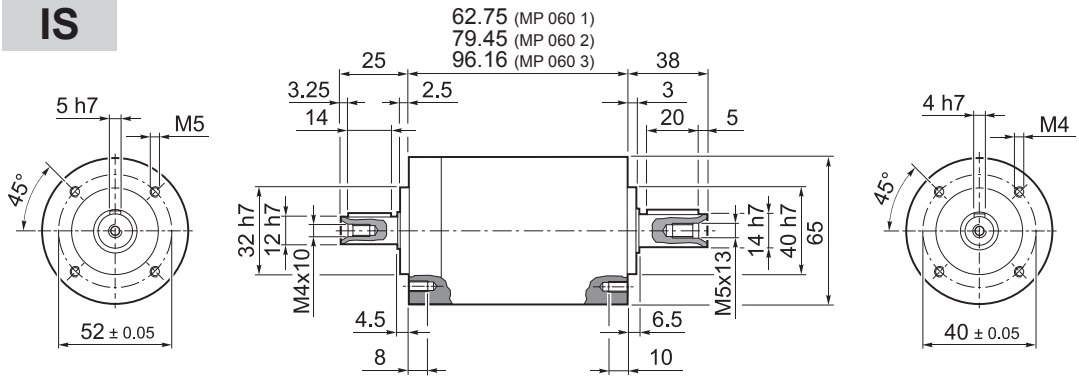



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 8.7 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 7.8 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 20.5 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 24 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP K 053 2_3 | 12 | 22 | 40 | 3300 | 4000 | 15' | 10' | 1.0 | 500 | 600 | 94 | 0.18 | 0.20 |
| MP K 053 2_4 | 15 | 28 | 45 | 3500 | 5000 | 15' | 10' | 1.0 | 500 | 600 | 94 | 0.18 | 0.19 |
| MP K 053 2_5 | 15 | 28 | 45 | 3500 | 5000 | 15' | 10' | 1.0 | 500 | 600 | 94 | 0.17 | 0.19 |
| MP K 053 2_6 | 15 | 28 | 45 | 3500 | 5000 | 15' | 10' | 1.0 | 500 | 600 | 94 | 0.17 | 0.18 |
| MP K 053 2_7 | 15 | 28 | 45 | 4000 | 6000 | 15' | 10' | 1.0 | 500 | 600 | 94 | 0.17 | 0.19 |
| MP K 053 2_9 | 12 | 22 | 40 | 4000 | 6000 | 15' | 10' | 1.0 | 500 | 600 | 94 | 0.17 | 0.18 |
| MP K 053 3_12 | 20 | 30 | 60 | 3300 | 4000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.18 | 0.20 |
| MP K 053 3_15 | 20 | 30 | 60 | 3300 | 4000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.18 | 0.20 |
| MP K 053 3_16 | 20 | 30 | 60 | 3500 | 5000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| MP K 053 3_20 | 20 | 30 | 60 | 3500 | 5000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| MP K 053 3_25 | 20 | 30 | 60 | 3500 | 5000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| MP K 053 3_28 | 20 | 30 | 60 | 4000 | 6000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| MP K 053 3_35 | 20 | 30 | 60 | 4000 | 6000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| MP K 053 3_36 | 15 | 28 | 45 | 4000 | 6000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.17 | 0.18 |
| MP K 053 3_45 | 20 | 30 | 60 | 4000 | 6000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.17 | 0.19 |
| MP K 053 3_81 | 12 | 22 | 40 | 4000 | 6000 | 15' | 10' | 0.9 | 500 | 600 | 91 | 0.17 | 0.18 |
| MP K 053 4_48 | 20 | 30 | 60 | 4000 | 5000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.18 | 0.19 |
| MP K 053 4_60 | 20 | 30 | 60 | 3500 | 5000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.18 | 0.19 |
| MP K 053 4_64 | 20 | 30 | 60 | 3500 | 5000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_75 | 20 | 30 | 60 | 3500 | 5000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_80 | 20 | 30 | 60 | 3500 | 5000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_84 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_100 | 20 | 30 | 60 | 3500 | 5000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_112 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_125 | 20 | 30 | 60 | 3500 | 5000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_140 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_144 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| MP K 053 4_175 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_180 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| MP K 053 4_216 | 20 | 30 | 60 | 3500 | 5000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| MP K 053 4_225 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| MP K 053 4_245 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.19 |
| MP K 053 4_252 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.18 | 0.20 |
| MP K 053 4_324 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| MP K 053 4_405 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| MP K 053 4_567 | 20 | 30 | 60 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |
| MP K 053 4_729 | 12 | 22 | 40 | 4000 | 6000 | 17' | 12' | 0.7 | 500 | 600 | 89 | 0.17 | 0.18 |

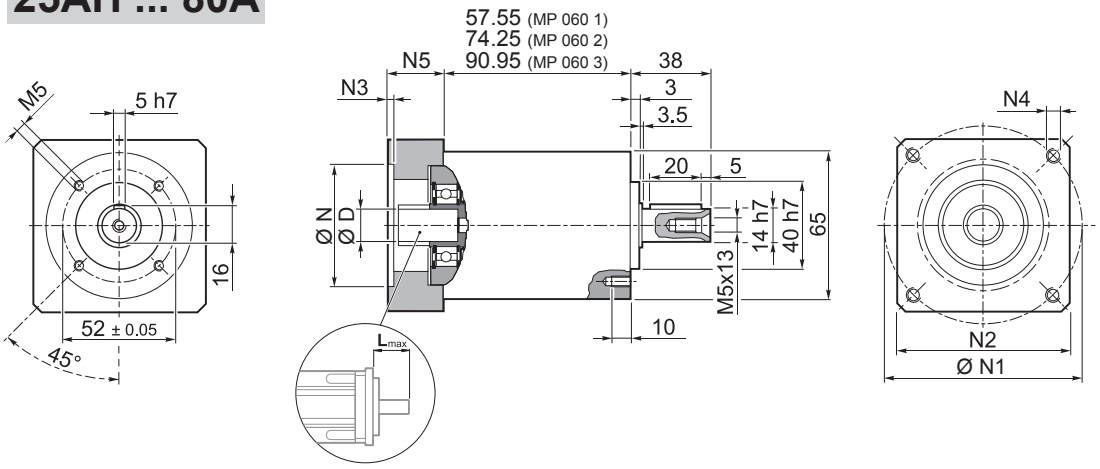
# MP 060

## IS




| | Kg |
|---|---|
| **MP 060 1** | 1.2 |
| **MP 060 2** | 1.7 |
| **MP 060 3** | 2.0 |

## 25AH ... 80A



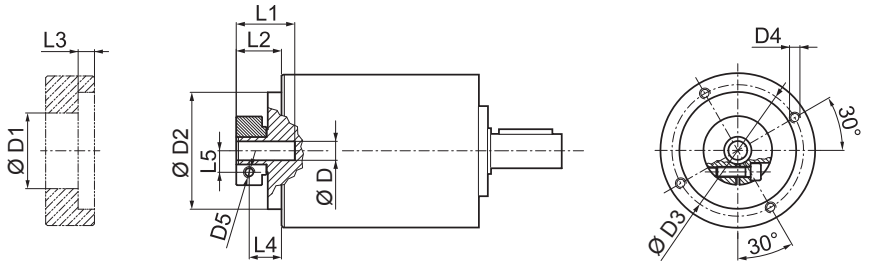

| | Kg |
|---|---|
| **MP 060 1** | 1.2 |
| **MP 060 2** | 1.7 |
| **MP 060 3** | 2.0 |

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | 5.5 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60AH1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | 5.5 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP 060

**FM**

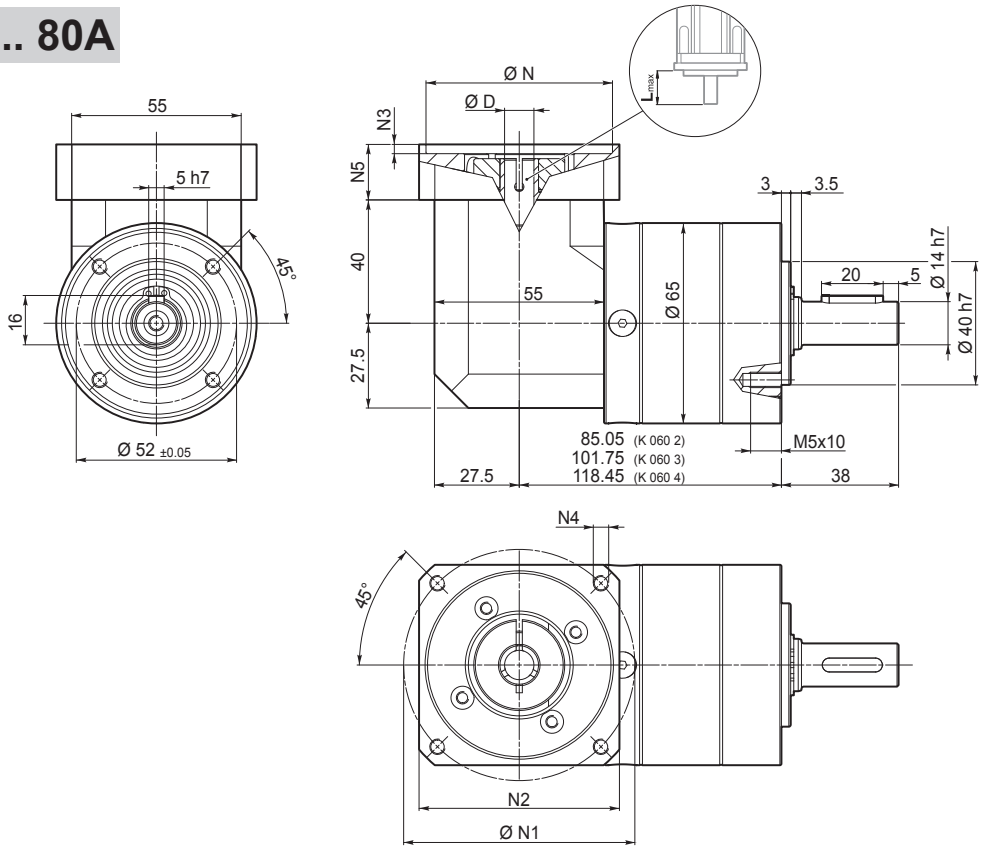



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 8.7 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 7.8 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 20.5 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 24 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP 060 1_3 | 18 | 35 | 70 | 3300 | 4000 | 15' | 10' | 3.0 | 200 | 600 | 700 | 97 | 0.10 | 0.11 |
| MP 060 1_4 | 25 | 40 | 90 | 3500 | 5000 | 15' | 10' | 3.0 | 200 | 600 | 700 | 97 | 0.06 | 0.08 |
| MP 060 1_5 | 25 | 40 | 90 | 3500 | 5000 | 15' | 10' | 3.0 | 200 | 600 | 700 | 97 | 0.05 | 0.07 |
| MP 060 1_6 | 25 | 40 | 90 | 3500 | 5000 | 15' | 10' | 3.0 | 200 | 600 | 700 | 97 | 0.04 | 0.06 |
| MP 060 1_7 | 25 | 40 | 90 | 4000 | 6000 | 15' | 10' | 3.0 | 200 | 600 | 700 | 97 | 0.04 | 0.06 |
| MP 060 1_10 | 18 | 35 | 70 | 4000 | 6000 | 15' | 10' | 3.0 | 200 | 600 | 700 | 97 | 0.03 | 0.05 |
| MP 060 2_9 | 18 | 35 | 70 | 3300 | 4000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.10 | 0.12 |
| MP 060 2_12 | 30 | 45 | 100 | 3300 | 4000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.10 | 0.11 |
| MP 060 2_15 | 30 | 45 | 100 | 3300 | 4000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.09 | 0.11 |
| MP 060 2_16 | 30 | 45 | 100 | 3500 | 5000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.06 | 0.08 |
| MP 060 2_20 | 30 | 45 | 100 | 3500 | 5000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.05 | 0.07 |
| MP 060 2_25 | 30 | 45 | 100 | 3500 | 5000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.05 | 0.06 |
| MP 060 2_28 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.04 | 0.06 |
| MP 060 2_30 | 18 | 35 | 70 | 4000 | 6000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| MP 060 2_35 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.04 | 0.06 |
| MP 060 2_36 | 25 | 40 | 90 | 3500 | 5000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.04 | 0.06 |
| MP 060 2_40 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| MP 060 2_50 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| MP 060 2_70 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| MP 060 2_100 | 18 | 35 | 70 | 4000 | 6000 | 15' | 10' | 2.5 | 200 | 600 | 700 | 94 | 0.03 | 0.05 |
| MP 060 3_48 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.06 | 0.08 |
| MP 060 3_64 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.06 | 0.08 |
| MP 060 3_75 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.05 | 0.07 |
| MP 060 3_80 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.06 | 0.08 |
| MP 060 3_84 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.04 | 0.06 |
| MP 060 3_90 | 18 | 35 | 70 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_120 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_125 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.05 | 0.07 |
| MP 060 3_140 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.04 | 0.06 |
| MP 060 3_150 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_160 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_175 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.04 | 0.06 |
| MP 060 3_200 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_210 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_216 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.04 | 0.06 |
| MP 060 3_250 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_280 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_350 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_400 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_500 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_700 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |
| MP 060 3_1000 | 18 | 35 | 70 | 4000 | 6000 | 17' | 12' | 1.8 | 200 | 600 | 700 | 91 | 0.03 | 0.05 |

# MP K 060

## 25AH ... 80A



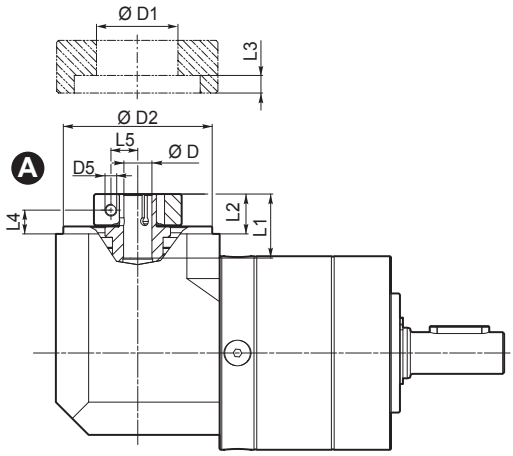

| | Kg |
|---|---|
| **MP K 060 2** | 1.7 |
| **MP K 060 3** | 2.2 |
| **MP K 060 4** | 2.5 |

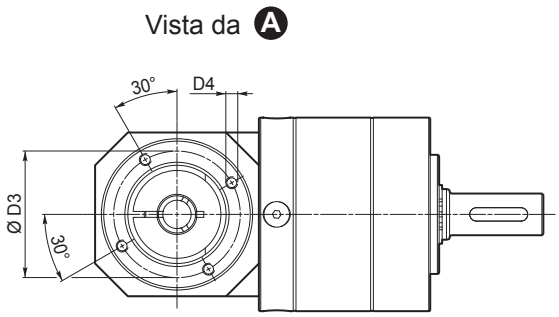
| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP K 060

**FM**



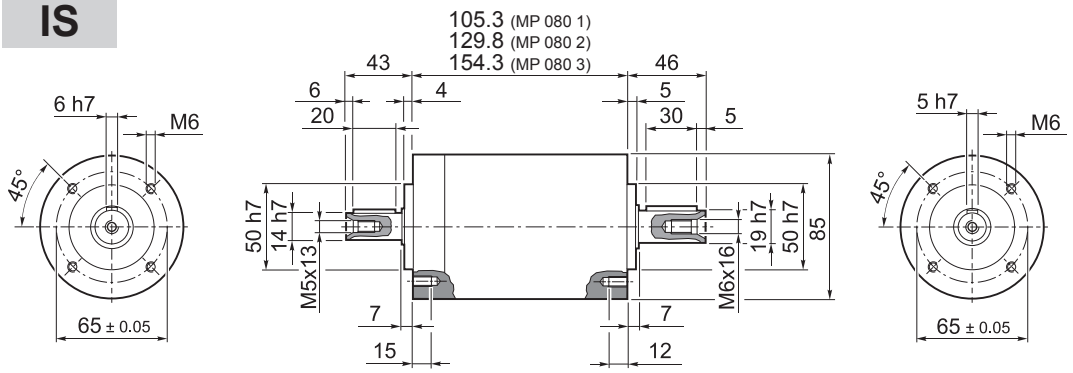




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 8.7 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 20.2 | 13.2 | 3 | 7.8 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 20.5 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 24 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP K 060 2_3 | 18 | 35 | 70 | 3300 | 4000 | 15' | 10' | 3.0 | 600 | 700 | 94 | 0.20 | 0.20 |
| MP K 060 2_4 | 25 | 40 | 90 | 3500 | 5000 | 15' | 10' | 3.0 | 600 | 700 | 94 | 0.18 | 0.20 |
| MP K 060 2_5 | 25 | 40 | 90 | 3500 | 5000 | 15' | 10' | 3.0 | 600 | 700 | 94 | 0.17 | 0.19 |
| MP K 060 2_6 | 25 | 40 | 90 | 3500 | 5000 | 15' | 10' | 3.0 | 600 | 700 | 94 | 0.17 | 0.19 |
| MP K 060 2_7 | 25 | 40 | 90 | 4000 | 6000 | 15' | 10' | 3.0 | 600 | 700 | 94 | 0.17 | 0.19 |
| MP K 060 2_10 | 18 | 35 | 70 | 4000 | 6000 | 15' | 10' | 3.0 | 600 | 700 | 94 | 0.17 | 0.18 |
| MP K 060 3_9 | 18 | 35 | 70 | 3300 | 4000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.20 | 0.21 |
| MP K 060 3_12 | 30 | 45 | 100 | 3300 | 4000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.20 | 0.21 |
| MP K 060 3_15 | 30 | 45 | 100 | 3300 | 4000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.19 | 0.21 |
| MP K 060 3_16 | 30 | 45 | 100 | 3500 | 5000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.18 | 0.20 |
| MP K 060 3_20 | 30 | 45 | 100 | 3500 | 5000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.17 | 0.19 |
| MP K 060 3_25 | 30 | 45 | 100 | 3500 | 5000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| MP K 060 3_28 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.17 | 0.19 |
| MP K 060 3_30 | 18 | 35 | 70 | 4000 | 6000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| MP K 060 3_35 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.18 | 0.19 |
| MP K 060 3_36 | 25 | 40 | 90 | 3500 | 5000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.18 | 0.19 |
| MP K 060 3_40 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| MP K 060 3_50 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| MP K 060 3_70 | 30 | 45 | 100 | 4000 | 6000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| MP K 060 3_100 | 18 | 35 | 70 | 4000 | 6000 | 15' | 10' | 2.5 | 600 | 700 | 91 | 0.17 | 0.18 |
| MP K 060 4_48 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.18 | 0.20 |
| MP K 060 4_64 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.18 | 0.20 |
| MP K 060 4_75 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.19 |
| MP K 060 4_80 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.18 | 0.20 |
| MP K 060 4_84 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.19 |
| MP K 060 4_90 | 18 | 35 | 70 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_120 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.15 | 0.17 |
| MP K 060 4_125 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.19 |
| MP K 060 4_140 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.19 |
| MP K 060 4_150 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_160 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_175 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.19 |
| MP K 060 4_200 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_210 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_216 | 30 | 45 | 100 | 3500 | 5000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.19 |
| MP K 060 4_250 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_280 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_350 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_400 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_500 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_700 | 30 | 45 | 100 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |
| MP K 060 4_1000 | 18 | 35 | 70 | 4000 | 6000 | 17' | 12' | 1.8 | 600 | 700 | 89 | 0.17 | 0.18 |

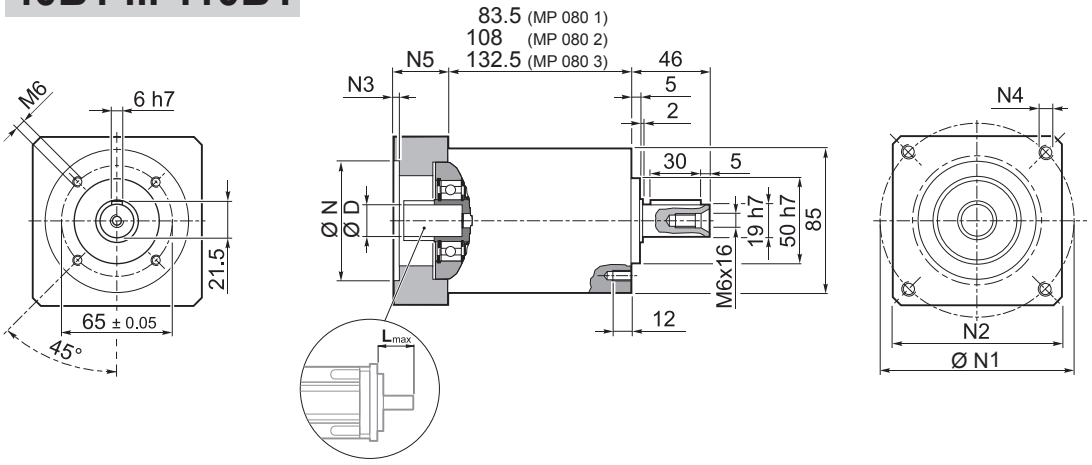
# MP 080

## IS




| | Kg |
|---|---|
| **MP 080 1** | 4.0 |
| **MP 080 2** | 4.6 |
| **MP 080 3** | 5.2 |

## 40B1 ... 110B1



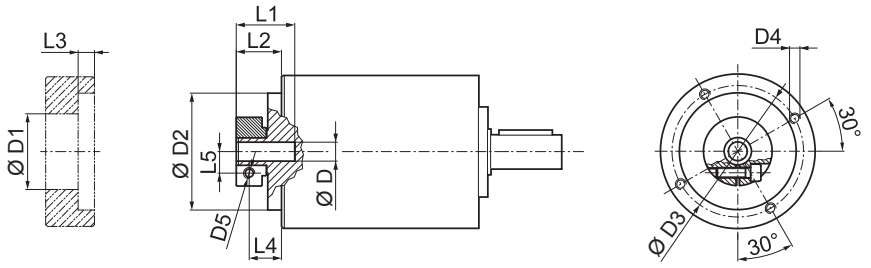

| | Kg |
|---|---|
| **MP 080 1** | 4.0 |
| **MP 080 2** | 4.6 |
| **MP 080 3** | 5.2 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP 080

**FM**

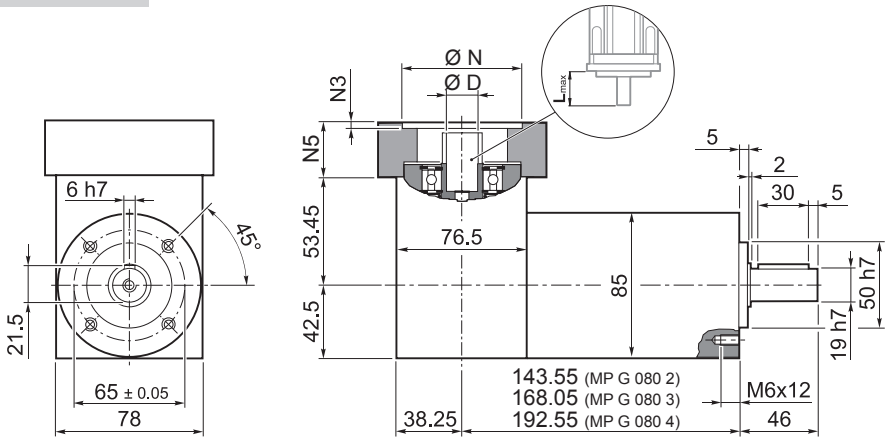


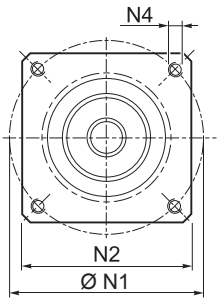

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 16.5 |

| i | $M_{n2}$ | $M_{a2}$ | $M_{p2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{1\,max}$ | SB $R_{2\,max}$ | SB $A_{2\,max}$ | HB $R_{2\,max}$ | HB $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D 8 ... 12.7 | $J_G$ [kgcm²] D 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | [N] | [N] | [N] | % | | |
| MP 080 1_3 | 40 | 80 | 180 | 2900 | 3500 | 15' | 10' | 7.0 | 400 | 1300 | 1400 | 2500 | 3000 | 97 | 0.50 | 0.59 |
| MP 080 1_4 | 50 | 80 | 200 | 3100 | 4500 | 15' | 10' | 7.0 | 400 | 1300 | 1400 | 2500 | 3000 | 97 | 0.34 | 0.43 |
| MP 080 1_5 | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 7.0 | 400 | 1300 | 1400 | 2500 | 3000 | 97 | 0.28 | 0.37 |
| MP 080 1_6 | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 7.0 | 400 | 1300 | 1400 | 2500 | 3000 | 97 | 0.21 | 0.30 |
| MP 080 1_7 | 50 | 80 | 200 | 4000 | 6000 | 15' | 10' | 7.0 | 400 | 1300 | 1400 | 2500 | 3000 | 97 | 0.23 | 0.32 |
| MP 080 1_10 | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 7.0 | 400 | 1300 | 1400 | 2500 | 3000 | 97 | 0.20 | 0.29 |
| MP 080 2_9 | 40 | 80 | 180 | 2900 | 3500 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.49 | 0.58 |
| MP 080 2_12 | 70 | 100 | 250 | 2900 | 3500 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.47 | 0.56 |
| MP 080 2_15 | 70 | 100 | 250 | 2900 | 3500 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.46 | 0.55 |
| MP 080 2_16 | 70 | 100 | 250 | 3100 | 4500 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.32 | 0.41 |
| MP 080 2_20 | 70 | 100 | 250 | 3200 | 4500 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.27 | 0.36 |
| MP 080 2_25 | 70 | 100 | 250 | 3200 | 4500 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.27 | 0.36 |
| MP 080 2_28 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.22 | 0.31 |
| MP 080 2_30 | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.20 | 0.29 |
| MP 080 2_35 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.22 | 0.31 |
| MP 080 2_36 | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.20 | 0.29 |
| MP 080 2_40 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.20 | 0.29 |
| MP 080 2_50 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.19 | 0.28 |
| MP 080 2_70 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.19 | 0.28 |
| MP 080 2_100 | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 5.9 | 400 | 1300 | 1400 | 2500 | 3000 | 94 | 0.19 | 0.28 |
| MP 080 3_48 | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.33 | 0.42 |
| MP 080 3_64 | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.32 | 0.41 |
| MP 080 3_75 | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.27 | 0.36 |
| MP 080 3_80 | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.32 | 0.41 |
| MP 080 3_84 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.23 | 0.32 |
| MP 080 3_90 | 40 | 80 | 180 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| MP 080 3_120 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| MP 080 3_125 | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.27 | 0.36 |
| MP 080 3_140 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.22 | 0.31 |
| MP 080 3_150 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| MP 080 3_160 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| MP 080 3_175 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.22 | 0.31 |
| MP 080 3_200 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| MP 080 3_210 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| MP 080 3_216 | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.20 | 0.29 |
| MP 080 3_250 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| MP 080 3_280 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| MP 080 3_350 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| MP 080 3_400 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| MP 080 3_500 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| MP 080 3_700 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.19 | 0.28 |
| MP 080 3_1000 | 40 | 80 | 180 | 4000 | 6000 | 17' | 12' | 5.4 | 400 | 1300 | 1400 | 2500 | 3000 | 91 | 0.19 | 0.28 |

# MP G 080

## 40B1 ... 110B1




| | Kg |
|---|---|
| **MP G 080 2** | 5.2 |
| **MP G 080 3** | 5.8 |
| **MP G 080 4** | 6.4 |

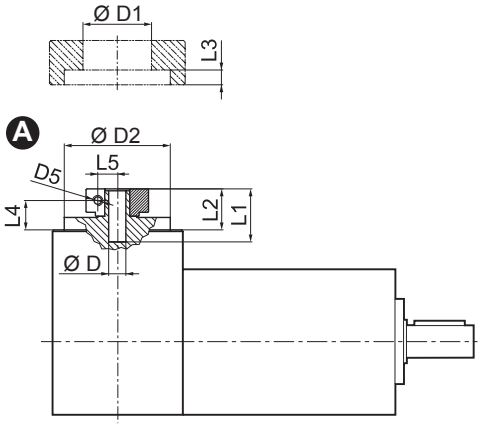
MP

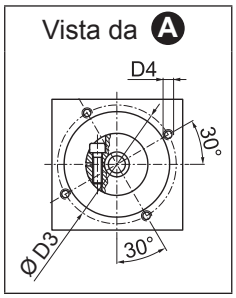
| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP G 080

**FM**



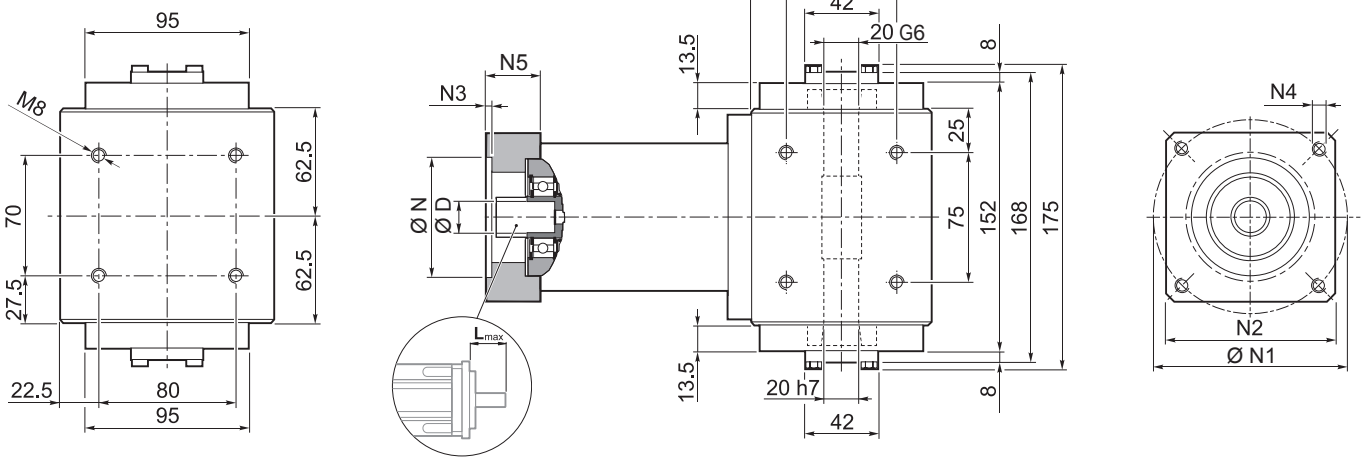



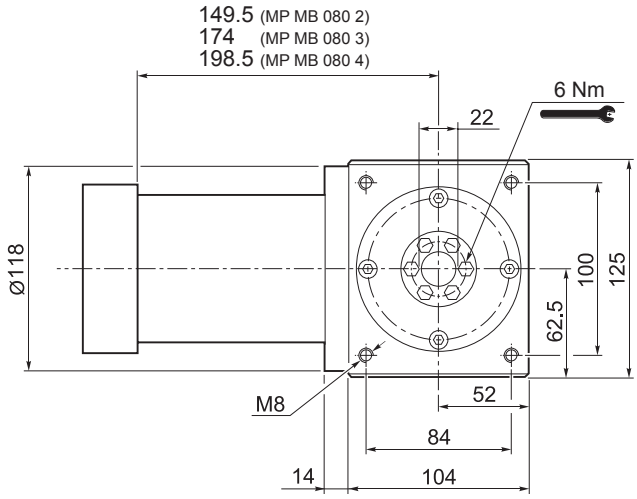

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 16.5 |

| i | $M_{n2}$ | $M_{a2}$ | $M_{p2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | SB $R_{2\,max}$ | SB $A_{2\,max}$ | HB $R_{2\,max}$ | HB $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D 8 ... 12.7 | $J_G$ [kgcm²] D 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | [N] | [N] | % | | |
| MP G 080 2_3 | 40 | 80 | 180 | 2900 | 3500 | 15' | 10' | 7.0 | 1300 | 1400 | 2500 | 3000 | 94 | 0.67 | 0.79 |
| MP G 080 2_4 | 50 | 80 | 200 | 3100 | 4500 | 15' | 10' | 7.0 | 1300 | 1400 | 2500 | 3000 | 94 | 0.62 | 0.75 |
| MP G 080 2_5 | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 7.0 | 1300 | 1400 | 2500 | 3000 | 94 | 0.61 | 0.74 |
| MP G 080 2_6 | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 7.0 | 1300 | 1400 | 2500 | 3000 | 94 | 0.58 | 0.71 |
| MP G 080 2_7 | 50 | 80 | 200 | 4000 | 6000 | 15' | 10' | 7.0 | 1300 | 1400 | 2500 | 3000 | 94 | 0.60 | 0.73 |
| MP G 080 2_10 | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 7.0 | 1300 | 1400 | 2500 | 3000 | 94 | 0.60 | 0.72 |
| MP G 080 3_9 | 40 | 80 | 180 | 2900 | 3500 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.66 | 0.78 |
| MP G 080 3_12 | 70 | 100 | 250 | 2900 | 3500 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.75 | 0.87 |
| MP G 080 3_15 | 70 | 100 | 250 | 2900 | 3500 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.74 | 0.87 |
| MP G 080 3_16 | 70 | 100 | 250 | 3100 | 4500 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.60 | 0.73 |
| MP G 080 3_20 | 70 | 100 | 250 | 3200 | 4500 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.60 | 0.73 |
| MP G 080 3_25 | 70 | 100 | 250 | 3200 | 4500 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.64 | 0.76 |
| MP G 080 3_28 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.59 | 0.72 |
| MP G 080 3_30 | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.60 | 0.72 |
| MP G 080 3_35 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.61 | 0.74 |
| MP G 080 3_36 | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.57 | 0.70 |
| MP G 080 3_40 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.60 | 0.72 |
| MP G 080 3_50 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.59 | 0.71 |
| MP G 080 3_70 | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.59 | 0.71 |
| MP G 080 3_100 | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 5.9 | 1300 | 1400 | 2500 | 3000 | 91 | 0.59 | 0.71 |
| MP G 080 4_48 | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.61 | 0.75 |
| MP G 080 4_64 | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| MP G 080 4_75 | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| MP G 080 4_80 | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| MP G 080 4_84 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| MP G 080 4_90 | 40 | 80 | 180 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| MP G 080 4_120 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| MP G 080 4_125 | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.73 |
| MP G 080 4_140 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.72 |
| MP G 080 4_150 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| MP G 080 4_160 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| MP G 080 4_175 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.72 |
| MP G 080 4_200 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| MP G 080 4_210 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.60 | 0.72 |
| MP G 080 4_216 | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.57 | 0.70 |
| MP G 080 4_250 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| MP G 080 4_280 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| MP G 080 4_350 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| MP G 080 4_400 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| MP G 080 4_500 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| MP G 080 4_700 | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.71 |
| MP G 080 4_1000 | 40 | 80 | 180 | 4000 | 6000 | 17' | 12' | 5.4 | 1300 | 1400 | 2500 | 3000 | 89 | 0.59 | 0.71 |

# MP MB 080

## 40B1 ... 110B1



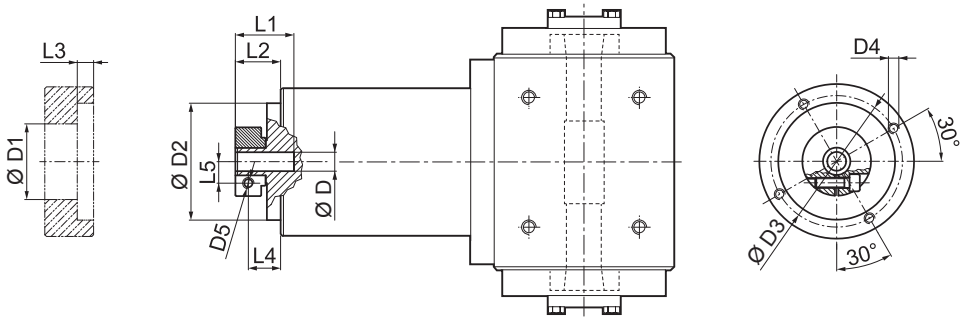

| | Kg |
|---|---|
| **MP MB 080 2** | 14.0 |
| **MP MB 080 3** | 15.0 |
| **MP MB 080 4** | 16.0 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP MB 080

**FM**

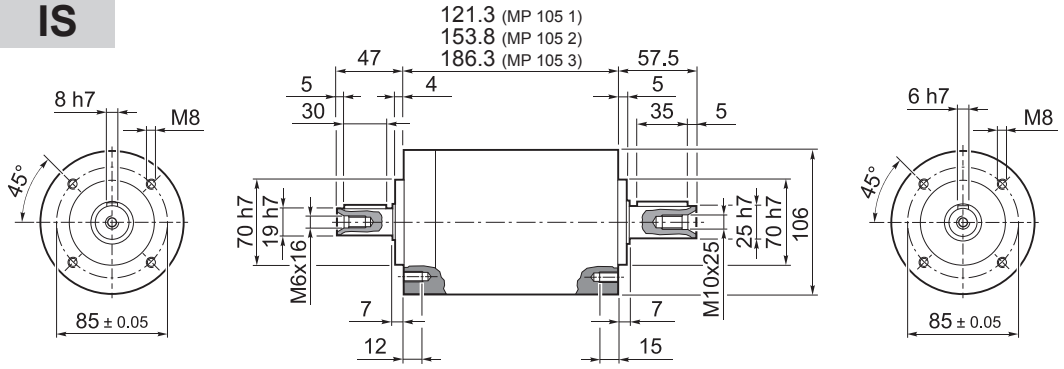



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x12 | M6 | 32.2 | 26.3 | 9.5 | 19.3 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MP MB 080 2_3** | 40 | 80 | 180 | 2900 | 3500 | 15' | 10' | 7.0 | 94 | 0.50 | 0.59 |
| **MP MB 080 2_4** | 50 | 80 | 200 | 3100 | 4500 | 15' | 10' | 7.0 | 94 | 0.34 | 0.43 |
| **MP MB 080 2_5** | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 7.0 | 94 | 0.28 | 0.37 |
| **MP MB 080 2_6** | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 7.0 | 94 | 0.21 | 0.30 |
| **MP MB 080 2_7** | 50 | 80 | 200 | 4000 | 6000 | 15' | 10' | 7.0 | 94 | 0.23 | 0.32 |
| **MP MB 080 2_10** | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 7.0 | 94 | 0.20 | 0.29 |
| **MP MB 080 3_9** | 40 | 80 | 180 | 2900 | 3500 | 15' | 10' | 5.9 | 91 | 0.49 | 0.58 |
| **MP MB 080 3_12** | 70 | 100 | 250 | 2900 | 3500 | 15' | 10' | 5.9 | 91 | 0.47 | 0.56 |
| **MP MB 080 3_15** | 70 | 100 | 250 | 2900 | 3500 | 15' | 10' | 5.9 | 91 | 0.46 | 0.55 |
| **MP MB 080 3_16** | 70 | 100 | 250 | 3100 | 4500 | 15' | 10' | 5.9 | 91 | 0.32 | 0.41 |
| **MP MB 080 3_20** | 70 | 100 | 250 | 3200 | 4500 | 15' | 10' | 5.9 | 91 | 0.27 | 0.36 |
| **MP MB 080 3_25** | 70 | 100 | 250 | 3200 | 4500 | 15' | 10' | 5.9 | 91 | 0.27 | 0.36 |
| **MP MB 080 3_28** | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 91 | 0.22 | 0.31 |
| **MP MB 080 3_30** | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 5.9 | 91 | 0.20 | 0.29 |
| **MP MB 080 3_35** | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 91 | 0.22 | 0.31 |
| **MP MB 080 3_36** | 50 | 80 | 200 | 3200 | 4500 | 15' | 10' | 5.9 | 91 | 0.20 | 0.29 |
| **MP MB 080 3_40** | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 91 | 0.20 | 0.29 |
| **MP MB 080 3_50** | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 91 | 0.19 | 0.28 |
| **MP MB 080 3_70** | 70 | 100 | 250 | 4000 | 6000 | 15' | 10' | 5.9 | 91 | 0.19 | 0.28 |
| **MP MB 080 3_100** | 40 | 80 | 180 | 4000 | 6000 | 15' | 10' | 5.9 | 91 | 0.19 | 0.28 |
| **MP MB 080 4_48** | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 89 | 0.33 | 0.42 |
| **MP MB 080 4_64** | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 89 | 0.32 | 0.41 |
| **MP MB 080 4_75** | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 89 | 0.27 | 0.36 |
| **MP MB 080 4_80** | 70 | 100 | 250 | 3100 | 4500 | 17' | 12' | 5.4 | 89 | 0.32 | 0.41 |
| **MP MB 080 4_84** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.23 | 0.32 |
| **MP MB 080 4_90** | 40 | 80 | 180 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.20 | 0.29 |
| **MP MB 080 4_120** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.20 | 0.29 |
| **MP MB 080 4_125** | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 89 | 0.27 | 0.36 |
| **MP MB 080 4_140** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.22 | 0.31 |
| **MP MB 080 4_150** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.20 | 0.29 |
| **MP MB 080 4_160** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.20 | 0.29 |
| **MP MB 080 4_175** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.22 | 0.31 |
| **MP MB 080 4_200** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.20 | 0.29 |
| **MP MB 080 4_210** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.20 | 0.29 |
| **MP MB 080 4_216** | 70 | 100 | 250 | 3200 | 4500 | 17' | 12' | 5.4 | 89 | 0.20 | 0.29 |
| **MP MB 080 4_250** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.19 | 0.28 |
| **MP MB 080 4_280** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.19 | 0.28 |
| **MP MB 080 4_350** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.19 | 0.28 |
| **MP MB 080 4_400** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.19 | 0.28 |
| **MP MB 080 4_500** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.19 | 0.28 |
| **MP MB 080 4_700** | 70 | 100 | 250 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.19 | 0.28 |
| **MP MB 080 4_1000** | 40 | 80 | 180 | 4000 | 6000 | 17' | 12' | 5.4 | 89 | 0.19 | 0.28 |

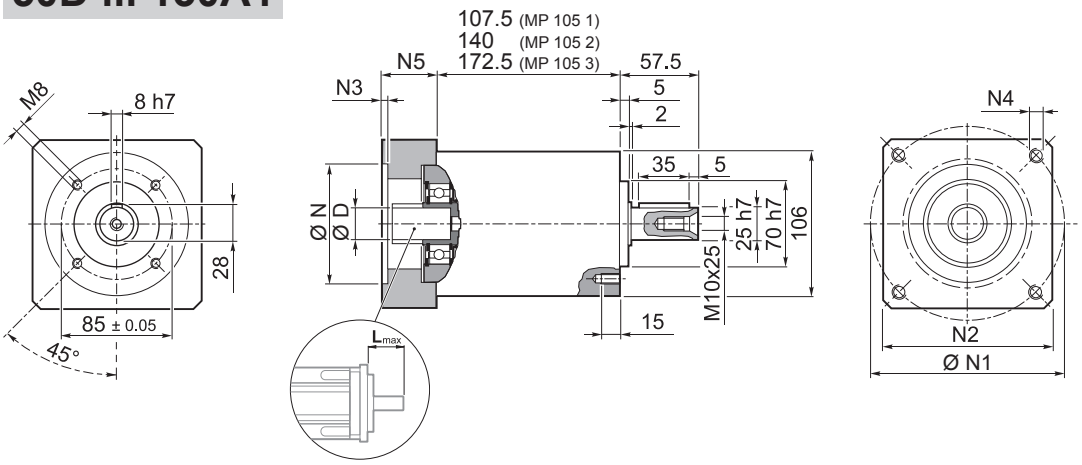
# MP 105

## IS




| | Kg |
|---|---|
| **MP 105 1** | 6.5 |
| **MP 105 2** | 8.5 |
| **MP 105 3** | 10.5 |

## 50D ... 130A1



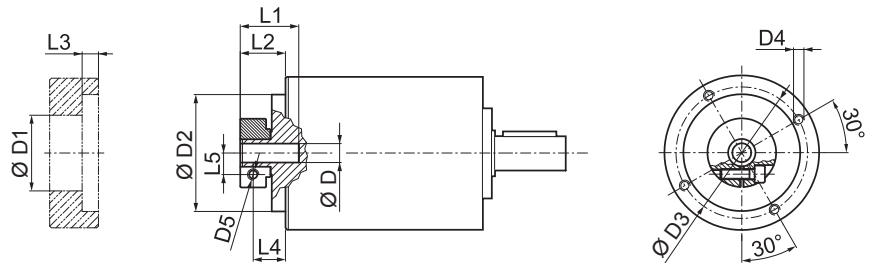

| | Kg |
|---|---|
| **MP 105 1** | 6.5 |
| **MP 105 2** | 8.5 |
| **MP 105 3** | 10.5 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP 105

**FM**

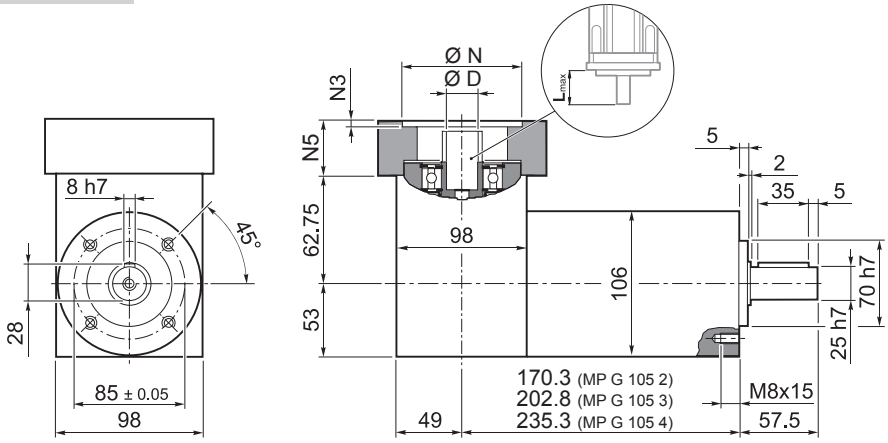


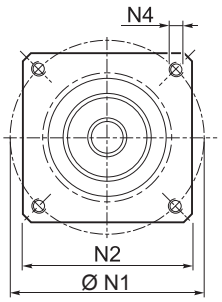

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 35 | 23 | 7.6 | 12 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 35 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 37 | 25 | 7.6 | 16 | 24.5 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{1\,max}$ | SB $R_{2\,max}$ | SB $A_{2\,max}$ | HB $R_{2\,max}$ | HB $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | $\frac{Nm}{arcmin}$ | [N] | [N] | [N] | [N] | [N] | % | 11 ... 12.7 | 14 ... 19 | 22 - 24 | 28 - 32 |
| MP 105 1_3 | 100 | 180 | 360 | 2500 | 3500 | 15' | 10' | 22.0 | 600 | 1500 | 1600 | 3800 | 4000 | 97 | 1.70 | 1.78 | 2.22 | 2.59 |
| MP 105 1_4 | 140 | 210 | 450 | 2800 | 4500 | 15' | 10' | 22.0 | 600 | 1500 | 1600 | 3800 | 4000 | 97 | 0.99 | 1.06 | 1.51 | 1.87 |
| MP 105 1_5 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 22.0 | 600 | 1500 | 1600 | 3800 | 4000 | 97 | 0.72 | 0.79 | 1.23 | 1.60 |
| MP 105 1_6 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 22.0 | 600 | 1500 | 1600 | 3800 | 4000 | 97 | 0.36 | 0.43 | 0.88 | 1.24 |
| MP 105 1_7 | 140 | 210 | 450 | 3500 | 5000 | 15' | 10' | 22.0 | 600 | 1500 | 1600 | 3800 | 4000 | 97 | 0.47 | 0.55 | 0.99 | 1.35 |
| MP 105 1_10 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 22.0 | 600 | 1500 | 1600 | 3800 | 4000 | 97 | 0.33 | 0.41 | 0.85 | 1.21 |
| MP 105 2_9 | 100 | 180 | 360 | 2500 | 3500 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 1.58 | 1.63 | 2.07 | 2.44 |
| MP 105 2_12 | 170 | 250 | 600 | 2500 | 3500 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 1.52 | 1.59 | 2.03 | 2.40 |
| MP 105 2_15 | 170 | 250 | 600 | 2500 | 3500 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 1.47 | 1.55 | 1.99 | 2.36 |
| MP 105 2_16 | 170 | 250 | 600 | 2800 | 4500 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.87 | 0.95 | 1.39 | 1.76 |
| MP 105 2_20 | 170 | 250 | 600 | 3000 | 4500 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.86 | 0.93 | 1.37 | 1.74 |
| MP 105 2_25 | 170 | 250 | 600 | 3000 | 4500 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.63 | 0.71 | 1.15 | 1.51 |
| MP 105 2_28 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.43 | 0.51 | 0.95 | 1.32 |
| MP 105 2_30 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.32 | 0.40 | 0.84 | 1.20 |
| MP 105 2_35 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.43 | 0.50 | 0.95 | 1.31 |
| MP 105 2_36 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP 105 2_40 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.31 | 0.39 | 0.83 | 1.20 |
| MP 105 2_50 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.31 | 0.39 | 0.83 | 1.19 |
| MP 105 2_70 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP 105 2_100 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 20.5 | 600 | 1500 | 1600 | 3800 | 4000 | 94 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP 105 3_48 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.91 | 0.98 | 1.42 | 1.79 |
| MP 105 3_64 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.87 | 0.94 | 1.38 | 1.75 |
| MP 105 3_75 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.66 | 0.74 | 1.18 | 1.55 |
| MP 105 3_80 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.86 | 0.94 | 1.38 | 1.75 |
| MP 105 3_84 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.44 | 0.52 | 0.96 | 1.33 |
| MP 105 3_90 | 100 | 180 | 360 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP 105 3_120 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP 105 3_125 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.63 | 0.70 | 1.15 | 1.51 |
| MP 105 3_140 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.43 | 0.51 | 0.95 | 1.32 |
| MP 105 3_150 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP 105 3_160 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.39 | 0.83 | 1.21 |
| MP 105 3_175 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.43 | 0.50 | 0.95 | 1.31 |
| MP 105 3_200 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.39 | 0.83 | 1.20 |
| MP 105 3_210 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP 105 3_216 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.39 | 0.83 | 1.20 |
| MP 105 3_250 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.39 | 0.83 | 1.19 |
| MP 105 3_280 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP 105 3_350 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP 105 3_400 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP 105 3_500 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP 105 3_700 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP 105 3_1000 | 100 | 180 | 360 | 3500 | 5000 | 17' | 12' | 17.5 | 600 | 1500 | 1600 | 3800 | 4000 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |

# MP G 105

## 50D ... 130A1




| | Kg |
|---|---|
| **MP G 105 2** | 8.5 |
| **MP G 105 3** | 10.5 |
| **MP G 105 4** | 12.5 |

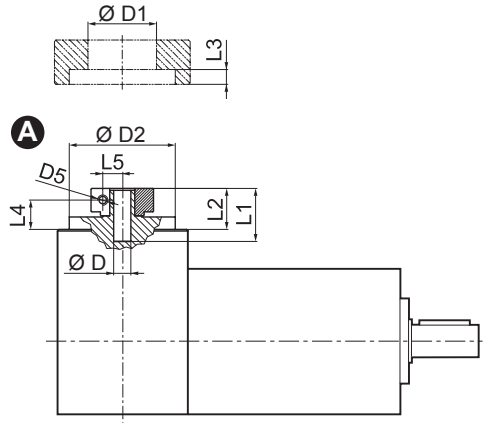
MP

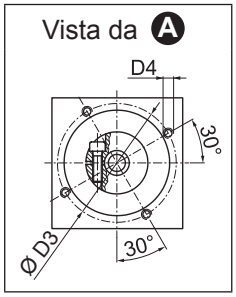
| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP G 105

**FM**



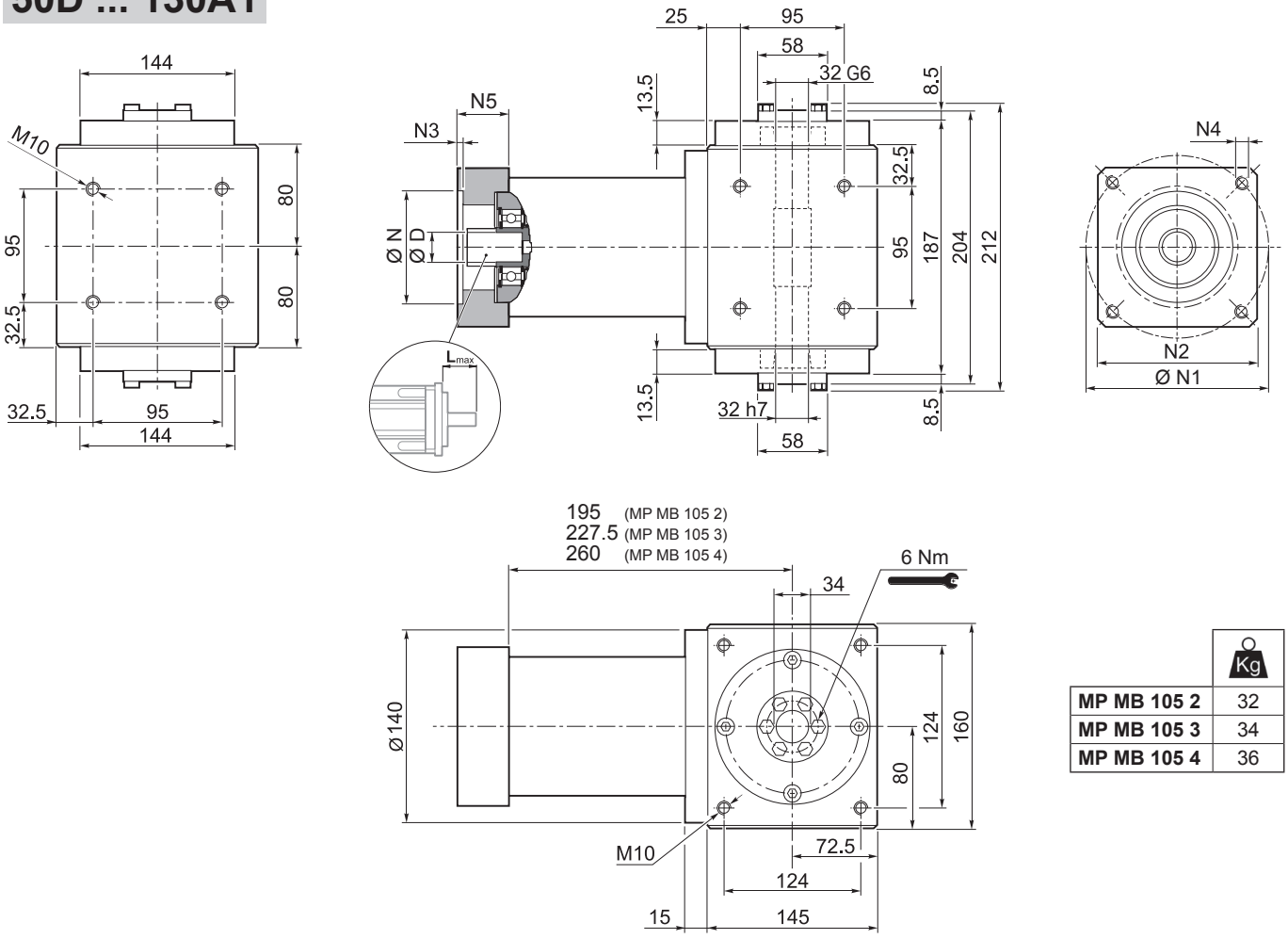




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 35 | 23 | 7.6 | 12 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 35 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 37 | 25 | 7.6 | 16 | 24.5 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | SB $R_{2\,max}$ | SB $A_{2\,max}$ | HB $R_{2\,max}$ | HB $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D 11 ... 12.7 | $J_G$ [kgcm²] D 14 ... 19 | $J_G$ [kgcm²] D 22 - 24 | $J_G$ [kgcm²] D 28 - 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | $\frac{Nm}{arcmin}$ | [N] | [N] | [N] | [N] | % | | | | |
| MP G 105 2_3 | 100 | 180 | 360 | 2500 | 3500 | 15' | 10' | 22.0 | 1500 | 1600 | 3800 | 4000 | 94 | 1.85 | 2.01 | 2.33 | 3.07 |
| MP G 105 2_4 | 140 | 210 | 450 | 2800 | 4500 | 15' | 10' | 22.0 | 1500 | 1600 | 3800 | 4000 | 94 | 1.14 | 1.29 | 1.62 | 2.35 |
| MP G 105 2_5 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 22.0 | 1500 | 1600 | 3800 | 4000 | 94 | 1.07 | 1.21 | 1.34 | 2.08 |
| MP G 105 2_6 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 22.0 | 1500 | 1600 | 3800 | 4000 | 94 | 0.87 | 1.02 | 1.16 | 1.89 |
| MP G 105 2_7 | 140 | 210 | 450 | 3500 | 5000 | 15' | 10' | 22.0 | 1500 | 1600 | 3800 | 4000 | 94 | 0.98 | 1.14 | 1.27 | 2.00 |
| MP G 105 2_10 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 22.0 | 1500 | 1600 | 3800 | 4000 | 94 | 0.94 | 1.09 | 1.23 | 1.95 |
| MP G 105 3_9 | 100 | 180 | 360 | 2500 | 3500 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 1.76 | 1.86 | 2.18 | 2.92 |
| MP G 105 3_12 | 170 | 250 | 600 | 2500 | 3500 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 1.60 | 1.75 | 2.14 | 2.88 |
| MP G 105 3_15 | 170 | 250 | 600 | 2500 | 3500 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 1.57 | 1.73 | 2.10 | 2.84 |
| MP G 105 3_16 | 170 | 250 | 600 | 2800 | 4500 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 1.02 | 1.18 | 1.50 | 2.24 |
| MP G 105 3_20 | 170 | 250 | 600 | 3000 | 4500 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 1.20 | 1.35 | 1.48 | 2.22 |
| MP G 105 3_25 | 170 | 250 | 600 | 3000 | 4500 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 1.13 | 1.29 | 1.42 | 2.15 |
| MP G 105 3_28 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 0.94 | 1.10 | 1.23 | 1.97 |
| MP G 105 3_30 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 0.93 | 1.08 | 1.22 | 1.94 |
| MP G 105 3_35 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 1.02 | 1.17 | 1.31 | 2.04 |
| MP G 105 3_36 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 0.83 | 0.98 | 1.12 | 1.85 |
| MP G 105 3_40 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 0.96 | 1.11 | 1.25 | 1.98 |
| MP G 105 3_50 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 0.96 | 1.11 | 1.25 | 1.98 |
| MP G 105 3_70 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 0.92 | 1.06 | 1.21 | 1.93 |
| MP G 105 3_100 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 20.5 | 1500 | 1600 | 3800 | 4000 | 91 | 0.92 | 1.06 | 1.21 | 1.93 |
| MP G 105 4_48 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 1.06 | 1.21 | 1.53 | 2.27 |
| MP G 105 4_64 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 1.02 | 1.17 | 1.49 | 2.23 |
| MP G 105 4_75 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 1.00 | 1.16 | 1.29 | 2.03 |
| MP G 105 4_80 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 1.01 | 1.17 | 1.49 | 2.23 |
| MP G 105 4_84 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.95 | 1.11 | 1.24 | 1.98 |
| MP G 105 4_90 | 100 | 180 | 360 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.93 | 1.07 | 1.22 | 1.94 |
| MP G 105 4_120 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.93 | 1.07 | 1.22 | 1.94 |
| MP G 105 4_125 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.97 | 1.12 | 1.26 | 1.99 |
| MP G 105 4_140 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.94 | 1.10 | 1.23 | 1.97 |
| MP G 105 4_150 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.93 | 1.07 | 1.22 | 1.94 |
| MP G 105 4_160 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.07 | 1.21 | 1.96 |
| MP G 105 4_175 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.94 | 1.09 | 1.23 | 1.96 |
| MP G 105 4_200 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.07 | 1.21 | 1.94 |
| MP G 105 4_210 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.93 | 1.07 | 1.22 | 1.94 |
| MP G 105 4_216 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.83 | 0.98 | 1.11 | 1.85 |
| MP G 105 4_250 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.07 | 1.21 | 1.93 |
| MP G 105 4_280 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| MP G 105 4_350 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| MP G 105 4_400 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| MP G 105 4_500 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| MP G 105 4_700 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |
| MP G 105 4_1000 | 100 | 180 | 360 | 3500 | 5000 | 17' | 12' | 17.5 | 1500 | 1600 | 3800 | 4000 | 89 | 0.92 | 1.06 | 1.21 | 1.93 |

# MP MB 105

## 50D ... 130A1



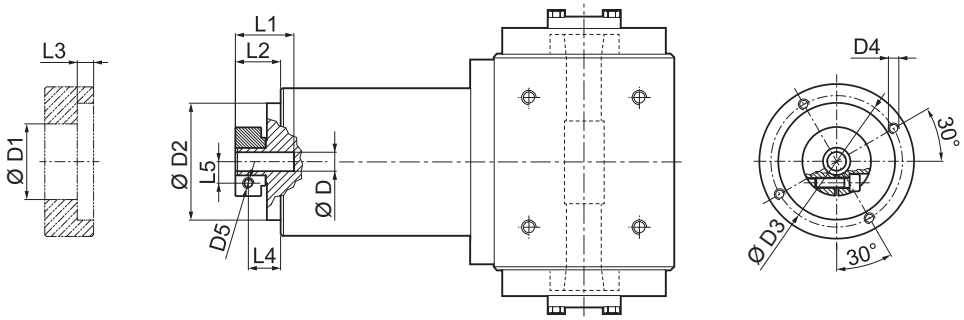

| | Kg |
|---|---|
| **MP MB 105 2** | 32 |
| **MP MB 105 3** | 34 |
| **MP MB 105 4** | 36 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP MB 105

**FM**

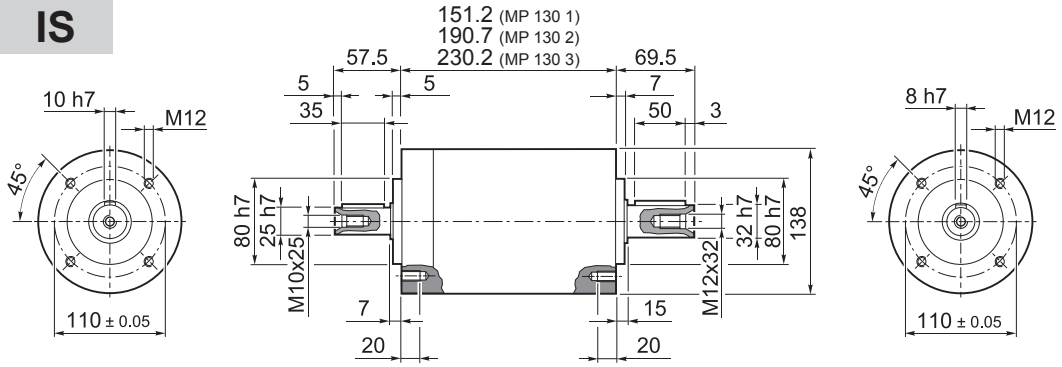



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 31.5 | 19.5 | 7.6 | 12 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 35 | 23 | 7.6 | 12 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 35 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 37 | 25 | 7.6 | 16 | 24.5 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | % | 11 ... 12.7 | 14 ... 19 | 22 - 24 | 28 - 32 |
| MP MB 105 2_3 | 100 | 180 | 360 | 2500 | 3500 | 15' | 10' | 22.0 | 94 | 1.70 | 1.78 | 2.22 | 2.59 |
| MP MB 105 2_4 | 140 | 210 | 450 | 2800 | 4500 | 15' | 10' | 22.0 | 94 | 0.99 | 1.06 | 1.51 | 1.87 |
| MP MB 105 2_5 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 22.0 | 94 | 0.72 | 0.79 | 1.23 | 1.60 |
| MP MB 105 2_6 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 22.0 | 94 | 0.36 | 0.43 | 0.88 | 1.24 |
| MP MB 105 2_7 | 140 | 210 | 450 | 3500 | 5000 | 15' | 10' | 22.0 | 94 | 0.47 | 0.55 | 0.99 | 1.35 |
| MP MB 105 2_10 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 22.0 | 94 | 0.33 | 0.41 | 0.85 | 1.21 |
| MP MB 105 3_9 | 100 | 180 | 360 | 2500 | 3500 | 15' | 10' | 20.5 | 91 | 1.58 | 1.63 | 2.07 | 2.44 |
| MP MB 105 3_12 | 170 | 250 | 600 | 2500 | 3500 | 15' | 10' | 20.5 | 91 | 1.52 | 1.59 | 2.03 | 2.40 |
| MP MB 105 3_15 | 170 | 250 | 600 | 2500 | 3500 | 15' | 10' | 20.5 | 91 | 1.47 | 1.55 | 1.99 | 2.36 |
| MP MB 105 3_16 | 170 | 250 | 600 | 2800 | 4500 | 15' | 10' | 20.5 | 91 | 0.87 | 0.95 | 1.39 | 1.76 |
| MP MB 105 3_20 | 170 | 250 | 600 | 3000 | 4500 | 15' | 10' | 20.5 | 91 | 0.86 | 0.93 | 1.37 | 1.74 |
| MP MB 105 3_25 | 170 | 250 | 600 | 3000 | 4500 | 15' | 10' | 20.5 | 91 | 0.63 | 0.71 | 1.15 | 1.51 |
| MP MB 105 3_28 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 91 | 0.43 | 0.51 | 0.95 | 1.32 |
| MP MB 105 3_30 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 20.5 | 91 | 0.32 | 0.40 | 0.84 | 1.20 |
| MP MB 105 3_35 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 91 | 0.43 | 0.50 | 0.95 | 1.31 |
| MP MB 105 3_36 | 140 | 210 | 450 | 3000 | 4500 | 15' | 10' | 20.5 | 91 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP MB 105 3_40 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 91 | 0.31 | 0.39 | 0.83 | 1.20 |
| MP MB 105 3_50 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 91 | 0.31 | 0.39 | 0.83 | 1.19 |
| MP MB 105 3_70 | 170 | 250 | 600 | 3500 | 5000 | 15' | 10' | 20.5 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP MB 105 3_100 | 100 | 180 | 360 | 3500 | 5000 | 15' | 10' | 20.5 | 91 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP MB 105 4_48 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 89 | 0.91 | 0.98 | 1.42 | 1.79 |
| MP MB 105 4_64 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 89 | 0.87 | 0.94 | 1.38 | 1.75 |
| MP MB 105 4_75 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 89 | 0.66 | 0.74 | 1.18 | 1.55 |
| MP MB 105 4_80 | 170 | 250 | 600 | 2800 | 4500 | 17' | 12' | 17.5 | 89 | 0.86 | 0.94 | 1.38 | 1.75 |
| MP MB 105 4_84 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.44 | 0.52 | 0.96 | 1.33 |
| MP MB 105 4_90 | 100 | 180 | 360 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP MB 105 4_120 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP MB 105 4_125 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 89 | 0.63 | 0.70 | 1.15 | 1.51 |
| MP MB 105 4_140 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.43 | 0.51 | 0.95 | 1.32 |
| MP MB 105 4_150 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP MB 105 4_160 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.39 | 0.83 | 1.21 |
| MP MB 105 4_175 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.43 | 0.50 | 0.95 | 1.31 |
| MP MB 105 4_200 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.39 | 0.83 | 1.20 |
| MP MB 105 4_210 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.32 | 0.39 | 0.84 | 1.20 |
| MP MB 105 4_216 | 170 | 250 | 600 | 3000 | 4500 | 17' | 12' | 17.5 | 89 | 0.31 | 0.39 | 0.83 | 1.20 |
| MP MB 105 4_250 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.39 | 0.83 | 1.19 |
| MP MB 105 4_280 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP MB 105 4_350 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP MB 105 4_400 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP MB 105 4_500 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP MB 105 4_700 | 170 | 250 | 600 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |
| MP MB 105 4_1000 | 100 | 180 | 360 | 3500 | 5000 | 17' | 12' | 17.5 | 89 | 0.31 | 0.38 | 0.83 | 1.19 |

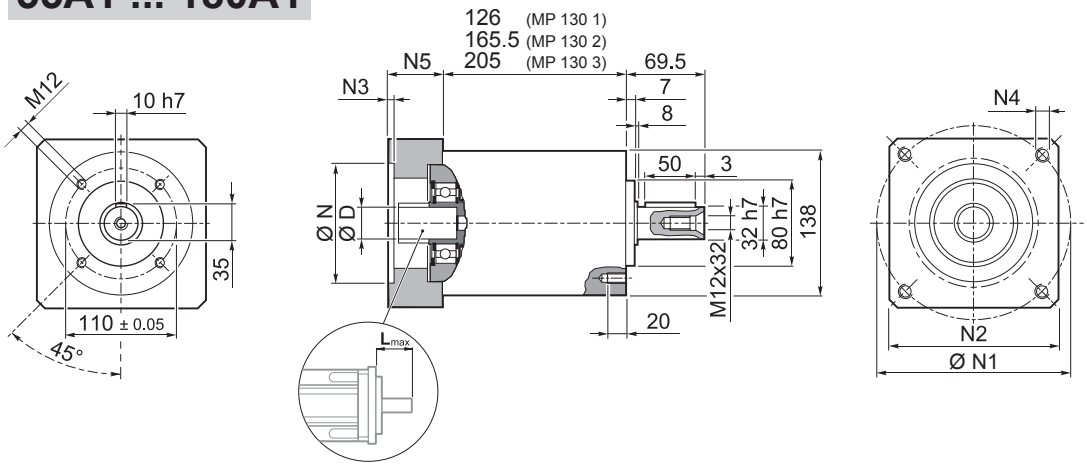
# MP 130

## IS




| | Kg |
|---|---|
| **MP 130 1** | 12.0 |
| **MP 130 2** | 15.5 |
| **MP 130 3** | 18.5 |

## 55A1 ... 180A1



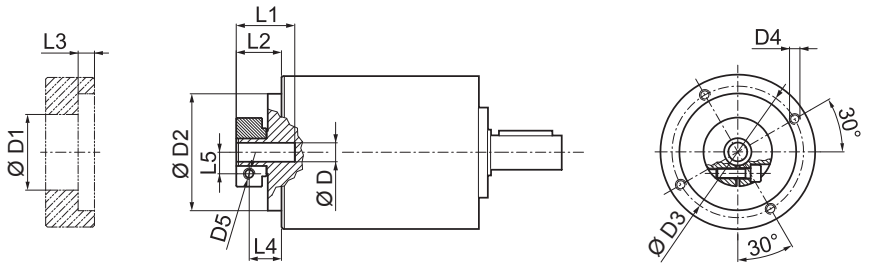

| | Kg |
|---|---|
| **MP 130 1** | 12.0 |
| **MP 130 2** | 15.5 |
| **MP 130 3** | 18.5 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A0** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 114.3 | 200 | 170 | 5.5 | M12x25 | 39.5 | 50 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP 130

**FM**

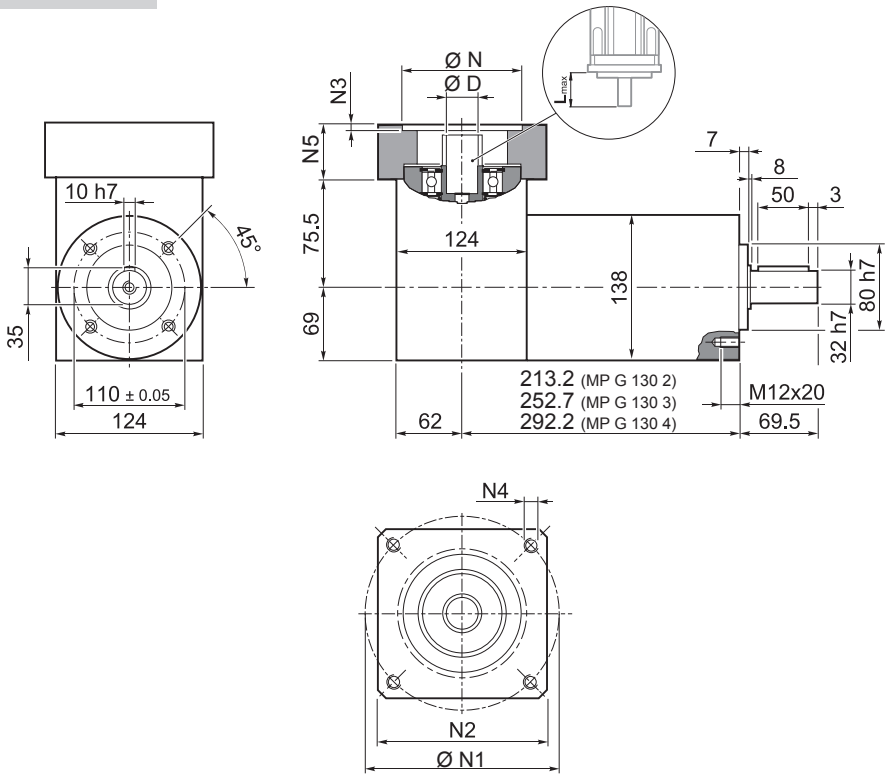



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP 130 1_3 | 215 | 400 | 800 | 2100 | 3000 | 15' | 10' | 43.0 | 800 | 5500 | 6500 | 97 | 5.25 | 5.46 | 5.81 | 7.16 |
| MP 130 1_4 | 380 | 600 | 1100 | 2400 | 3500 | 15' | 10' | 43.0 | 800 | 5500 | 6500 | 97 | 3.06 | 3.26 | 3.61 | 4.97 |
| MP 130 1_5 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 43.0 | 800 | 5500 | 6500 | 97 | 2.22 | 2.42 | 2.77 | 4.13 |
| MP 130 1_6 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 43.0 | 800 | 5500 | 6500 | 97 | 1.19 | 1.40 | 1.75 | 3.10 |
| MP 130 1_7 | 380 | 600 | 1100 | 3200 | 4000 | 15' | 10' | 43.0 | 800 | 5500 | 6500 | 97 | 1.47 | 1.68 | 2.03 | 3.38 |
| MP 130 1_10 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 43.0 | 800 | 5500 | 6500 | 97 | 1.04 | 1.25 | 1.60 | 2.95 |
| MP 130 2_9 | 215 | 400 | 800 | 2100 | 3000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 4.82 | 5.02 | 5.37 | 6.72 |
| MP 130 2_12 | 450 | 700 | 1300 | 2100 | 3000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 4.57 | 4.78 | 5.13 | 6.48 |
| MP 130 2_15 | 450 | 700 | 1300 | 2100 | 3000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 4.48 | 4.69 | 5.04 | 6.39 |
| MP 130 2_16 | 450 | 700 | 1300 | 2400 | 3500 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 2.67 | 2.88 | 3.23 | 4.58 |
| MP 130 2_20 | 450 | 700 | 1300 | 2900 | 3500 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 1.97 | 2.18 | 2.53 | 3.88 |
| MP 130 2_25 | 450 | 700 | 1300 | 2900 | 3500 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 1.94 | 2.15 | 2.50 | 3.85 |
| MP 130 2_28 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 1.34 | 1.55 | 1.90 | 3.25 |
| MP 130 2_30 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 1.00 | 1.21 | 1.56 | 2.91 |
| MP 130 2_35 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 1.33 | 1.53 | 1.88 | 3.24 |
| MP 130 2_36 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 1.05 | 1.26 | 1.61 | 2.96 |
| MP 130 2_40 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 0.98 | 1.19 | 1.54 | 2.89 |
| MP 130 2_50 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 0.97 | 1.18 | 1.53 | 2.88 |
| MP 130 2_70 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP 130 2_100 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 37.5 | 800 | 5500 | 6500 | 94 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP 130 3_48 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 2.77 | 2.98 | 3.33 | 4.68 |
| MP 130 3_64 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 2.65 | 2.86 | 3.21 | 4.56 |
| MP 130 3_75 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 2.03 | 2.24 | 2.59 | 3.94 |
| MP 130 3_80 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 2.65 | 2.85 | 3.20 | 4.56 |
| MP 130 3_84 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 1.37 | 1.58 | 1.93 | 3.28 |
| MP 130 3_90 | 215 | 400 | 800 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 1.00 | 1.20 | 1.55 | 2.91 |
| MP 130 3_120 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.99 | 1.20 | 1.55 | 2.90 |
| MP 130 3_125 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 1.93 | 2.13 | 2.48 | 3.84 |
| MP 130 3_140 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 1.34 | 1.54 | 1.89 | 3.25 |
| MP 130 3_150 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.99 | 1.20 | 1.55 | 2.90 |
| MP 130 3_160 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.98 | 1.18 | 1.53 | 2.89 |
| MP 130 3_175 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 1.32 | 1.53 | 1.88 | 3.23 |
| MP 130 3_200 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.97 | 1.18 | 1.53 | 2.88 |
| MP 130 3_210 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.99 | 1.20 | 1.55 | 2.90 |
| MP 130 3_216 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 1.05 | 1.26 | 1.61 | 2.96 |
| MP 130 3_250 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.97 | 1.18 | 1.53 | 2.88 |
| MP 130 3_280 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP 130 3_350 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP 130 3_400 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP 130 3_500 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP 130 3_700 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP 130 3_1000 | 215 | 400 | 800 | 3200 | 4000 | 17' | 12' | 29.5 | 800 | 5500 | 6500 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |

# MP G 130

## 55A1 ... 180A1




| | Kg |
|---|---|
| **MP G 130 2** | 16.0 |
| **MP G 130 3** | 19.5 |
| **MP G 130 4** | 22.5 |

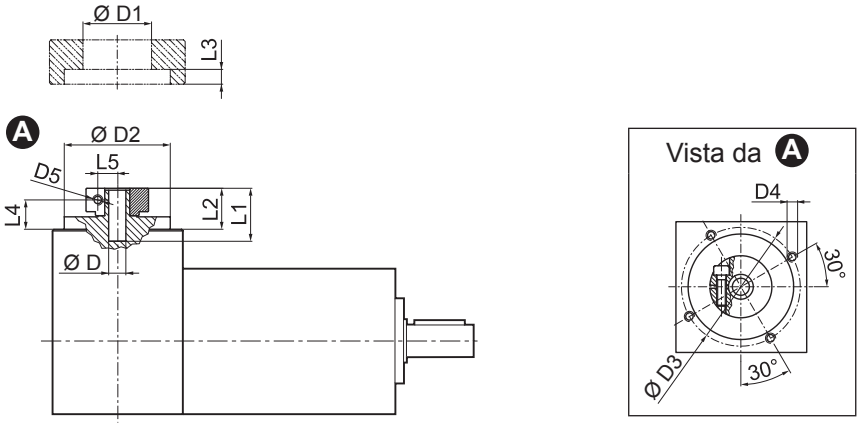


| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A0** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 114.3 | 200 | 170 | 5.5 | M12x25 | 39.5 | 50 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP G 130

**FM**

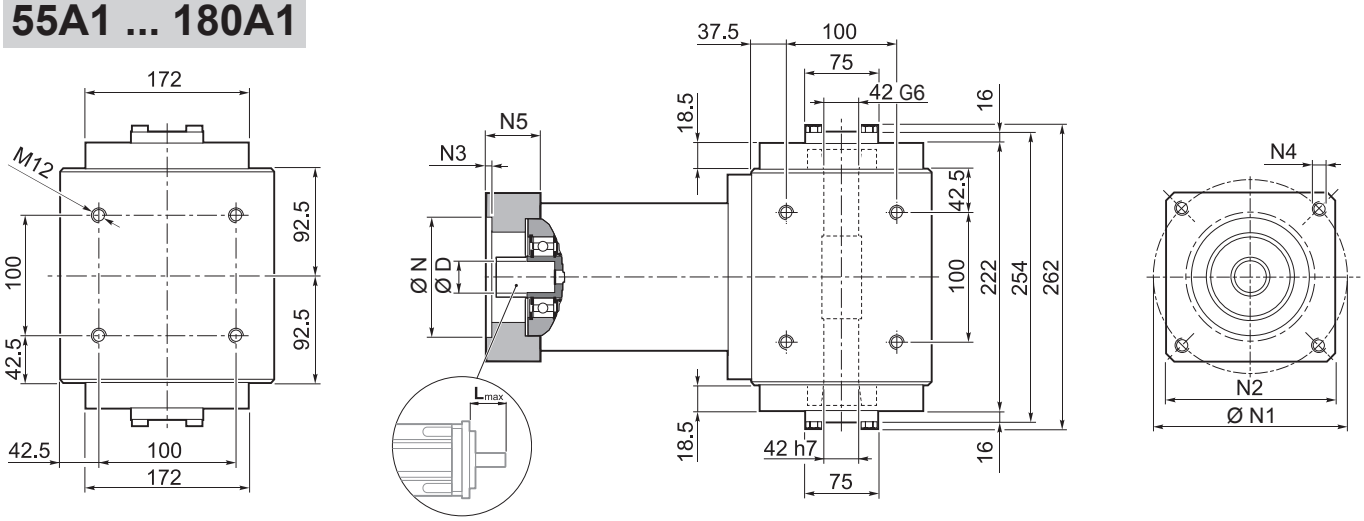



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

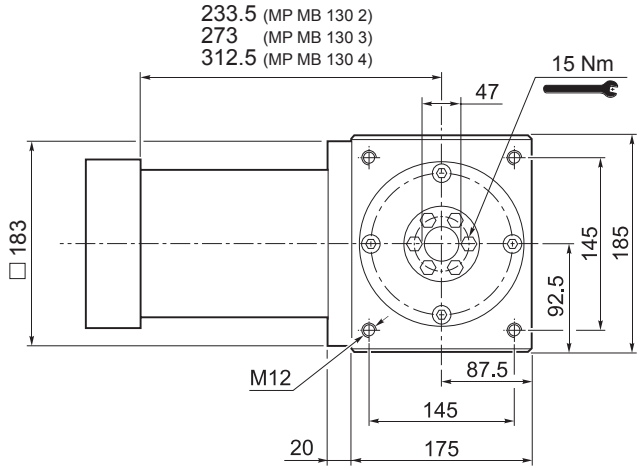
| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
| MP G 130 2_3 | 215 | 400 | 800 | 2100 | 3000 | 15' | 10' | 43.0 | 5500 | 6500 | 94 | 7.09 | 7.28 | 7.66 | 10.37 |
| MP G 130 2_4 | 380 | 600 | 1100 | 2400 | 3500 | 15' | 10' | 43.0 | 5500 | 6500 | 94 | 4.90 | 5.08 | 5.46 | 8.18 |
| MP G 130 2_5 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 43.0 | 5500 | 6500 | 94 | 4.81 | 4.99 | 5.38 | 8.10 |
| MP G 130 2_6 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 43.0 | 5500 | 6500 | 94 | 4.45 | 4.64 | 5.03 | 7.73 |
| MP G 130 2_7 | 380 | 600 | 1100 | 3200 | 4000 | 15' | 10' | 43.0 | 5500 | 6500 | 94 | 4.73 | 4.92 | 5.31 | 8.01 |
| MP G 130 2_10 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 43.0 | 5500 | 6500 | 94 | 4.68 | 4.88 | 5.26 | 7.97 |
| MP G 130 3_9 | 215 | 400 | 800 | 2100 | 3000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 6.66 | 6.84 | 7.22 | 9.93 |
| MP G 130 3_12 | 450 | 700 | 1300 | 2100 | 3000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 6.25 | 6.45 | 6.84 | 9.54 |
| MP G 130 3_15 | 450 | 700 | 1300 | 2100 | 3000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 6.25 | 6.44 | 6.83 | 9.53 |
| MP G 130 3_16 | 450 | 700 | 1300 | 2400 | 3500 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.51 | 4.70 | 5.08 | 7.79 |
| MP G 130 3_20 | 450 | 700 | 1300 | 2900 | 3500 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.56 | 5.36 | 5.75 | 8.45 |
| MP G 130 3_25 | 450 | 700 | 1300 | 2900 | 3500 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 5.13 | 4.72 | 5.11 | 7.82 |
| MP G 130 3_28 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.60 | 4.79 | 5.18 | 7.88 |
| MP G 130 3_30 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.64 | 4.84 | 5.22 | 7.93 |
| MP G 130 3_35 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.92 | 5.10 | 5.49 | 8.20 |
| MP G 130 3_36 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.31 | 4.50 | 4.89 | 7.59 |
| MP G 130 3_40 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.77 | 4.96 | 5.35 | 8.05 |
| MP G 130 3_50 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.76 | 4.96 | 5.34 | 8.05 |
| MP G 130 3_70 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.60 | 4.80 | 5.18 | 7.89 |
| MP G 130 3_100 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 37.5 | 5500 | 6500 | 91 | 4.60 | 4.80 | 5.18 | 7.89 |
| MP G 130 4_48 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.61 | 4.81 | 5.18 | 7.89 |
| MP G 130 4_64 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.49 | 4.68 | 5.06 | 7.77 |
| MP G 130 4_75 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.62 | 4.81 | 5.20 | 7.91 |
| MP G 130 4_80 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.49 | 4.67 | 5.05 | 7.77 |
| MP G 130 4_84 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.63 | 4.82 | 5.21 | 7.91 |
| MP G 130 4_90 | 215 | 400 | 800 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.64 | 4.83 | 5.21 | 7.93 |
| MP G 130 4_120 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.63 | 4.83 | 5.21 | 7.92 |
| MP G 130 4_125 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.52 | 4.70 | 5.09 | 7.81 |
| MP G 130 4_140 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.60 | 4.78 | 5.17 | 7.88 |
| MP G 130 4_150 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.63 | 4.83 | 5.21 | 7.92 |
| MP G 130 4_160 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.62 | 4.81 | 5.19 | 7.91 |
| MP G 130 4_175 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.58 | 4.77 | 5.16 | 7.86 |
| MP G 130 4_200 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.61 | 4.81 | 5.19 | 7.90 |
| MP G 130 4_210 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.63 | 4.83 | 5.21 | 7.92 |
| MP G 130 4_216 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.31 | 4.50 | 4.89 | 7.59 |
| MP G 130 4_250 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.61 | 4.81 | 5.19 | 7.90 |
| MP G 130 4_280 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| MP G 130 4_350 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| MP G 130 4_400 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| MP G 130 4_500 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| MP G 130 4_700 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |
| MP G 130 4_1000 | 215 | 400 | 800 | 3200 | 4000 | 17' | 12' | 29.5 | 5500 | 6500 | 89 | 4.60 | 4.80 | 5.18 | 7.89 |

# MP MB 130

## 55A1 ... 180A1





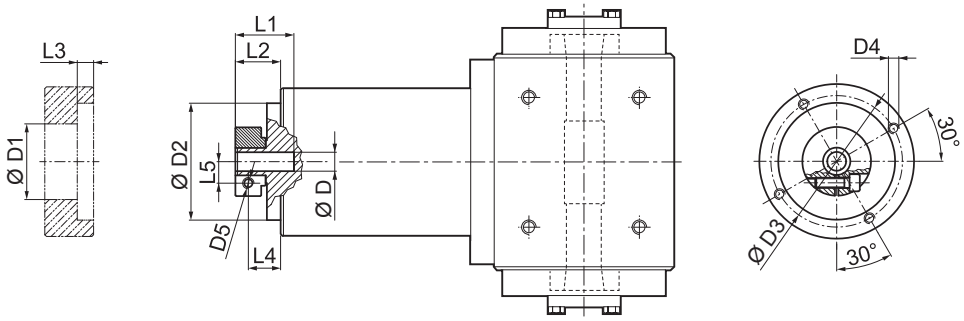

| | Kg |
|---|---|
| **MP MB 130 2** | 54 |
| **MP MB 130 3** | 58 |
| **MP MB 130 4** | 61 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A0** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 114.3 | 200 | 170 | 5.5 | M12x25 | 39.5 | 50 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP MB 130

**FM**

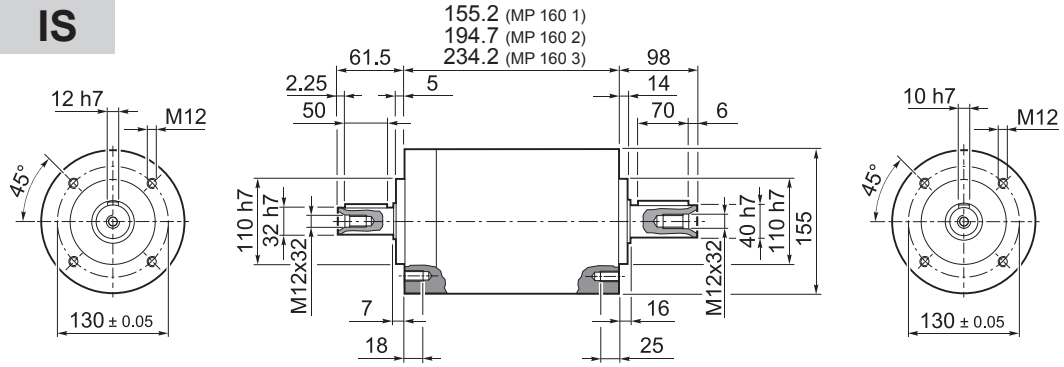



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP MB 130 2_3 | 215 | 400 | 800 | 2100 | 3000 | 15' | 10' | 43.0 | 94 | 5.25 | 5.46 | 5.81 | 7.16 |
| MP MB 130 2_4 | 380 | 600 | 1100 | 2400 | 3500 | 15' | 10' | 43.0 | 94 | 3.06 | 3.26 | 3.61 | 4.97 |
| MP MB 130 2_5 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 43.0 | 94 | 2.22 | 2.42 | 2.77 | 4.13 |
| MP MB 130 2_6 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 43.0 | 94 | 1.19 | 1.40 | 1.75 | 3.10 |
| MP MB 130 2_7 | 380 | 600 | 1100 | 3200 | 4000 | 15' | 10' | 43.0 | 94 | 1.47 | 1.68 | 2.03 | 3.38 |
| MP MB 130 2_10 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 43.0 | 94 | 1.04 | 1.25 | 1.60 | 2.95 |
| MP MB 130 3_9 | 215 | 400 | 800 | 2100 | 3000 | 15' | 10' | 37.5 | 91 | 4.82 | 5.02 | 5.37 | 6.72 |
| MP MB 130 3_12 | 450 | 700 | 1300 | 2100 | 3000 | 15' | 10' | 37.5 | 91 | 4.57 | 4.78 | 5.13 | 6.48 |
| MP MB 130 3_15 | 450 | 700 | 1300 | 2100 | 3000 | 15' | 10' | 37.5 | 91 | 4.48 | 4.69 | 5.04 | 6.39 |
| MP MB 130 3_16 | 450 | 700 | 1300 | 2400 | 3500 | 15' | 10' | 37.5 | 91 | 2.67 | 2.88 | 3.23 | 4.58 |
| MP MB 130 3_20 | 450 | 700 | 1300 | 2900 | 3500 | 15' | 10' | 37.5 | 91 | 1.97 | 2.18 | 2.53 | 3.88 |
| MP MB 130 3_25 | 450 | 700 | 1300 | 2900 | 3500 | 15' | 10' | 37.5 | 91 | 1.94 | 2.15 | 2.50 | 3.85 |
| MP MB 130 3_28 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 91 | 1.34 | 1.55 | 1.90 | 3.25 |
| MP MB 130 3_30 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 37.5 | 91 | 1.00 | 1.21 | 1.56 | 2.91 |
| MP MB 130 3_35 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 91 | 1.33 | 1.53 | 1.88 | 3.24 |
| MP MB 130 3_36 | 380 | 600 | 1100 | 2900 | 3500 | 15' | 10' | 37.5 | 91 | 1.05 | 1.26 | 1.61 | 2.96 |
| MP MB 130 3_40 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 91 | 0.98 | 1.19 | 1.54 | 2.89 |
| MP MB 130 3_50 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 91 | 0.97 | 1.18 | 1.53 | 2.88 |
| MP MB 130 3_70 | 450 | 700 | 1300 | 3200 | 4000 | 15' | 10' | 37.5 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP MB 130 3_100 | 215 | 400 | 800 | 3200 | 4000 | 15' | 10' | 37.5 | 91 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP MB 130 4_48 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 89 | 2.77 | 2.98 | 3.33 | 4.68 |
| MP MB 130 4_64 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 89 | 2.65 | 2.86 | 3.21 | 4.56 |
| MP MB 130 4_75 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 89 | 2.03 | 2.24 | 2.59 | 3.94 |
| MP MB 130 4_80 | 450 | 700 | 1300 | 2400 | 3500 | 17' | 12' | 29.5 | 89 | 2.65 | 2.85 | 3.20 | 4.56 |
| MP MB 130 4_84 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 1.37 | 1.58 | 1.93 | 3.28 |
| MP MB 130 4_90 | 215 | 400 | 800 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 1.00 | 1.20 | 1.55 | 2.91 |
| MP MB 130 4_120 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.99 | 1.20 | 1.55 | 2.90 |
| MP MB 130 4_125 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 89 | 1.93 | 2.13 | 2.48 | 3.84 |
| MP MB 130 4_140 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 1.34 | 1.54 | 1.89 | 3.25 |
| MP MB 130 4_150 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.99 | 1.20 | 1.55 | 2.90 |
| MP MB 130 4_160 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.98 | 1.18 | 1.53 | 2.89 |
| MP MB 130 4_175 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 1.32 | 1.53 | 1.88 | 3.23 |
| MP MB 130 4_200 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.97 | 1.18 | 1.53 | 2.88 |
| MP MB 130 4_210 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.99 | 1.20 | 1.55 | 2.90 |
| MP MB 130 4_216 | 450 | 700 | 1300 | 2900 | 3500 | 17' | 12' | 29.5 | 89 | 1.05 | 1.26 | 1.61 | 2.96 |
| MP MB 130 4_250 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.97 | 1.18 | 1.53 | 2.88 |
| MP MB 130 4_280 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP MB 130 4_350 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP MB 130 4_400 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP MB 130 4_500 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP MB 130 4_700 | 450 | 700 | 1300 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |
| MP MB 130 4_1000 | 215 | 400 | 800 | 3200 | 4000 | 17' | 12' | 29.5 | 89 | 0.96 | 1.17 | 1.52 | 2.87 |

# MP 160

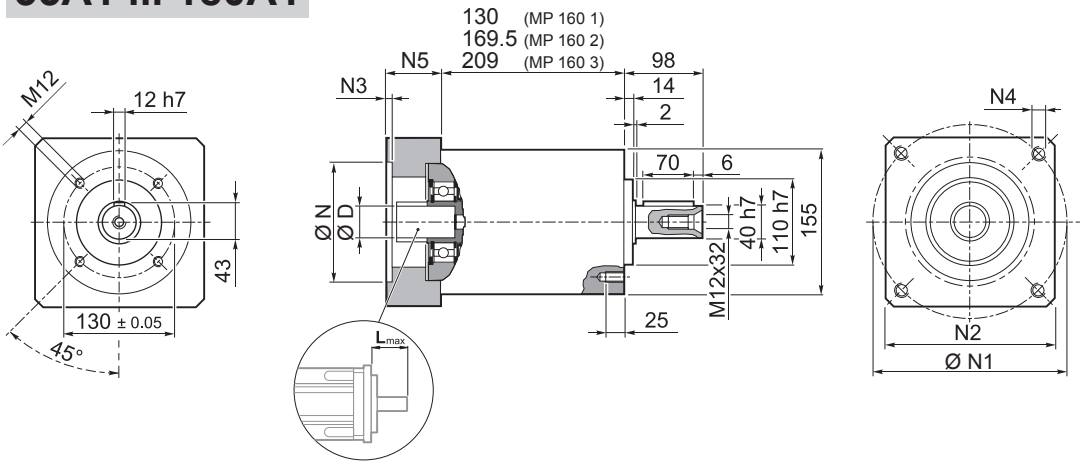
## IS




| | Kg |
|---|---|
| **MP 160 1** | 17.0 |
| **MP 160 2** | 21 |
| **MP 160 3** | 28 |



## 55A1 ... 180A1



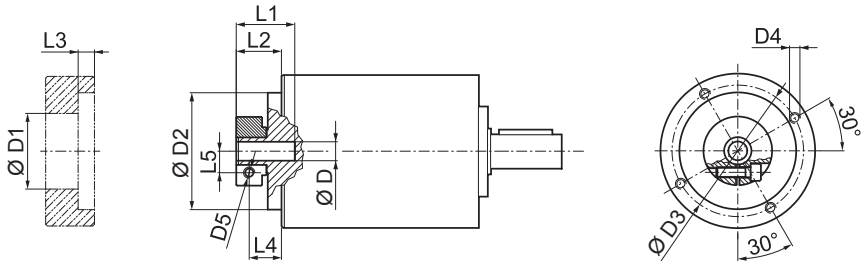

| | Kg |
|---|---|
| **MP 160 1** | 17.0 |
| **MP 160 2** | 21 |
| **MP 160 3** | 28 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 140 | 5 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 140 | 5 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 140 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 6.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 5 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP 160

**FM**

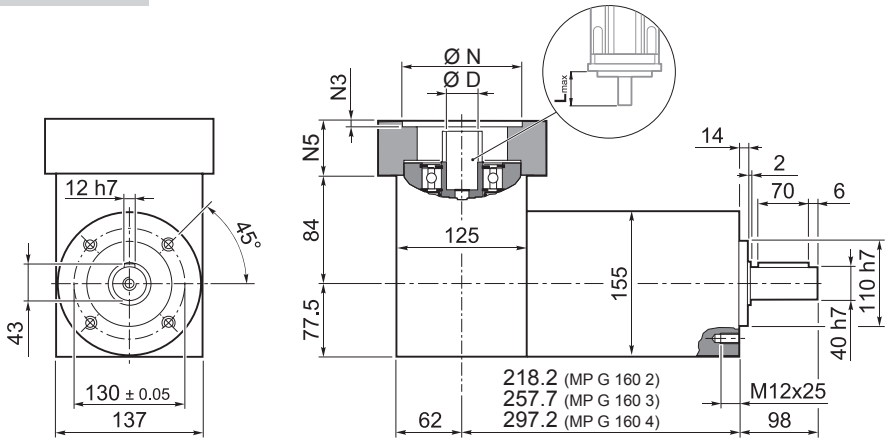


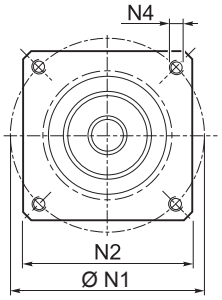

| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 130 | 142.5 | M8x16 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 130 | 142.5 | M8x16 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 130 | 142.5 | M8x16 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 130 | 142.5 | M8x16 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 130 | 142.5 | M8x16 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 130 | 142.5 | M8x16 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 130 | 142.5 | M8x16 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP 160 1_3 | 350 | 660 | 1200 | 1900 | 3000 | 15' | 10' | 90 | 1200 | 6500 | 7500 | 97 | 8.39 | 8.60 | 8.95 | 10.30 |
| MP 160 1_4 | 500 | 750 | 1400 | 2200 | 3500 | 15' | 10' | 90 | 1200 | 6500 | 7500 | 97 | 4.68 | 4.89 | 5.24 | 6.59 |
| MP 160 1_5 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 90 | 1200 | 6500 | 7500 | 97 | 3.28 | 3.49 | 3.84 | 5.19 |
| MP 160 1_6 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 90 | 1200 | 6500 | 7500 | 97 | 1.32 | 1.53 | 1.88 | 3.23 |
| MP 160 1_7 | 500 | 750 | 1400 | 3000 | 4000 | 15' | 10' | 90 | 1200 | 6500 | 7500 | 97 | 2.03 | 2.24 | 2.59 | 3.94 |
| MP 160 1_10 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 90 | 1200 | 6500 | 7500 | 97 | 1.33 | 1.53 | 1.88 | 3.24 |
| MP 160 2_9 | 350 | 660 | 1200 | 1900 | 3000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 7.51 | 7.72 | 8.07 | 9.42 |
| MP 160 2_12 | 700 | 950 | 1800 | 1900 | 3000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 7.10 | 7.30 | 7.65 | 9.01 |
| MP 160 2_15 | 700 | 950 | 1800 | 1900 | 3000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 6.94 | 7.15 | 7.50 | 8.85 |
| MP 160 2_16 | 700 | 950 | 1800 | 2200 | 3500 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 3.95 | 4.16 | 4.51 | 5.86 |
| MP 160 2_20 | 700 | 950 | 1800 | 2500 | 3500 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 2.82 | 3.02 | 3.37 | 4.73 |
| MP 160 2_25 | 700 | 950 | 1800 | 2500 | 3500 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 2.76 | 2.97 | 3.32 | 4.67 |
| MP 160 2_28 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 1.79 | 2.00 | 2.35 | 3.70 |
| MP 160 2_30 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 1.25 | 1.46 | 1.81 | 3.16 |
| MP 160 2_35 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 1.77 | 1.97 | 2.32 | 3.68 |
| MP 160 2_36 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 1.06 | 1.27 | 1.62 | 2.97 |
| MP 160 2_40 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 1.21 | 1.42 | 1.77 | 3.12 |
| MP 160 2_50 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 1.20 | 1.40 | 1.75 | 3.11 |
| MP 160 2_70 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 1.18 | 1.39 | 1.74 | 3.09 |
| MP 160 2_100 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 83 | 1200 | 6500 | 7500 | 94 | 1.18 | 1.38 | 1.73 | 3.09 |
| MP 160 3_48 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 4.10 | 4.31 | 4.66 | 6.01 |
| MP 160 3_64 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 3.90 | 4.11 | 4.46 | 5.81 |
| MP 160 3_75 | 700 | 950 | 1800 | 2500 | 3500 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 2.91 | 3.11 | 3.46 | 4.82 |
| MP 160 3_80 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 3.90 | 4.11 | 4.46 | 5.81 |
| MP 160 3_84 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.84 | 2.05 | 2.40 | 3.75 |
| MP 160 3_90 | 350 | 660 | 1200 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.24 | 1.45 | 1.80 | 3.15 |
| MP 160 3_120 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.23 | 1.44 | 1.79 | 3.14 |
| MP 160 3_125 | 700 | 950 | 1800 | 2500 | 3500 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 2.74 | 2.95 | 3.30 | 4.65 |
| MP 160 3_140 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.78 | 1.98 | 2.33 | 3.69 |
| MP 160 3_150 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.23 | 1.44 | 1.79 | 3.14 |
| MP 160 3_160 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.20 | 1.41 | 1.76 | 3.11 |
| MP 160 3_175 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.76 | 1.96 | 2.31 | 3.67 |
| MP 160 3_200 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.20 | 1.41 | 1.76 | 3.11 |
| MP 160 3_210 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.23 | 1.44 | 1.79 | 3.14 |
| MP 160 3_250 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.19 | 1.40 | 1.75 | 3.10 |
| MP 160 3_280 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.39 | 1.74 | 3.09 |
| MP 160 3_350 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.39 | 1.74 | 3.09 |
| MP 160 3_400 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |
| MP 160 3_500 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |
| MP 160 3_700 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |
| MP 160 3_1000 | 350 | 660 | 1200 | 3000 | 4000 | 17' | 12' | 60 | 1200 | 6500 | 7500 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |

# MP G 160

## 55A1 ... 180A1




| | Kg |
|---|---|
| **MP G 160 2** | 24 |
| **MP G 160 3** | 28 |
| **MP G 160 4** | 34 |

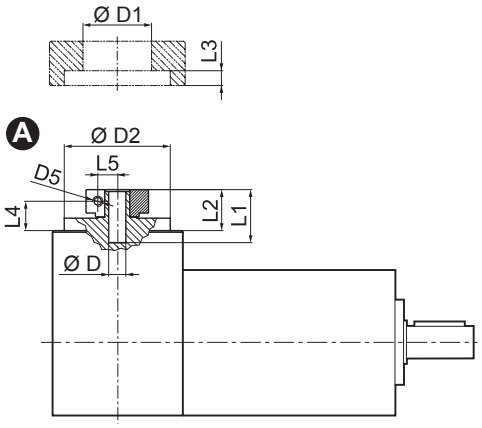
MP

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 140 | 5 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 140 | 5 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 140 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 6.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 5 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP G 160

**FM**

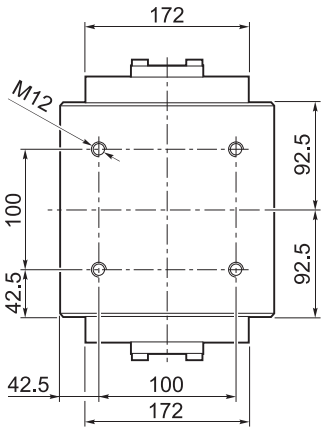


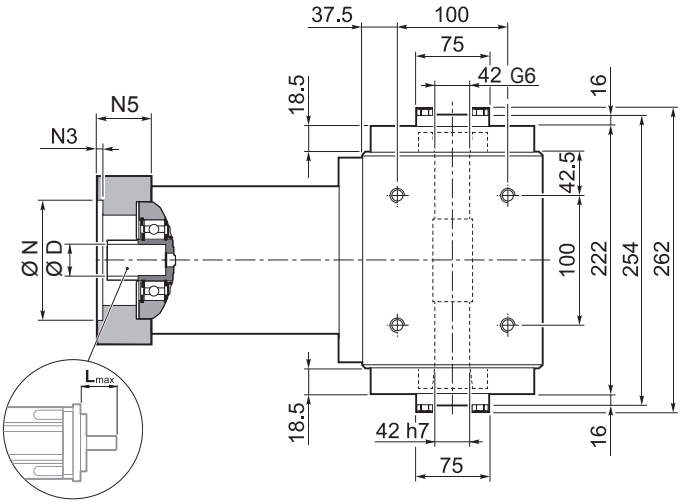

| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

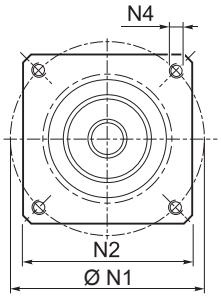
| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
| MP G 160 2_3 | 350 | 660 | 1200 | 1900 | 3000 | 15' | 10' | 90 | 6500 | 7500 | 94 | 10.23 | 10.42 | 10.80 | 13.51 |
| MP G 160 2_4 | 500 | 750 | 1400 | 2200 | 3500 | 15' | 10' | 90 | 6500 | 7500 | 94 | 6.52 | 6.71 | 7.09 | 9.80 |
| MP G 160 2_5 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 90 | 6500 | 7500 | 94 | 5.87 | 6.06 | 6.45 | 9.16 |
| MP G 160 2_6 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 90 | 6500 | 7500 | 94 | 4.58 | 4.77 | 5.16 | 7.86 |
| MP G 160 2_7 | 500 | 750 | 1400 | 3000 | 4000 | 15' | 10' | 90 | 6500 | 7500 | 94 | 5.29 | 5.48 | 5.87 | 8.57 |
| MP G 160 2_10 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 90 | 6500 | 7500 | 94 | 4.97 | 5.16 | 5.54 | 8.25 |
| MP G 160 3_9 | 350 | 660 | 1200 | 1900 | 3000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 9.35 | 9.54 | 9.92 | 12.63 |
| MP G 160 3_12 | 700 | 950 | 1800 | 1900 | 3000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 8.78 | 8.97 | 9.36 | 12.07 |
| MP G 160 3_15 | 700 | 950 | 1800 | 1900 | 3000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 8.71 | 8.90 | 9.29 | 11.99 |
| MP G 160 3_16 | 700 | 950 | 1800 | 2200 | 3500 | 15' | 10' | 83 | 6500 | 7500 | 91 | 5.79 | 5.98 | 6.36 | 9.07 |
| MP G 160 3_20 | 700 | 950 | 1800 | 2500 | 3500 | 15' | 10' | 83 | 6500 | 7500 | 91 | 5.41 | 6.20 | 6.59 | 9.30 |
| MP G 160 3_25 | 700 | 950 | 1800 | 2500 | 3500 | 15' | 10' | 83 | 6500 | 7500 | 91 | 5.95 | 5.54 | 5.93 | 8.64 |
| MP G 160 3_28 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 5.05 | 5.24 | 5.63 | 8.33 |
| MP G 160 3_30 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 4.89 | 5.09 | 5.47 | 8.18 |
| MP G 160 3_35 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 5.36 | 5.54 | 5.93 | 8.64 |
| MP G 160 3_36 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 83 | 6500 | 7500 | 91 | 4.32 | 4.51 | 4.90 | 7.60 |
| MP G 160 3_40 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 5.00 | 5.19 | 5.58 | 8.28 |
| MP G 160 3_50 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 4.99 | 5.18 | 5.56 | 8.27 |
| MP G 160 3_70 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 4.82 | 5.02 | 5.40 | 8.11 |
| MP G 160 3_100 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 83 | 6500 | 7500 | 91 | 4.82 | 5.01 | 5.39 | 8.10 |
| MP G 160 4_48 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 6500 | 7500 | 89 | 5.94 | 6.13 | 6.53 | 9.22 |
| MP G 160 4_64 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 6500 | 7500 | 89 | 5.74 | 5.93 | 6.31 | 9.02 |
| MP G 160 4_75 | 700 | 950 | 1800 | 2500 | 3500 | 17' | 12' | 60 | 6500 | 7500 | 89 | 5.50 | 5.68 | 6.07 | 8.79 |
| MP G 160 4_80 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 6500 | 7500 | 89 | 5.74 | 5.93 | 6.31 | 9.02 |
| MP G 160 4_84 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 5.10 | 5.29 | 5.68 | 8.38 |
| MP G 160 4_90 | 350 | 660 | 1200 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.88 | 5.08 | 5.46 | 8.17 |
| MP G 160 4_120 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.87 | 5.07 | 5.45 | 8.16 |
| MP G 160 4_125 | 700 | 950 | 1800 | 2500 | 3500 | 17' | 12' | 60 | 6500 | 7500 | 89 | 5.33 | 5.52 | 5.91 | 8.62 |
| MP G 160 4_140 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 5.04 | 5.22 | 5.61 | 8.32 |
| MP G 160 4_150 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.87 | 5.07 | 5.45 | 8.16 |
| MP G 160 4_160 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.84 | 5.04 | 5.42 | 8.13 |
| MP G 160 4_175 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 5.02 | 5.20 | 5.59 | 8.30 |
| MP G 160 4_200 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.84 | 5.04 | 5.42 | 8.13 |
| MP G 160 4_210 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.87 | 5.07 | 5.45 | 8.16 |
| MP G 160 4_250 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.83 | 5.03 | 5.41 | 8.12 |
| MP G 160 4_280 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.82 | 5.02 | 5.40 | 8.11 |
| MP G 160 4_350 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.82 | 2.05 | 5.40 | 8.11 |
| MP G 160 4_400 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.82 | 5.01 | 5.39 | 8.11 |
| MP G 160 4_500 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.82 | 5.01 | 5.39 | 8.11 |
| MP G 160 4_700 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.82 | 5.01 | 5.39 | 8.11 |
| MP G 160 4_1000 | 350 | 660 | 1200 | 3000 | 4000 | 17' | 12' | 60 | 6500 | 7500 | 89 | 4.82 | 5.01 | 5.39 | 8.11 |

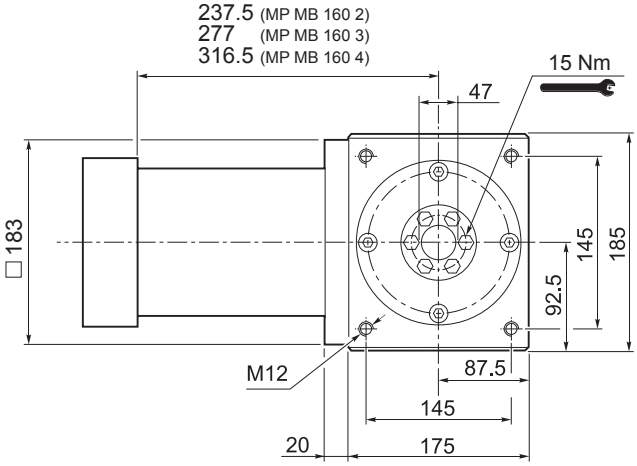
# MP MB 160

## 55A1 ... 180A1



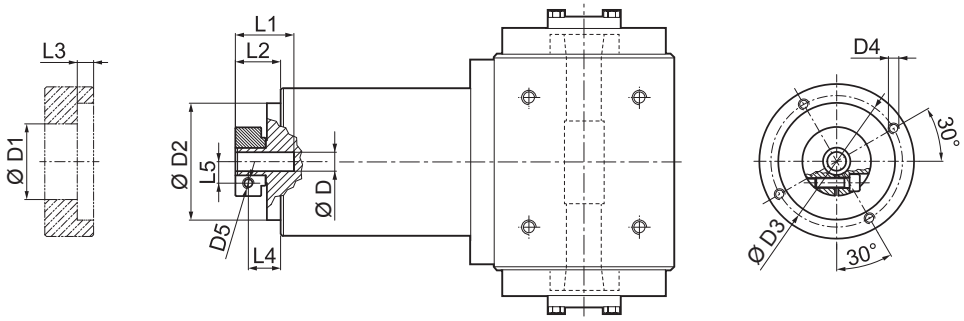

| | Kg |
|---|---|
| **MP MB 160 2** | 59 |
| **MP MB 160 3** | 63.5 |
| **MP MB 160 4** | 70.5 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 140 | 5 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | – | – | – | 80 | 100 | 140 | 5 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 140 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 6.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 5 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MP MB 160

**FM**

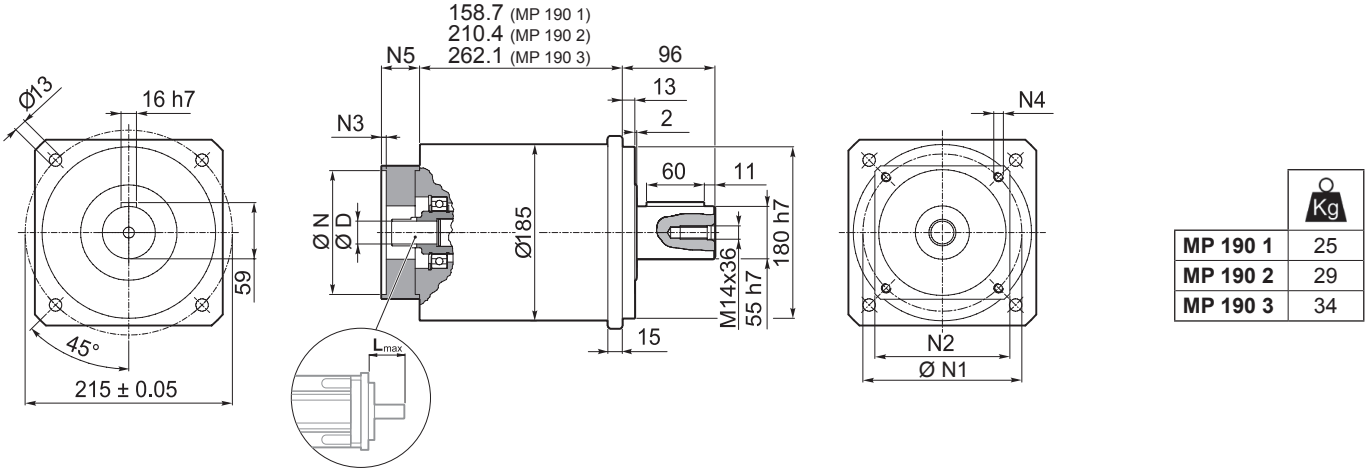



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 130 | 142.5 | M8x16 | M6 | 40 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 130 | 142.5 | M8x16 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 130 | 142.5 | M8x16 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | | | 67 | 130 | 142.5 | M8x16 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | | | 71 | 130 | 142.5 | M8x16 | M8 | 41 | 28.5 | 6 | 19.5 | 24.5 |
| 35 | | | 73 | 130 | 142.5 | M8x16 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | | | 77.5 | 130 | 142.5 | M8x16 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | 22 - 24 | 28 - 32 | 35 - 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP MB 160 2_3 | 350 | 660 | 1200 | 1900 | 3000 | 15' | 10' | 90 | 94 | 8.39 | 8.60 | 8.95 | 10.30 |
| MP MB 160 2_4 | 500 | 750 | 1400 | 2200 | 3500 | 15' | 10' | 90 | 94 | 4.68 | 4.89 | 5.24 | 6.59 |
| MP MB 160 2_5 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 90 | 94 | 3.28 | 3.49 | 3.84 | 5.19 |
| MP MB 160 2_6 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 90 | 94 | 1.32 | 1.53 | 1.88 | 3.23 |
| MP MB 160 2_7 | 500 | 750 | 1400 | 3000 | 4000 | 15' | 10' | 90 | 94 | 2.03 | 2.24 | 2.59 | 3.94 |
| MP MB 160 2_10 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 90 | 94 | 1.33 | 1.53 | 1.88 | 3.24 |
| MP MB 160 3_9 | 350 | 660 | 1200 | 1900 | 3000 | 15' | 10' | 83 | 91 | 7.51 | 7.72 | 8.07 | 9.42 |
| MP MB 160 3_12 | 700 | 950 | 1800 | 1900 | 3000 | 15' | 10' | 83 | 91 | 7.10 | 7.30 | 7.65 | 9.01 |
| MP MB 160 3_15 | 700 | 950 | 1800 | 1900 | 3000 | 15' | 10' | 83 | 91 | 6.94 | 7.15 | 7.50 | 8.85 |
| MP MB 160 3_16 | 700 | 950 | 1800 | 2200 | 3500 | 15' | 10' | 83 | 91 | 3.95 | 4.16 | 4.51 | 5.86 |
| MP MB 160 3_20 | 700 | 950 | 1800 | 2500 | 3500 | 15' | 10' | 83 | 91 | 2.82 | 3.02 | 3.37 | 4.73 |
| MP MB 160 3_25 | 700 | 950 | 1800 | 2500 | 3500 | 15' | 10' | 83 | 91 | 2.76 | 2.97 | 3.32 | 4.67 |
| MP MB 160 3_28 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 91 | 1.79 | 2.00 | 2.35 | 3.70 |
| MP MB 160 3_30 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 83 | 91 | 1.25 | 1.46 | 1.81 | 3.16 |
| MP MB 160 3_35 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 91 | 1.77 | 1.97 | 2.32 | 3.68 |
| MP MB 160 3_36 | 500 | 750 | 1400 | 2500 | 3500 | 15' | 10' | 83 | 91 | 1.06 | 1.27 | 1.62 | 2.97 |
| MP MB 160 3_40 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 91 | 1.21 | 1.42 | 1.77 | 3.12 |
| MP MB 160 3_50 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 91 | 1.20 | 1.40 | 1.75 | 3.11 |
| MP MB 160 3_70 | 700 | 950 | 1800 | 3000 | 4000 | 15' | 10' | 83 | 91 | 1.18 | 1.39 | 1.74 | 3.09 |
| MP MB 160 3_100 | 350 | 660 | 1200 | 3000 | 4000 | 15' | 10' | 83 | 91 | 1.18 | 1.38 | 1.73 | 3.09 |
| MP MB 160 4_48 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 89 | 4.10 | 4.31 | 4.66 | 6.01 |
| MP MB 160 4_64 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 89 | 3.90 | 4.11 | 4.46 | 5.81 |
| MP MB 160 4_75 | 700 | 950 | 1800 | 2500 | 3500 | 17' | 12' | 60 | 89 | 2.91 | 3.11 | 3.46 | 4.82 |
| MP MB 160 4_80 | 700 | 950 | 1800 | 2200 | 3500 | 17' | 12' | 60 | 89 | 3.90 | 4.11 | 4.46 | 5.81 |
| MP MB 160 4_84 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.84 | 2.05 | 2.40 | 3.75 |
| MP MB 160 4_90 | 350 | 660 | 1200 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.24 | 1.45 | 1.80 | 3.15 |
| MP MB 160 4_120 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.23 | 1.44 | 1.79 | 3.14 |
| MP MB 160 4_125 | 700 | 950 | 1800 | 2500 | 3500 | 17' | 12' | 60 | 89 | 2.74 | 2.95 | 3.30 | 4.65 |
| MP MB 160 4_140 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.78 | 1.98 | 2.33 | 3.69 |
| MP MB 160 4_150 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.23 | 1.44 | 1.79 | 3.14 |
| MP MB 160 4_160 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.20 | 1.41 | 1.76 | 3.11 |
| MP MB 160 4_175 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.76 | 1.96 | 2.31 | 3.67 |
| MP MB 160 4_200 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.20 | 1.41 | 1.76 | 3.11 |
| MP MB 160 4_210 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.23 | 1.44 | 1.79 | 3.14 |
| MP MB 160 4_250 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.19 | 1.40 | 1.75 | 3.10 |
| MP MB 160 4_280 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.18 | 1.39 | 1.74 | 3.09 |
| MP MB 160 4_350 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.18 | 1.39 | 1.74 | 3.09 |
| MP MB 160 4_400 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.18 | 1.38 | 1.73 | 3.09 |
| MP MB 160 4_500 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.18 | 1.38 | 1.73 | 3.09 |
| MP MB 160 4_700 | 700 | 950 | 1800 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.18 | 1.38 | 1.73 | 3.09 |
| MP MB 160 4_1000 | 350 | 660 | 1200 | 3000 | 4000 | 17' | 12' | 60 | 89 | 1.18 | 1.38 | 1.73 | 3.09 |

# MP 190

## 55A1 ... 180A1

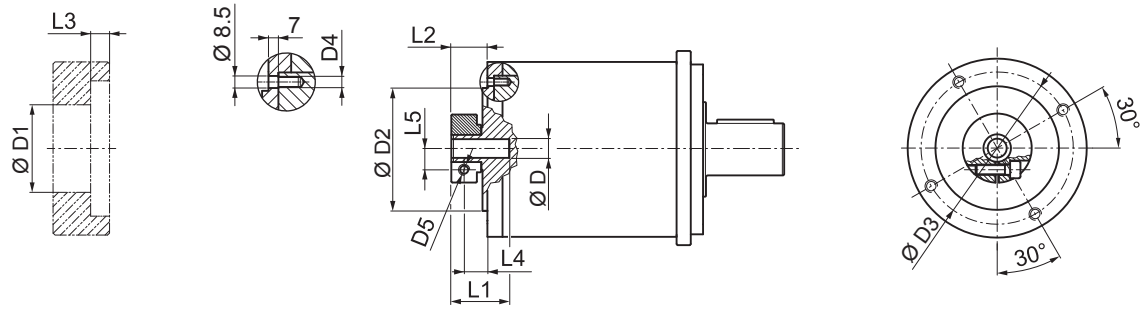



| | Kg |
|---|---|
| **MP 190 1** | 25 |
| **MP 190 2** | 29 |
| **MP 190 3** | 34 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 16 | 19 | – | – | – | – | – | – | – | – | – | 55.5 | 125.7 | 140 | 5 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 16 | 19 | – | – | – | | | | – | – | – | 80 | 100 | 140 | 5 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 16 | 19 | 22 | 24 | – | – | – | – | – | – | – | 95 | 115 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 16 | 19 | 22 | 24 | – | – | – | – | – | – | – | 110 | 130 | 140 | 5 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 16 | 19 | 22 | 24 | – | – | – | – | – | – | – | 110 | 145 | 140 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 42 | 45 | 48 | 114.3 | 200 | 170 | 6.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 16 | 19 | 22 | 24 | – | – | – | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | – | – | – | 130 | 165 | 140 | 5 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 16 | 19 | 22 | 24 | 28 | 32 | – | – | – | – | – | 180 | 215 | 190 | 6.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 16 | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 42 | 45 | 48 | 180 | 215 | 190 | 6.5 | M14x25 | 69.5 | 80 |

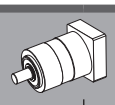
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

## FM




| D | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 16 | 48 | 130 | 142.5 | M8x14 | M6 | 45.5 | 27.5 | 6 | 20 | 14.5 |
| 19 | | 51 | 130 | 142.5 | M8x14 | M6 | 45.5 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | 56.5 | 130 | 142.5 | M8x14 | M6 | 47 | 29 | 6 | 20 | 19 |
| 28 | | 67 | 130 | 142.5 | M8x14 | M8 | 47 | 29 | 6 | 20 | 22.5 |
| 32 | | 71 | 130 | 142.5 | M8x14 | M8 | 47 | 29 | 6 | 20 | 24.5 |
| 35 | | 73 | 130 | 142.5 | M8x14 | M8 | 54.5 | 36.5 | 6 | 25 | 26 |
| 38 | | 77.5 | 130 | 142.5 | M8x14 | M8 | 54.5 | 36.5 | 6 | 25 | 28 |
| 42 | | 92 | 130 | 142.5 | M8x14 | M10 | 60.5 | 40 | 6 | 25 | 33 |
| 45 | | 95 | 130 | 142.5 | M8x14 | M10 | 60.5 | 40 | 6 | 25 | 33 |
| 48 | | 97 | 130 | 142.5 | M8x14 | M10 | 60.5 | 40 | 6 | 25 | 33 |

# MP 190

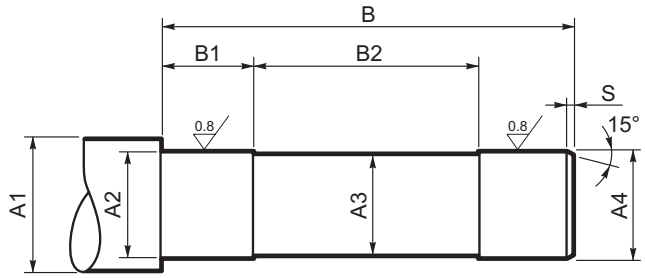


| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 24 | 28 - 32 | 35 - 35 | 42 | 45 - 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP 190 1_3 | 500 | 800 | 1400 | 1500 | 2500 | 15' | 10' | 130 | 14000 | 15000 | 97 | 24.20 | 24.88 | 25.65 | 29.30 | 29.90 |
| MP 190 1_4 | 700 | 950 | 1800 | 2100 | 3000 | 15' | 10' | 130 | 14000 | 15000 | 97 | 13.41 | 14.09 | 14.85 | 18.51 | 19.11 |
| MP 190 1_5 | 700 | 950 | 1800 | 2300 | 3000 | 15' | 10' | 130 | 14000 | 15000 | 97 | 9.32 | 10.00 | 10.77 | 14.42 | 15.02 |
| MP 190 1_6 | 700 | 950 | 1800 | 2300 | 3000 | 15' | 10' | 130 | 14000 | 15000 | 97 | 2.88 | 3.56 | 4.33 | 7.98 | 8.58 |
| MP 190 1_7 | 700 | 950 | 1800 | 2900 | 3500 | 15' | 10' | 130 | 14000 | 15000 | 97 | 5.68 | 6.36 | 7.13 | 10.78 | 11.38 |
| MP 190 1_10 | 500 | 800 | 1400 | 2900 | 3500 | 15' | 10' | 130 | 14000 | 15000 | 97 | 3.57 | 4.25 | 5.02 | 8.67 | 9.27 |
| MP 190 2_9 | 500 | 800 | 1400 | 1500 | 2500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 23.23 | 23.91 | 24.67 | 28.33 | 28.93 |
| MP 190 2_12 | 1000 | 1200 | 2200 | 1500 | 2500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 22.03 | 22.71 | 23.48 | 27.13 | 27.73 |
| MP 190 2_15 | 1000 | 1200 | 2200 | 1500 | 2500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 21.58 | 22.25 | 23.02 | 26.68 | 27.27 |
| MP 190 2_16 | 1000 | 1200 | 2200 | 2100 | 3000 | 15' | 10' | 100 | 14000 | 15000 | 94 | 12.19 | 12.86 | 13.63 | 17.29 | 17.89 |
| MP 190 2_20 | 1000 | 1200 | 2200 | 2300 | 3000 | 15' | 10' | 100 | 14000 | 15000 | 94 | 8.54 | 9.22 | 9.98 | 13.64 | 14.24 |
| MP 190 2_25 | 1000 | 1200 | 2200 | 2300 | 3000 | 15' | 10' | 100 | 14000 | 15000 | 94 | 8.37 | 9.05 | 9.82 | 13.48 | 14.07 |
| MP 190 2_28 | 1000 | 1200 | 2200 | 2900 | 3500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 5.28 | 5.96 | 6.73 | 10.38 | 10.98 |
| MP 190 2_30 | 500 | 800 | 1400 | 2900 | 3500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 3.48 | 4.16 | 4.93 | 8.58 | 9.18 |
| MP 190 2_35 | 1000 | 1200 | 2200 | 2900 | 3500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 5.20 | 5.87 | 6.64 | 10.30 | 10.90 |
| MP 190 2_36 | 700 | 950 | 1800 | 2300 | 3000 | 15' | 10' | 100 | 14000 | 15000 | 94 | 2.18 | 2.86 | 3.63 | 7.28 | 7.88 |
| MP 190 2_40 | 1000 | 1200 | 2200 | 2900 | 3500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 3.37 | 4.05 | 4.82 | 8.48 | 9.07 |
| MP 190 2_50 | 1000 | 1200 | 2200 | 2900 | 3500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 3.33 | 4.01 | 4.78 | 8.44 | 9.03 |
| MP 190 2_70 | 1000 | 1200 | 2200 | 2900 | 3500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 3.30 | 3.97 | 4.74 | 8.40 | 9.00 |
| MP 190 2_100 | 500 | 800 | 1400 | 2900 | 3500 | 15' | 10' | 100 | 14000 | 15000 | 94 | 3.28 | 3.95 | 4.72 | 8.38 | 8.98 |
| MP 190 3_48 | 1000 | 1200 | 2200 | 2100 | 3000 | 17' | 12' | 90 | 14000 | 15000 | 91 | 12.73 | 13.40 | 14.17 | 17.83 | 18.43 |
| MP 190 3_64 | 1000 | 1200 | 2200 | 2100 | 3000 | 17' | 12' | 90 | 14000 | 15000 | 91 | 12.10 | 12.78 | 13.55 | 17.21 | 17.80 |
| MP 190 3_75 | 1000 | 1200 | 2200 | 2300 | 3000 | 17' | 12' | 90 | 14000 | 15000 | 91 | 8.86 | 9.54 | 10.31 | 13.97 | 14.56 |
| MP 190 3_80 | 1000 | 1200 | 2200 | 2100 | 3000 | 17' | 12' | 90 | 14000 | 15000 | 91 | 12.09 | 12.76 | 13.53 | 17.19 | 17.79 |
| MP 190 3_84 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 5.46 | 6.13 | 6.90 | 10.56 | 11.16 |
| MP 190 3_90 | 500 | 800 | 1400 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.47 | 4.15 | 4.92 | 8.57 | 9.17 |
| MP 190 3_120 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.46 | 4.14 | 4.91 | 8.56 | 9.16 |
| MP 190 3_125 | 1000 | 1200 | 2200 | 2300 | 3000 | 17' | 12' | 90 | 14000 | 15000 | 91 | 8.34 | 9.01 | 9.78 | 13.44 | 14.04 |
| MP 190 3_140 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 5.25 | 5.92 | 6.69 | 10.35 | 10.95 |
| MP 190 3_150 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.46 | 4.13 | 4.90 | 8.56 | 9.15 |
| MP 190 3_160 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.36 | 4.04 | 4.81 | 8.46 | 9.06 |
| MP 190 3_175 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 5.18 | 5.85 | 6.62 | 10.28 | 10.88 |
| MP 190 3_200 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.36 | 4.03 | 4.80 | 8.46 | 9.06 |
| MP 190 3_210 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.45 | 4.13 | 4.90 | 8.55 | 9.15 |
| MP 190 3_250 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.32 | 4.00 | 4.77 | 8.42 | 9.02 |
| MP 190 3_280 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.29 | 3.97 | 4.74 | 8.39 | 8.99 |
| MP 190 3_350 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.29 | 3.97 | 4.74 | 8.39 | 8.99 |
| MP 190 3_400 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.27 | 3.95 | 4.72 | 8.38 | 8.97 |
| MP 190 3_500 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.27 | 3.95 | 4.72 | 8.38 | 8.97 |
| MP 190 3_700 | 1000 | 1200 | 2200 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.27 | 3.95 | 4.72 | 8.38 | 8.97 |
| MP 190 3_1000 | 500 | 800 | 1400 | 2900 | 3500 | 17' | 12' | 90 | 14000 | 15000 | 91 | 3.27 | 3.95 | 4.72 | 8.38 | 8.97 |

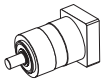
### *6.3.1 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE*

Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Suggeriamo inoltre di completare il montaggio con un dispositivo che garantisca il bloccaggio assiale dell'albero (non illustrato).
Il numero e la dimensione del/i relativi fori all'estremità dell'albero saranno determinati dalle diverse esigenze applicative.

**MB**

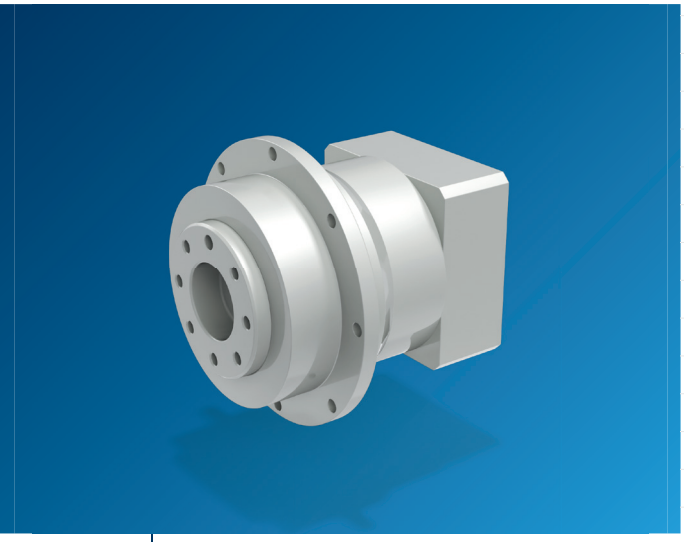





|  | A1 | A2 | A3 | A4 | B | B1 | B2 | S |
|---|---|---|---|---|---|---|---|---|
| **MP MB 080** | ≥ 25 | 20 h7 | 18 | 20 h7 | 178 | 50 | 90 | |
| **MP MB 105** | ≥ 40 | 32 h7 | 30 | 32 h7 | 205 | 60 | 115 | 1 |
| **MP MB 130/160** | ≥ 50 | 42 h7 | 40 | 42 h7 | 259 | 70 | 140 | |

# Linea Effective

(E)



## Serie TQFE

La serie TQFE combina un'eccezionale compattezza con una flangia in uscita dal design standard che garantisce un montaggio rapido e semplice adatto a un'ampia gamma di applicazioni.
Con TQFE è possibile avere elevati livelli di prestazioni e precisione a un ottimo rapporto qualità-prezzo.

### Vantaggi principali

- Elevata rigidezza torsionale
- Elevata compattezza
- Installazione facile e rapida
- Flangia dal design standard per elevata compatibilità

### Caratteristiche principali

- Coppia nominale in uscita (Nm)

18 - 155

- Gioco torsionale (arcmin)

5 - 12

- Rigidezza torsionale (Nm)

6 - 60

- Momento di ribaltamento (Nm)

12 - 114

### Opzioni principali

- Versioni con ingresso


- Lubrificazione


### Grado di protezione

- IP54

### Grandezze

- 60
- 70
- 90

## 7 CARATTERISTICHE DELLA SERIE TQFE

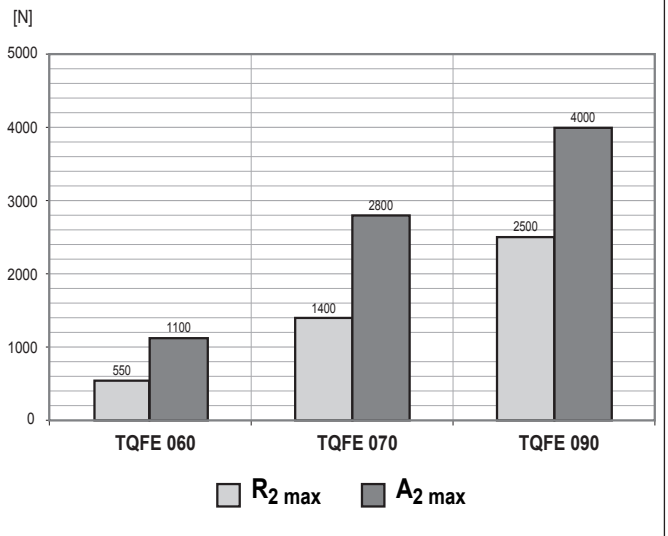
La serie TQFE rappresenta la risposta per le applicazioni che richiedono soluzioni compatte e salvaspazio. La sua flangia standardizzata garantisce un'elevata compatibilità mentre il suo design proporzionato consente un funzionamento silenzioso e una lunga durata senza necessità di manutenzione.
Il montaggio del motore è un'operazione che può essere facilmente eseguita senza la necessità di particolari strumenti, oltre a quelli solitamente disponibili in un'officina normalmente attrezzata.

- Disponibile con gioco standard (STD) o ridotto (LOW):
  Unità a 1 stadio: standard $\varphi_S \leq 10'$; ridotto $\varphi_R \leq 5'$
  Unità a 2 stadi: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 7'$
- La sua classe di protezione IP54 fornisce protezione contro polvere e spruzzi di liquidi.
- Gli anelli di tenuta della sezione di ingresso in composto di fluoroelastomero sono inclusi nella fornitura.
- Livello di pressione del rumore LP ≤ 70 dB(A). Condizioni: distanza 1 m; misurata senza carico una velocità di ingresso di $n_1 = 3000\ min^{-1}$; i=10.
- Le unità sono imballate presso lo stabilimento con grasso sintetico secondo la classe di consistenza NLGI 00, in assenza di contaminazione il lubrificante non richiede cambi periodici.
- Ambienti con temperature min -20°C, max +30°C. Per temperature superiori a 30°C considerare il fattore di declassamento $f_T$.
- La temperatura dell'alloggiamento non deve superare $T_{max} = 90°C$.

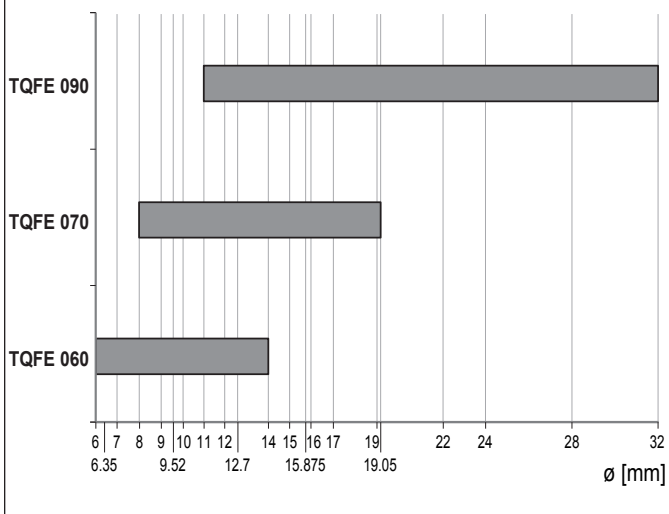


| Distribuzione di coppia nominale $M_{n2}$ [Nm] | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [i] | 3 | 4 | 5 | 7 | 9 | 10 | 12 | 15 | 16 | 20 | 25 | 28 | 30 | 35 | 40 | 50 | 70 | 100 |
| **TQFE 060** | 29 | 30 | 25 | 25 | 29 | 18 | 29 | 29 | 30 | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 30 | 18 |
| **TQFE 070** | 65 | 60 | 50 | 50 | 65 | 40 | 65 | 65 | 60 | 60 | 50 | 50 | 65 | 50 | 60 | 50 | 50 | 40 |
| **TQFE 090** | 155 | 155 | 125 | 125 | 155 | 100 | 155 | 155 | 155 | 155 | 125 | 125 | 155 | 125 | 155 | 125 | 125 | 100 |

**Carichi massimi applicabili sull' albero lento**




**Alberi motore accoppiabili**



### *7.1 CODICE ORDINATIVO*

**TQFE** | **070** | **1** | **3** | **STD** | **80A1** | **CD** | **19** | **UH1**

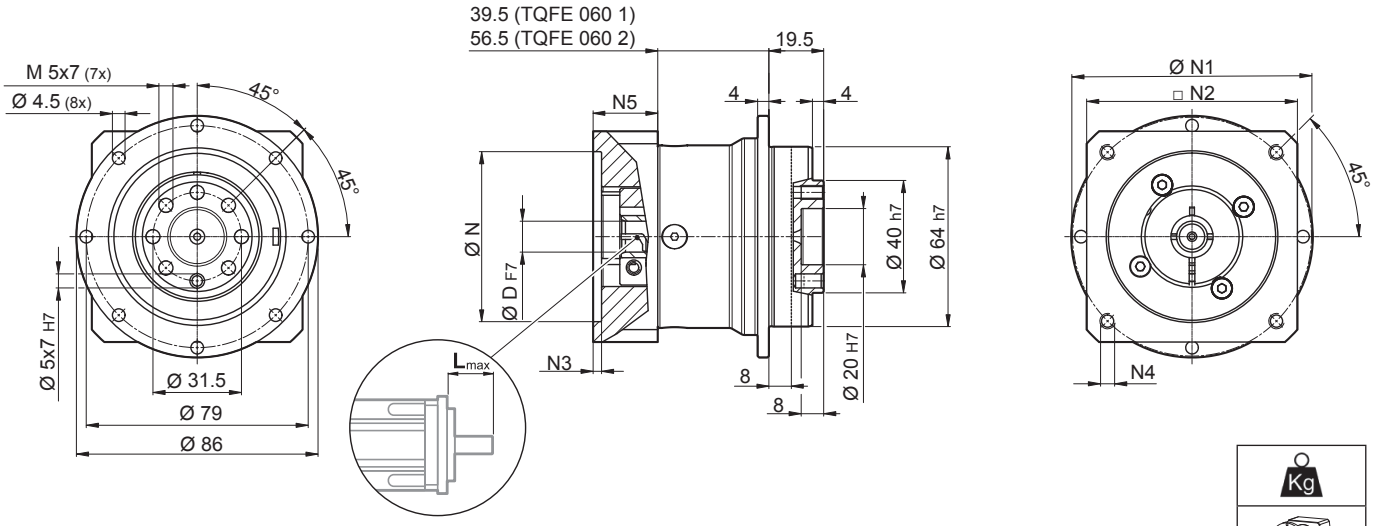
- **TQFE** — SERIE
  - **TQFE**
- **070** — GRANDEZZA
  - **060** **070** **090**
- **1** — STADI DI RIDUZIONE
  - **1** **2**
- **3** — RAPPORTO DI TRASMISSIONE
- **STD** — GIOCO ANGOLARE

| | 1 stadio | 2 stadi |
|---|---|---|
| **STD** | $\varphi_S \leq 10'$ | $\varphi_S \leq 12'$ |
| **LOW** | $\varphi_R \leq 5'$ | $\varphi_R \leq 7'$ |

- **80A1** — SEZIONE DI INGRESSO
  - **25AH ... 130A1** predisposizione motore
  - **IS** albero veloce sporgente
  - **FM** senza adattatore in ingresso
- **CD** — TIPO DI CALETTAMENTO ALBERO MOTORE
  - **CD** morsetto di serraggio ( ⛔ IS)
- **19** — DIAMETRO FORO PER ALBERO MOTORE
  - **6 ... 32** ( ⛔ IS)
- **UH1** — LUBRIFICANTE
  - **–** standard
  - **UH1** lubrificante sintetico ad uso alimentare

### *7.2 DIMENSIONI E DATI TECNICI*

# TQFE 060




| | Kg |
|---|---|
| **TQFE 060 1** | 1.3 |
| **TQFE 060 2** | 1.7 |

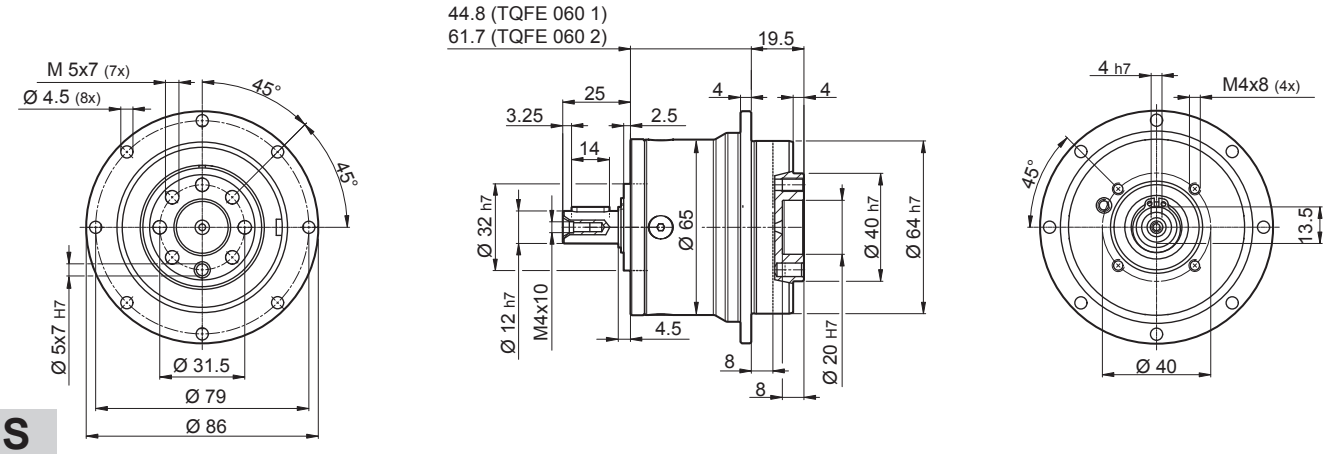


| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | 5.5 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60AH1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | 5.5 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

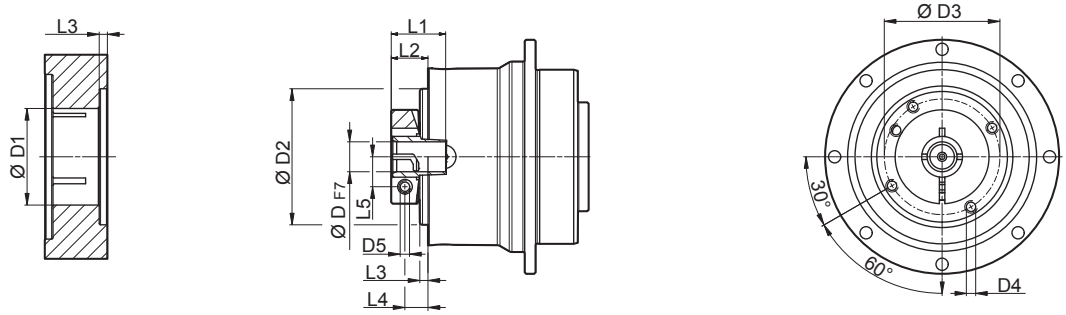
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQFE 060

## IS



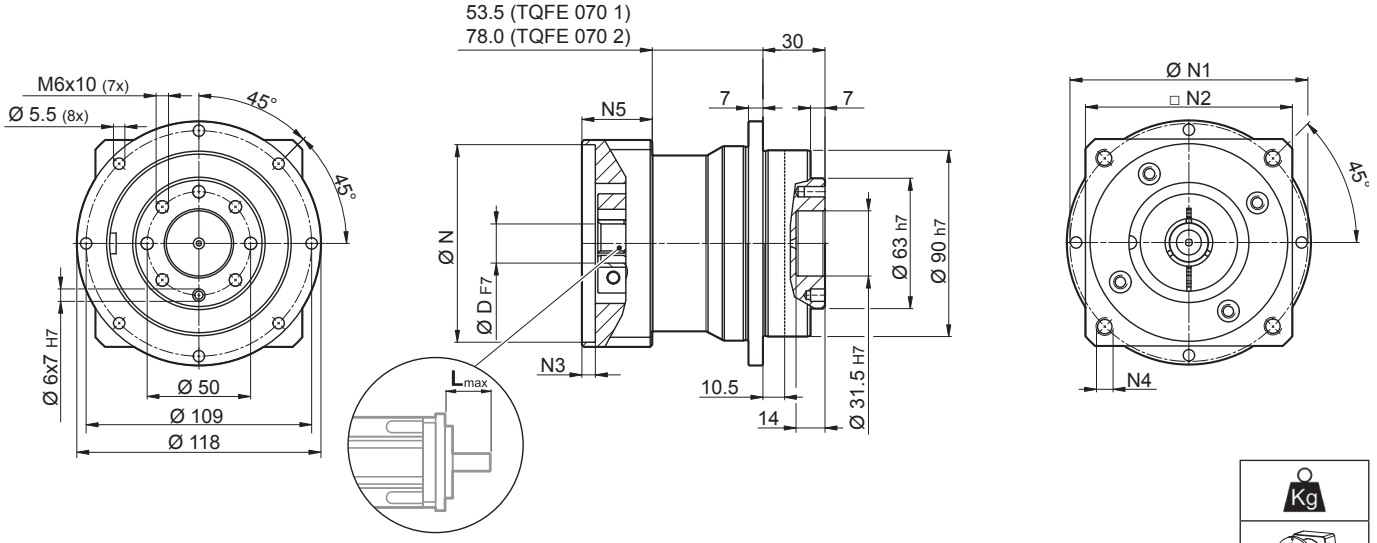

## FM




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 … 10 | $J_G$ [kgcm$^2$] D 11 … 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQFE 060 1_3 | 29 | 55 | 60 | 3300 | 4000 | 10' | 5' | 6.5 | 200 | 550 | 1100 | 97 | 0.21 | 0.25 |
| TQFE 060 1_4 | 30 | 45 | 70 | 3500 | 5000 | 10' | 5' | 6.5 | 200 | 550 | 1100 | 97 | 0.18 | 0.20 |
| TQFE 060 1_5 | 25 | 40 | 70 | 3500 | 5000 | 10' | 5' | 6.5 | 200 | 550 | 1100 | 97 | 0.16 | 0.18 |
| TQFE 060 1_7 | 25 | 40 | 70 | 4000 | 5000 | 10' | 5' | 6.5 | 200 | 550 | 1100 | 97 | 0.13 | 0.14 |
| TQFE 060 1_10 | 18 | 30 | 60 | 4000 | 6000 | 10' | 5' | 6.5 | 200 | 550 | 1100 | 97 | 0.12 | 0.12 |
| TQFE 060 2_9 | 29 | 55 | 60 | 3300 | 4000 | 12' | 7' | 6 | 200 | 550 | 1100 | 94 | 0.18 | 0.21 |
| TQFE 060 2_12 | 29 | 55 | 70 | 3300 | 4000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.17 | 0.21 |
| TQFE 060 2_15 | 29 | 55 | 70 | 3300 | 4000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.17 | 0.20 |
| TQFE 060 2_16 | 30 | 45 | 70 | 3500 | 5000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.13 | 0.15 |
| TQFE 060 2_20 | 30 | 45 | 70 | 3500 | 5000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.13 | 0.14 |
| TQFE 060 2_25 | 30 | 45 | 70 | 3500 | 5000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.12 | 0.14 |
| TQFE 060 2_28 | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.11 | 0.13 |
| TQFE 060 2_30 | 29 | 55 | 60 | 4000 | 6000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.10 | 0.12 |
| TQFE 060 2_35 | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.08 | 0.11 |
| TQFE 060 2_40 | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.08 | 0.09 |
| TQFE 060 2_50 | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.07 | 0.09 |
| TQFE 060 2_70 | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.06 | 0.09 |
| TQFE 060 2_100 | 18 | 30 | 60 | 4000 | 6000 | 12' | 7' | 6 | 200 | 500 | 1100 | 94 | 0.06 | 0.09 |

# TQFE 070




| | Kg |
|---|---|
| **TQFE 070 1** | 3.7 |
| **TQFE 070 2** | 4.6 |

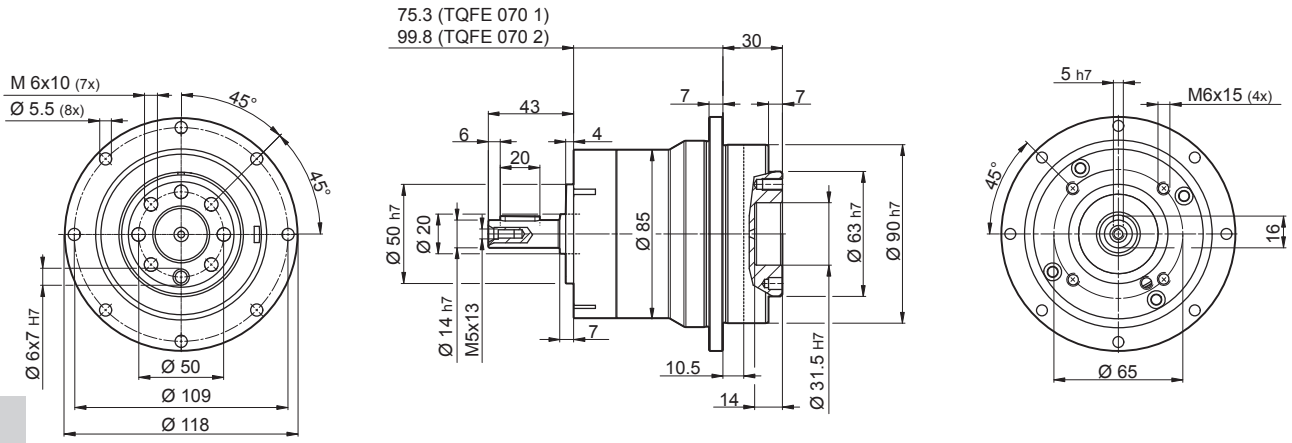
TQFE

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

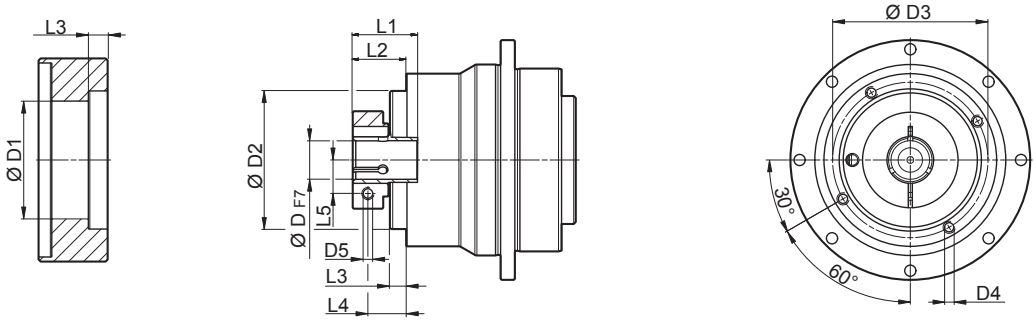
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQFE 070

## IS



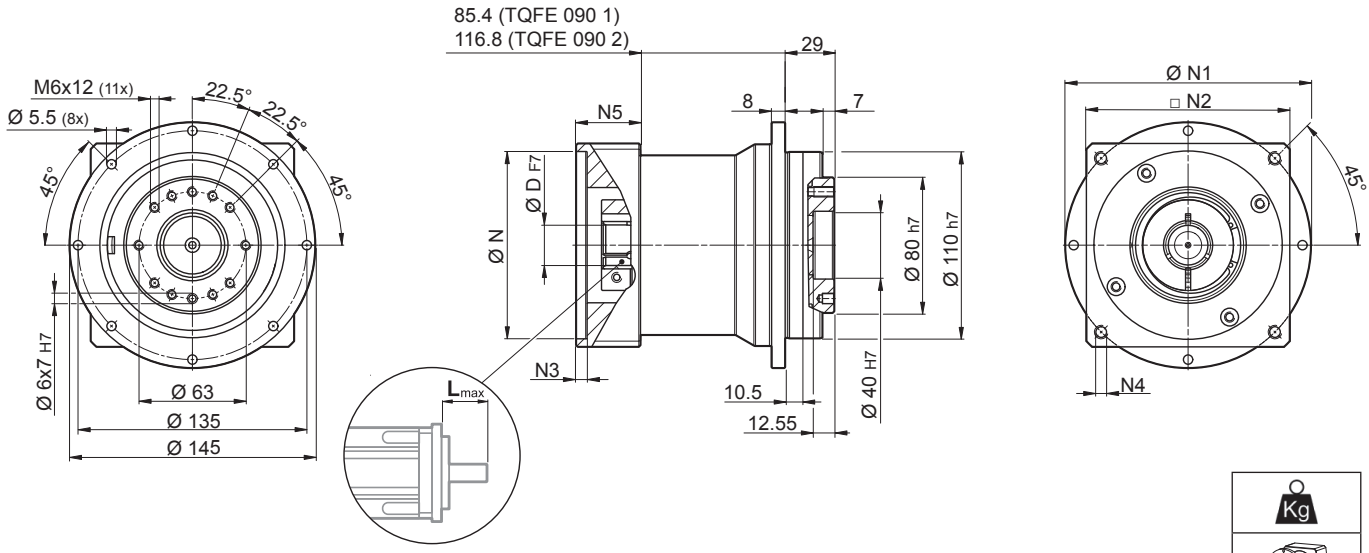

## FM




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 52 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 … 12.7 | $J_G$ [kgcm$^2$] D 14 … 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TQFE 070 1_3** | 65 | 120 | 150 | 3500 | 4000 | 10' | 5' | 26 | 400 | 1400 | 2800 | 97 | 0.94 | 1.15 |
| **TQFE 070 1_4** | 60 | 110 | 160 | 3500 | 4000 | 10' | 5' | 26 | 400 | 1400 | 2800 | 97 | 0.57 | 0.78 |
| **TQFE 070 1_5** | 50 | 100 | 160 | 3200 | 4500 | 10’ | 5' | 26 | 400 | 1400 | 2800 | 97 | 0.41 | 0.61 |
| **TQFE 070 1_7** | 50 | 100 | 160 | 4000 | 6000 | 10’ | 5' | 26 | 400 | 1400 | 2800 | 97 | 0.27 | 0.48 |
| **TQFE 070 1_10** | 40 | 70 | 150 | 4000 | 6000 | 10’ | 5' | 26 | 400 | 1400 | 2800 | 97 | 0.21 | 0.40 |
| **TQFE 070 2_9** | 65 | 120 | 150 | 3500 | 3500 | 12' | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.67 | 0.81 |
| **TQFE 070 2_12** | 65 | 120 | 160 | 3500 | 3500 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.65 | 0.75 |
| **TQFE 070 2_15** | 65 | 120 | 160 | 3500 | 3500 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.65 | 0.75 |
| **TQFE 070 2_16** | 60 | 110 | 160 | 3500 | 4500 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.58 | 0.67 |
| **TQFE 070 2_20** | 60 | 110 | 160 | 3500 | 4500 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.47 | 0.60 |
| **TQFE 070 2_25** | 50 | 100 | 160 | 3200 | 4500 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.47 | 0.60 |
| **TQFE 070 2_28** | 50 | 100 | 160 | 4000 | 6000 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.41 | 0.55 |
| **TQFE 070 2_30** | 65 | 120 | 150 | 4000 | 6000 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.37 | 0.51 |
| **TQFE 070 2_35** | 50 | 100 | 160 | 4000 | 6000 | 12' | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.41 | 0.55 |
| **TQFE 070 2_40** | 60 | 110 | 160 | 4000 | 6000 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.37 | 0.52 |
| **TQFE 070 2_50** | 50 | 100 | 160 | 4000 | 6000 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.36 | 0.49 |
| **TQFE 070 2_70** | 50 | 100 | 160 | 4000 | 6000 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.36 | 0.49 |
| **TQFE 070 2_100** | 40 | 70 | 150 | 4000 | 6000 | 12’ | 7' | 23 | 400 | 1400 | 2800 | 94 | 0.36 | 0.48 |

# TQFE 090




| | Kg |
|---|---|
| **TQFE 090 1** | 8 |
| **TQFE 090 2** | 9 |

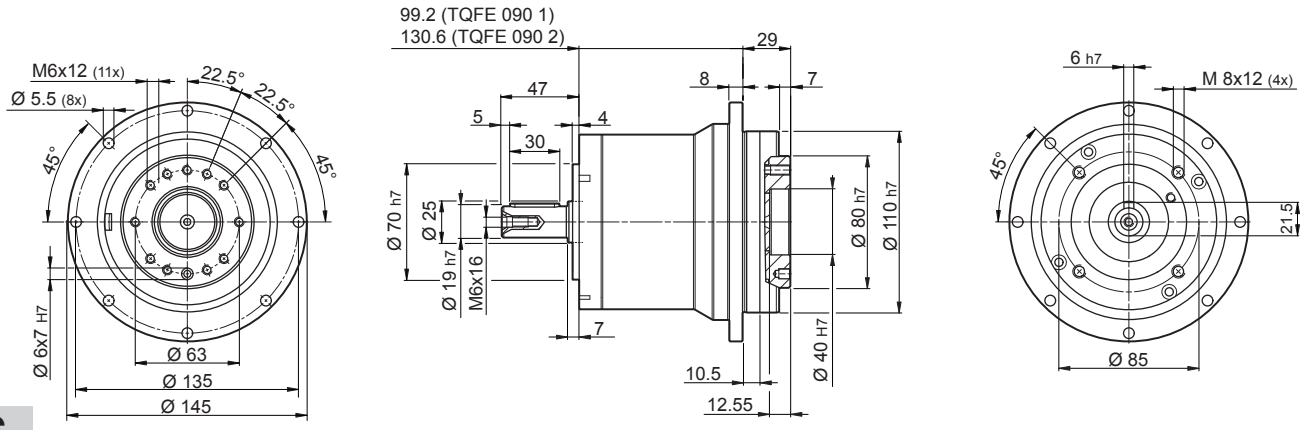
TQFE

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

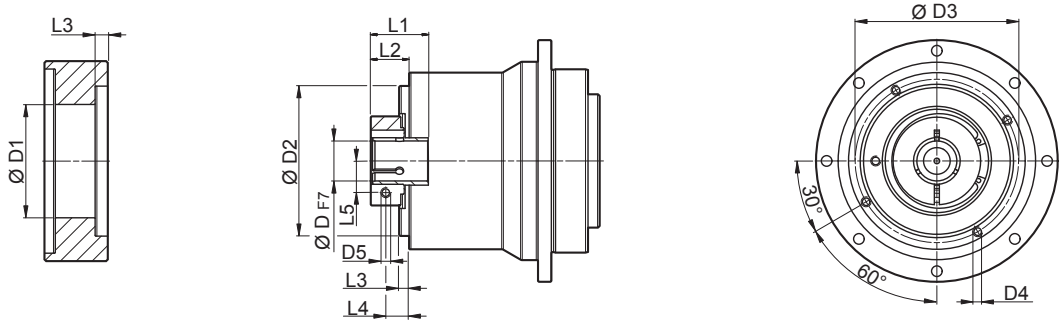
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQFE 090

## IS




## FM

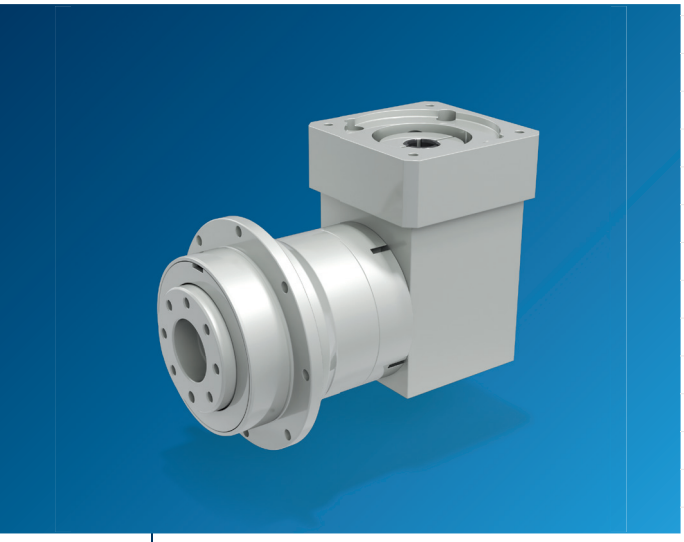



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 36.5 | 23 | 7.6 | 14 | 19 |
| 28 | | | | 70 | 90 | 98 | M6x15 | M8 | 36.5 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 38 | 24.5 | 7.6 | 15.5 | 24.5 |

| | $M_{n2}$ | $M_{a2}$ | $M_{p2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{1\,max}$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| i | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | [N] | % | 11 … 12.7 | 14 … 19 | 22 ; 24 | 28 ; 32 |
| TQFE 090 1_3 | 155 | 280 | 300 | 3000 | 4000 | 10’ | 5’ | 60 | 600 | 2500 | 4000 | 97 | 2.79 | 2.87 | 3.48 | 4.1 |
| TQFE 090 1_4 | 155 | 300 | 360 | 3000 | 4500 | 10’ | 5’ | 60 | 600 | 2500 | 4000 | 97 | 1.53 | 1.60 | 2.21 | 2.84 |
| TQFE 090 1_5 | 125 | 240 | 360 | 3000 | 4500 | 10’ | 5’ | 60 | 600 | 2500 | 4000 | 97 | 0.96 | 1.03 | 1.64 | 2.27 |
| TQFE 090 1_7 | 125 | 240 | 360 | 3500 | 4500 | 10’ | 5’ | 60 | 600 | 2500 | 4000 | 97 | 0.55 | 0.62 | 1.22 | 1.86 |
| TQFE 090 1_10 | 100 | 160 | 300 | 3500 | 5000 | 10’ | 5’ | 60 | 600 | 2500 | 4000 | 97 | 0.51 | 0.59 | 1.00 | 1.63 |
| TQFE 090 2_9 | 155 | 280 | 300 | 3000 | 4000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 1.77 | 1.82 | 2.86 | 3.05 |
| TQFE 090 2_12 | 155 | 300 | 360 | 3000 | 4000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 1.64 | 1.71 | 2.35 | 2.87 |
| TQFE 090 2_15 | 155 | 300 | 360 | 3000 | 4000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 1.58 | 1.66 | 2.01 | 2.83 |
| TQFE 090 2_16 | 155 | 300 | 360 | 3000 | 4500 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.94 | 1.01 | 1.78 | 2.32 |
| TQFE 090 2_20 | 155 | 300 | 360 | 3000 | 4500 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.92 | 1.00 | 1.78 | 2.29 |
| TQFE 090 2_25 | 125 | 240 | 360 | 3000 | 4500 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.81 | 0.89 | 1.47 | 2.00 |
| TQFE 090 2_28 | 125 | 240 | 360 | 3500 | 5000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.59 | 0.67 | 1.31 | 1.94 |
| TQFE 090 2_30 | 155 | 300 | 300 | 3500 | 5000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.47 | 0.55 | 1.27 | 1.82 |
| TQFE 090 2_35 | 125 | 240 | 360 | 3500 | 5000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.50 | 0.58 | 1.32 | 1.91 |
| TQFE 090 2_40 | 155 | 300 | 360 | 3500 | 5000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.47 | 0.55 | 1.27 | 1.82 |
| TQFE 090 2_50 | 125 | 240 | 360 | 3500 | 5000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.47 | 0.55 | 1.25 | 1.80 |
| TQFE 090 2_70 | 125 | 240 | 360 | 3500 | 5000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.47 | 0.53 | 1.25 | 1.79 |
| TQFE 090 2_100 | 100 | 160 | 300 | 3500 | 5000 | 12’ | 7’ | 50 | 600 | 2500 | 4000 | 94 | 0.47 | 0.53 | 1.25 | 1.79 |

# Linea Effective

(E)



## Serie TQFEK

La serie TQFEK offre prestazioni ottimizzate ad un eccellente rapporto qualità-prezzo.
La sua flangia in uscita in linea con gli standard di mercato ed eccezionalmente compatta combinata con precisione di posizionamento ottimale la rendono adatta ad un'ampia gamma di applicazioni industriali.
Il suo design ortogonale consente layout più compatti, riducendo gli ingombri.

### Vantaggi principali

- Elevata rigidezza torsionale
- Elevata compattezza
- Installazione facile e rapida
- Flangia standardizzata per elevata compatibilità
- Configurazione ortogonale per installazioni più compatte

### Caratteristiche principali

- Coppia nominale in uscita (Nm)

18 - 155

- Gioco torsionale (arcmin)

7 - 14

- Rigidezza torsionale (Nm)

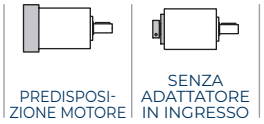
6 - 60

- Momento di ribaltamento (Nm)

12 - 114

### Opzioni principali

- Versioni con ingresso




- Lubrificazione


### Grado di protezione

- IP54

### Grandezze

- 60
- 70
- 90

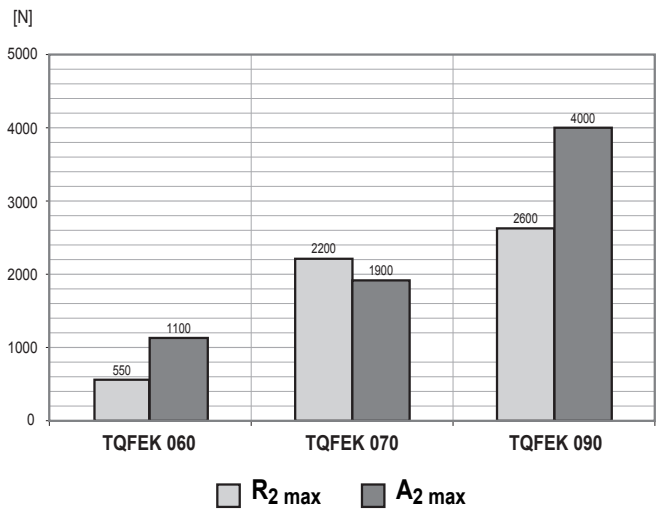
## *8 CARATTERISTICHE DELLA SERIE TQFEK*

Il design ad angolo retto della serie TQFEK rappresenta la risposta per le applicazioni che richiedono soluzioni compatte e salvaspazio. La sua flangia standardizzata garantisce un'elevata compatibilità mentre il suo design proporzionato consente un funzionamento silenzioso e una lunga durata senza necessità di manutenzione.
Il montaggio del motore è un'operazione che può essere facilmente eseguita senza la necessità di particolari strumenti, oltre a quelli solitamente disponibili in un'officina normalmente attrezzata.

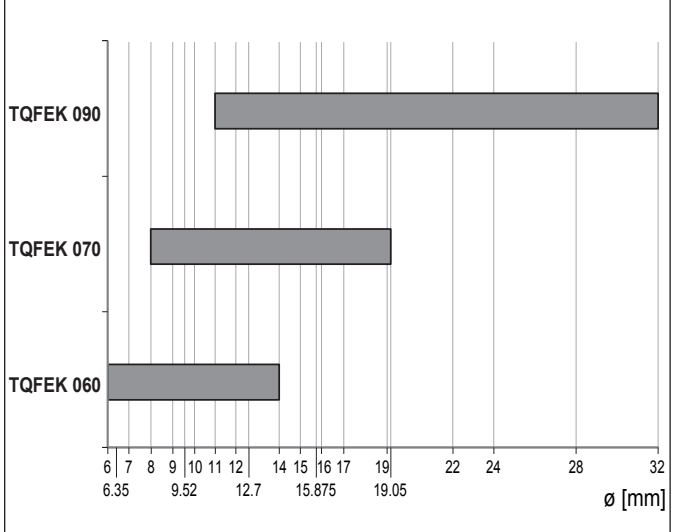
- Disponibile con gioco standard (STD) o ridotto (LOW):
  Unità a 2 stadi: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 7'$
  Unità a 3 stadi: standard $\varphi_S \leq 14'$; ridotto $\varphi_R \leq 9'$
- La sua classe di protezione IP54 fornisce protezione contro polvere e spruzzi di liquidi.
- Gli anelli di tenuta della sezione di ingresso in composto di fluoroelastomero sono inclusi nella fornitura.
- Livello di pressione del rumore LP ≤ 70 dB(A). Condizioni: distanza 1 m; misurata senza carico una velocità di ingresso di $n_1 = 3000\ min^{-1}$; i=10.
- Le unità sono imballate presso lo stabilimento con grasso sintetico secondo la classe di consistenza NLGI 00, in assenza di contaminazione il lubrificante non richiede cambi periodici.
- Ambienti con temperature min -20°C, max +30°C. Per temperature superiori a 30°C considerare il fattore di declassamento $f_T$.
- La temperatura dell'alloggiamento non deve superare $T_{max}$ = 90°C.

| **Distribuzione di coppia nominale** $M_{n2}$ [Nm] | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **[i]** | **3** | **4** | **5** | **7** | **9** | **10** | **12** | **15** | **16** | **20** | **25** | **8** | **30** | **35** | **40** | **50** | **70** | **100** |
| **TQFEK 060** | 29 | 30 | 25 | 25 | 29 | 18 | 29 | 29 | 30 | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 30 | 18 |
| **TQFEK 070** | 40 | 50 | 50 | 50 | 65 | 40 | 65 | 65 | 60 | 60 | 50 | 50 | 65 | 50 | 60 | 50 | 50 | 40 |
| **TQFEK 090** | 80 | 105 | 130 | 125 | 155 | 100 | 155 | 155 | 155 | 155 | 125 | 125 | 155 | 125 | 155 | 125 | 125 | 100 |

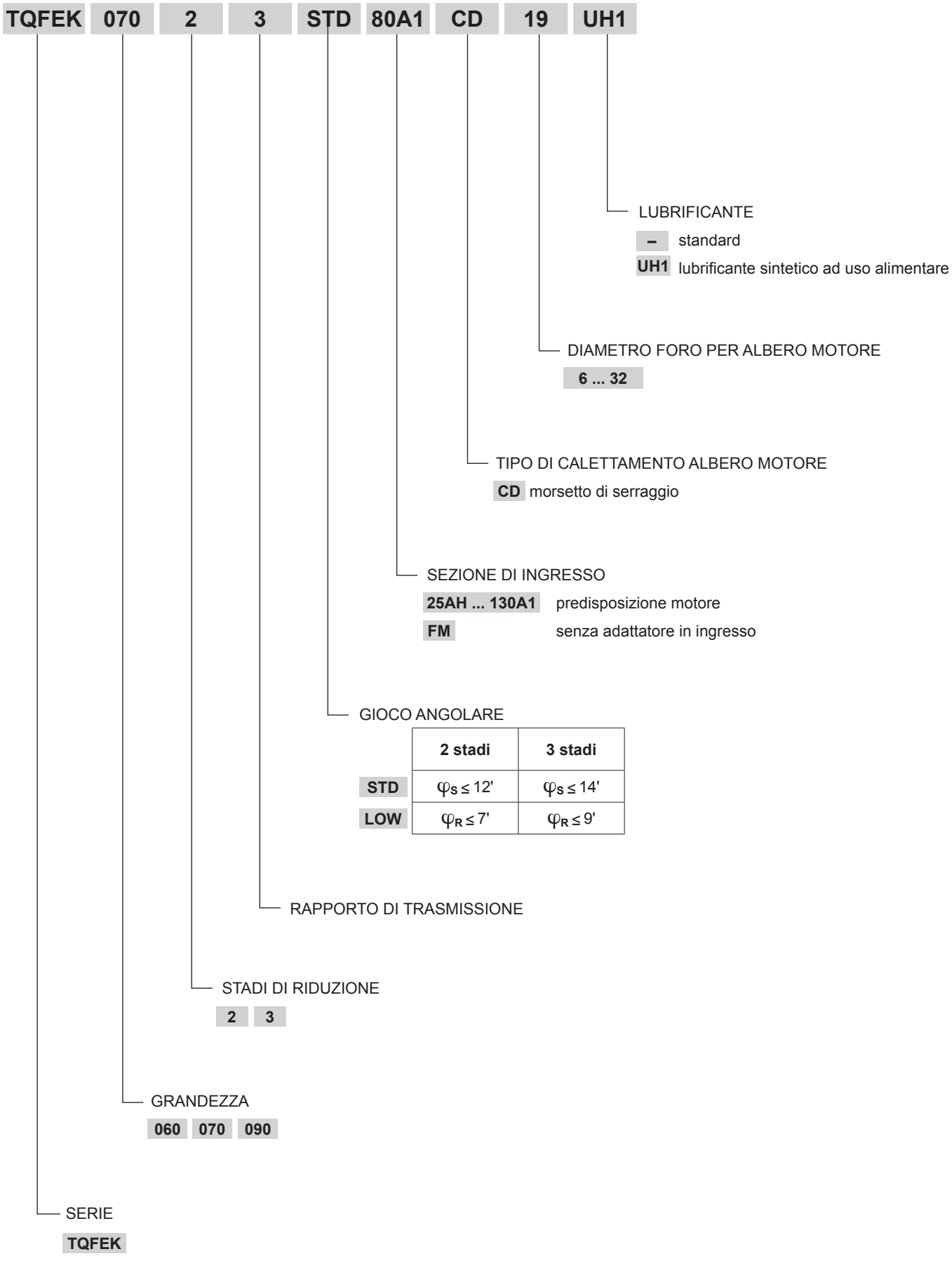
**Carichi massimi applicabili sull' albero lento**




**Alberi motore accoppiabili**



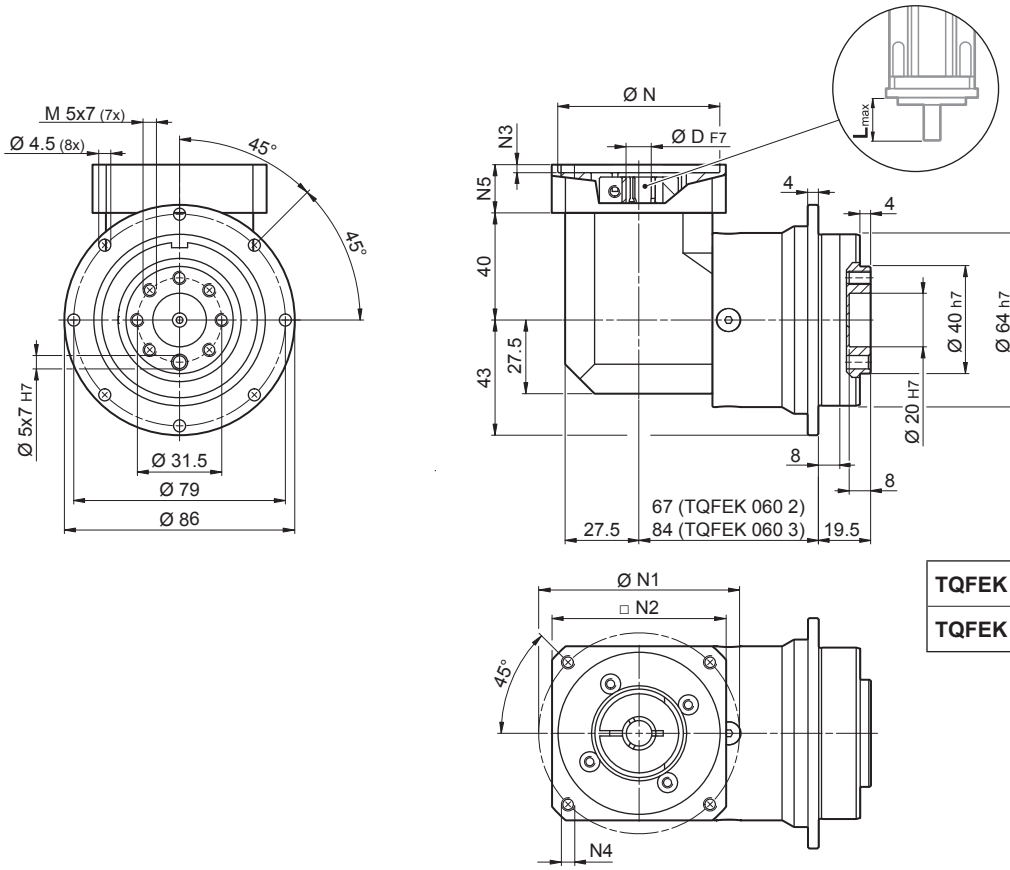
### *8.1 CODICE ORDINATIVO*




| | 2 stadi | 3 stadi |
|---|---|---|
| STD | $\varphi_S \leq 12'$ | $\varphi_S \leq 14'$ |
| LOW | $\varphi_R \leq 7'$ | $\varphi_R \leq 9'$ |

### 8.2 DIMENSIONI E DATI TECNICI

# TQFEK 060



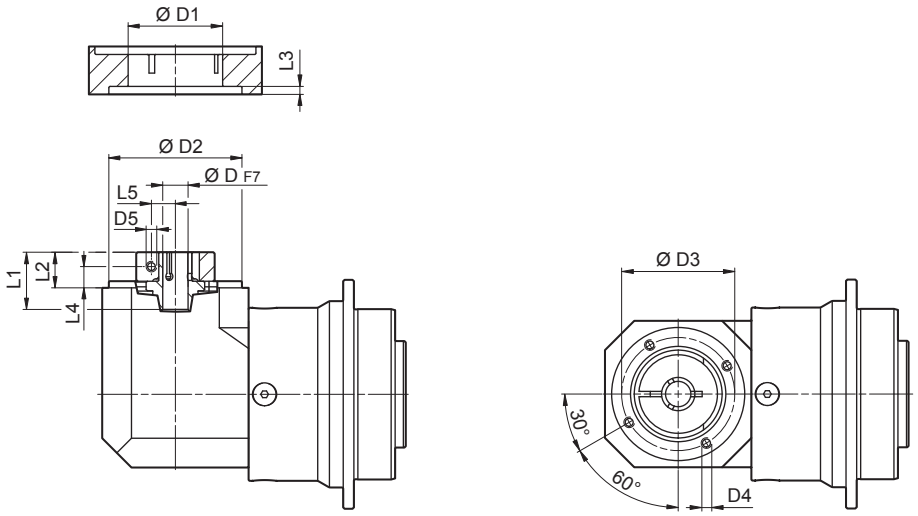

| | Kg |
|---|---|
| **TQFEK 060 2** | 1.8 |
| **TQFEK 060 3** | 2.2 |

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQFEK 060

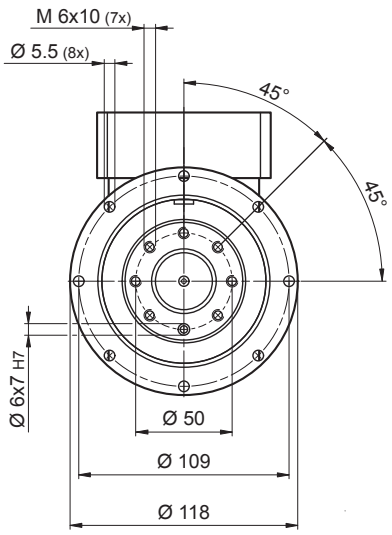
**FM**

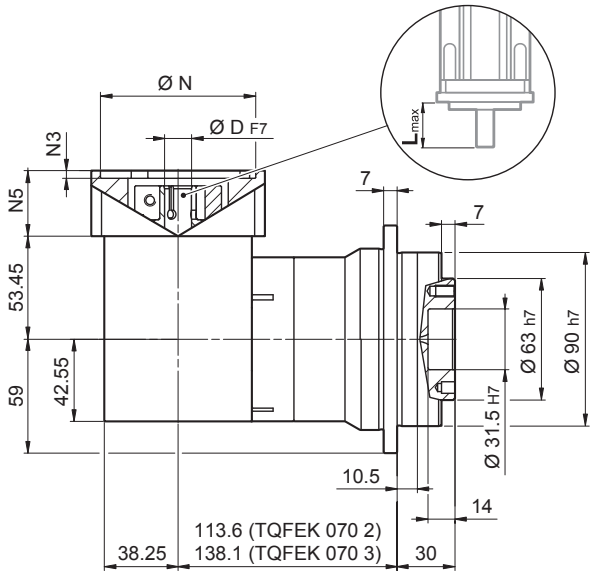


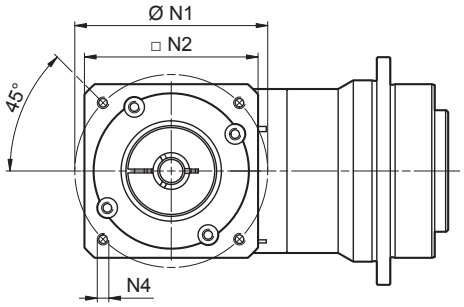

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 … 10 | $J_G$ [kgcm$^2$] D 11 … 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQFEK 060 2_3 | 29 | 45 | 60 | 3300 | 4000 | 12' | 7' | 6 | 200 | 550 | 1100 | 94 | 0.31 | 0.35 |
| TQFEK 060 2_4 | 30 | 45 | 70 | 3500 | 5000 | 12' | 7' | 6 | 200 | 550 | 1100 | 94 | 0.30 | 0.32 |
| TQFEK 060 2_5 | 25 | 40 | 70 | 3500 | 5000 | 12' | 7' | 6 | 200 | 550 | 1100 | 94 | 0.28 | 0.30 |
| TQFEK 060 2_7 | 25 | 40 | 70 | 4000 | 5000 | 12' | 7' | 6 | 200 | 550 | 1100 | 94 | 0.26 | 0.27 |
| TQFEK 060 2_10 | 18 | 30 | 60 | 4000 | 6000 | 12' | 7' | 6 | 200 | 550 | 1100 | 94 | 0.26 | 0.25 |
| TQFEK 060 3_9 | 29 | 55 | 60 | 3300 | 4000 | 14' | 9' | 6 | 200 | 550 | 1100 | 91 | 0.28 | 0.31 |
| TQFEK 060 3_12 | 29 | 55 | 70 | 3300 | 4000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.28 | 0.31 |
| TQFEK 060 3_15 | 29 | 55 | 70 | 3300 | 4000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.27 | 0.30 |
| TQFEK 060 3_16 | 30 | 45 | 70 | 3500 | 5000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.25 | 0.27 |
| TQFEK 060 3_20 | 30 | 45 | 70 | 3500 | 5000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.25 | 0.27 |
| TQFEK 060 3_25 | 30 | 45 | 70 | 3500 | 5000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.25 | 0.27 |
| TQFEK 060 3_28 | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.24 | 0.26 |
| TQFEK 060 3_30 | 29 | 55 | 60 | 4000 | 6000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.23 | 0.25 |
| TQFEK 060 3_35 | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.23 | 0.25 |
| TQFEK 060 3_40 | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.23 | 0.25 |
| TQFEK 060 3_50 | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.20 | 0.22 |
| TQFEK 060 3_70 | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.20 | 0.22 |
| TQFEK 060 3_100 | 18 | 30 | 60 | 4000 | 6000 | 14' | 9' | 6 | 200 | 500 | 1100 | 91 | 0.20 | 0.22 |

# TQFEK 070




| | Kg |
|---|---|
| **TQFEK 070 2** | 4.2 |
| **TQFEK 070 3** | 5.1 |

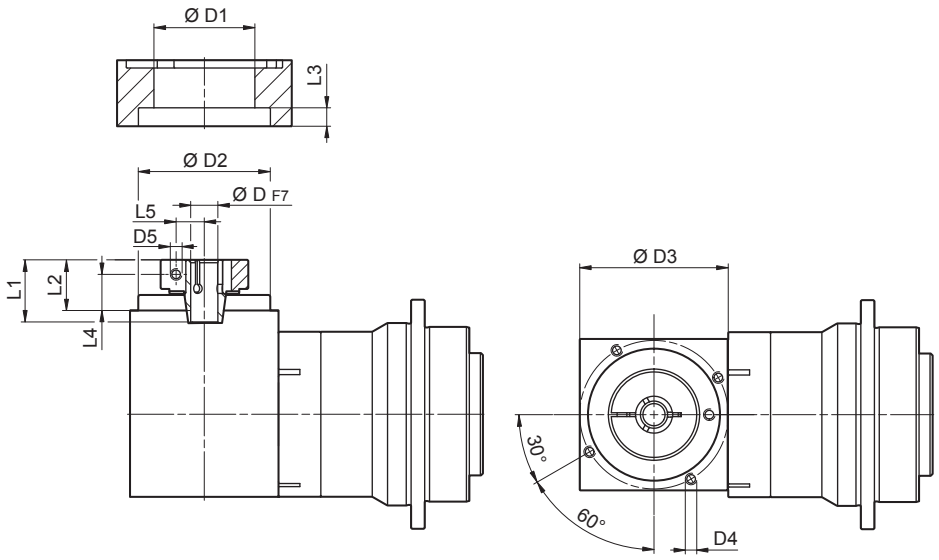
TQFEK

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQFEK 070

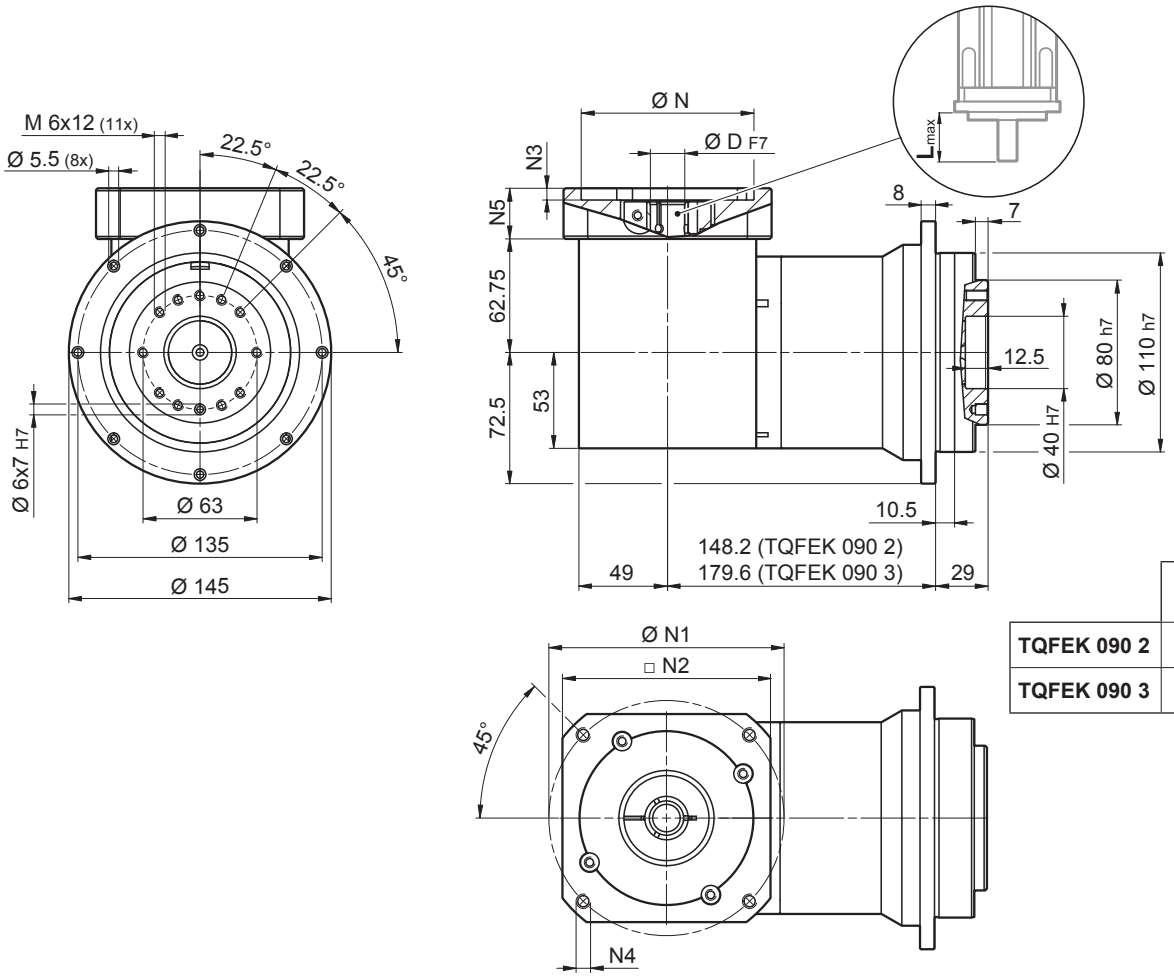
**FM**




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 52 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 … 12.7 | $J_G$ [kgcm$^2$] D 14 … 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TQFEK 070 2_3 | 40 | 60 | 150 | 2900 | 3500 | 12' | 7' | 26 | 400 | 2200 | 1900 | 94 | 1.11 | 1.35 |
| TQFEK 070 2_4 | 50 | 80 | 160 | 3100 | 4500 | 12' | 7' | 26 | 400 | 2200 | 1900 | 94 | 0.85 | 1.10 |
| TQFEK 070 2_5 | 50 | 80 | 160 | 3200 | 4500 | 12' | 7' | 26 | 400 | 2200 | 1900 | 94 | 0.74 | 0.95 |
| TQFEK 070 2_7 | 50 | 80 | 160 | 4000 | 6000 | 12' | 7' | 26 | 400 | 2200 | 1900 | 94 | 0.64 | 0.89 |
| TQFEK 070 2_10 | 40 | 70 | 150 | 4000 | 6000 | 12' | 7' | 26 | 400 | 2200 | 1900 | 94 | 0.61 | 0.83 |
| TQFEK 070 3_9 | 65 | 120 | 150 | 2900 | 3500 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.94 | 1.01 |
| TQFEK 070 3_12 | 65 | 120 | 160 | 3100 | 3500 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.93 | 1.06 |
| TQFEK 070 3_15 | 65 | 120 | 160 | 3200 | 3500 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.93 | 1.06 |
| TQFEK 070 3_16 | 60 | 110 | 160 | 3100 | 4500 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.86 | 0.98 |
| TQFEK 070 3_20 | 60 | 110 | 160 | 3200 | 4500 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.80 | 0.97 |
| TQFEK 070 3_25 | 50 | 100 | 160 | 3200 | 4500 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.80 | 0.97 |
| TQFEK 070 3_28 | 50 | 100 | 160 | 4000 | 6000 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.77 | 0.95 |
| TQFEK 070 3_30 | 65 | 120 | 150 | 4000 | 6000 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.74 | 0.91 |
| TQFEK 070 3_35 | 50 | 100 | 160 | 4000 | 6000 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.76 | 0.95 |
| TQFEK 070 3_40 | 60 | 110 | 160 | 4000 | 6000 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.68 | 0.95 |
| TQFEK 070 3_50 | 50 | 100 | 160 | 4000 | 6000 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.66 | 0.92 |
| TQFEK 070 3_70 | 50 | 100 | 160 | 4000 | 6000 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.66 | 0.92 |
| TQFEK 070 3_100 | 40 | 70 | 150 | 4000 | 6000 | 14' | 9' | 23 | 400 | 2200 | 1900 | 91 | 0.66 | 0.92 |

# TQFEK 090



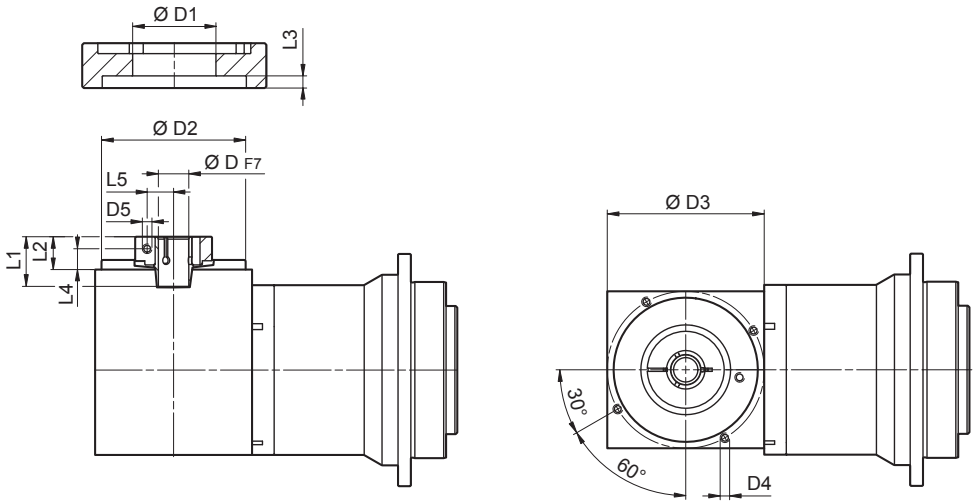

| | Kg |
|---|---|
| **TQFEK 090 2** | 8.5 |
| **TQFEK 090 3** | 9.5 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# TQFEK 090

**FM**




| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 36.5 | 23 | 7.6 | 14 | 19 |
| 28 | | | | 70 | 90 | 98 | M6x15 | M8 | 36.5 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 38 | 24.5 | 7.6 | 15.5 | 24.5 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{1\,max}$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | [N] | % | 11 … 12.7 | 14 … 19 | 22 ; 24 | 28 ; 32 |
| TQFEK 090 2_3 | 80 | 120 | 300 | 3000 | 4000 | 12' | 7' | 60 | 600 | 2600 | 4000 | 94 | 2.94 | 3.00 | 3.59 | 4.58 |
| TQFEK 090 2_4 | 105 | 160 | 360 | 3000 | 4500 | 12' | 7' | 60 | 600 | 2600 | 4000 | 94 | 1.76 | 1.83 | 2.32 | 3.32 |
| TQFEK 090 2_5 | 130 | 195 | 360 | 3000 | 4500 | 12' | 7' | 60 | 600 | 2600 | 4000 | 94 | 1.38 | 1.45 | 1.75 | 2.75 |
| TQFEK 090 2_7 | 125 | 240 | 360 | 3500 | 4500 | 12' | 7' | 60 | 600 | 2600 | 4000 | 94 | 1.06 | 1.21 | 1.60 | 2.51 |
| TQFEK 090 2_10 | 100 | 160 | 300 | 3500 | 5000 | 12' | 7' | 60 | 600 | 2600 | 4000 | 94 | 1.11 | 1.27 | 1.38 | 2.37 |
| TQFEK 090 3_9 | 155 | 180 | 300 | 3000 | 4000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.95 | 2.05 | 2.97 | 3.53 |
| TQFEK 090 3_12 | 155 | 300 | 360 | 3000 | 4000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.72 | 1.87 | 2.46 | 3.35 |
| TQFEK 090 3_15 | 155 | 300 | 360 | 3000 | 4000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.68 | 1.84 | 2.12 | 2.83 |
| TQFEK 090 3_16 | 155 | 300 | 360 | 3000 | 4500 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.09 | 1.24 | 1.89 | 2.80 |
| TQFEK 090 3_20 | 155 | 300 | 360 | 3000 | 4500 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.26 | 1.42 | 1.99 | 2.77 |
| TQFEK 090 3_25 | 125 | 240 | 360 | 3000 | 4500 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.31 | 1.47 | 1.74 | 2.64 |
| TQFEK 090 3_28 | 125 | 240 | 360 | 3500 | 5000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.09 | 1.26 | 1.58 | 1.94 |
| TQFEK 090 3_30 | 155 | 300 | 300 | 3500 | 5000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.08 | 1.23 | 1.65 | 2.56 |
| TQFEK 090 3_35 | 125 | 240 | 360 | 3500 | 5000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.09 | 1.25 | 1.68 | 2.64 |
| TQFEK 090 3_40 | 155 | 300 | 360 | 3500 | 5000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.12 | 1.27 | 1.69 | 2.60 |
| TQFEK 090 3_50 | 125 | 240 | 360 | 3500 | 5000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.12 | 1.27 | 1.69 | 2.60 |
| TQFEK 090 3_70 | 125 | 240 | 360 | 3500 | 5000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.08 | 1.21 | 1.63 | 2.53 |
| TQFEK 090 3_100 | 100 | 160 | 300 | 3500 | 5000 | 14' | 9' | 50 | 600 | 2600 | 4000 | 91 | 1.08 | 1.21 | 1.63 | 2.53 |

# Linea Effective

(E)

## Serie SL

La serie SL presenta un design compatto ottimizzato per i sistemi di comando di pulegge per cinghie dentate.
Questa serie rappresenta la soluzione più adatta per sistemi servo come nastri trasportatori e tutte le applicazioni che richiedono precisione di posizionamento, dimensione ultra-compatta ed elevata capacità di carico radiale.
Il design del prodotto compatibile con gli standard di mercato consente un facile retrofit e un alto livello di libertà nello sviluppo dei progetti.

### Vantaggi principali

- Ottimizzato per sistemi di comando di pulegge per cinghie dentate
- Elevata precisione nei movimenti
- Compatibilità elevata per un facile retrofit

### Caratteristiche principali

- Coppia nominale in uscita (Nm)
  18 - 155
- Gioco torsionale (arcmin)
  6 - 12
- Rigidezza torsionale (Nm)
  6 - 45
- Momento di ribaltamento (Nm)
  54 - 238

### Grado di protezione

- IP54

### Grandezze

- 70
- 90
- 120

### Opzioni principali

- Versioni con ingresso
  - PREDISPOSIZIONE MOTORE
  - SENZA ADATTATORE IN INGRESSO
- Versioni alberi di uscita
  - PULEGGIA
  - NO PULEGGIA
- Lubrificazione
  - LUBRIFICAZIONE STANDARD
  - UH1 LUBRIFICANTE AD USO ALIMENTARE
- Versione ad alta potenza (opzione P)
  - VERSIONE AD ALTA POTENZA

SL

## 9 CARATTERISTICHE DELLA SERIE SL

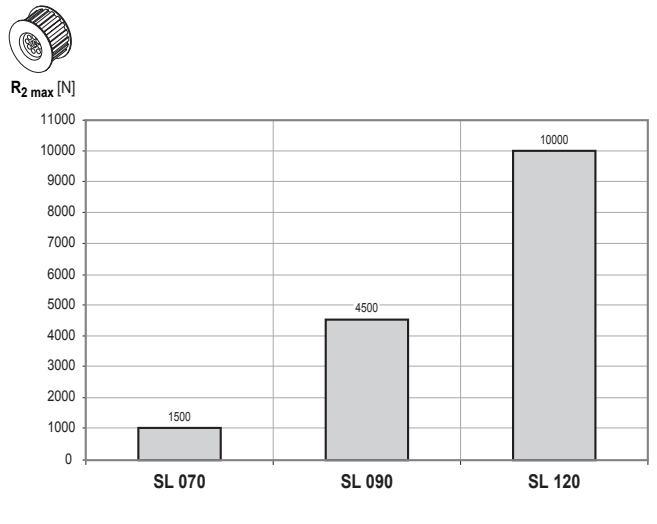
La serie SL è la soluzione più compatta, efficace ed ottimizzata per le trasmissioni con puleggia dentata. I gruppi SL a gioco ridotto si offrono quindi come ideale complemento dei servo-azionamenti di nastri trasportatori, o di altre applicazioni che coniugano la precisione con la massima compattezza ed economicità.

- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
  1 stadio di riduzione: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 6$
  2 stadi di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 8'$
- Protezione contro la penetrazione di polvere o liquidi dall'esterno (IP54).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero di fornitura standard.
- Livello di rumorosità $L_P \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 min$^{-1}$; i=10.
- Riempimento in fabbrica con grasso sintetico di consistenza NLGI 00, in assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$.
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C..
- Disponibile versione P con maggiore coppia in uscita.

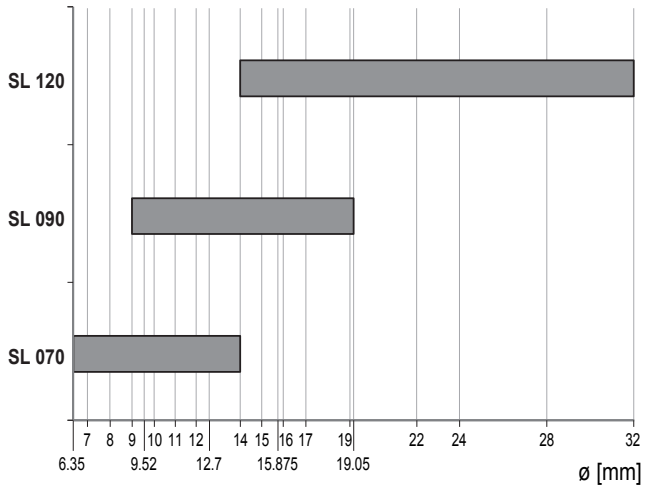
| **Distribuzione coppia nominale** $M_{n2}$ [Nm] | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [i] | **3** | **4** | **5** | **7** | **9** | **10** | **12** | **15** | **16** | **20** | **25** | **28** | **30** | **35** | **40** | **50** | **70** | **100** |
| **SL 070** | 18 | 25 | 25 | 25 | 18 | 18 | 25 | 25 | 25 | 25 | 25 | 25 | 18 | 25 | 25 | 25 | 25 | 18 |
| **SL 070P** | 29 | 30 | 25 | 25 | 29 | 18 | 29 | 29 | 30 | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 30 | 18 |
| **SL 090** | 37 | 43 | 43 | 43 | 37 | 37 | 43 | 43 | 43 | 43 | 43 | 43 | 37 | 43 | 43 | 43 | 43 | 37 |
| **SL 090P** | 65 | 60 | 50 | 50 | 65 | 40 | 65 | 65 | 60 | 60 | 50 | 50 | 65 | 50 | 60 | 50 | 50 | 40 |
| **SL 120** | 95 | 110 | 110 | 110 | 95 | 95 | 110 | 110 | 110 | 110 | 110 | 110 | 95 | 110 | 110 | 110 | 110 | 95 |
| **SL 120P** | 155 | 155 | 125 | 125 | 155 | 100 | 155 | 155 | 155 | 155 | 125 | 125 | 155 | 125 | 155 | 125 | 125 | 100 |



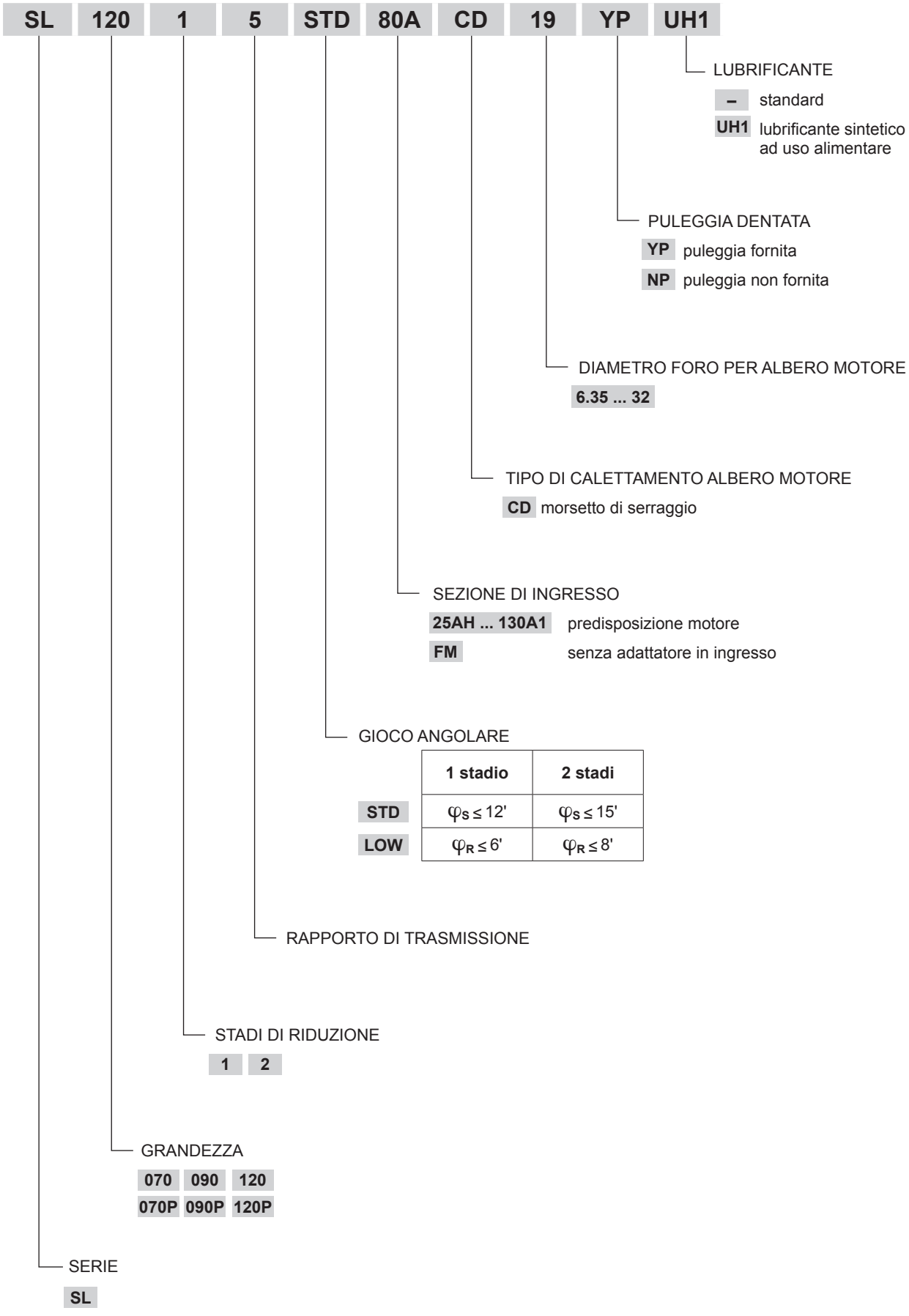
**Carichi massimi applicabili sull'albero lento**




**Alberi motore accoppiabili**

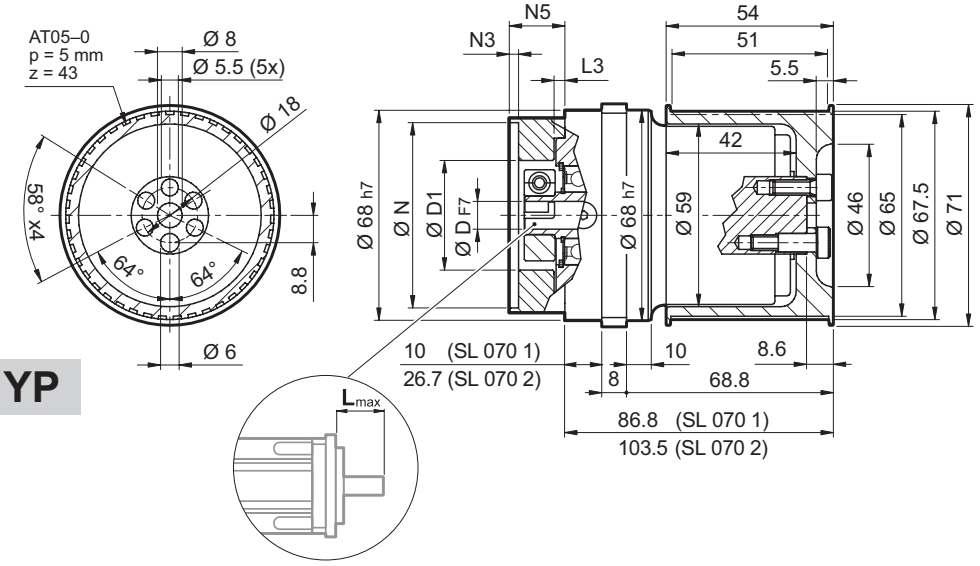


### *9.1 CODICE ORDINATIVO*



### 9.2 DIMENSIONI E DATI TECNICI

# SL 070




**YP**

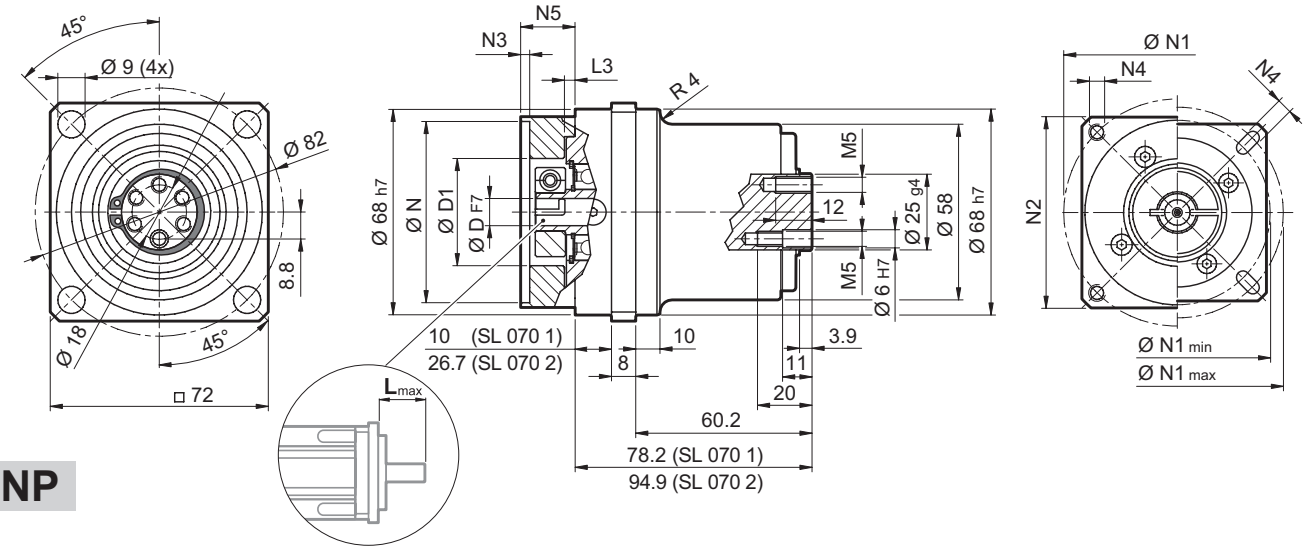
| | Kg | |
|---|---|---|
| |  |  |
| **SL 070 1** | 2.0 | 0.5 |
| **SL 070 2** | 2.3 | 0.5 |

| | D | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

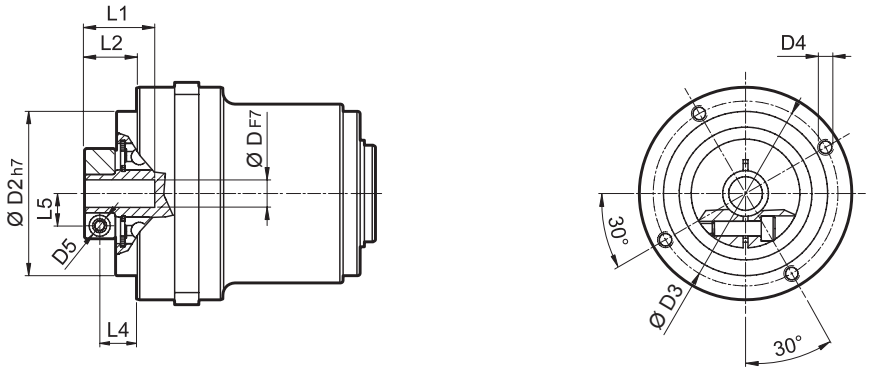
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# SL 070

## NP




## FM

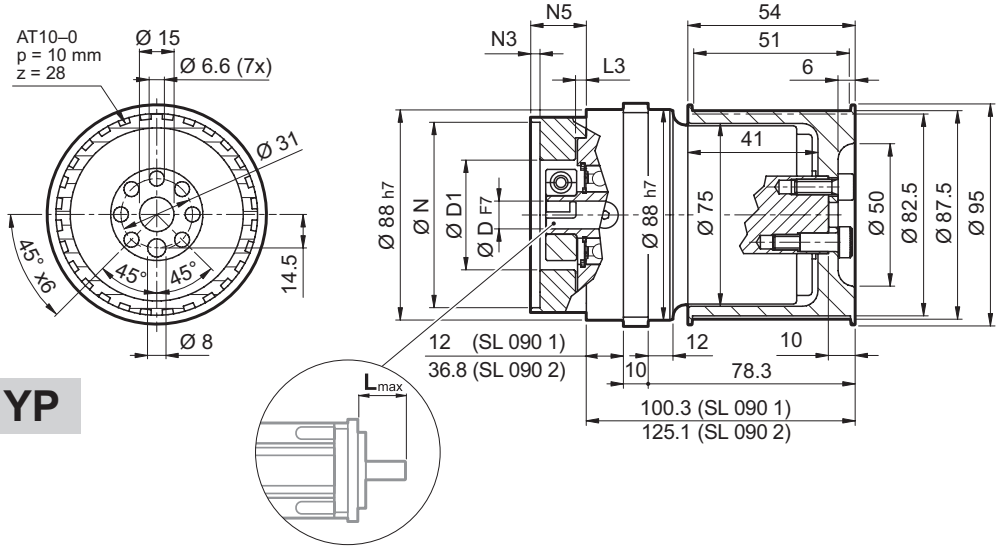



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.35 | 7 | | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ * [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 11 ... 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL 070 1_3 | 18 | 30 | 60 | 3300 | 4000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.14 | 0.16 | 3.86 |
| SL 070 1_4 | 25 | 35 | 70 | 3500 | 5000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.09 | 0.11 | |
| SL 070 1_5 | 25 | 35 | 70 | 3500 | 5000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.07 | 0.09 | |
| SL 070 1_7 | 25 | 35 | 70 | 3500 | 5000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.05 | 0.07 | |
| SL 070 1_10 | 18 | 30 | 60 | 4000 | 6000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.04 | 0.06 | |
| SL 070 2_9 | 18 | 30 | 60 | 3300 | 4000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.11 | 0.13 | |
| SL 070 2_12 | 25 | 35 | 70 | 3300 | 4000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.10 | 0.13 | |
| SL 070 2_15 | 25 | 35 | 70 | 3300 | 4000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.10 | 0.12 | |
| SL 070 2_16 | 25 | 35 | 70 | 3500 | 5000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.07 | 0.09 | |
| SL 070 2_20 | 25 | 35 | 70 | 3500 | 5000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.06 | 0.08 | |
| SL 070 2_25 | 25 | 35 | 70 | 3500 | 5000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.06 | 0.08 | |
| SL 070 2_28 | 25 | 35 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.05 | 0.07 | |
| SL 070 2_30 | 18 | 30 | 60 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |
| SL 070 2_35 | 25 | 35 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.05 | 0.07 | |
| SL 070 2_40 | 25 | 35 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |
| SL 070 2_50 | 25 | 35 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |
| SL 070 2_70 | 25 | 35 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |
| SL 070 2_100 | 18 | 30 | 60 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |

* Applicabile nell'uso con puleggia dentata

# SL 090




**YP**

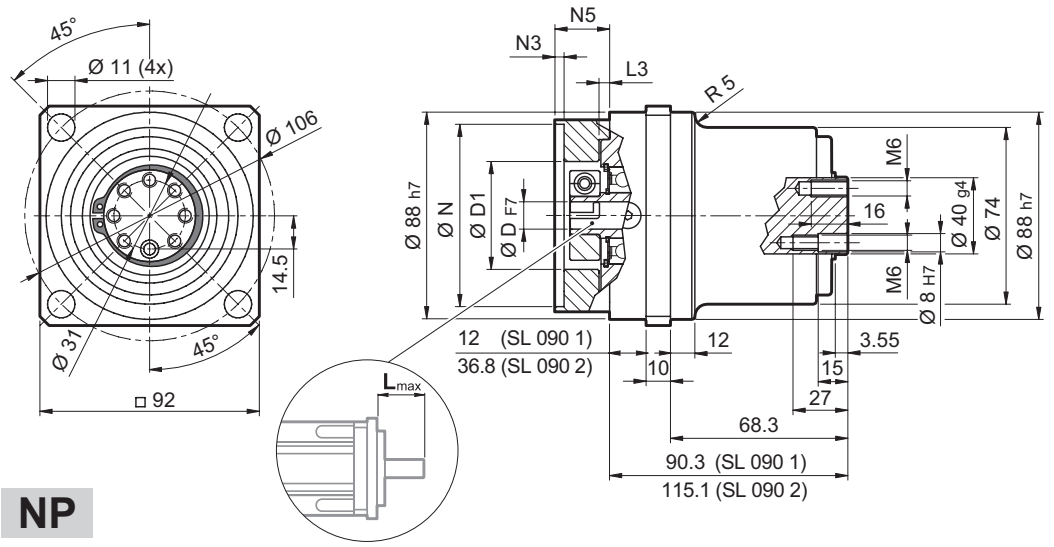
| | Kg | |
|---|---|---|
| **SL 090 1** | 3.6 | 0.8 |
| **SL 090 2** | 4.7 | 0.8 |

| | D | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **45A** | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **50B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x10 | 34 | 40 |
| **55A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x16 | 34 | 40 |
| **60A2** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 5.5 | 34 | 40 |
| **60B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

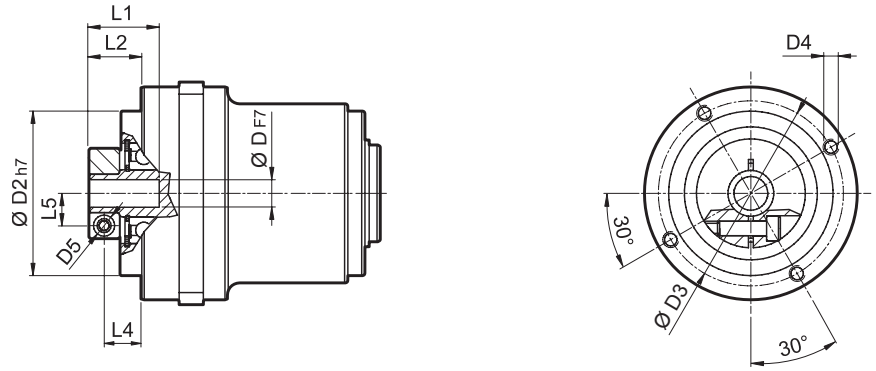
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# SL 090

## NP




## FM

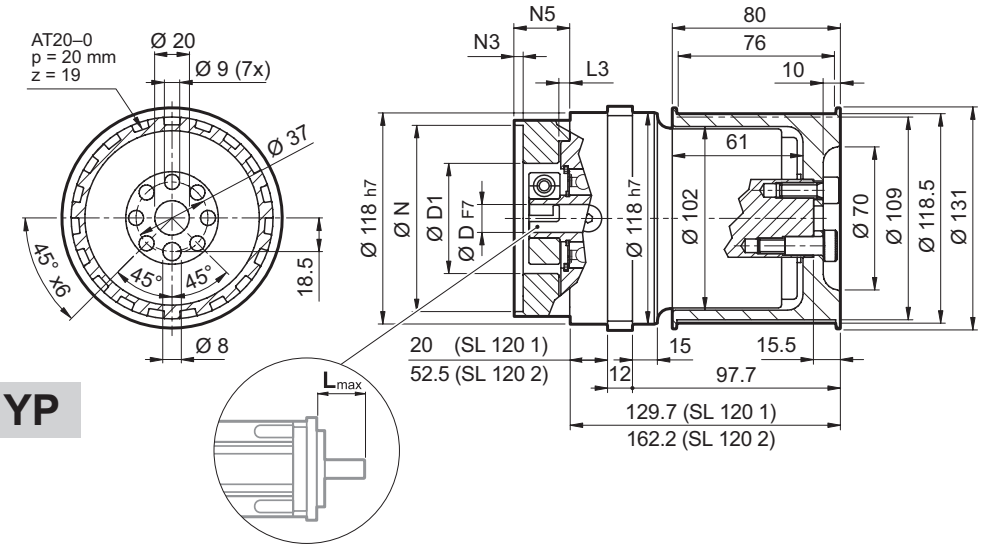



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 9.52 | | | 38 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 52 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ * [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 9 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL 090 1_3 | 37 | 70 | 150 | 2900 | 3500 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.72 | 0.81 | 10.95 |
| SL 090 1_4 | 43 | 80 | 160 | 3100 | 4500 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.49 | 0.58 | |
| SL 090 1_5 | 43 | 80 | 160 | 3200 | 4500 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.39 | 0.48 | |
| SL 090 1_7 | 43 | 80 | 160 | 4000 | 6000 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.31 | 0.40 | |
| SL 090 1_10 | 37 | 70 | 150 | 4000 | 6000 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.27 | 0.35 | |
| SL 090 2_9 | 37 | 70 | 150 | 2900 | 3500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.47 | 0.61 | |
| SL 090 2_12 | 43 | 80 | 160 | 2900 | 3500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.44 | 0.58 | |
| SL 090 2_15 | 43 | 80 | 160 | 2900 | 3500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.43 | 0.57 | |
| SL 090 2_16 | 43 | 80 | 160 | 3100 | 4500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.31 | 0.45 | |
| SL 090 2_20 | 43 | 80 | 160 | 3200 | 4500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.26 | 0.40 | |
| SL 090 2_25 | 43 | 80 | 160 | 3200 | 4500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.26 | 0.40 | |
| SL 090 2_28 | 43 | 80 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.22 | 0.36 | |
| SL 090 2_30 | 37 | 70 | 150 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.20 | 0.34 | |
| SL 090 2_35 | 43 | 80 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.22 | 0.36 | |
| SL 090 2_40 | 43 | 80 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.20 | 0.34 | |
| SL 090 2_50 | 43 | 80 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.20 | 0.34 | |
| SL 090 2_70 | 43 | 80 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.20 | 0.34 | |
| SL 090 2_100 | 37 | 70 | 150 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.19 | 0.34 | |

* Applicabile nell'uso con puleggia dentata

# SL 120




**YP**

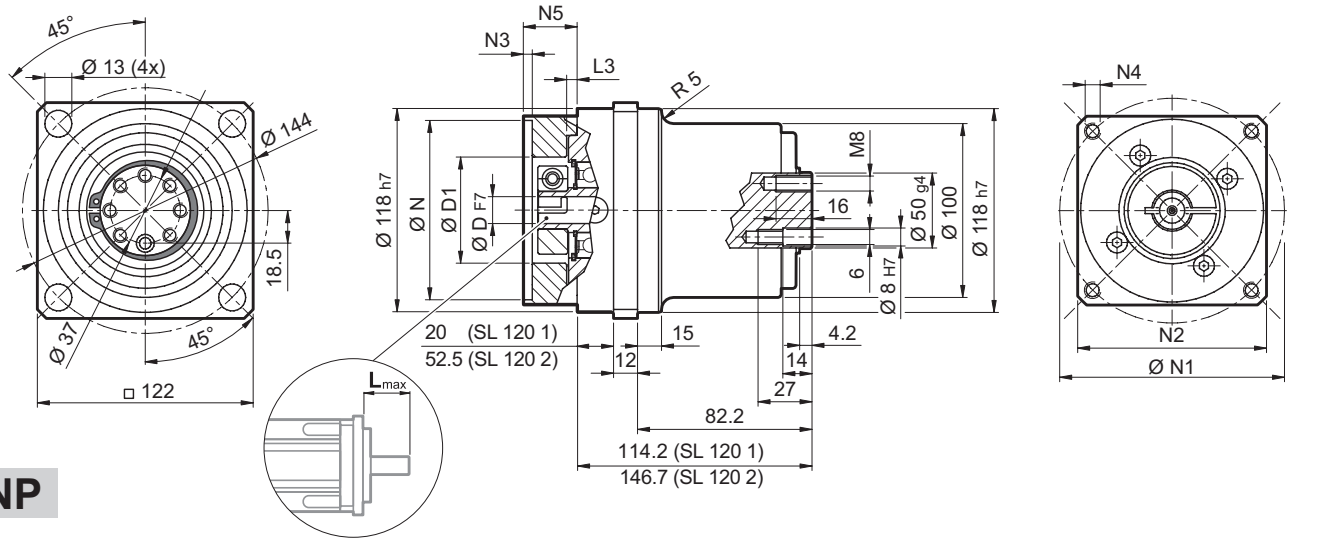
| | Kg | |
|---|---|---|
| **SL 120 1** | 8.4 | 2.6 |
| **SL 120 2** | 10.9 | 2.6 |

SL

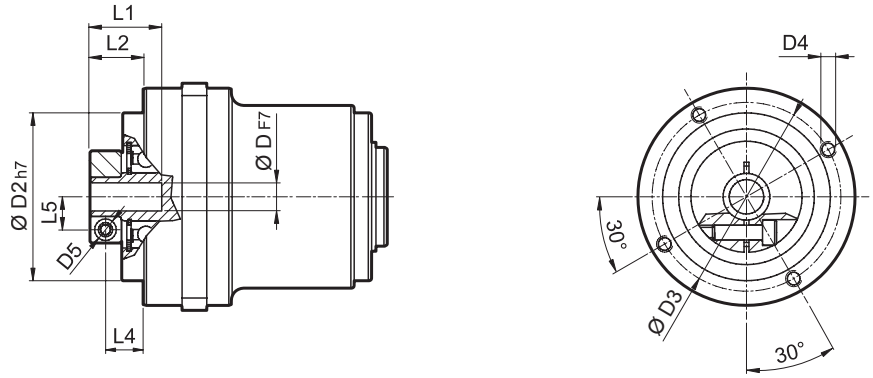
| | D | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55.5 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 5 | M5x14 | 28 | 40 |
| **60AH2** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 5 | 6.5 | 33 | 40 |
| **60B1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 5 | M6x14 | 28 | 40 |
| **70AH1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 5 | 6 | 33 | 40 |
| **70B1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 5 | M6x16 | 28 | 40 |
| **80AH1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 5 | 6.5 | 28 | 40 |
| **95A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 5 | M8x18 | 28 | 40 |
| **95A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 5 | M8x18 | 38 | 50 |
| **95B** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# SL 120




**NP**



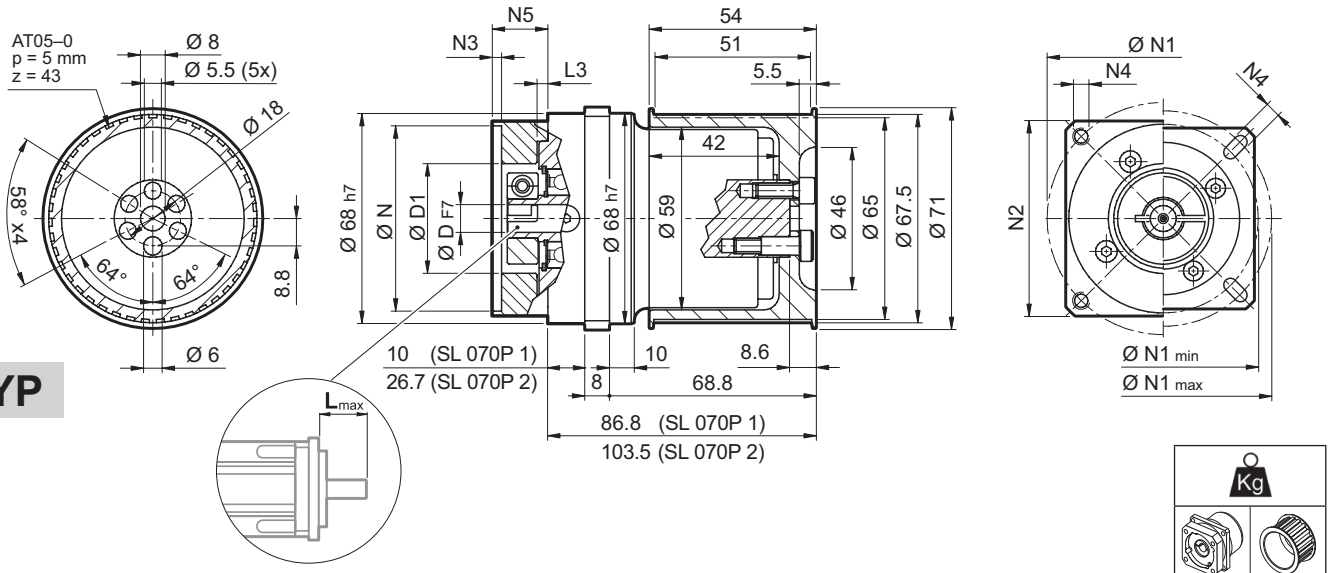

**FM**

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 36.5 | 23 | 7.6 | 14 | 19 |
| 28 | | | | 70 | 90 | 98 | M6x15 | M8 | 36.5 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 38 | 24.5 | 7.6 | 15.5 | 24.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$* [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | D 22 ; 24 | D 28 ; 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL 120 1_3 | 95 | 160 | 300 | 2500 | 3500 | 12' | 6' | 45 | 10000 | 4500 | 97 | 2.18 | 2.81 | 3.25 | 50.62 |
| SL 120 1_4 | 110 | 190 | 360 | 2800 | 4500 | 12' | 6' | 45 | 10000 | 4500 | 97 | 1.30 | 1.93 | 2.37 | |
| SL 120 1_5 | 110 | 190 | 360 | 3000 | 4500 | 12' | 6' | 45 | 10000 | 4500 | 97 | 0.96 | 1.59 | 2.03 | |
| SL 120 1_7 | 110 | 190 | 360 | 3500 | 4500 | 12' | 6' | 45 | 10000 | 4500 | 97 | 0.66 | 1.28 | 1.72 | |
| SL 120 1_10 | 95 | 160 | 300 | 3500 | 5000 | 12' | 6' | 45 | 10000 | 4500 | 97 | 0.49 | 1.11 | 1.55 | |
| SL 120 2_9 | 95 | 160 | 300 | 2500 | 3500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 1.61 | 2.20 | 2.57 | |
| SL 120 2_12 | 110 | 190 | 360 | 2500 | 3500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 1.51 | 2.10 | 2.47 | |
| SL 120 2_15 | 110 | 190 | 360 | 2500 | 3500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 1.47 | 2.06 | 2.43 | |
| SL 120 2_16 | 110 | 190 | 360 | 2800 | 4500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.92 | 1.52 | 1.88 | |
| SL 120 2_20 | 110 | 190 | 360 | 3000 | 4500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.90 | 1.50 | 1.86 | |
| SL 120 2_25 | 110 | 190 | 360 | 3000 | 4500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.71 | 1.30 | 1.67 | |
| SL 120 2_28 | 110 | 190 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.54 | 1.13 | 1.50 | |
| SL 120 2_30 | 95 | 160 | 300 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.44 | 1.04 | 1.40 | |
| SL 120 2_35 | 110 | 190 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.53 | 1.13 | 1.49 | |
| SL 120 2_40 | 110 | 190 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.43 | 1.03 | 1.39 | |
| SL 120 2_50 | 110 | 190 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.43 | 1.02 | 1.39 | |
| SL 120 2_70 | 110 | 190 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.42 | 1.02 | 1.38 | |
| SL 120 2_100 | 95 | 160 | 300 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.42 | 1.02 | 1.38 | |

* Applicabile nell'uso con puleggia dentata

# SL 070P




**YP**

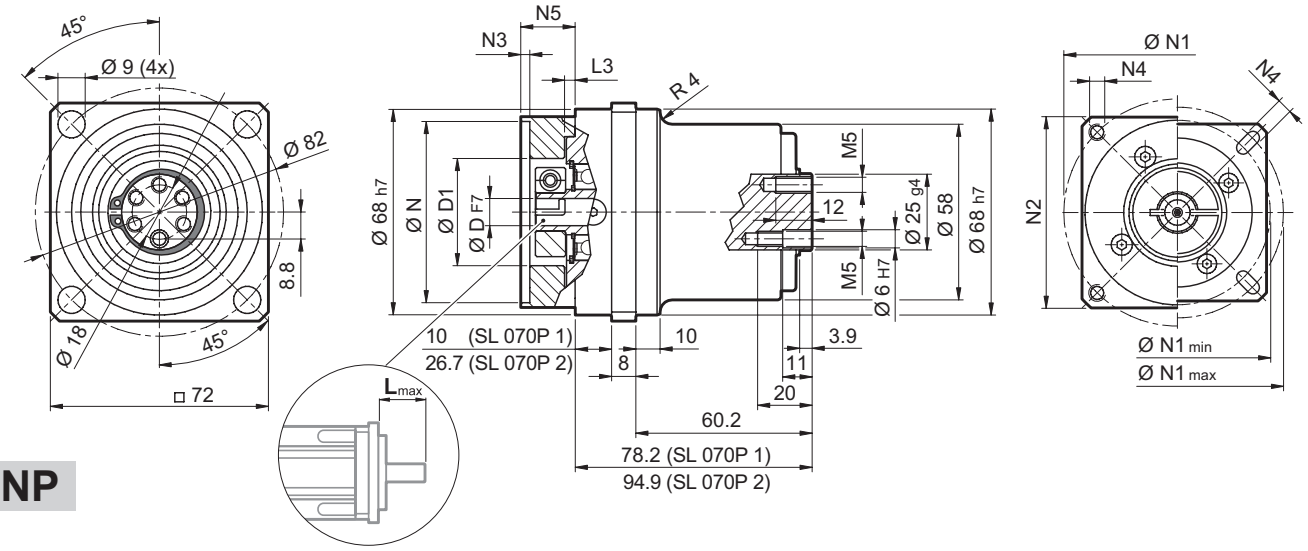
| | Kg | |
|---|---|---|
| **SL 070P 1** | 2.0 | 0.5 |
| **SL 070P 2** | 2.3 | 0.5 |

| | D | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

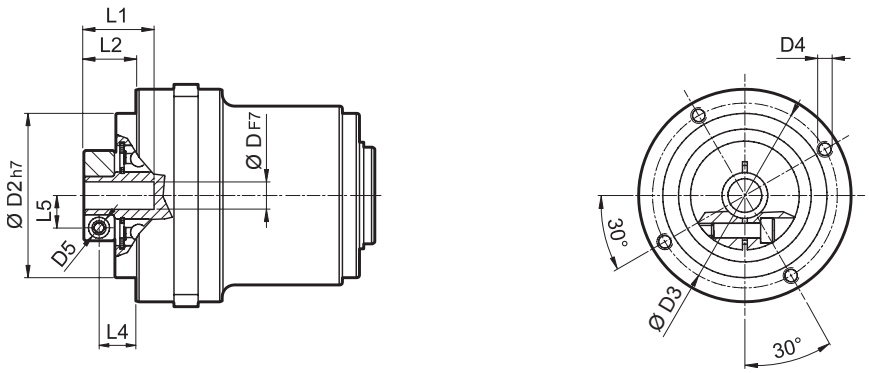
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# SL 070P

## NP




## FM

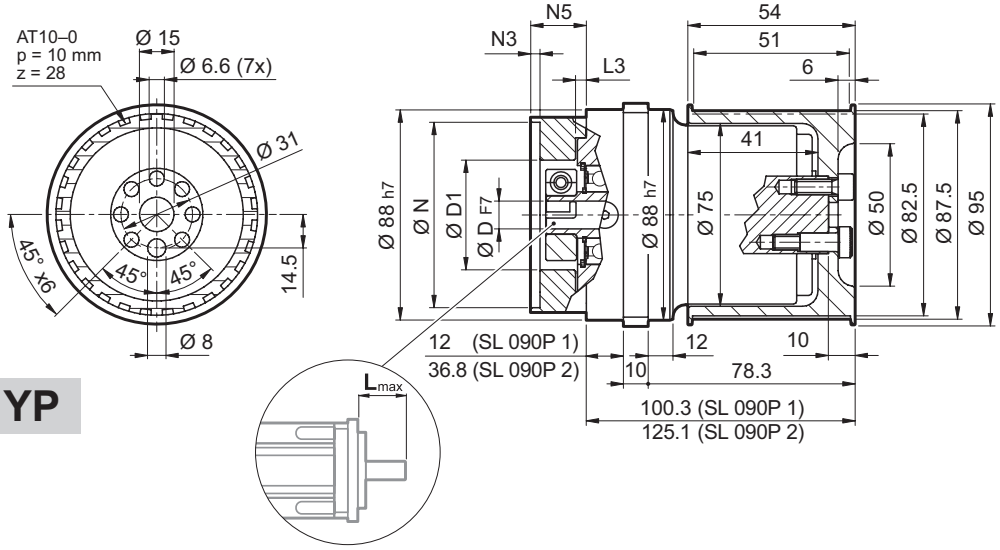



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.35 | 7 | | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ * [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 11 ... 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL 070P 1_3 | 29 | 55 | 60 | 3300 | 4000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.14 | 0.16 | 3.86 |
| SL 070P 1_4 | 30 | 45 | 70 | 3500 | 5000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.09 | 0.11 | |
| SL 070P 1_5 | 25 | 40 | 70 | 3500 | 5000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.07 | 0.09 | |
| SL 070P 1_7 | 25 | 40 | 70 | 4000 | 5000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.05 | 0.07 | |
| SL 070P 1_10 | 18 | 30 | 60 | 4000 | 6000 | 12' | 6' | 6.5 | 3500 | 1600 | 97 | 0.04 | 0.06 | |
| SL 070P 2_9 | 29 | 55 | 60 | 3300 | 4000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.11 | 0.13 | |
| SL 070P 2_12 | 29 | 55 | 70 | 3300 | 4000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.10 | 0.13 | |
| SL 070P 2_15 | 29 | 55 | 70 | 3300 | 4000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.10 | 0.12 | |
| SL 070P 2_16 | 30 | 45 | 70 | 3500 | 5000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.07 | 0.09 | |
| SL 070P 2_20 | 30 | 45 | 70 | 3500 | 5000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.06 | 0.08 | |
| SL 070P 2_25 | 30 | 45 | 70 | 3500 | 5000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.06 | 0.08 | |
| SL 070P 2_28 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.05 | 0.07 | |
| SL 070P 2_30 | 29 | 55 | 60 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |
| SL 070P 2_35 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.05 | 0.07 | |
| SL 070P 2_40 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |
| SL 070P 2_50 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |
| SL 070P 2_70 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |
| SL 070P 2_100 | 18 | 30 | 60 | 4000 | 6000 | 15' | 8' | 6 | 3500 | 1600 | 94 | 0.04 | 0.06 | |

* Applicabile nell'uso con puleggia dentata

# SL 090P



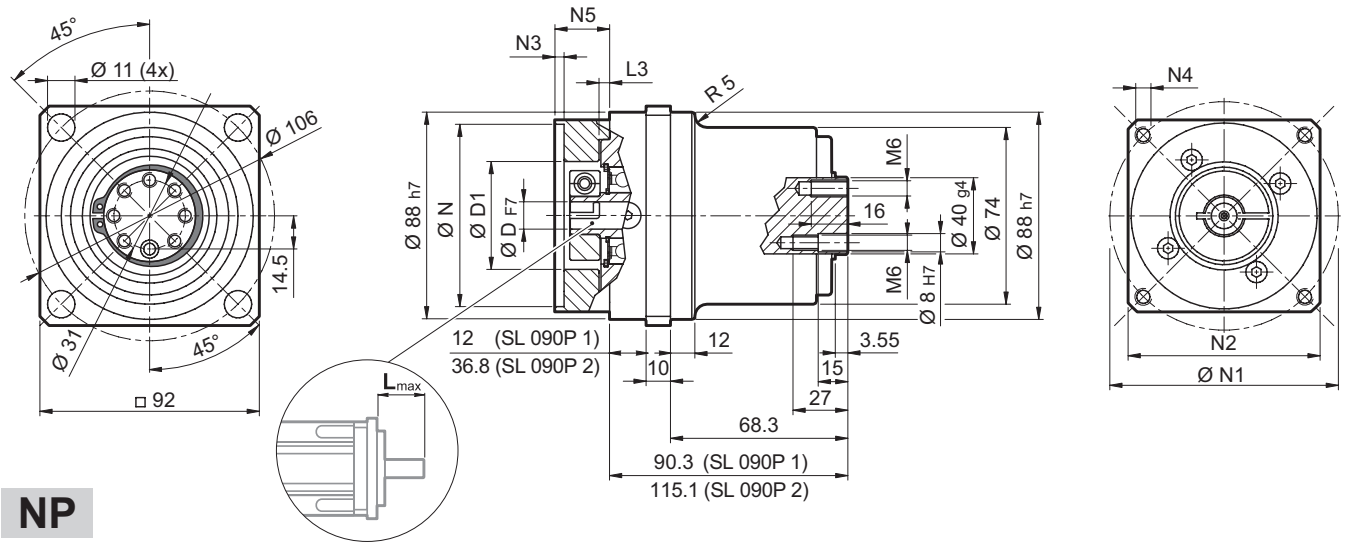

**YP**

| | Kg | |
|---|---|---|
| **SL 090P 1** | 3.6 | 0.8 |
| **SL 090P 2** | 4.7 | 0.8 |

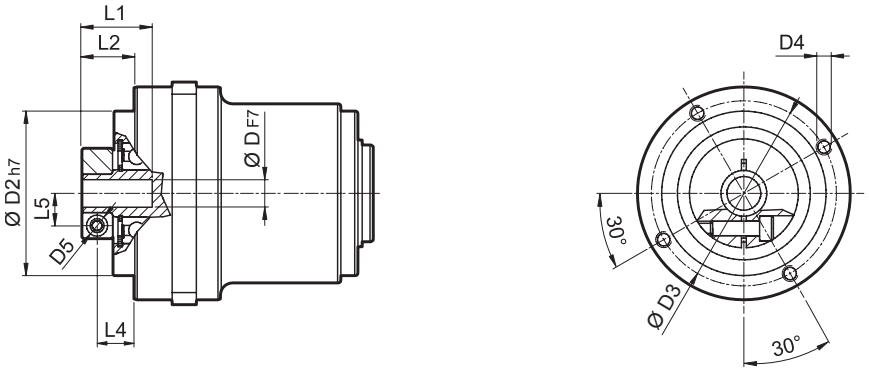
| | D | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **45A** | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **50B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x10 | 34 | 40 |
| **55A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x16 | 34 | 40 |
| **60A2** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 5.5 | 34 | 40 |
| **60B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# SL 090P




## NP



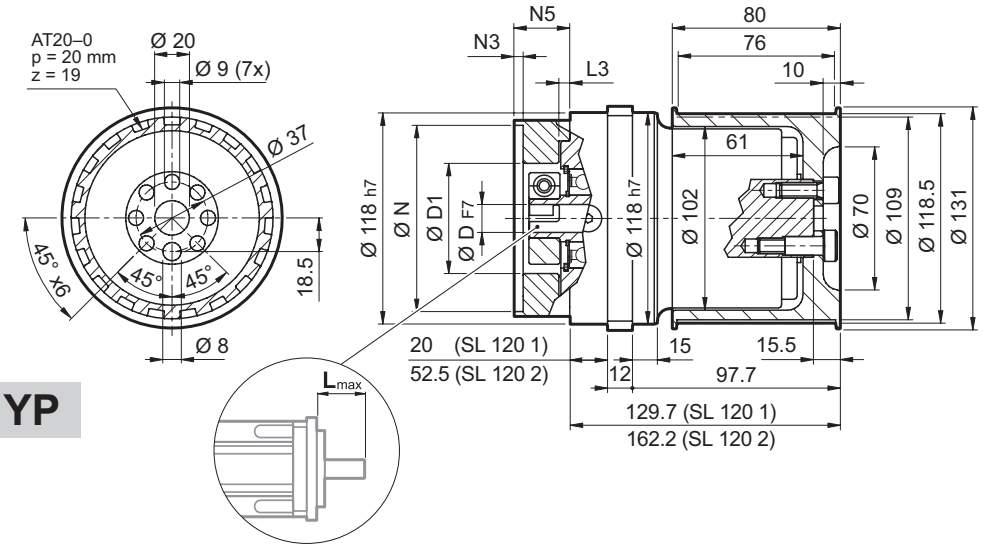

## FM

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 9.52 | | | 38 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 52 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ * [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 9 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL 090P 1_3 | 65 | 120 | 150 | 3500 | 4000 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.72 | 0.81 | 10.95 |
| SL 090P 1_4 | 60 | 110 | 160 | 3500 | 4000 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.49 | 0.58 | |
| SL 090P 1_5 | 50 | 100 | 160 | 3200 | 4500 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.39 | 0.48 | |
| SL 090P 1_7 | 50 | 100 | 160 | 4000 | 6000 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.31 | 0.40 | |
| SL 090P 1_10 | 40 | 70 | 150 | 4000 | 6000 | 12' | 6' | 12 | 4500 | 2000 | 97 | 0.27 | 0.35 | |
| SL 090P 2_9 | 65 | 120 | 150 | 3500 | 4000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.47 | 0.61 | |
| SL 090P 2_12 | 65 | 120 | 160 | 3500 | 4000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.44 | 0.58 | |
| SL 090P 2_15 | 65 | 120 | 160 | 3500 | 4000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.43 | 0.57 | |
| SL 090P 2_16 | 60 | 110 | 160 | 3500 | 4500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.31 | 0.45 | |
| SL 090P 2_20 | 60 | 110 | 160 | 3500 | 4500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.26 | 0.40 | |
| SL 090P 2_25 | 50 | 100 | 160 | 3200 | 4500 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.26 | 0.40 | |
| SL 090P 2_28 | 50 | 100 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.22 | 0.36 | |
| SL 090P 2_30 | 65 | 120 | 150 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.20 | 0.34 | |
| SL 090P 2_35 | 50 | 100 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.22 | 0.36 | |
| SL 090P 2_40 | 60 | 110 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.20 | 0.34 | |
| SL 090P 2_50 | 50 | 100 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.20 | 0.34 | |
| SL 090P 2_70 | 50 | 100 | 160 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.20 | 0.34 | |
| SL 090P 2_100 | 40 | 70 | 150 | 4000 | 6000 | 15' | 8' | 11.5 | 4500 | 2000 | 94 | 0.19 | 0.34 | |

* Applicabile nell'uso con puleggia dentata

# SL 120P



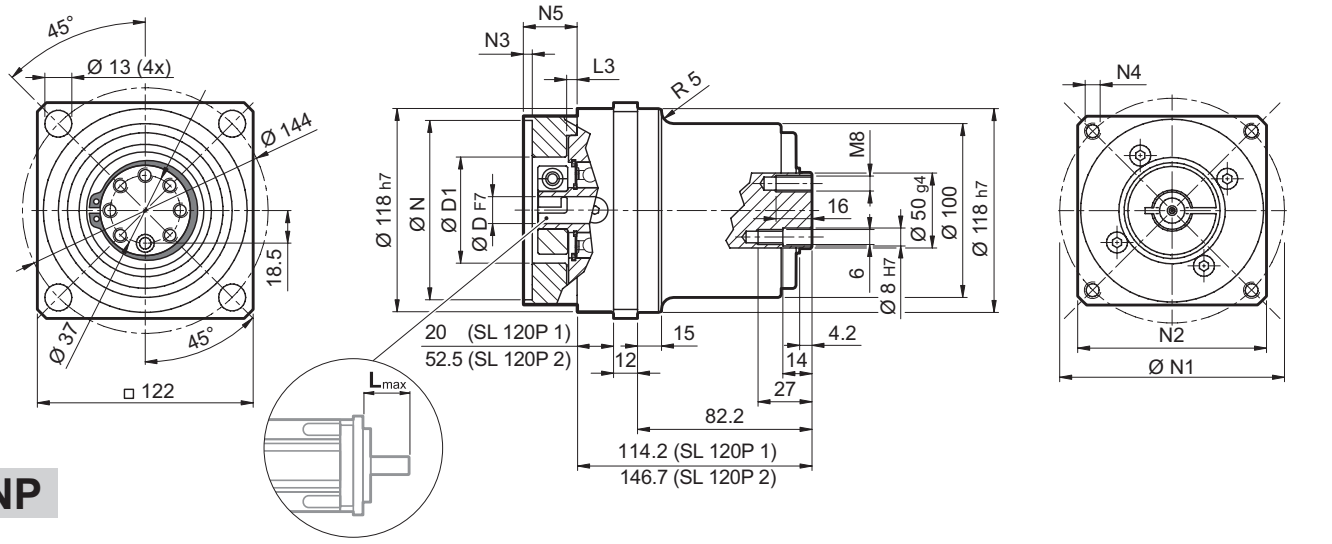

**YP**

| | Kg | |
|---|---|---|
| **SL 120P 1** | 8.4 | 2.6 |
| **SL 120P 2** | 10.9 | 2.6 |

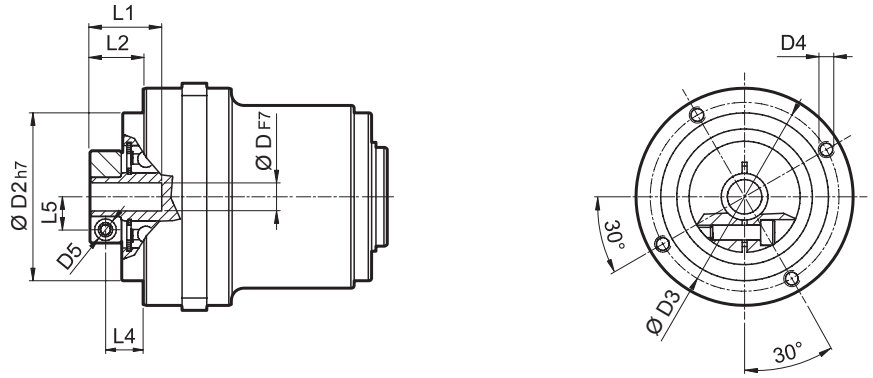
| | D | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55.5 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 5 | M5x14 | 28 | 40 |
| **60AH2** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 5 | 6.5 | 33 | 40 |
| **60B1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 5 | M6x14 | 28 | 40 |
| **70AH1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 5 | 6 | 33 | 40 |
| **70B1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 5 | M6x16 | 28 | 40 |
| **80AH1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 5 | 6.5 | 28 | 40 |
| **95A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 5 | M8x18 | 28 | 40 |
| **95A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 5 | M8x18 | 38 | 50 |
| **95B** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# SL 120P




## NP




## FM

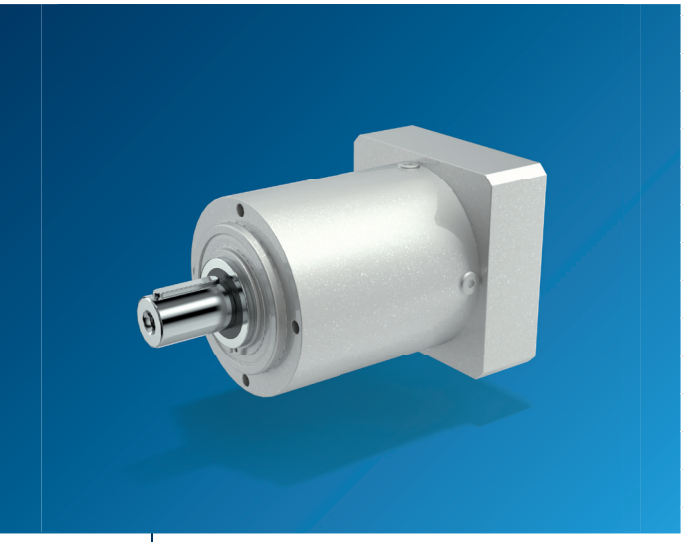
| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 36.5 | 23 | 7.6 | 14 | 19 |
| 28 | | | | 70 | 90 | 98 | M6x15 | M8 | 36.5 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 38 | 24.5 | 7.6 | 15.5 | 24.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$* [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | D 22 ; 24 | D 28 ; 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL 120P 1_3 | 155 | 280 | 300 | 3000 | 4000 | 12' | 6' | 45 | 10000 | 4500 | 97 | 2.18 | 2.81 | 3.25 | 50.62 |
| SL 120P 1_4 | 155 | 300 | 360 | 3000 | 4500 | 12' | 6' | 45 | 10000 | 4500 | 97 | 1.30 | 1.93 | 2.37 | |
| SL 120P 1_5 | 125 | 240 | 360 | 3000 | 4500 | 12' | 6' | 45 | 10000 | 4500 | 97 | 0.96 | 1.59 | 2.03 | |
| SL 120P 1_7 | 125 | 240 | 360 | 3500 | 4500 | 12' | 6' | 45 | 10000 | 4500 | 97 | 0.66 | 1.28 | 1.72 | |
| SL 120P 1_10 | 100 | 160 | 300 | 3500 | 5000 | 12' | 6' | 45 | 10000 | 4500 | 97 | 0.49 | 1.11 | 1.55 | |
| SL 120P 2_9 | 155 | 280 | 300 | 3000 | 4000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 1.61 | 2.20 | 2.57 | |
| SL 120P 2_12 | 155 | 300 | 360 | 3000 | 4000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 1.51 | 2.10 | 2.47 | |
| SL 120P 2_15 | 155 | 300 | 360 | 3000 | 4000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 1.47 | 2.06 | 2.43 | |
| SL 120P 2_16 | 155 | 300 | 360 | 3000 | 4500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.92 | 1.52 | 1.88 | |
| SL 120P 2_20 | 155 | 300 | 360 | 3000 | 4500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.90 | 1.50 | 1.86 | |
| SL 120P 2_25 | 125 | 240 | 360 | 3000 | 4500 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.71 | 1.30 | 1.67 | |
| SL 120P 2_28 | 125 | 240 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.54 | 1.13 | 1.50 | |
| SL 120P 2_30 | 155 | 300 | 300 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.44 | 1.04 | 1.40 | |
| SL 120P 2_35 | 125 | 240 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.53 | 1.13 | 1.49 | |
| SL 120P 2_40 | 155 | 300 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.43 | 1.03 | 1.39 | |
| SL 120P 2_50 | 125 | 240 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.43 | 1.02 | 1.39 | |
| SL 120P 2_70 | 125 | 240 | 360 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.42 | 1.02 | 1.38 | |
| SL 120P 2_100 | 100 | 160 | 300 | 3500 | 5000 | 15' | 8' | 40 | 10000 | 4500 | 94 | 0.42 | 1.02 | 1.38 | |

* Applicabile nell'uso con puleggia dentata

# Linea Effective

(E)



## Serie LC

I riduttori epicicloidali di precisione LC sono caratterizzati da un elevato livello di prestazioni ed affidabilità ottimali.
Il design del prodotto in linea con gli standard di mercato garantisce una compatibilità elevata per un facile retrofit e un alto livello di libertà nello sviluppo dei progetti.

## Vantaggi principali

- Altamente performanti ed economicamente convenienti
- Estremamente affidabili
- Compatibilità elevata per un facile retrofit

## Caratteristiche principali

- Coppia nominale in uscita (Nm)

10 - 450

- Gioco torsionale (arcmin)

6 - 15

- Momento di ribaltamento (Nm)

15 - 522

## Grado di protezione

- IP54

## Grandezze

- 50
- 70
- 90
- 120
- 155

## Opzioni principali

- Versioni con ingresso

PREDISPOSI-ZIONE MOTORE

SENZA ADATTATORE IN INGRESSO

- Versioni alberi di uscita

ALBERO LISCIO

ALBERO CON CHIAVETTA

- Lubrificazione

LUBRIFICAZIONE STANDARD


LUBRIFICANTE AD USO ALIMENTARE

- Versione ad alta potenza (opzione P)

VERSIONE AD ALTA POTENZA

## *10 CARATTERISTICHE DELLA SERIE LC*

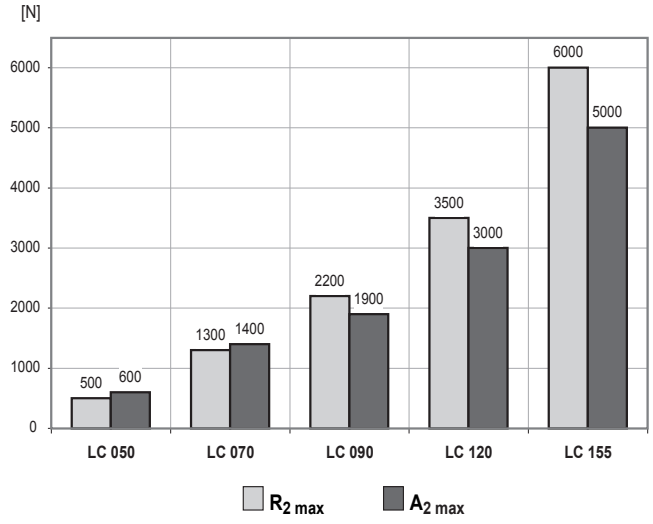
I riduttori epicicloidali a gioco ridotto della serie LC costituiscono una gamma di trasmissioni assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio senza la richiesta di particolari interventi di manutenzione.
L'accoppiamento al motore è operazione che non richiede alcuna attrezzatura specifica, se non quella normalmente reperibile in un'officina.

- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW)
  1 stadio di riduzione: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 6'$
  1 stadio di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 8'$
- Protezione contro la penetrazione di polvere o liquidi dall'esterno (IP54).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero di fornitura standard.
- Livello di rumorosità $L_P \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 $min^{-1}$; i=10.
- Ampia possibilità di configurazione lato accoppiamento motore
- Riempimento in fabbrica con grasso sintetico di consistenza NLGI 00, in assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$.
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C.
- Disponibile versione P con maggiore coppia in uscita.

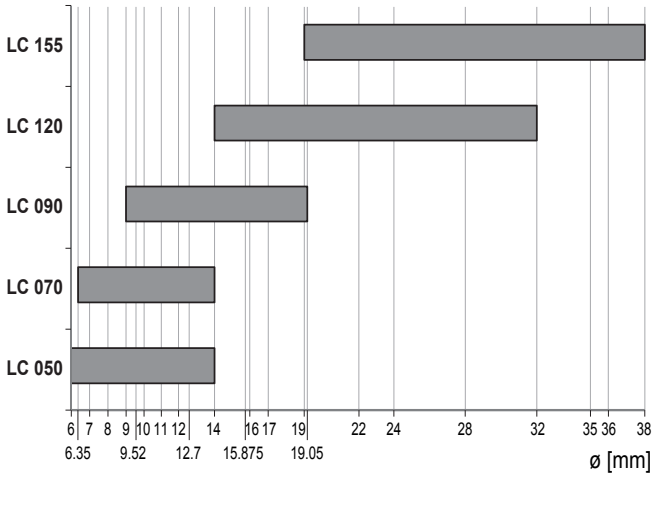
| **Distribuzione coppia nominale** $M_{n2}$ [Nm] | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **[i]** | **3** | **4** | **5** | **7** | **9** | **10** | **12** | **15** | **16** | **20** | **25** | **28** | **30** | **35** | **36** | **40** | **45** | **50** | **70** | **81** | **100** |
| **LC 050** | 10 | 12 | 12 | 12 | 10 | – | 12 | 12 | 12 | 12 | 12 | 12 | – | 12 | 12 | – | 12 | – | – | 10 | – |
| **LC 070** | 18 | 25 | 25 | 25 | 18 | 18 | 25 | 25 | 25 | 25 | 25 | 25 | 18 | 25 | – | 25 | – | 25 | 25 | – | 18 |
| **LC 070P** | 29 | 30 | 25 | 25 | 29 | 18 | 29 | 29 | 30 | 30 | 30 | 30 | 29 | 30 | - | 30 | - | 30 | 30 | - | 18 |
| **LC 090** | 37 | 43 | 43 | 43 | 37 | 37 | 43 | 43 | 43 | 43 | 43 | 43 | 37 | 43 | – | 43 | – | 43 | 43 | – | 37 |
| **LC 090P** | 65 | 60 | 50 | 50 | 65 | 40 | 65 | 65 | 60 | 60 | 50 | 50 | 65 | 50 | - | 60 | - | 50 | 50 | - | 40 |
| **LC 120** | 95 | 110 | 110 | 110 | 95 | 95 | 110 | 110 | 110 | 110 | 110 | 110 | 95 | 110 | – | 110 | – | 110 | 110 | – | 95 |
| **LC 120P** | 155 | 155 | 125 | 125 | 155 | 100 | 155 | 155 | 155 | 155 | 125 | 125 | 155 | 125 | - | 155 | - | 125 | 125 | - | 100 |
| **LC 155** | 250 | 300 | 300 | 300 | 250 | 230 | 300 | 300 | 300 | 300 | 300 | 300 | 250 | 300 | – | 300 | – | 300 | 300 | – | 230 |
| **LC 155P** | 250 | 350 | 350 | 350 | 250 | 230 | 450 | 450 | 450 | 450 | 450 | 450 | 250 | 450 | - | 450 | - | 450 | 450 | - | 230 |



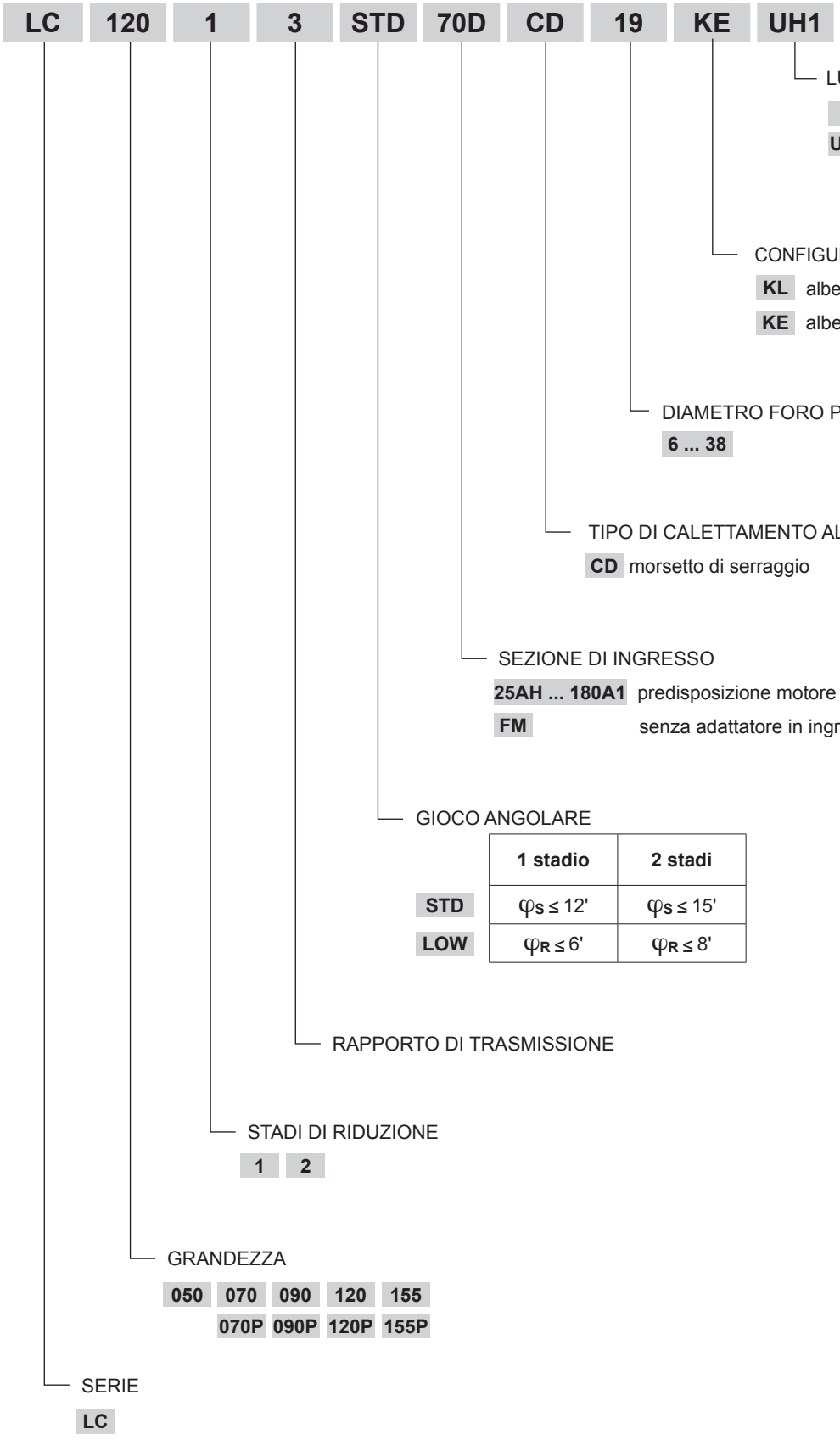
**Carichi massimi applicabili sull'albero lento**




**Alberi motore accoppiabili**



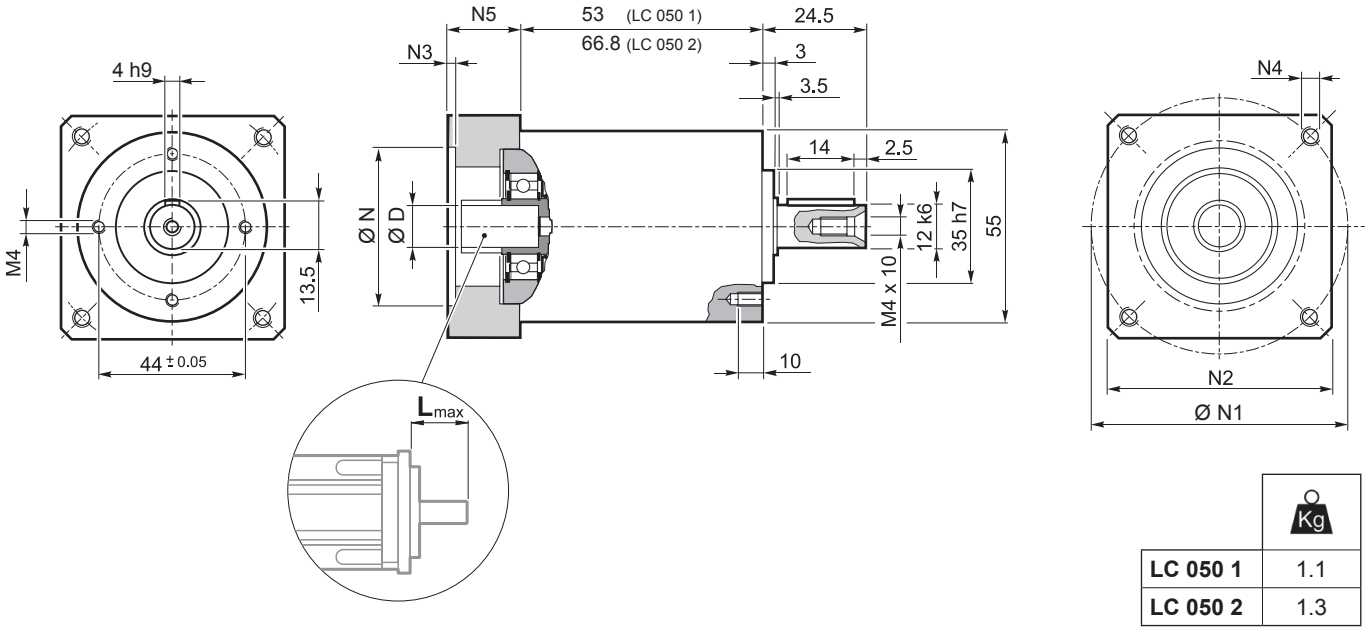
### *10.1 CODICE ORDINATIVO*



*10.2 DIMENSIONI E DATI TECNICI*

# LC 050

## 25AH ... 80A



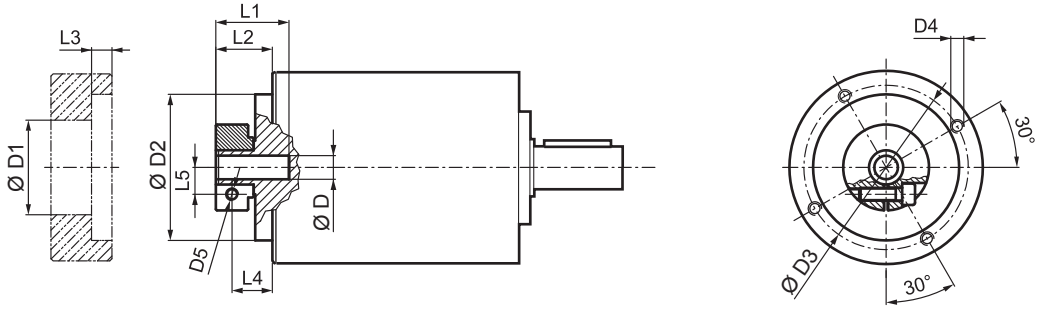

| | Kg |
|---|---|
| **LC 050 1** | 1.1 |
| **LC 050 2** | 1.3 |

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 36 | 48 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 36 | 48 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 36 | 48 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 36 | 48 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 38 | 48 | 55 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 48 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 48 | | | | | |
| **38AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 38 | 44 | 48 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 48 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 4 | 5.5 | 23 | 30 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **50MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 65 | | 55 | 4 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | 5.5 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60AH1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | 5.5 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 050

**FM**

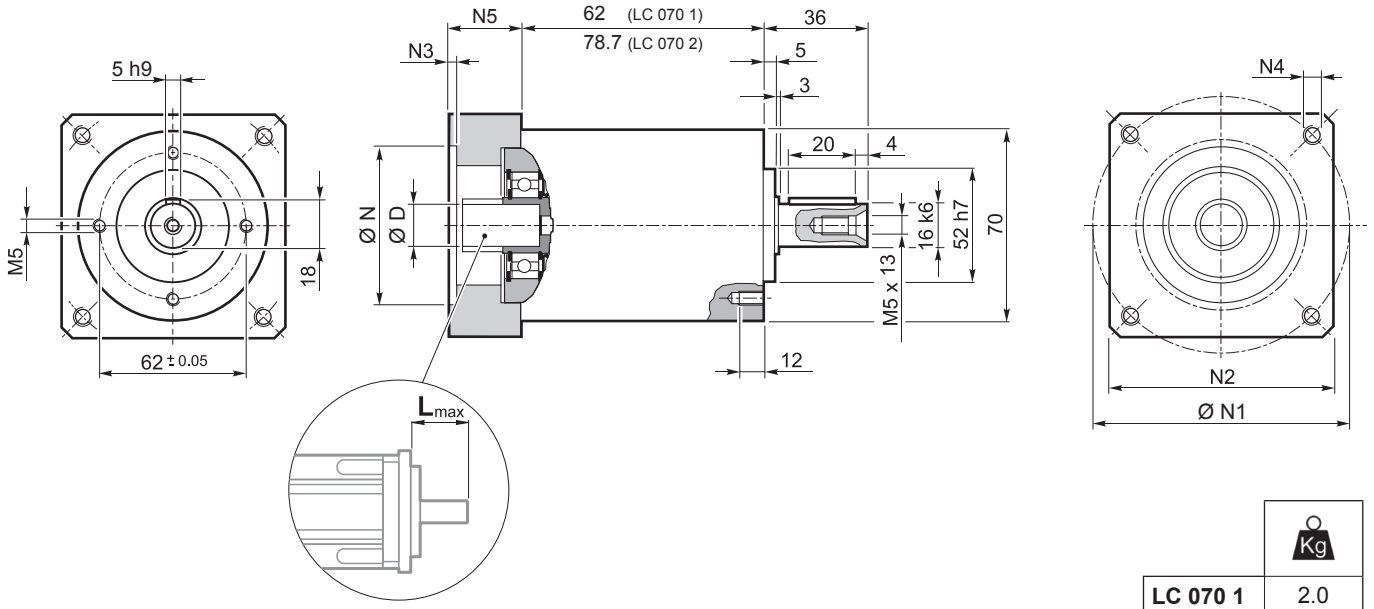



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LC 050 1_ 3 | 10 | 16 | 28 | 3300 | 4000 | 12’ | 6’ | 0.9 | 500 | 600 | 97 | 0.07 | 0.10 |
| LC 050 1_ 4 | 12 | 20 | 30 | 3500 | 5000 | 12’ | 6’ | 0.9 | 500 | 600 | 97 | 0.06 | 0.08 |
| LC 050 1_ 5 | 12 | 20 | 30 | 3500 | 5000 | 12’ | 6’ | 0.9 | 500 | 600 | 97 | 0.05 | 0.07 |
| LC 050 1_ 7 | 12 | 20 | 30 | 4000 | 5000 | 12’ | 6’ | 0.9 | 500 | 600 | 97 | 0.04 | 0.06 |
| LC 050 1_ 9 | 10 | 16 | 28 | 4000 | 6000 | 12’ | 6’ | 0.9 | 500 | 600 | 97 | 0.04 | 0.06 |
| LC 050 2_ 12 | 12 | 20 | 30 | 3300 | 4000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.07 | 0.09 |
| LC 050 2_ 15 | 12 | 20 | 30 | 3300 | 4000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.07 | 0.09 |
| LC 050 2_ 16 | 12 | 20 | 30 | 3500 | 5000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.05 | 0.07 |
| LC 050 2_ 20 | 12 | 20 | 30 | 3500 | 5000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.05 | 0.07 |
| LC 050 2_ 25 | 12 | 20 | 30 | 3500 | 5000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.05 | 0.07 |
| LC 050 2_ 28 | 12 | 20 | 30 | 4000 | 5000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.04 | 0.06 |
| LC 050 2_ 35 | 12 | 20 | 30 | 4000 | 5000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.04 | 0.06 |
| LC 050 2_ 36 | 12 | 20 | 30 | 4000 | 6000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.04 | 0.06 |
| LC 050 2_ 45 | 12 | 20 | 30 | 4000 | 6000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.04 | 0.06 |
| LC 050 2_ 81 | 10 | 16 | 28 | 4000 | 6000 | 15’ | 8’ | 0.75 | 500 | 600 | 94 | 0.04 | 0.06 |

# LC 070

## 25AH ... 80A



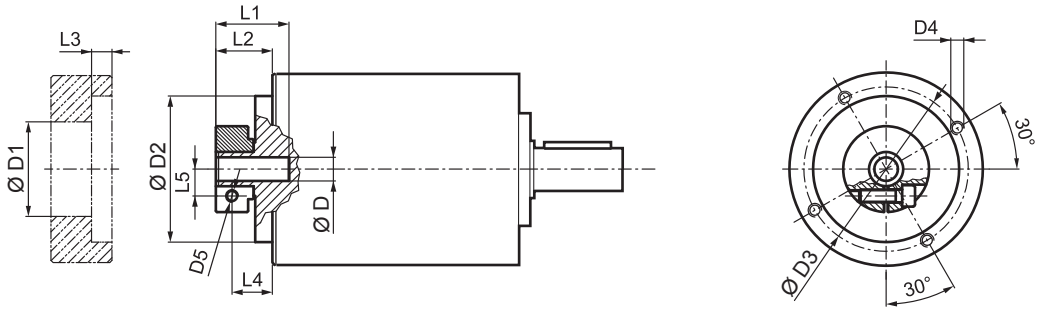

| | Kg |
|---|---|
| **LC 070 1** | 2.0 |
| **LC 070 2** | 2.3 |

| | D | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 070

**FM**

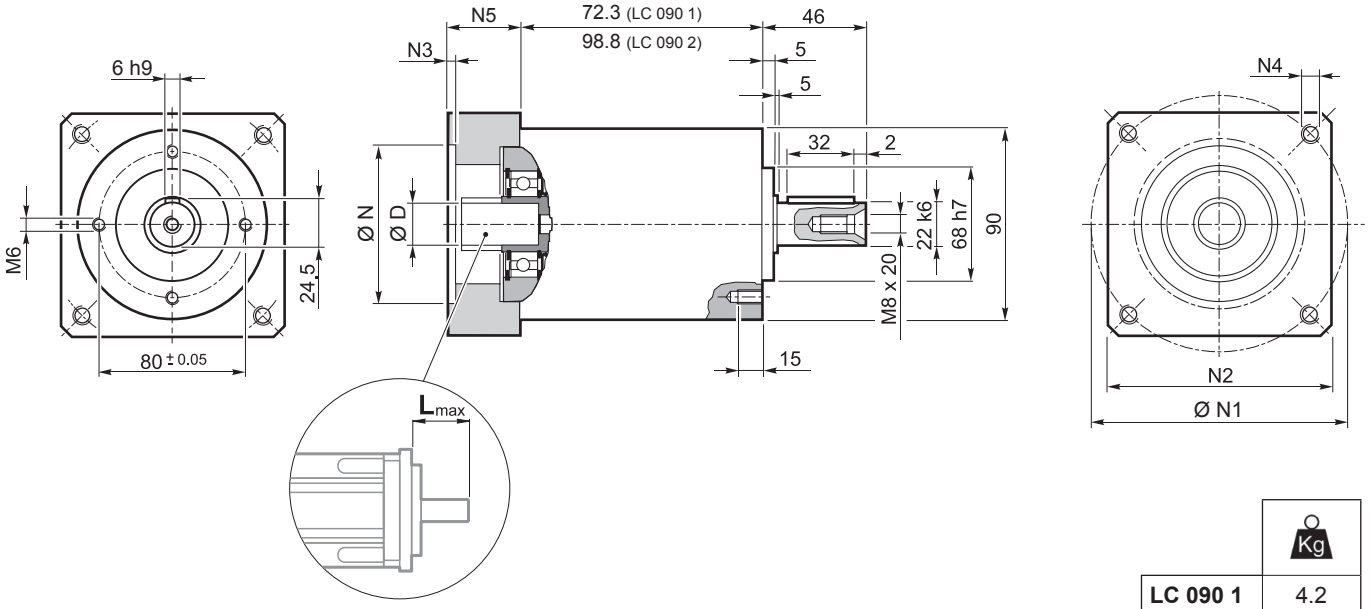



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.35 | 7 | | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6.35 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LC 070 1_ 3 | 18 | 30 | 60 | 3300 | 4000 | 12’ | 6’ | 3 | 1300 | 1400 | 97 | 0.12 | 0.14 |
| LC 070 1_ 4 | 25 | 35 | 70 | 3500 | 5000 | 12’ | 6’ | 3 | 1300 | 1400 | 97 | 0.08 | 0.10 |
| LC 070 1_ 5 | 25 | 35 | 70 | 3500 | 5000 | 12’ | 6’ | 3 | 1300 | 1400 | 97 | 0.06 | 0.09 |
| LC 070 1_ 7 | 25 | 35 | 70 | 4000 | 5000 | 12’ | 6’ | 3 | 1300 | 1400 | 97 | 0.05 | 0.07 |
| LC 070 1_ 10 | 18 | 30 | 60 | 4000 | 6000 | 12’ | 6’ | 3 | 1300 | 1400 | 97 | 0.04 | 0.06 |
| LC 070 2_ 9 | 18 | 30 | 60 | 3300 | 4000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.11 | 0.13 |
| LC 070 2_ 12 | 25 | 35 | 70 | 3300 | 4000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.10 | 0.13 |
| LC 070 2_ 15 | 25 | 35 | 70 | 3300 | 4000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.10 | 0.12 |
| LC 070 2_ 16 | 25 | 35 | 70 | 3500 | 5000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.07 | 0.09 |
| LC 070 2_ 20 | 25 | 35 | 70 | 3500 | 5000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.06 | 0.08 |
| LC 070 2_ 25 | 25 | 35 | 70 | 3500 | 5000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.06 | 0.08 |
| LC 070 2_ 28 | 25 | 35 | 70 | 4000 | 5000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.05 | 0.07 |
| LC 070 2_ 30 | 18 | 30 | 60 | 4000 | 6000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |
| LC 070 2_ 35 | 25 | 35 | 70 | 4000 | 5000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.05 | 0.07 |
| LC 070 2_ 40 | 25 | 35 | 70 | 4000 | 6000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |
| LC 070 2_ 50 | 25 | 35 | 70 | 4000 | 6000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |
| LC 070 2_ 70 | 25 | 35 | 70 | 4000 | 6000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |
| LC 070 2_ 100 | 18 | 30 | 60 | 4000 | 6000 | 15’ | 8’ | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |

# LC 090

## 40B1 ... 110B1



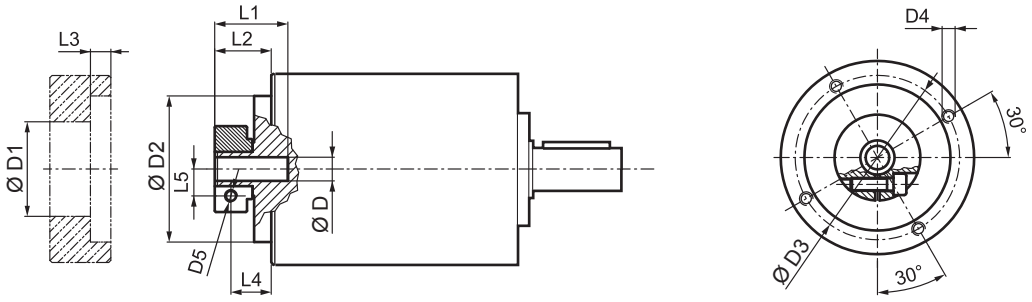

| | Kg |
|---|---|
| **LC 090 1** | 4.2 |
| **LC 090 2** | 5.3 |

| | D | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **45A** | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **50B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x10 | 34 | 40 |
| **55A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x16 | 34 | 40 |
| **60A2** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 5.5 | 34 | 40 |
| **60B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 090

**FM**

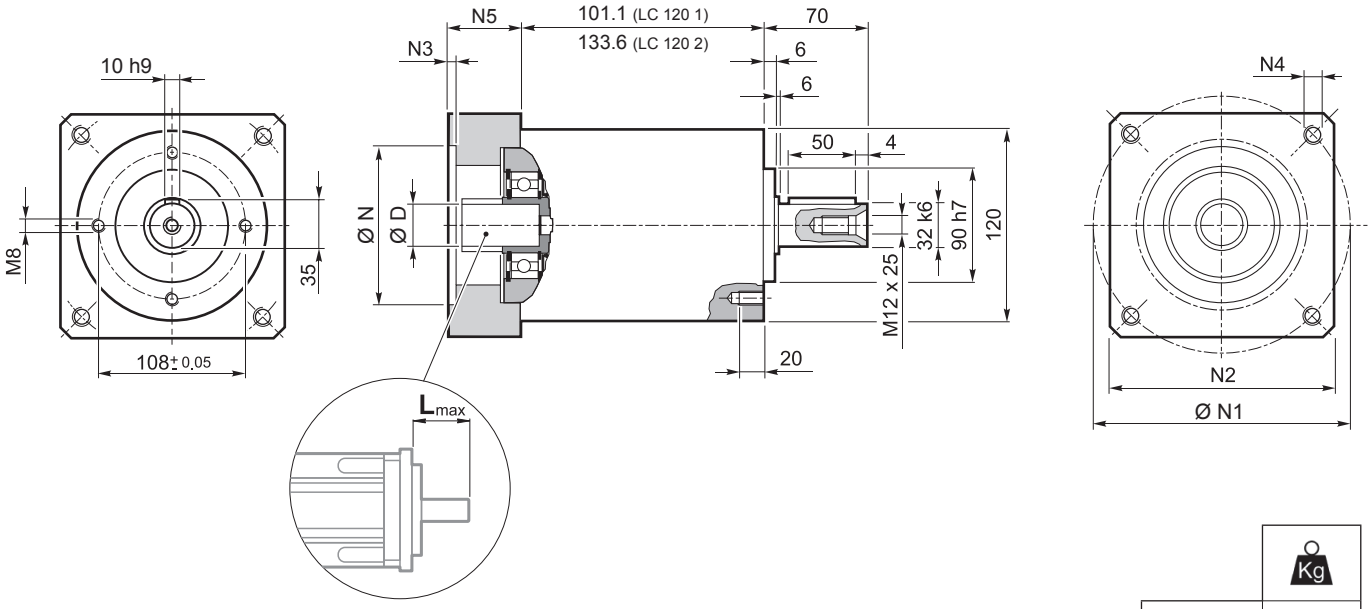



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 9.52 | | | 38 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 9 ... 12.7 | 14 ... 19.05 |
| LC 090 1_ 3 | 37 | 70 | 150 | 2900 | 3500 | 12’ | 6’ | 9 | 2200 | 1900 | 97 | 0.62 | 0.77 |
| LC 090 1_ 4 | 43 | 80 | 160 | 3100 | 4500 | 12’ | 6’ | 9 | 2200 | 1900 | 97 | 0.41 | 0.55 |
| LC 090 1_ 5 | 43 | 80 | 160 | 3200 | 4500 | 12’ | 6’ | 9 | 2200 | 1900 | 97 | 0.33 | 0.47 |
| LC 090 1_ 7 | 43 | 80 | 160 | 4000 | 4500 | 12’ | 6’ | 9 | 2200 | 1900 | 97 | 0.26 | 0.40 |
| LC 090 1_ 10 | 37 | 70 | 150 | 4000 | 6000 | 12’ | 6’ | 9 | 2200 | 1900 | 97 | 0.21 | 0.35 |
| LC 090 2_ 9 | 37 | 70 | 150 | 2900 | 3500 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.47 | 0.61 |
| LC 090 2_ 12 | 43 | 80 | 160 | 2900 | 3500 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.44 | 0.58 |
| LC 090 2_ 15 | 43 | 80 | 160 | 2900 | 3500 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.43 | 0.57 |
| LC 090 2_ 16 | 43 | 80 | 160 | 3100 | 4500 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.31 | 0.45 |
| LC 090 2_ 20 | 43 | 80 | 160 | 3200 | 4500 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.26 | 0.40 |
| LC 090 2_ 25 | 43 | 80 | 160 | 3200 | 4500 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.26 | 0.40 |
| LC 090 2_ 28 | 43 | 80 | 160 | 4000 | 4500 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.22 | 0.36 |
| LC 090 2_ 30 | 37 | 70 | 150 | 4000 | 6000 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.20 | 0.34 |
| LC 090 2_ 35 | 43 | 80 | 160 | 4000 | 4500 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.22 | 0.36 |
| LC 090 2_ 40 | 43 | 80 | 160 | 4000 | 6000 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.20 | 0.34 |
| LC 090 2_ 50 | 43 | 80 | 160 | 4000 | 6000 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.20 | 0.34 |
| LC 090 2_ 70 | 43 | 80 | 160 | 4000 | 6000 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.20 | 0.34 |
| LC 090 2_ 100 | 37 | 70 | 150 | 4000 | 6000 | 15’ | 8’ | 8.5 | 2200 | 1900 | 94 | 0.19 | 0.34 |

# LC 120

## 50D ... 130A1



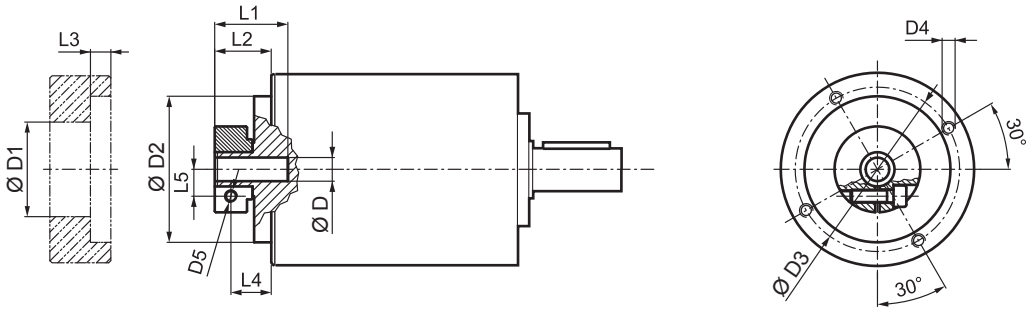

| | Kg |
|---|---|
| **LC 120 1** | 9.6 |
| **LC 120 2** | 12.1 |

| | D | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55.5 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 5 | M5x14 | 28 | 40 |
| **60AH2** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 5 | 6.5 | 33 | 40 |
| **60B1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 5 | M6x14 | 28 | 40 |
| **70AH1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 5 | 6 | 33 | 40 |
| **70B1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 5 | M6x16 | 28 | 40 |
| **80AH1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 5 | 6.5 | 28 | 40 |
| **95A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 5 | M8x18 | 28 | 40 |
| **95A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 5 | M8x18 | 38 | 50 |
| **95B** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 120

**FM**

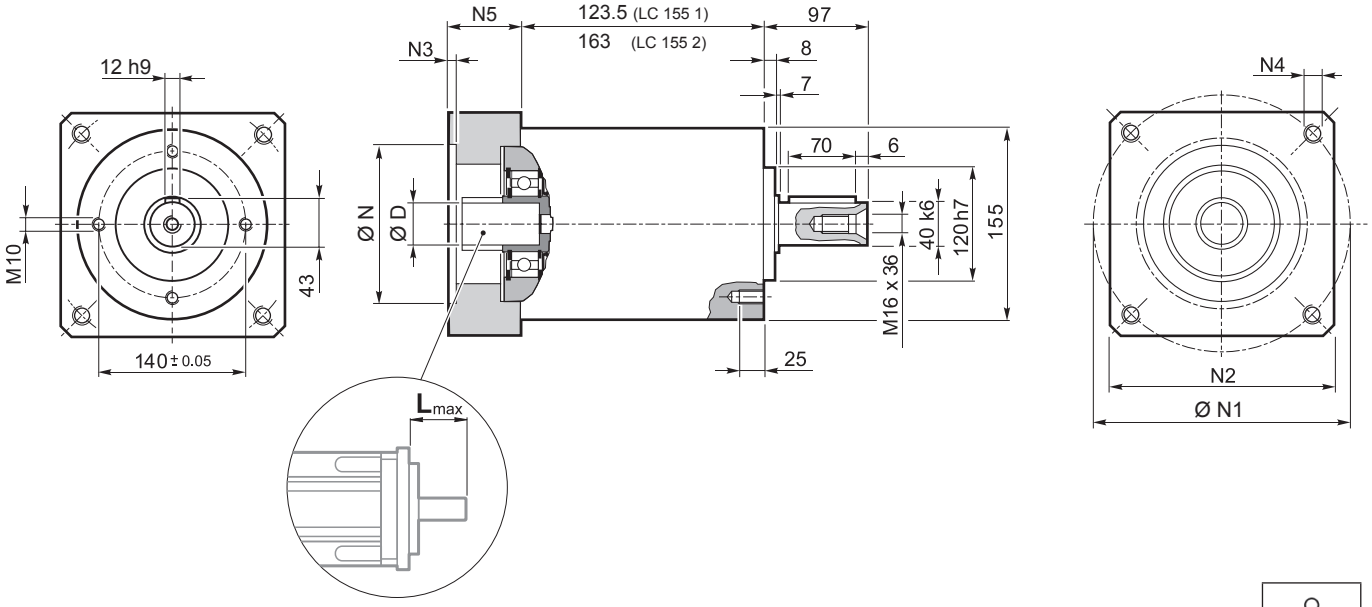



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 36.5 | 23 | 7.6 | 14 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 36.5 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 38 | 24.5 | 7.6 | 15.5 | 24.5 |

| i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 14 ... 19 | 22 ; 24 | 28 ; 32 |
| LC 120 1_ 3 | 95 | 160 | 300 | 2500 | 3500 | 12’ | 6’ | 25 | 3500 | 3000 | 97 | 2.17 | 2.77 | 3.13 |
| LC 120 1_ 4 | 110 | 190 | 360 | 2800 | 4500 | 12’ | 6’ | 25 | 3500 | 3000 | 97 | 1.30 | 1.89 | 2.26 |
| LC 120 1_ 5 | 110 | 190 | 360 | 3000 | 4500 | 12’ | 6’ | 25 | 3500 | 3000 | 97 | 0.96 | 1.56 | 1.92 |
| LC 120 1_ 7 | 110 | 190 | 360 | 3500 | 4500 | 12’ | 6’ | 25 | 3500 | 3000 | 97 | 0.66 | 1.26 | 1.62 |
| LC 120 1_ 10 | 95 | 160 | 300 | 3500 | 5000 | 12’ | 6’ | 25 | 3500 | 3000 | 97 | 0.49 | 1.09 | 1.45 |
| LC 120 2_ 9 | 95 | 160 | 300 | 2500 | 3500 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 1.61 | 2.20 | 2.57 |
| LC 120 2_ 12 | 110 | 190 | 360 | 2500 | 3500 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 1.51 | 2.10 | 2.47 |
| LC 120 2_ 15 | 110 | 190 | 360 | 2500 | 3500 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 1.47 | 2.06 | 2.43 |
| LC 120 2_ 16 | 110 | 190 | 360 | 2800 | 4500 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.92 | 1.52 | 1.88 |
| LC 120 2_ 20 | 110 | 190 | 360 | 3000 | 4500 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.90 | 1.50 | 1.86 |
| LC 120 2_ 25 | 110 | 190 | 360 | 3000 | 4500 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.71 | 1.30 | 1.67 |
| LC 120 2_ 28 | 110 | 190 | 360 | 3500 | 4500 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.54 | 1.13 | 1.50 |
| LC 120 2_ 30 | 95 | 160 | 300 | 3500 | 5000 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.44 | 1.04 | 1.40 |
| LC 120 2_ 35 | 110 | 190 | 360 | 3500 | 4500 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.53 | 1.13 | 1.49 |
| LC 120 2_ 40 | 110 | 190 | 360 | 3500 | 5000 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.43 | 1.03 | 1.39 |
| LC 120 2_ 50 | 110 | 190 | 360 | 3500 | 5000 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.43 | 1.02 | 1.39 |
| LC 120 2_ 70 | 110 | 190 | 360 | 3500 | 5000 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.42 | 1.02 | 1.38 |
| LC 120 2_ 100 | 95 | 160 | 300 | 3500 | 5000 | 15’ | 8’ | 22.5 | 3500 | 3000 | 94 | 0.42 | 1.02 | 1.38 |

# LC 155

## 55A1 ... 180A1



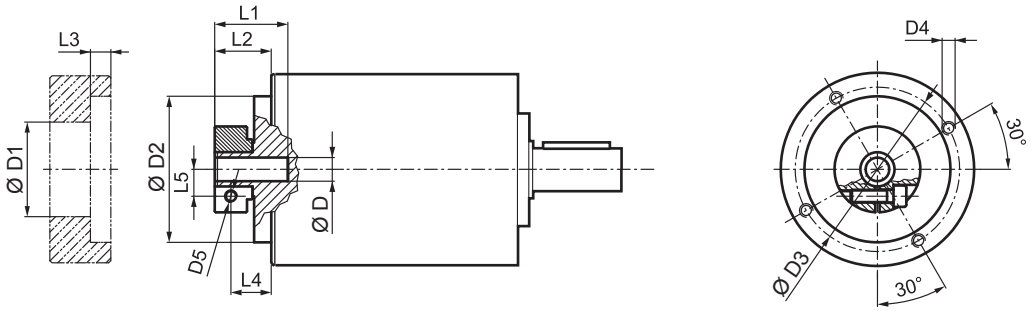

| | Kg |
|---|---|
| **LC 155 1** | 19.3 |
| **LC 155 2** | 24.3 |

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 155

**FM**

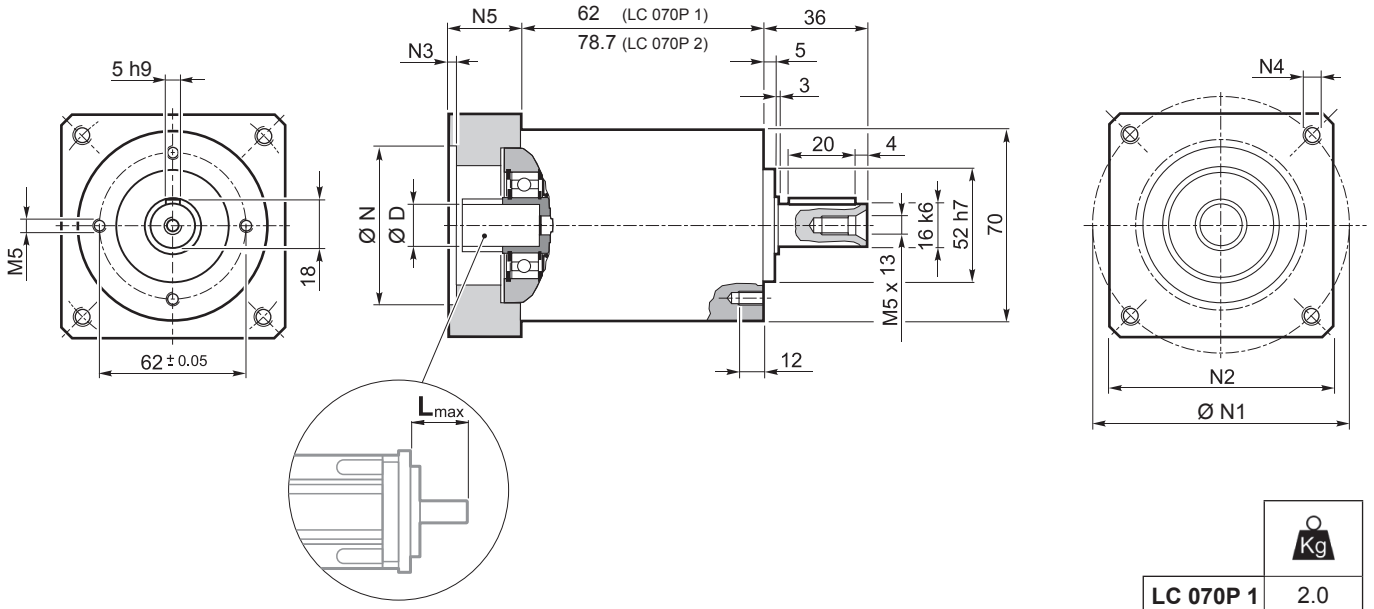



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 24 | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 18.5 | 24.5 |
| 35 | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 19 | D 22 ; 24 | D 28 ; 32 | D 35 ; 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LC 155 1 _ 3 | 250 | 380 | 600 | 2100 | 3600 | 12' | 6' | 43 | 6000 | 5000 | 97 | 7.99 | 8.19 | 8.54 | 9.90 |
| LC 155 1 _ 4 | 300 | 450 | 700 | 2400 | 3600 | 12' | 6' | 43 | 6000 | 5000 | 97 | 4.66 | 4.87 | 5.23 | 6.57 |
| LC 155 1 _ 5 | 300 | 450 | 900 | 2900 | 3600 | 12' | 6' | 43 | 6000 | 5000 | 97 | 3.32 | 3.53 | 3.88 | 5.23 |
| LC 155 1 _ 7 | 300 | 450 | 900 | 3200 | 3600 | 12' | 6' | 43 | 6000 | 5000 | 97 | 2.14 | 2.35 | 2.70 | 4.05 |
| LC 155 1 _ 10 | 230 | 350 | 750 | 3200 | 3600 | 12' | 6' | 43 | 6000 | 5000 | 97 | 1.45 | 1.66 | 2.01 | 3.36 |
| LC 155 2 _ 9 | 250 | 380 | 600 | 2100 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 5.30 | 5.51 | 5.86 | 7.21 |
| LC 155 2 _ 12 | 300 | 450 | 700 | 2100 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 4.93 | 5.14 | 5.49 | 6.84 |
| LC 155 2 _ 15 | 300 | 450 | 900 | 2100 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 4.79 | 4.99 | 5.34 | 6.70 |
| LC 155 2 _ 16 | 300 | 450 | 700 | 2400 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 2.97 | 3.18 | 3.53 | 4.88 |
| LC 155 2 _ 20 | 300 | 450 | 900 | 2900 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 2.23 | 2.44 | 2.79 | 4.14 |
| LC 155 2 _ 25 | 300 | 450 | 900 | 2900 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 2.18 | 2.39 | 2.74 | 4.09 |
| LC 155 2 _ 28 | 300 | 450 | 900 | 3200 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 1.58 | 1.79 | 2.14 | 3.49 |
| LC 155 2 _ 30 | 250 | 380 | 600 | 3200 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 1.23 | 1.44 | 1.79 | 3.14 |
| LC 155 2 _ 35 | 300 | 450 | 900 | 3200 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 1.55 | 1.76 | 2.11 | 3.46 |
| LC 155 2 _ 40 | 300 | 450 | 700 | 3200 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 1.20 | 1.41 | 1.76 | 3.11 |
| LC 155 2 _ 50 | 300 | 450 | 900 | 3200 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 1.19 | 1.39 | 1.74 | 3.10 |
| LC 155 2 _ 70 | 300 | 450 | 900 | 3200 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 1.17 | 1.38 | 1.73 | 3.08 |
| LC 155 2 _ 100 | 230 | 350 | 750 | 3200 | 3600 | 15' | 8' | 37.5 | 6000 | 5000 | 94 | 1.17 | 1.38 | 1.73 | 3.08 |

# LC 070P

## 25AH ... 80A



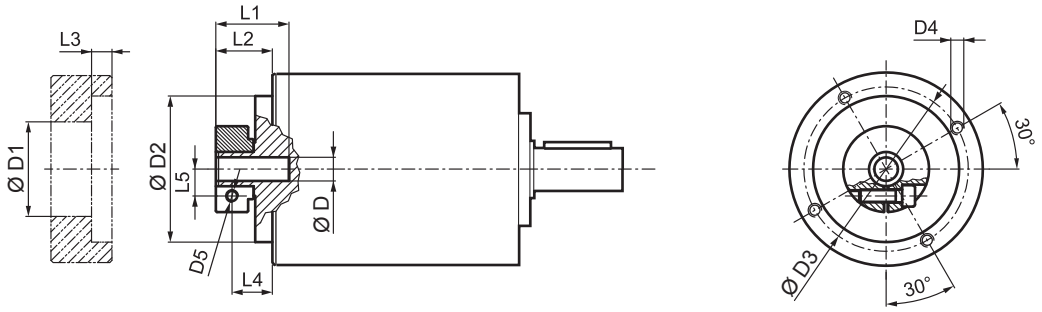

| | Kg |
|---|---|
| **LC 070P 1** | 2.0 |
| **LC 070P 2** | 2.3 |

| | D | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 070P

**FM**

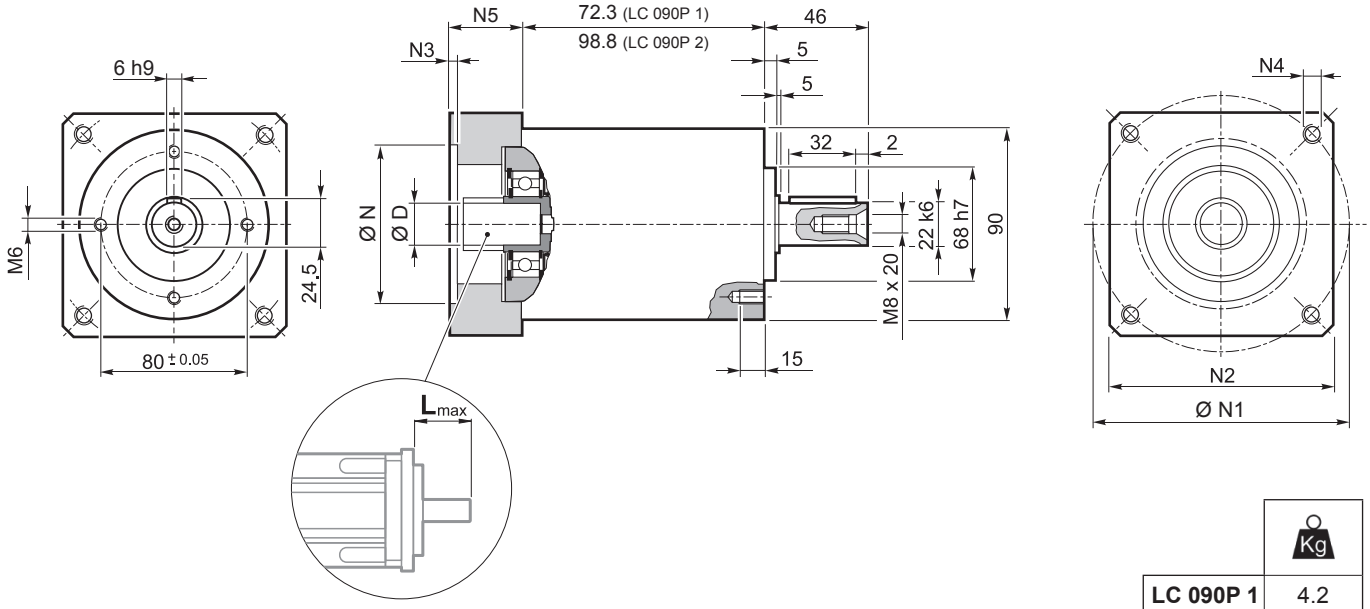



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.35 | 7 | | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 11 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LC 070P 1_ 3 | 29 | 55 | 60 | 3300 | 4000 | 12' | 6' | 3 | 1300 | 1400 | 97 | 0.12 | 0.14 |
| LC 070P 1_ 4 | 30 | 45 | 70 | 3500 | 5000 | 12' | 6' | 3 | 1300 | 1400 | 97 | 0.08 | 0.10 |
| LC 070P 1_ 5 | 25 | 40 | 70 | 3500 | 5000 | 12' | 6' | 3 | 1300 | 1400 | 97 | 0.06 | 0.09 |
| LC 070P 1_ 7 | 25 | 40 | 70 | 4000 | 5000 | 12' | 6' | 3 | 1300 | 1400 | 97 | 0.05 | 0.07 |
| LC 070P 1_ 10 | 18 | 30 | 60 | 4000 | 6000 | 12' | 6' | 3 | 3500 | 1400 | 97 | 0.04 | 0.06 |
| LC 070P 2_ 9 | 29 | 55 | 60 | 3300 | 4000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.11 | 0.13 |
| LC 070P 2_ 12 | 29 | 55 | 70 | 3300 | 4000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.10 | 0.13 |
| LC 070P 2_ 15 | 29 | 55 | 70 | 3300 | 4000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.10 | 0.12 |
| LC 070P 2_ 16 | 30 | 45 | 70 | 3500 | 5000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.07 | 0.09 |
| LC 070P 2_ 20 | 30 | 45 | 70 | 3500 | 5000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.06 | 0.08 |
| LC 070P 2_ 25 | 30 | 45 | 70 | 3500 | 5000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.06 | 0.08 |
| LC 070P 2_ 28 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.05 | 0.07 |
| LC 070P 2_ 30 | 29 | 55 | 60 | 4000 | 6000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |
| LC 070P 2_ 35 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.05 | 0.07 |
| LC 070P 2_ 40 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |
| LC 070P 2_ 50 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |
| LC 070P 2_ 70 | 30 | 45 | 70 | 4000 | 6000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |
| LC 070P 2_ 100 | 18 | 30 | 60 | 4000 | 6000 | 15' | 8' | 2.5 | 1300 | 1400 | 94 | 0.04 | 0.06 |

# LC 090P

## 40B1 ... 110B1



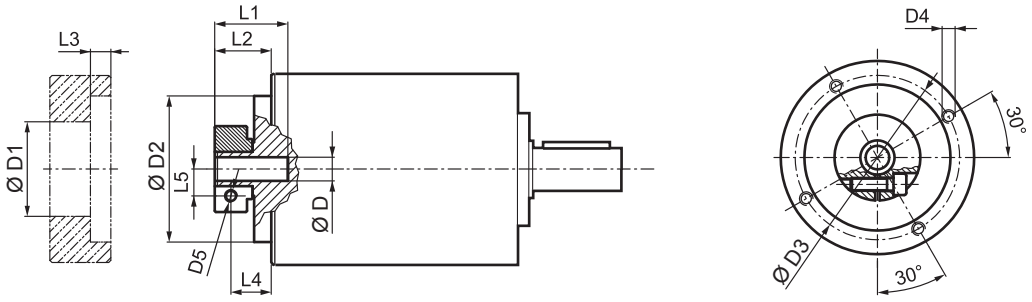

| | Kg |
|---|---|
| **LC 090P 1** | 4.2 |
| **LC 090P 2** | 5.3 |

| | D | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **45A** | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **50B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x10 | 34 | 40 |
| **55A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x16 | 34 | 40 |
| **60A2** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 5.5 | 34 | 40 |
| **60B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 090P

**FM**

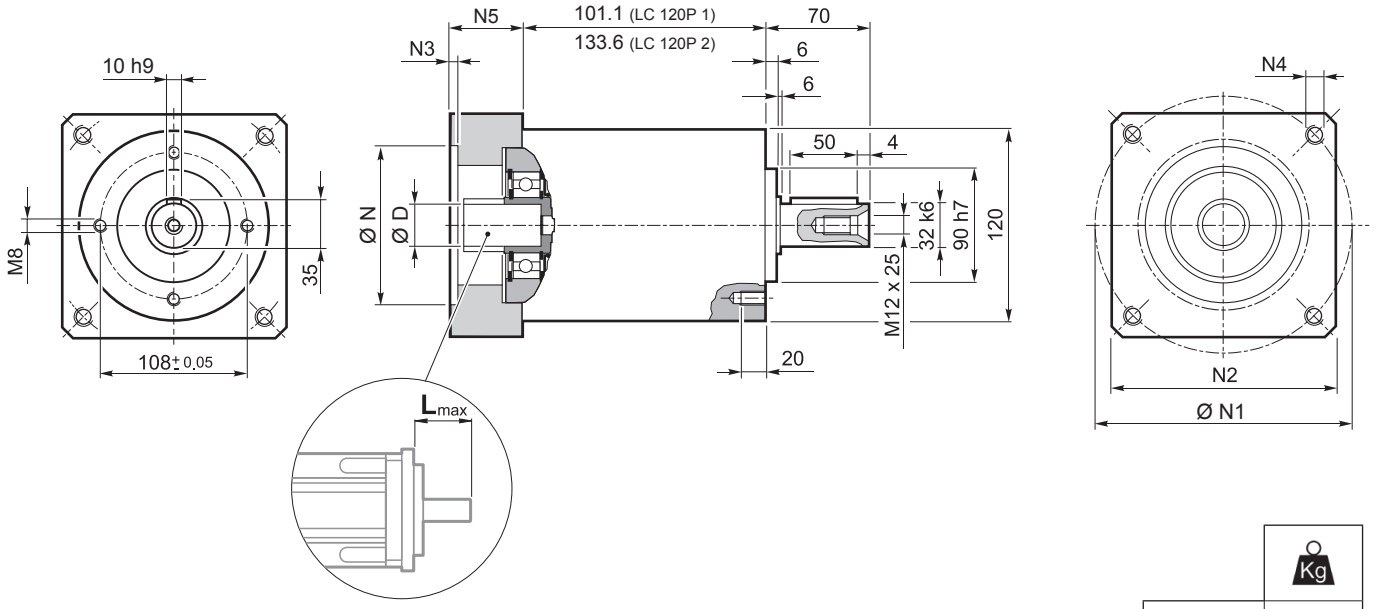



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 9.52 | | | 38 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LC 090P 1_ 3 | 65 | 120 | 150 | 3500 | 4000 | 12' | 6' | 12 | 2200 | 1900 | 97 | 0.62 | 0.77 |
| LC 090P 1_ 4 | 60 | 110 | 160 | 3500 | 4000 | 12' | 6' | 12 | 2200 | 1900 | 97 | 0.41 | 0.55 |
| LC 090P 1_ 5 | 50 | 100 | 160 | 3200 | 4500 | 12' | 6' | 9 | 2200 | 1900 | 97 | 0.33 | 0.47 |
| LC 090P 1_ 7 | 50 | 100 | 160 | 4000 | 6000 | 12' | 6' | 9 | 2200 | 1900 | 97 | 0.26 | 0.40 |
| LC 090P 1_ 10 | 40 | 70 | 150 | 4000 | 6000 | 12' | 6' | 9 | 2200 | 1900 | 97 | 0.21 | 0.35 |
| LC 090P 2_ 9 | 65 | 120 | 150 | 3500 | 4000 | 15' | 8' | 12 | 2200 | 1900 | 94 | 0.47 | 0.61 |
| LC 090P 2_ 12 | 65 | 120 | 160 | 3500 | 4000 | 15' | 8' | 12 | 2200 | 1900 | 94 | 0.44 | 0.58 |
| LC 090P 2_ 15 | 65 | 120 | 160 | 3500 | 4000 | 15' | 8' | 12 | 2200 | 1900 | 94 | 0.43 | 0.57 |
| LC 090P 2_ 16 | 60 | 110 | 160 | 3500 | 4500 | 15' | 8' | 12 | 2200 | 1900 | 94 | 0.31 | 0.45 |
| LC 090P 2_ 20 | 60 | 110 | 160 | 3500 | 4500 | 15' | 8' | 12 | 2200 | 1900 | 94 | 0.26 | 0.40 |
| LC 090P 2_ 25 | 50 | 100 | 160 | 3200 | 4500 | 15' | 8' | 9 | 2200 | 1900 | 94 | 0.26 | 0.40 |
| LC 090P 2_ 28 | 50 | 100 | 160 | 4000 | 6000 | 15' | 8' | 9 | 2200 | 1900 | 94 | 0.22 | 0.36 |
| LC 090P 2_ 30 | 65 | 120 | 150 | 4000 | 6000 | 15' | 8' | 12 | 2200 | 1900 | 94 | 0.20 | 0.34 |
| LC 090P 2_ 35 | 50 | 100 | 160 | 4000 | 6000 | 15' | 8' | 9 | 2200 | 1900 | 94 | 0.22 | 0.36 |
| LC 090P 2_ 40 | 60 | 110 | 160 | 4000 | 6000 | 15' | 8' | 12 | 2200 | 1900 | 94 | 0.20 | 0.34 |
| LC 090P 2_ 50 | 50 | 100 | 160 | 4000 | 6000 | 15' | 8' | 9 | 2200 | 1900 | 94 | 0.20 | 0.34 |
| LC 090P 2_ 70 | 50 | 100 | 160 | 4000 | 6000 | 15' | 8' | 9 | 2200 | 1900 | 94 | 0.20 | 0.34 |
| LC 090P 2_ 100 | 40 | 70 | 150 | 4000 | 6000 | 15' | 8' | 9 | 2200 | 1900 | 94 | 0.19 | 0.34 |

# LC 120P

## 50D ... 130A1



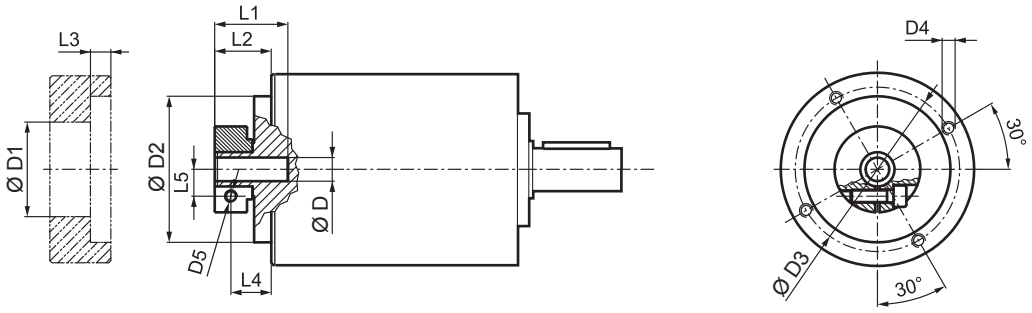

| | Kg |
|---|---|
| **LC 120P 1** | 9.6 |
| **LC 120P 2** | 12.1 |

| | D | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55.5 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 5 | M5x14 | 28 | 40 |
| **60AH2** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 5 | 6.5 | 33 | 40 |
| **60B1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 5 | M6x14 | 28 | 40 |
| **70AH1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 5 | 6 | 33 | 40 |
| **70B1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 5 | M6x16 | 28 | 40 |
| **80AH1** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 5 | 6.5 | 28 | 40 |
| **95A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 5 | M8x18 | 28 | 40 |
| **95A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 5 | M8x18 | 38 | 50 |
| **95B** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A** | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 120P

**FM**

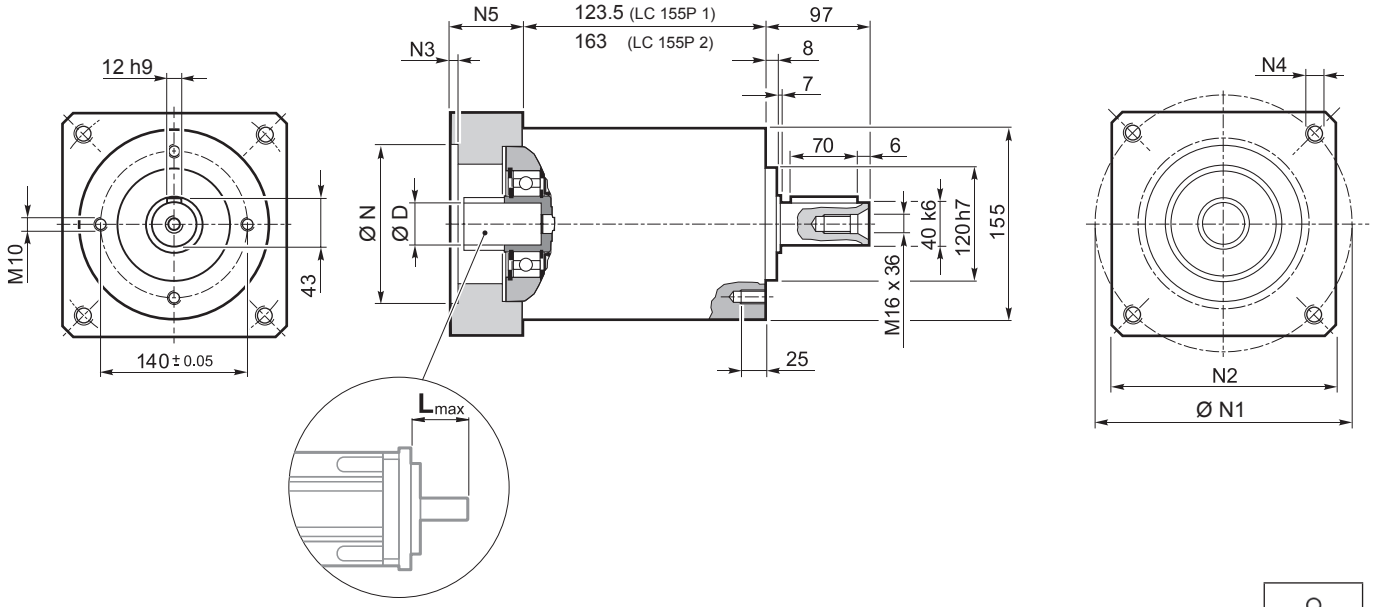



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 36.5 | 23 | 7.6 | 14 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 36.5 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 38 | 24.5 | 7.6 | 15.5 | 24.5 |

| i | $M_{n2}$ | $M_{a2}$ | $M_{p2}$ | $n_1$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm²] D | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [min⁻¹] | [min⁻¹] | [arcmin] | | [Nm/arcmin] | [N] | [N] | % | 14 ... 19 | 22 ; 24 | 28 ; 32 |
| LC 120P 1_ 3 | 155 | 280 | 300 | 3000 | 4000 | 12' | 6' | 30 | 3500 | 3000 | 97 | 2.17 | 2.77 | 3.13 |
| LC 120P 1_ 4 | 155 | 300 | 360 | 3000 | 4500 | 12' | 6' | 30 | 3500 | 3000 | 97 | 1.30 | 1.89 | 2.26 |
| LC 120P 1_ 5 | 125 | 240 | 360 | 3000 | 4500 | 12' | 6' | 25 | 3500 | 3000 | 97 | 0.96 | 1.56 | 1.92 |
| LC 120P 1_ 7 | 125 | 240 | 360 | 3500 | 4500 | 12' | 6' | 25 | 3500 | 3000 | 97 | 0.66 | 1.26 | 1.62 |
| LC 120P 1_ 10 | 100 | 160 | 300 | 3500 | 5000 | 12' | 6' | 25 | 3500 | 3000 | 97 | 0.49 | 1.09 | 1.45 |
| LC 120P 2_ 9 | 155 | 280 | 300 | 3000 | 4000 | 15' | 8' | 30 | 3500 | 3000 | 94 | 1.61 | 2.20 | 2.57 |
| LC 120P 2_ 12 | 155 | 300 | 360 | 3000 | 4000 | 15' | 8' | 30 | 3500 | 3000 | 94 | 1.51 | 2.10 | 2.47 |
| LC 120P 2_ 15 | 155 | 300 | 360 | 3000 | 4000 | 15' | 8' | 30 | 3500 | 3000 | 94 | 1.47 | 2.06 | 2.43 |
| LC 120P 2_ 16 | 155 | 300 | 360 | 3000 | 4500 | 15' | 8' | 30 | 3500 | 3000 | 94 | 0.92 | 1.52 | 1.88 |
| LC 120P 2_ 20 | 155 | 300 | 360 | 3000 | 4500 | 15' | 8' | 30 | 3500 | 3000 | 94 | 0.90 | 1.50 | 1.86 |
| LC 120P 2_ 25 | 125 | 240 | 360 | 3000 | 4500 | 15' | 8' | 22.5 | 3500 | 3000 | 94 | 0.71 | 1.30 | 1.67 |
| LC 120P 2_ 28 | 125 | 240 | 360 | 3500 | 5000 | 15' | 8' | 22.5 | 3500 | 3000 | 94 | 0.54 | 1.13 | 1.50 |
| LC 120P 2_ 30 | 155 | 300 | 300 | 3500 | 5000 | 15' | 8' | 30 | 3500 | 3000 | 94 | 0.44 | 1.04 | 1.40 |
| LC 120P 2_ 35 | 125 | 240 | 360 | 3500 | 5000 | 15' | 8' | 22.5 | 3500 | 3000 | 94 | 0.53 | 1.13 | 1.49 |
| LC 120P 2_ 40 | 155 | 300 | 360 | 3500 | 5000 | 15' | 8' | 30 | 3500 | 3000 | 94 | 0.43 | 1.03 | 1.39 |
| LC 120P 2_ 50 | 125 | 240 | 360 | 3500 | 5000 | 15' | 8' | 22.5 | 3500 | 3000 | 94 | 0.43 | 1.02 | 1.39 |
| LC 120P 2_ 70 | 125 | 240 | 360 | 3500 | 5000 | 15' | 8' | 22.5 | 3500 | 3000 | 94 | 0.42 | 1.02 | 1.38 |
| LC 120P 2_ 100 | 100 | 160 | 300 | 3500 | 5000 | 15' | 8' | 22.5 | 3500 | 3000 | 94 | 0.42 | 1.02 | 1.38 |

# LC 155P

## 55A1 ... 180A1



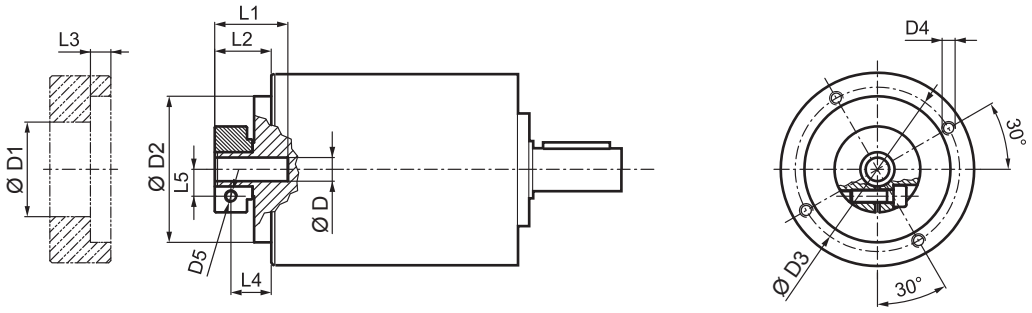

| | Kg |
|---|---|
| **LC 155P 1** | 19.3 |
| **LC 155P 2** | 24.3 |

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 19 | – | – | – | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 19 | – | – | – | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 19 | 22 | 24 | – | – | – | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 19 | 22 | 24 | – | – | – | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 19 | 22 | 24 | – | – | – | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 19 | 22 | 24 | – | – | – | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 19 | 22 | 24 | 28 | 32 | – | – | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 19 | 22 | 24 | 28 | 32 | – | – | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 19 | 22 | 24 | 28 | 32 | 35 | 38 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LC 155P

**FM**

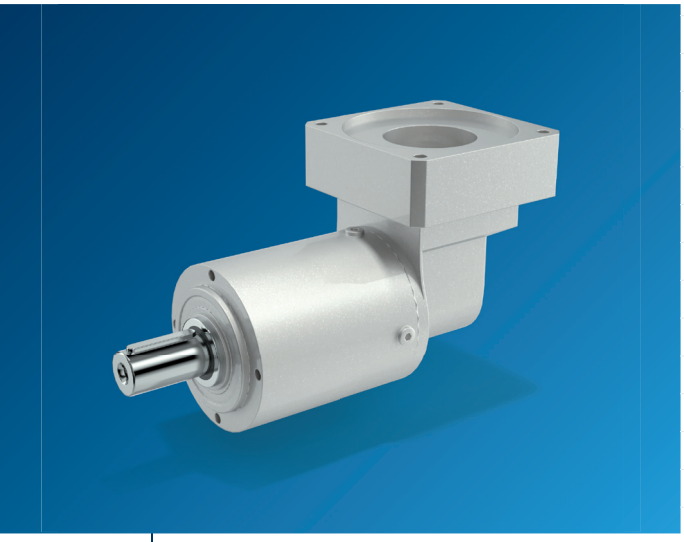



| D | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 51 | 113 | 125.5 | M8x15 | M6 | 40 | 27.5 | 6 | 20 | 16.5 |
| 22 24 | 56.5 | 113 | 125.5 | M8x15 | M6 | 41 | 28.5 | 6 | 19.5 | 19 |
| 28 | 67 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 19.5 | 22.5 |
| 32 | 71 | 113 | 125.5 | M8x15 | M8 | 41 | 28.5 | 6 | 18.5 | 24.5 |
| 35 | 73 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 26 |
| 38 | 77.5 | 113 | 125.5 | M8x15 | M8 | 50 | 37.5 | 11.25 | 26 | 28 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 19 | 22 ; 24 | 28 ; 32 | 35 ; 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LC 155P 1 _ 3 | 250 | 380 | 600 | 2100 | 3600 | 12' | 6' | 50 | 6000 | 5000 | 97 | 7.99 | 8.19 | 8.54 | 9.90 |
| LC 155P 1 _ 4 | 350 | 500 | 1000 | 2400 | 3600 | 12' | 6' | 50 | 6000 | 5000 | 97 | 4.66 | 4.87 | 5.23 | 6.57 |
| LC 155P 1 _ 5 | 350 | 500 | 1000 | 2900 | 3600 | 12' | 6' | 50 | 6000 | 5000 | 97 | 3.32 | 2.53 | 3.53 | 5.23 |
| LC 155P 1 _ 7 | 350 | 500 | 1000 | 3200 | 3600 | 12' | 6' | 50 | 6000 | 5000 | 97 | 2.14 | 2.35 | 2.70 | 4.05 |
| LC 155P 1 _ 10 | 230 | 350 | 750 | 3200 | 3600 | 12' | 6' | 50 | 6000 | 5000 | 97 | 1.14 | 1.66 | 2.01 | 3.36 |
| LC 155P 2 _ 9 | 250 | 380 | 600 | 2100 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 5.30 | 5.51 | 5.86 | 7.21 |
| LC 155P 2 _ 12 | 450 | 700 | 1000 | 2100 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 4.93 | 5.14 | 5.49 | 6.84 |
| LC 155P 2 _ 15 | 450 | 700 | 1000 | 2100 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 4.79 | 4.99 | 5.34 | 6.70 |
| LC 155P 2 _ 16 | 450 | 700 | 1000 | 2400 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 2.97 | 3.18 | 3.53 | 4.88 |
| LC 155P 2 _ 20 | 450 | 700 | 1000 | 2900 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 2.23 | 2.44 | 2.79 | 4.14 |
| LC 155P 2 _ 25 | 450 | 700 | 1000 | 2900 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 2.18 | 2.39 | 2.74 | 4.09 |
| LC 155P 2 _ 28 | 450 | 700 | 1000 | 3200 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 1.58 | 1.79 | 2.14 | 3.49 |
| LC 155P 2 _ 30 | 250 | 380 | 750 | 3200 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 1.23 | 1.44 | 1.79 | 3.14 |
| LC 155P 2 _ 35 | 450 | 700 | 1000 | 3200 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 1.55 | 1.76 | 2.11 | 3.46 |
| LC 155P 2 _ 40 | 450 | 700 | 1000 | 3200 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 1.20 | 1.41 | 1.76 | 3.11 |
| LC 155P 2 _ 50 | 450 | 700 | 1000 | 3200 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 1.19 | 1.39 | 1.74 | 3.10 |
| LC 155P 2 _ 70 | 450 | 700 | 1000 | 3200 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 1.17 | 1.38 | 1.73 | 3.08 |
| LC 155P 2 _ 100 | 230 | 350 | 750 | 3200 | 3600 | 15' | 8' | 48 | 6000 | 5000 | 94 | 1.17 | 1.38 | 1.73 | 3.08 |

# Linea Effective

(E)



## Serie LCK

I riduttori epicicloidali di precisione ortogonali LCK rappresentano una soluzione flessibile, affidabile ed economicamente vantaggiosa per macchine che richiedono un layout molto compatto.
Il design del prodotto in linea con gli standard di mercato garantisce una compatibilità elevata per un facile retrofit e un alto livello di libertà nello sviluppo dei progetti.

## Vantaggi principali

- Altamente performanti ed economicamente convenienti
- Compatibilità elevata per un facile retrofit
- Configurazione ortogonale per installazioni più compatte

## Caratteristiche principali

- Coppia nominale in uscita (Nm)

10 - 450

- Gioco torsionale (arcmin)

6 - 8

- Momento di ribaltamento (Nm)

15 - 522

## Grado di protezione

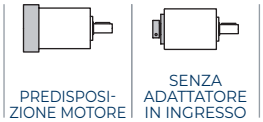
- IP54

## Grandezze

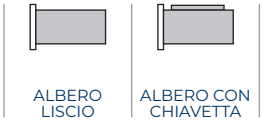
- 50
- 70
- 90
- 120
- 155

## Opzioni principali

- Versioni con ingresso




- Versioni alberi di uscita




- Lubrificazione


- Versione ad alta potenza (opzione P)

## *11 CARATTERISTICHE DELLA SERIE LCK*

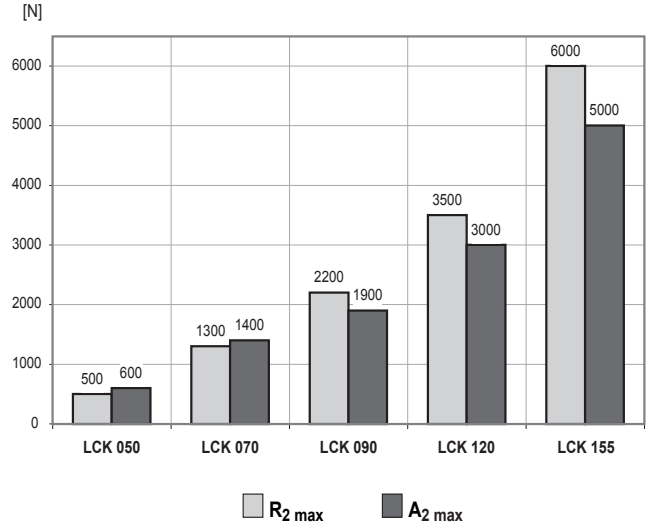
I riduttori della serie LCK trasferiscono nella configurazione angolare le brillanti caratteristiche funzionali che sono proprie della serie coassiale LC, ed a questa aggiungono doti di più facile alloggiamento in spazi ristretti.

- Disponibili in unica classe di precisione, corrispondente ai valori di gioco angolare:
  2 stadi di riduzione: standard $\varphi_s \leq 6'$;
  3 stadi di riduzione: standard $\varphi_s \leq 8'$;
- Ottimo grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP64).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero di fornitura standard.
- Livello di rumorosità $L_P \leq 70$ dB(A).. Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 $min^{-1}$; i=10.
- Ampia possibilità di configurazione lato accoppiamento motore
- Riempimento in fabbrica con grasso sintetico di consistenza NLGI 00, in assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$.
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C..
- Disponibile versione P con maggiore coppia in uscita.

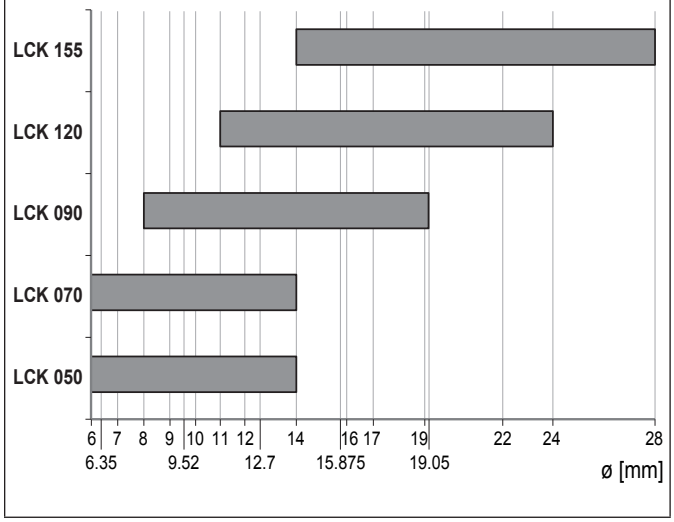
| Distribuzione coppia nominale $M_{n2}$ [Nm] | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [i] | **6** | **8** | **10** | **14** | **20** | **24** | **30** | **50** | **70** | **80** | **90** | **100** |
| **LCK 050** | 10 | 12 | 12 | 12 | – | 12 | 12 | 12 | 12 | – | 12 | – |
| **LCK 070** | 18 | 25 | 25 | 25 | 18 | 25 | 25 | 25 | 25 | 25 | – | 25 |
| **LCK 070P** | 25 | 30 | 25 | 25 | 18 | 29 | 29 | 30 | 30 | 30 | – | 30 |
| **LCK 090** | 37 | 43 | 43 | 43 | 37 | 43 | 43 | 43 | 43 | 43 | – | 43 |
| **LCK 090P** | 45 | 60 | 50 | 50 | 40 | 60 | 60 | 50 | 50 | 60 | – | 50 |
| **LCK 120** | 95 | 110 | 110 | 110 | 95 | 110 | 110 | 110 | 110 | 110 | – | 110 |
| **LCK 120P** | 110 | 140 | 125 | 125 | 100 | 155 | 155 | 125 | 125 | 155 | – | 125 |
| **LCK 155** | 250 | 300 | 300 | 300 | 230 | 300 | 300 | 300 | 300 | 300 | – | 300 |
| **LCK 155P** | 250 | 350 | 350 | 350 | 230 | 450 | 450 | 450 | 450 | 450 | – | 450 |



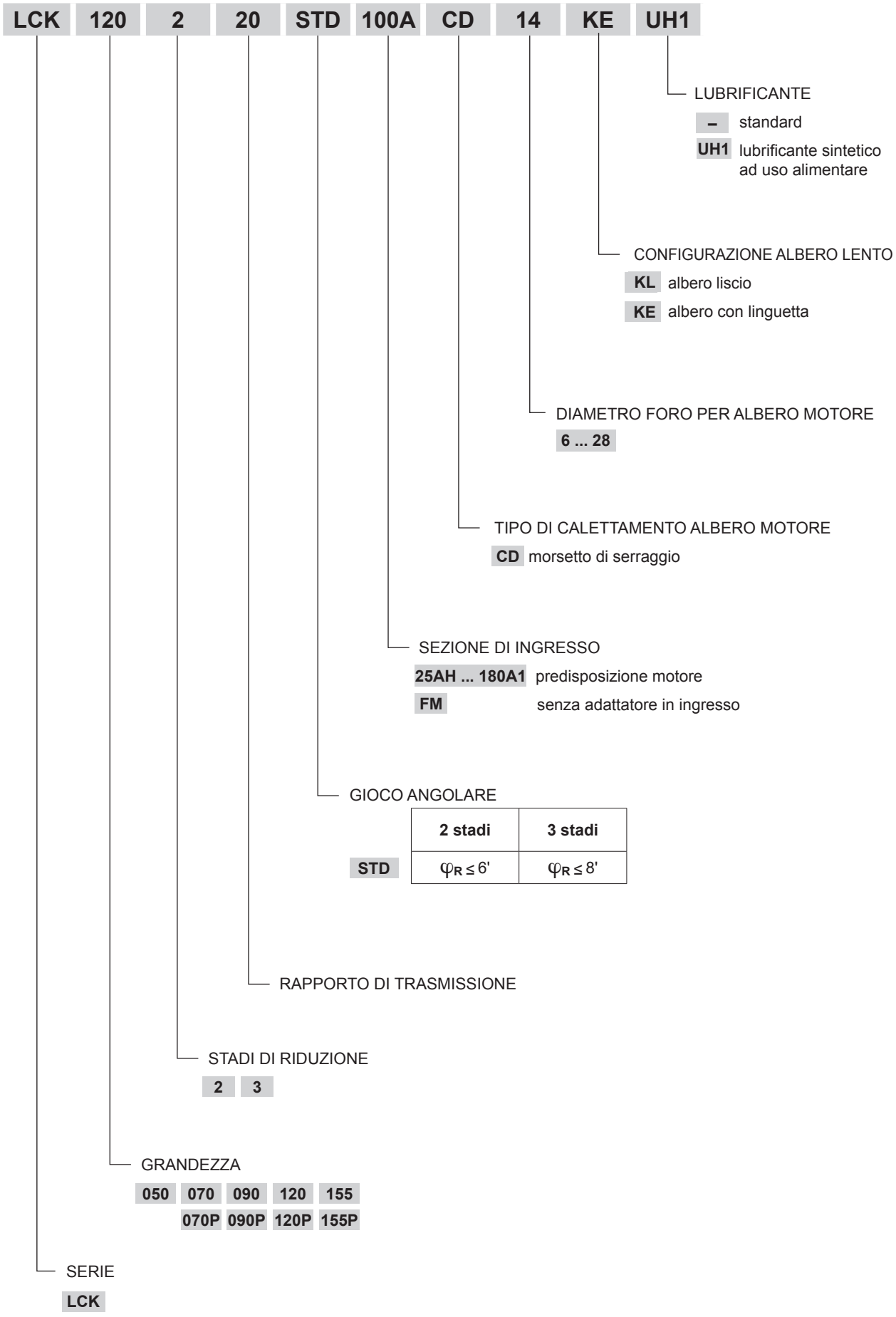
**Carichi massimi applicabili sull'albero lento**




**Alberi motore accoppiabili**



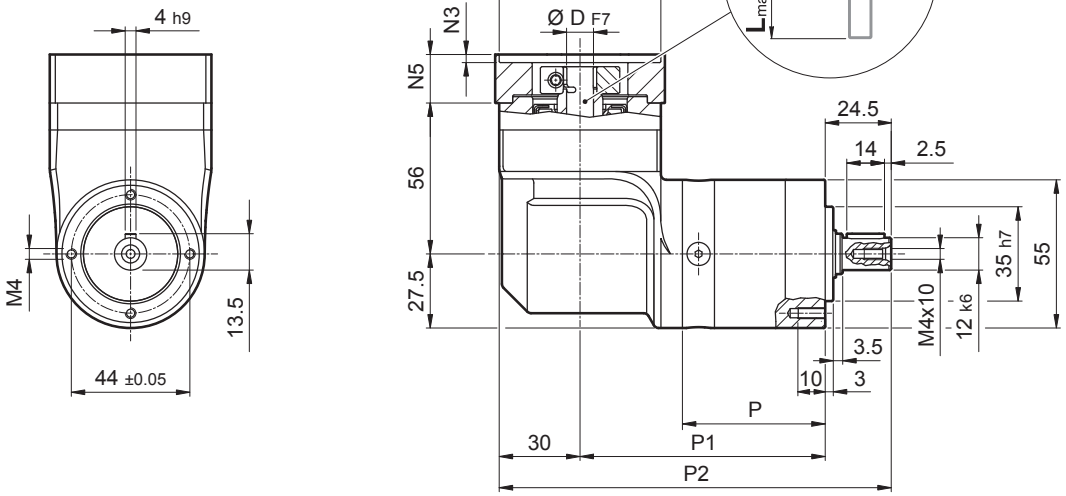
### *11.1 CODICE ORDINATIVO*



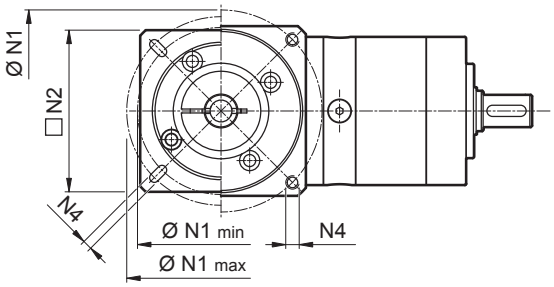
*11.2 DIMENSIONI E DATI TECNICI*

# LCK 050

## 25AH ... 80A




| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 050 2** | 53 | 91 | 145.5 | 1.6 |
| **LCK 050 3** | 66.8 | 104.8 | 159.3 | 1.8 |

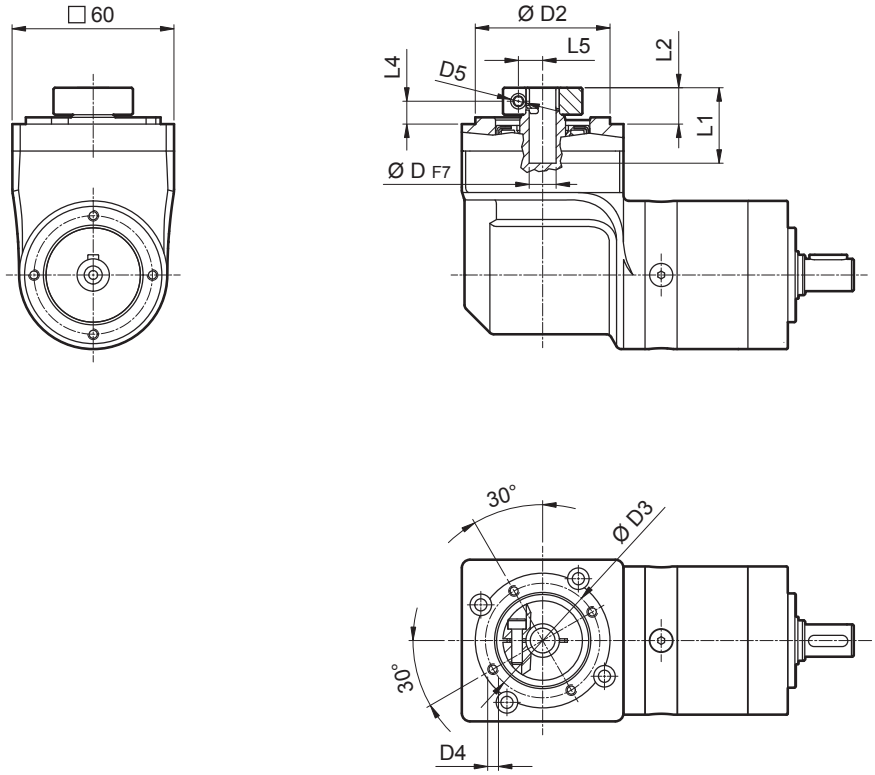



| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 050

**FM**

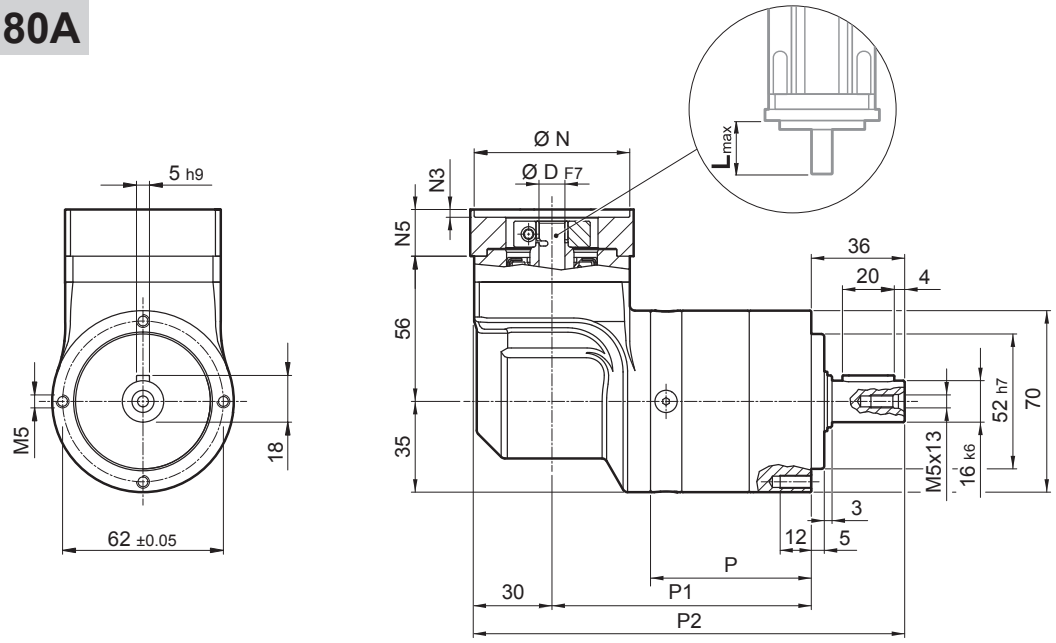



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 28 | 13.5 | 3 | 8.5 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 28 | 13.5 | 3 | 8.5 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 23 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 15.5 | 3 | 8.9 | 11.5 |

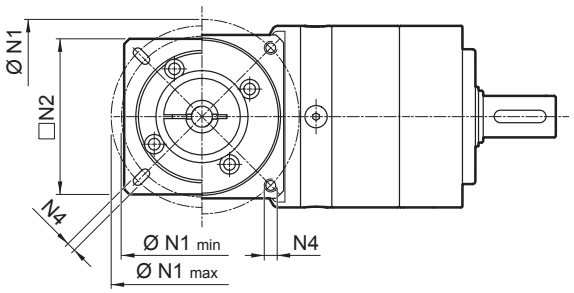
| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCK 050 2_6** | 10 | 16 | 28 | 2500 | 5000 | 6' | 0.9 | 500 | 600 | 94 | 0.23 | 0.25 |
| **LCK 050 2_8** | 12 | 20 | 30 | 2500 | 5000 | 6' | 0.9 | 500 | 600 | 94 | 0.23 | 0.24 |
| **LCK 050 2_10** | 12 | 20 | 30 | 2500 | 5000 | 6' | 0.9 | 500 | 600 | 94 | 0.23 | 0.24 |
| **LCK 050 2_14** | 12 | 20 | 30 | 2500 | 5000 | 6' | 0.9 | 500 | 600 | 94 | 0.23 | 0.24 |
| **LCK 050 3_24** | 12 | 20 | 30 | 2500 | 5000 | 8' | 0.7 | 500 | 600 | 91 | 0.23 | 0.25 |
| **LCK 050 3_30** | 12 | 20 | 30 | 2500 | 5000 | 8' | 0.7 | 500 | 600 | 91 | 0.23 | 0.25 |
| **LCK 050 3_50** | 12 | 20 | 30 | 2500 | 5000 | 8' | 0.7 | 500 | 600 | 91 | 0.23 | 0.24 |
| **LCK 050 3_70** | 12 | 20 | 30 | 2500 | 5000 | 8' | 0.7 | 500 | 600 | 91 | 0.23 | 0.24 |
| **LCK 050 3_90** | 12 | 20 | 30 | 2500 | 5000 | 8' | 0.7 | 500 | 600 | 91 | 0.22 | 0.24 |

# LCK 070

## 25AH ... 80A




| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 070 2** | 62 | 100 | 166 | 2.7 |
| **LCK 070 3** | 78.7 | 116.7 | 182.7 | 3.0 |

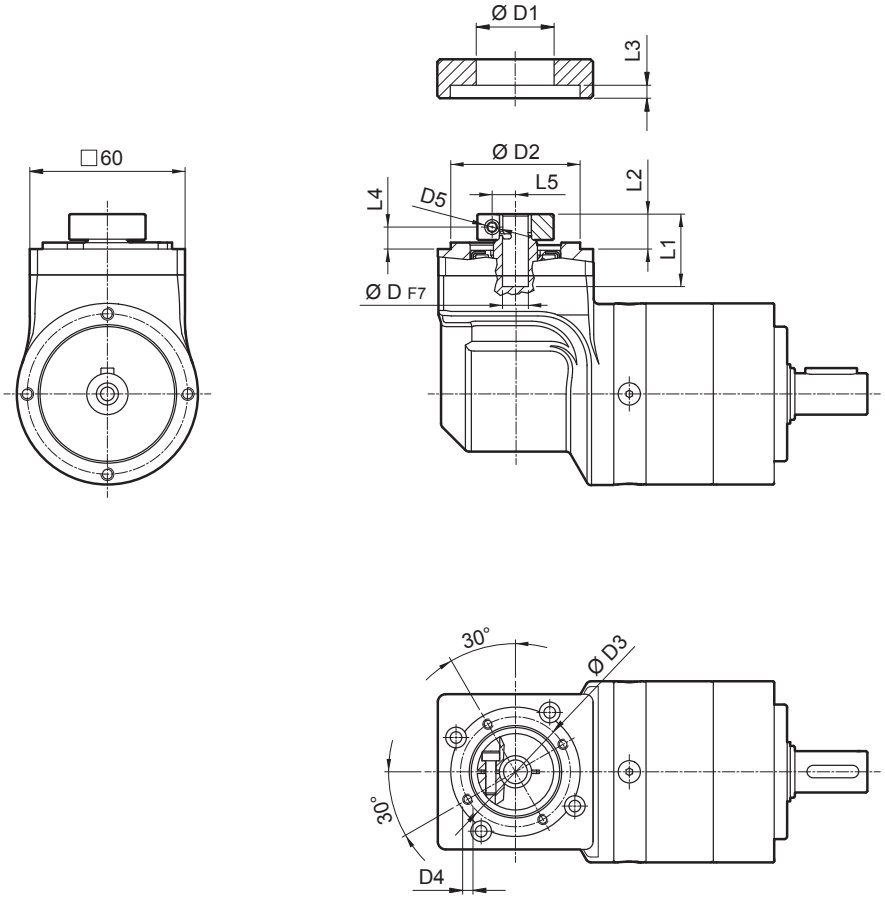



| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 070

**FM**

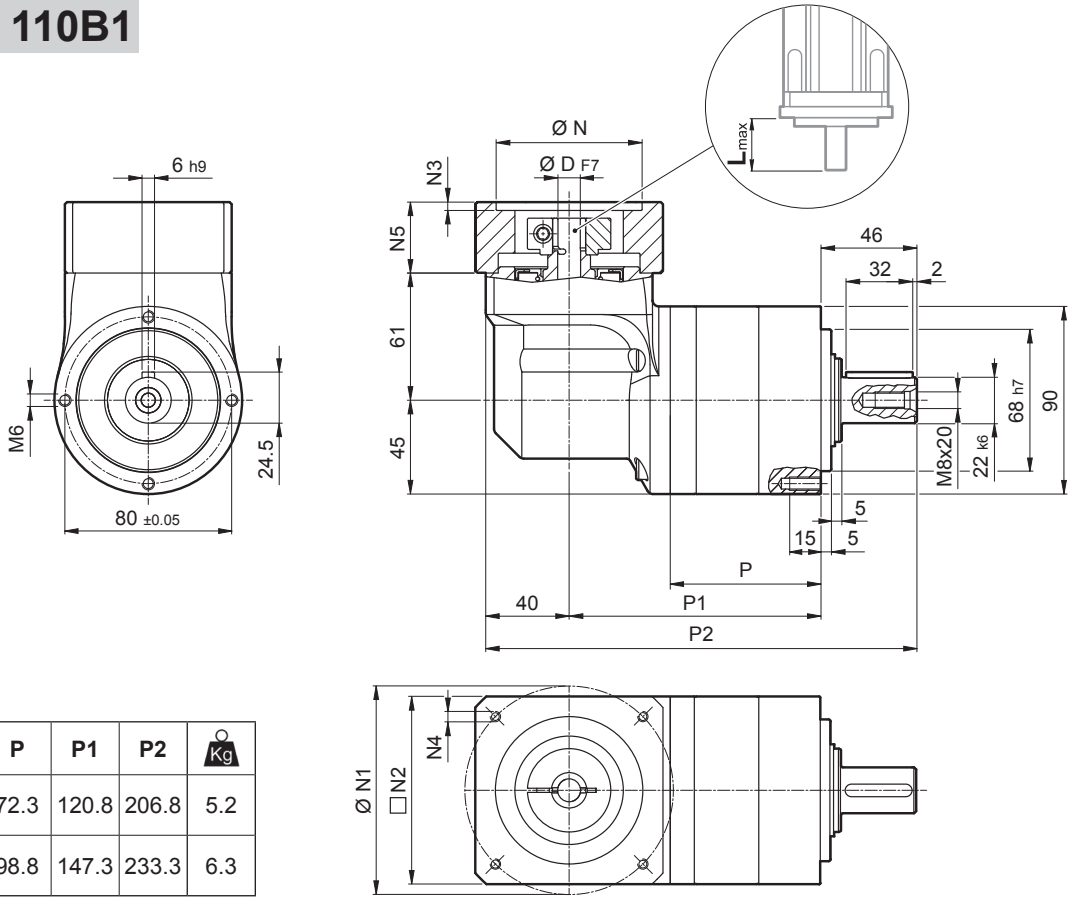



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 28 | 13.5 | 3 | 8.5 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 28 | 13.5 | 3 | 8.5 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 23 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 15.5 | 3 | 8.9 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 10 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCK 070 2_6 | 18 | 30 | 45 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.25 | 0.26 |
| LCK 070 2_8 | 25 | 35 | 60 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.24 | 0.25 |
| LCK 070 2_10 | 25 | 35 | 70 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.23 | 0.25 |
| LCK 070 2_14 | 25 | 35 | 70 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.23 | 0.24 |
| LCK 070 2_20 | 18 | 30 | 60 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.23 | 0.24 |
| LCK 070 3_24 | 25 | 35 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.24 | 0.26 |
| LCK 070 3_30 | 25 | 35 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.24 | 0.26 |
| LCK 070 3_50 | 25 | 35 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.23 | 0.24 |
| LCK 070 3_70 | 25 | 35 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.23 | 0.24 |
| LCK 070 3_80 | 25 | 35 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.23 | 0.24 |
| LCK 070 3_100 | 25 | 35 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.23 | 0.24 |

# LCK 090

## 40B1 ... 110B1



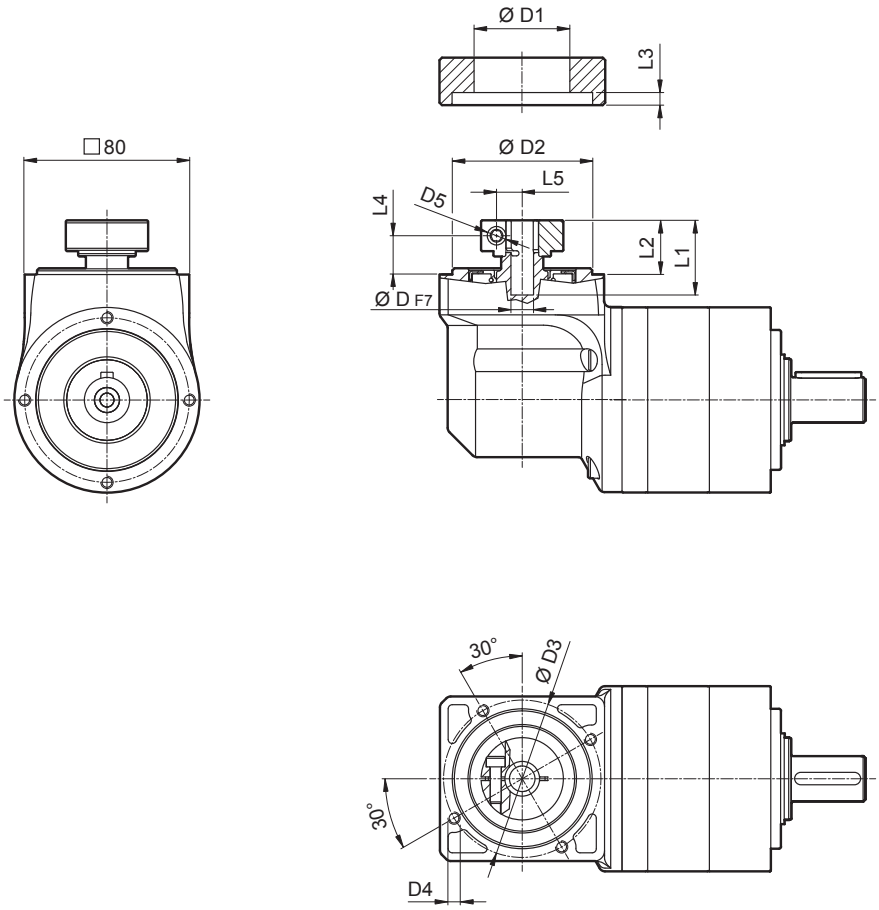

| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 090 2** | 72.3 | 120.8 | 206.8 | 5.2 |
| **LCK 090 3** | 98.8 | 147.3 | 233.3 | 6.3 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x10 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x16 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 5.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 090

**FM**

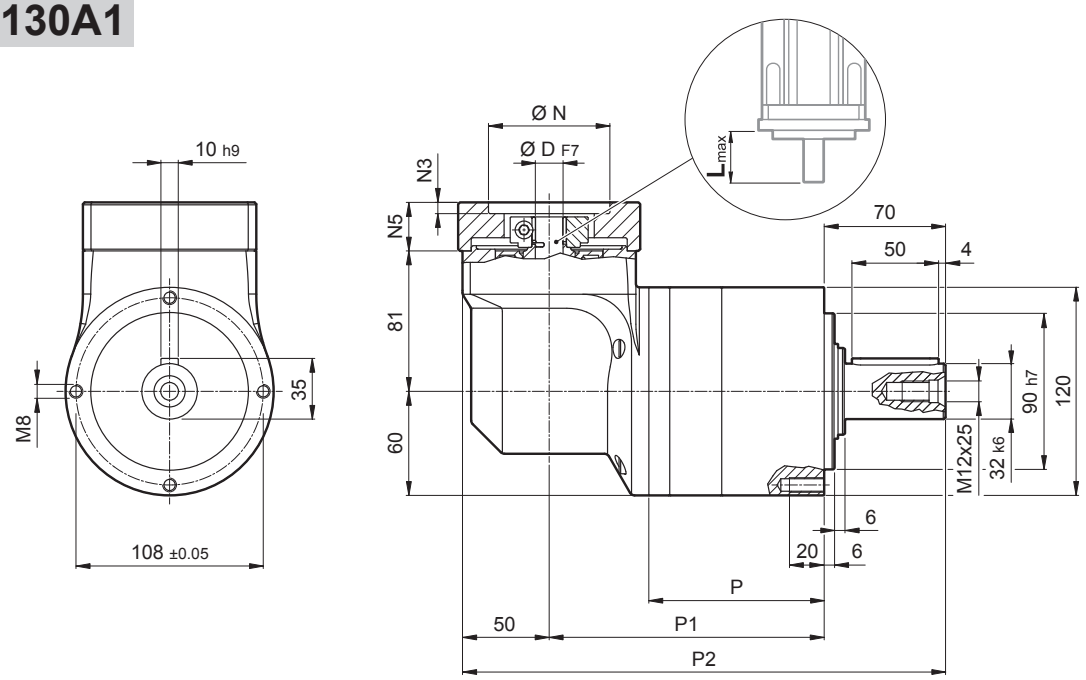


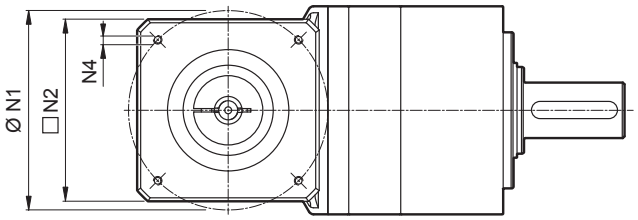

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCK 090 2_6 | 37 | 63 | 90 | 2500 | 5000 | 6' | 8 | 2200 | 1900 | 94 | 0.85 | 1.03 |
| LCK 090 2_8 | 43 | 80 | 120 | 2500 | 5000 | 6' | 8 | 2200 | 1900 | 94 | 0.79 | 0.98 |
| LCK 090 2_10 | 43 | 80 | 150 | 2500 | 5000 | 6' | 8 | 2200 | 1900 | 94 | 0.77 | 0.96 |
| LCK 090 2_14 | 43 | 80 | 160 | 2500 | 5000 | 6' | 8 | 2200 | 1900 | 94 | 0.75 | 0.94 |
| LCK 090 2_20 | 37 | 70 | 150 | 2500 | 5000 | 6' | 8 | 2200 | 1900 | 94 | 0.74 | 0.93 |
| LCK 090 3_24 | 43 | 80 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.81 | 1.00 |
| LCK 090 3_30 | 43 | 80 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.81 | 1.00 |
| LCK 090 3_50 | 43 | 80 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.76 | 0.94 |
| LCK 090 3_70 | 43 | 80 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.74 | 0.93 |
| LCK 090 3_80 | 43 | 80 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.74 | 0.93 |
| LCK 090 3_100 | 43 | 80 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.74 | 0.93 |

# LCK 120

## 50D ... 130A1



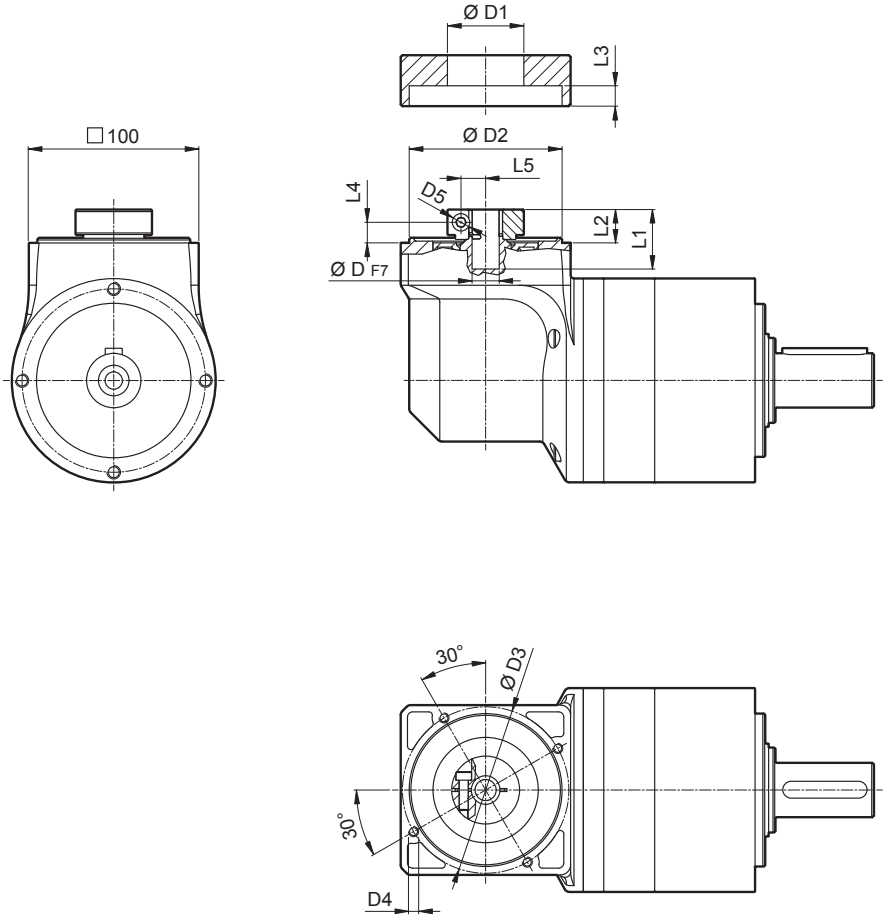

| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 120 2** | 101.1 | 158.6 | 278.6 | 11.3 |
| **LCK 120 3** | 133.6 | 191.1 | 311.1 | 13.8 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 55.5 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 75 | 100 | 5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 75 | 100 | 5 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 85 | 100 | 5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 85 | 100 | 5 | 6 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 80 | 100 | 100 | 5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 80 | 100 | 100 | 5 | 6.5 | 28 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 95 | 115 | 100 | 5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 95 | 115 | 100 | 5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 95 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 110 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 120

**FM**

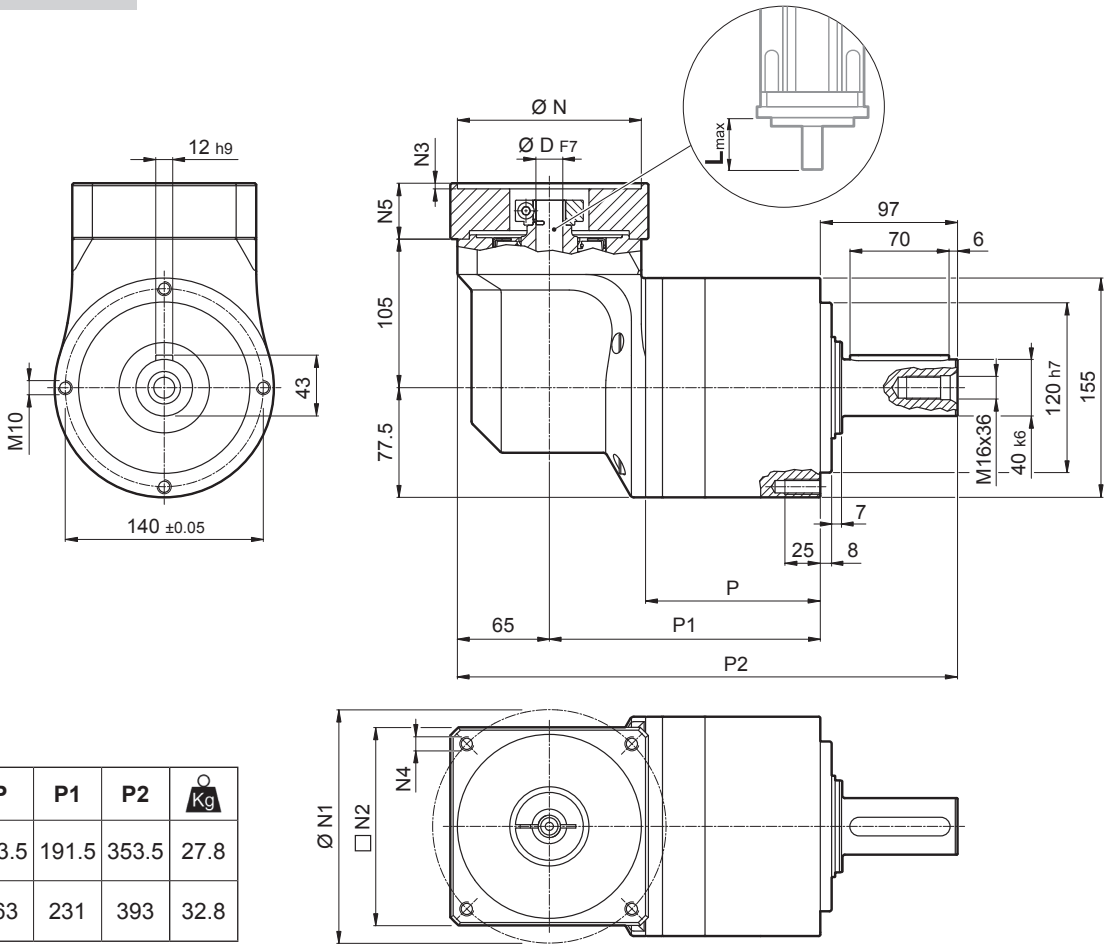



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 37 | 21.5 | 7.6 | 12.1 | 19 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 11 ... 12.7 | D 14 ... 19 | D 22 ; 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCK 120 2_6** | 95 | 160 | 225 | 2000 | 4500 | 6' | 23.4 | 3500 | 3000 | 94 | 1.74 | 1.82 | 2.01 |
| **LCK 120 2_8** | 110 | 190 | 300 | 2000 | 4500 | 6' | 23.4 | 3500 | 3000 | 94 | 1.52 | 1.60 | 1.79 |
| **LCK 120 2_10** | 110 | 190 | 360 | 2000 | 4500 | 6' | 23.4 | 3500 | 3000 | 94 | 1.44 | 1.52 | 1.71 |
| **LCK 120 2_14** | 110 | 190 | 360 | 2000 | 4500 | 6' | 23.4 | 3500 | 3000 | 94 | 1.37 | 1.45 | 1.63 |
| **LCK 120 2_20** | 95 | 160 | 300 | 2000 | 4500 | 6' | 23.4 | 3500 | 3000 | 94 | 1.32 | 1.40 | 1.59 |
| **LCK 120 3_24** | 110 | 190 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.64 | 1.72 | 1.90 |
| **LCK 120 3_30** | 110 | 190 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.63 | 1.71 | 1.89 |
| **LCK 120 3_50** | 110 | 190 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.40 | 1.48 | 1.67 |
| **LCK 120 3_70** | 110 | 190 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.34 | 1.42 | 1.61 |
| **LCK 120 3_80** | 110 | 190 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.31 | 1.39 | 1.58 |
| **LCK 120 3_100** | 110 | 190 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.31 | 1.39 | 1.58 |

# LCK 155

## 55A1 ... 180A1



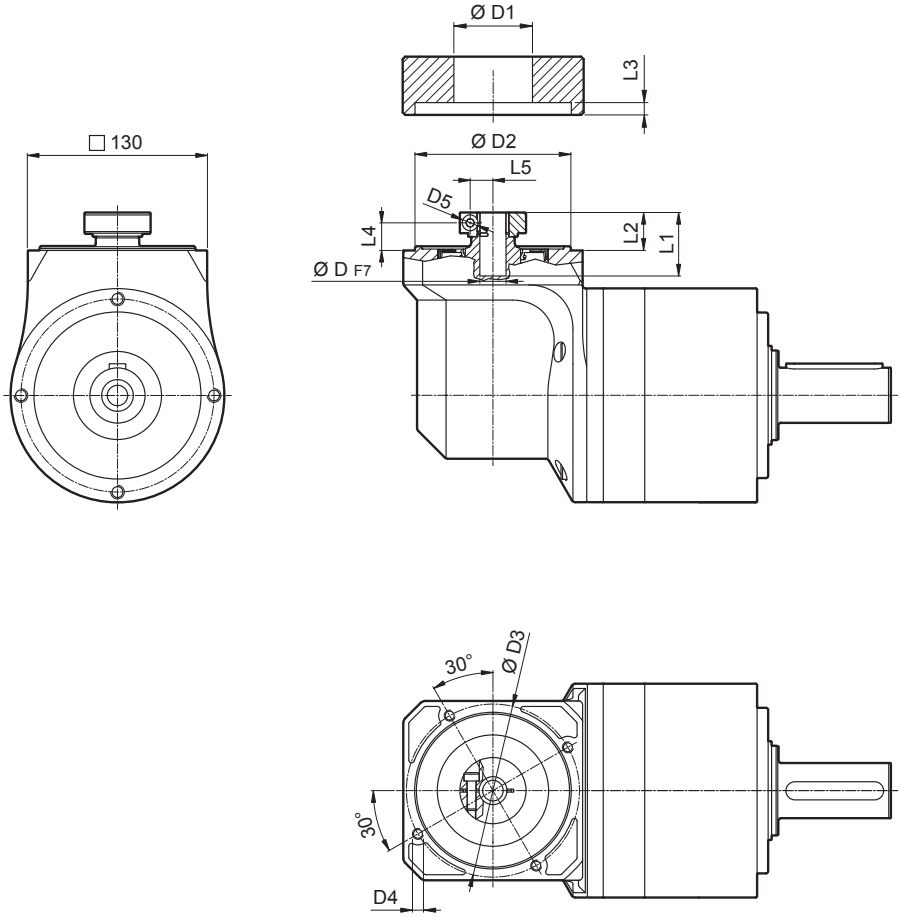

| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 155 2** | 123.5 | 191.5 | 353.5 | 27.8 |
| **LCK 155 3** | 163 | 231 | 393 | 32.8 |

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 155

**FM**

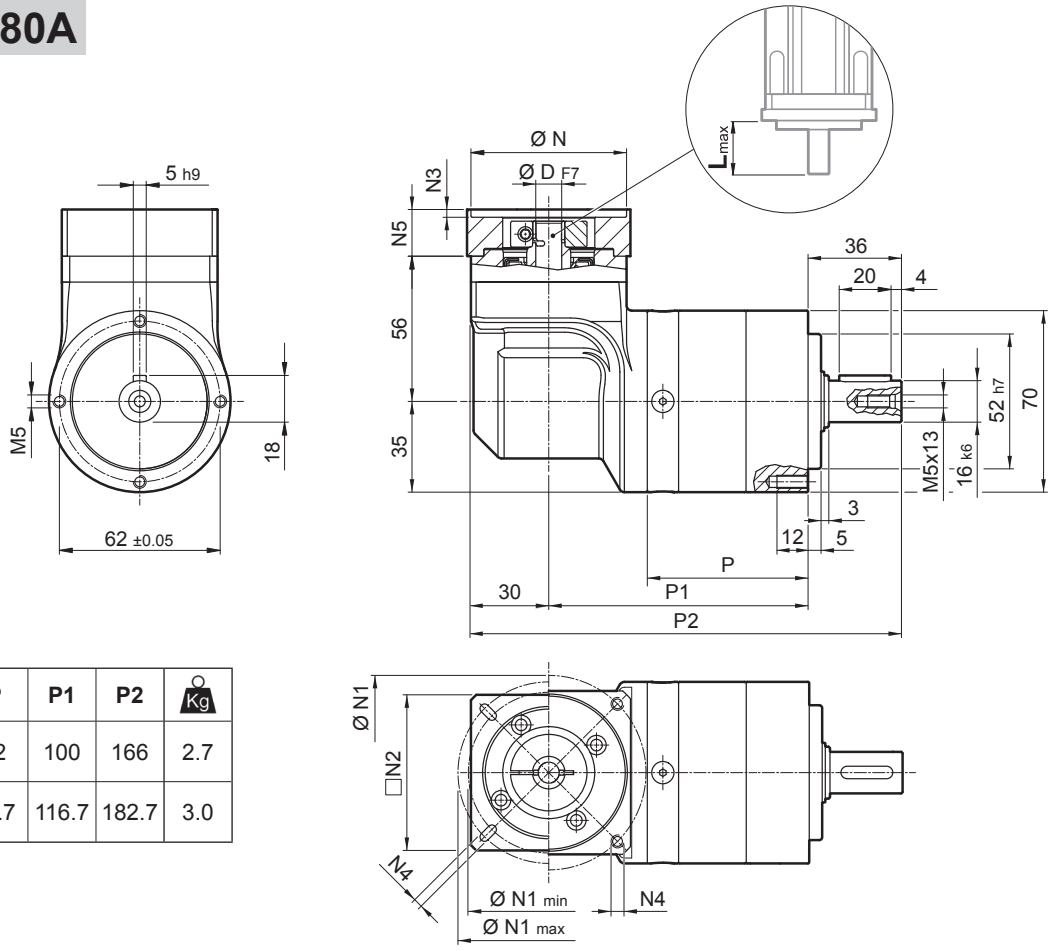



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 46 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 46 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 47.5 | 29 | 6 | 20 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 47.5 | 29 | 6 | 20 | 22.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | 22 ; 24 | 28 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCK 155 2_6** | 250 | 360 | 510 | 2000 | 4500 | 6' | 40.7 | 6000 | 5000 | 94 | 7.94 | 8.13 | 8.53 |
| **LCK 155 2_8** | 300 | 450 | 680 | 2000 | 4500 | 6' | 40.7 | 6000 | 5000 | 94 | 7.11 | 7.30 | 7.70 |
| **LCK 155 2_10** | 300 | 450 | 850 | 2000 | 4500 | 6' | 40.7 | 6000 | 5000 | 94 | 6.78 | 6.96 | 7.36 |
| **LCK 155 2_14** | 300 | 450 | 900 | 2000 | 4500 | 6' | 40.7 | 6000 | 5000 | 94 | 6.48 | 6.67 | 7.07 |
| **LCK 155 2_20** | 230 | 350 | 750 | 2000 | 4500 | 6' | 40.7 | 6000 | 5000 | 94 | 6.31 | 6.49 | 6.90 |
| **LCK 155 3_24** | 300 | 450 | 900 | 2000 | 4500 | 8' | 37.4 | 6000 | 5000 | 91 | 7.18 | 7.37 | 7.77 |
| **LCK 155 3_30** | 300 | 450 | 900 | 2000 | 4500 | 8' | 37.4 | 6000 | 5000 | 91 | 7.14 | 7.33 | 7.73 |
| **LCK 155 3_50** | 300 | 450 | 900 | 2000 | 4500 | 8' | 37.4 | 6000 | 5000 | 91 | 6.49 | 6.68 | 7.08 |
| **LCK 155 3_70** | 300 | 450 | 900 | 2000 | 4500 | 8' | 37.4 | 6000 | 5000 | 91 | 6.33 | 6.52 | 6.92 |
| **LCK 155 3_80** | 300 | 450 | 700 | 2000 | 4500 | 8' | 37.4 | 6000 | 5000 | 91 | 6.25 | 6.43 | 6.83 |
| **LCK 155 3_100** | 300 | 450 | 900 | 2000 | 4500 | 8' | 37.4 | 6000 | 5000 | 91 | 6.24 | 6.43 | 6.83 |

# LCK 070P

## 25AH ... 80A




| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 070P 2** | 62 | 100 | 166 | 2.7 |
| **LCK 070P 3** | 78.7 | 116.7 | 182.7 | 3.0 |

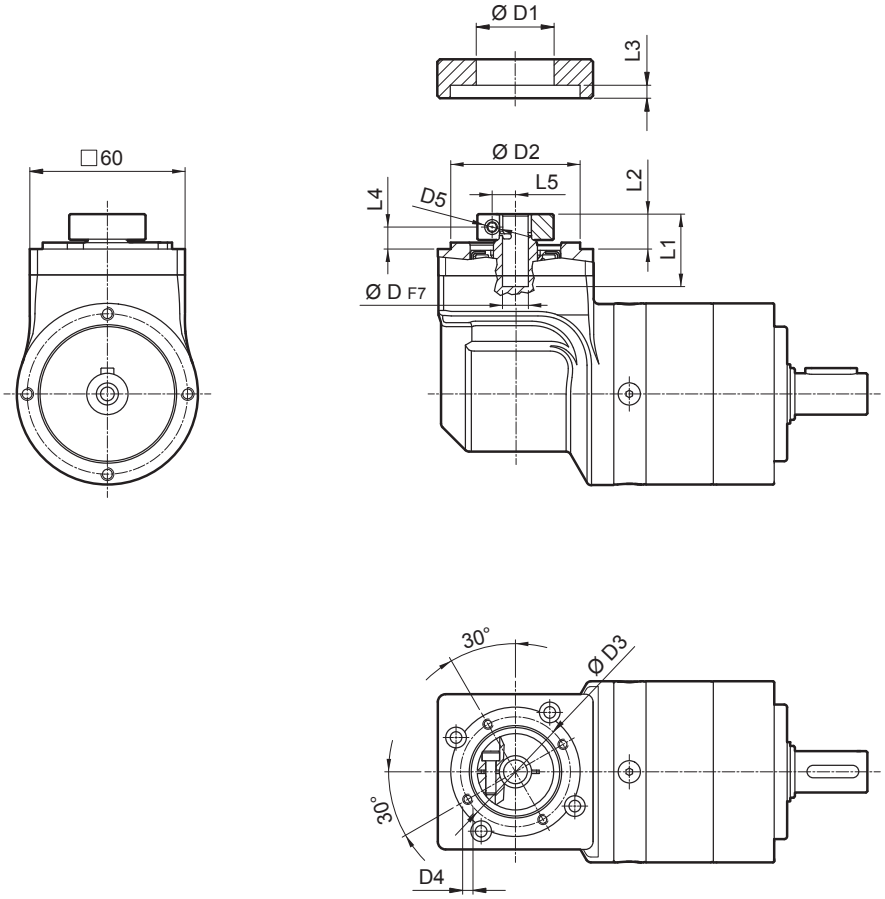



| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 070P

**FM**

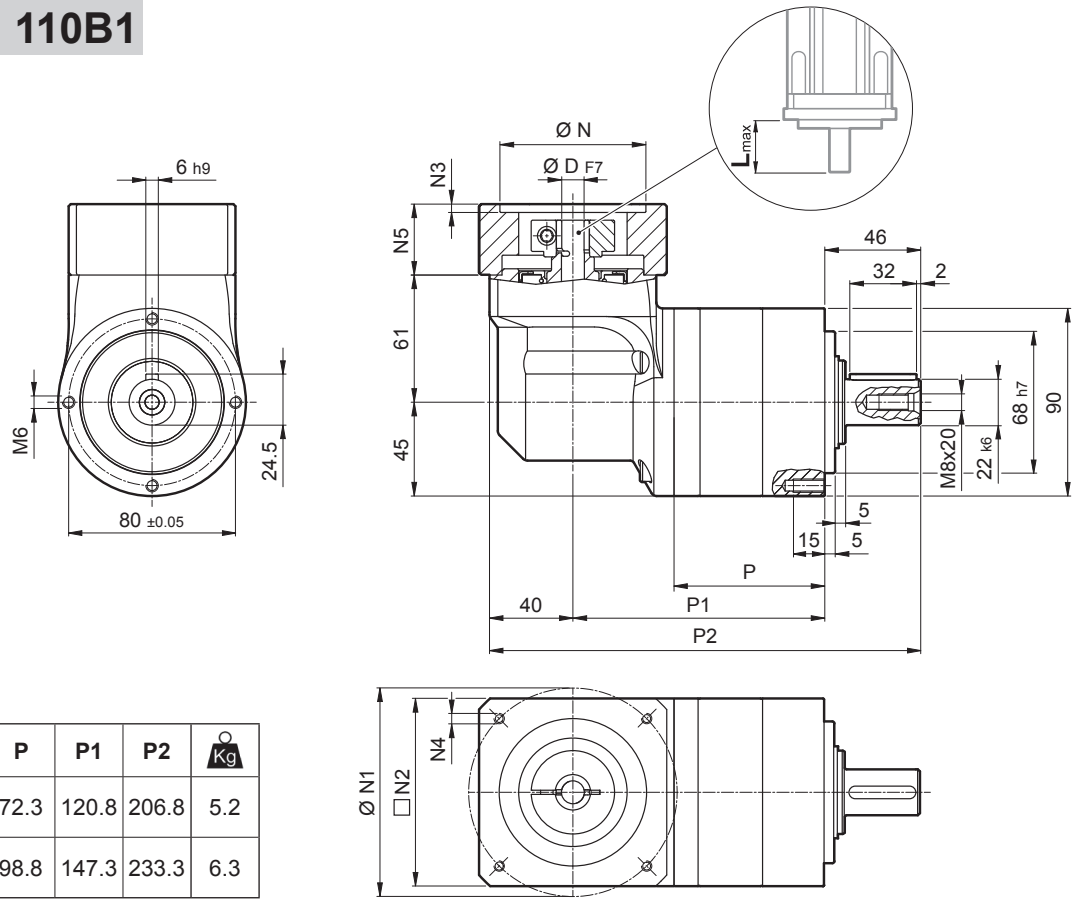



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 28 | 13.5 | 3 | 8.5 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 28 | 13.5 | 3 | 8.5 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 23 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 15.5 | 3 | 8.9 | 11.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 6 ... 9.52 | $J_G$ [kgcm$^2$] D 11 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCK 070P 2_6 | 25 | 38 | 45 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.25 | 0.26 |
| LCK 070P 2_8 | 30 | 40 | 60 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.24 | 0.25 |
| LCK 070P 2_10 | 25 | 40 | 70 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.23 | 0.25 |
| LCK 070P 2_14 | 25 | 40 | 70 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.23 | 0.24 |
| LCK 070P 2_20 | 18 | 30 | 60 | 2500 | 5000 | 6' | 2.8 | 1300 | 1400 | 94 | 0.23 | 0.24 |
| LCK 070P 3_24 | 29 | 45 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.24 | 0.26 |
| LCK 070P 3_30 | 29 | 45 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.24 | 0.26 |
| LCK 070P 3_50 | 30 | 45 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.23 | 0.24 |
| LCK 070P 3_70 | 30 | 45 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.23 | 0.24 |
| LCK 070P 3_80 | 30 | 45 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.23 | 0.24 |
| LCK 070P 3_100 | 30 | 45 | 70 | 2500 | 5000 | 8' | 2.5 | 1300 | 1400 | 91 | 0.23 | 0.24 |

# LCK 090P

## 40B1 ... 110B1



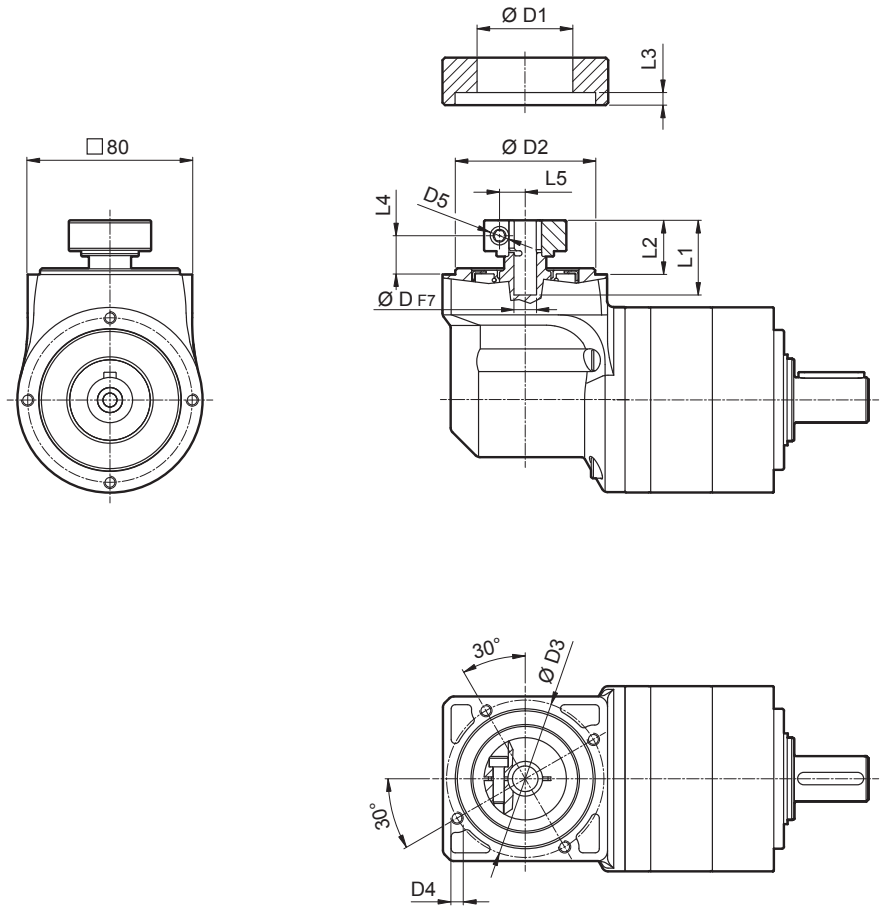

| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 090P 2** | 72.3 | 120.8 | 206.8 | 5.2 |
| **LCK 090P 3** | 98.8 | 147.3 | 233.3 | 6.3 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x10 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x16 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 5.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 090P

**FM**

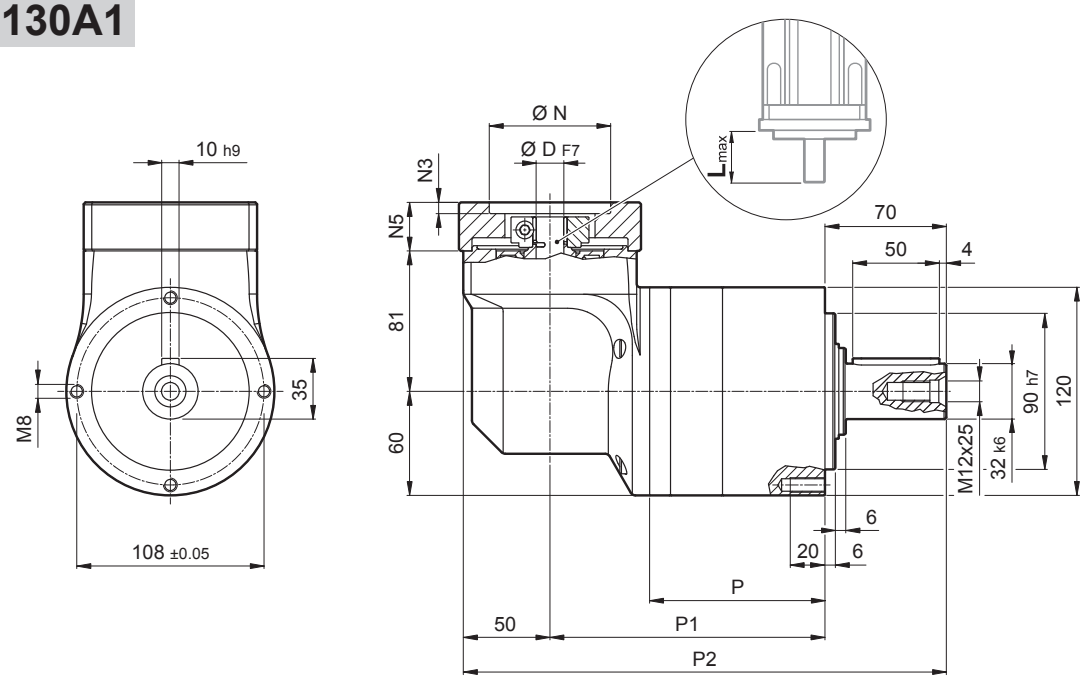


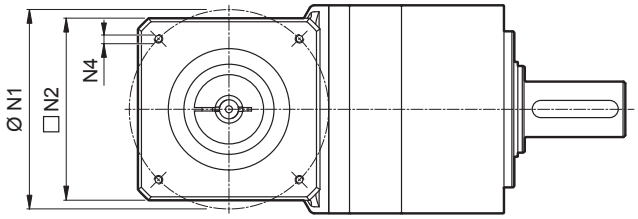

| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 8 ... 12.7 | $J_G$ [kgcm$^2$] D 14 ... 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCK 090P 2_6** | 45 | 70 | 90 | 2500 | 5000 | 6' | 11 | 2200 | 1900 | 94 | 0.85 | 1.03 |
| **LCK 090P 2_8** | 60 | 90 | 120 | 2500 | 5000 | 6' | 11 | 2200 | 1900 | 94 | 0.79 | 0.98 |
| **LCK 090P 2_10** | 50 | 90 | 150 | 2500 | 5000 | 6' | 8 | 2200 | 1900 | 94 | 0.77 | 0.96 |
| **LCK 090P 2_14** | 50 | 90 | 160 | 2500 | 5000 | 6' | 8 | 2200 | 1900 | 94 | 0.75 | 0.94 |
| **LCK 090P 2_20** | 40 | 70 | 150 | 2500 | 5000 | 6' | 8 | 2200 | 1900 | 94 | 0.74 | 0.93 |
| **LCK 090P 3_24** | 60 | 90 | 160 | 2500 | 5000 | 8' | 10.8 | 2200 | 1900 | 91 | 0.81 | 1.00 |
| **LCK 090P 3_30** | 60 | 90 | 160 | 2500 | 5000 | 8' | 10.8 | 2200 | 1900 | 91 | 0.81 | 1.00 |
| **LCK 090P 3_50** | 50 | 90 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.76 | 0.94 |
| **LCK 090P 3_70** | 50 | 90 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.74 | 0.93 |
| **LCK 090P 3_80** | 60 | 90 | 160 | 2500 | 5000 | 8' | 10.8 | 2200 | 1900 | 91 | 0.74 | 0.93 |
| **LCK 090P 3_100** | 50 | 90 | 160 | 2500 | 5000 | 8' | 7.8 | 2200 | 1900 | 91 | 0.74 | 0.93 |

# LCK 120P

## 50D ... 130A1



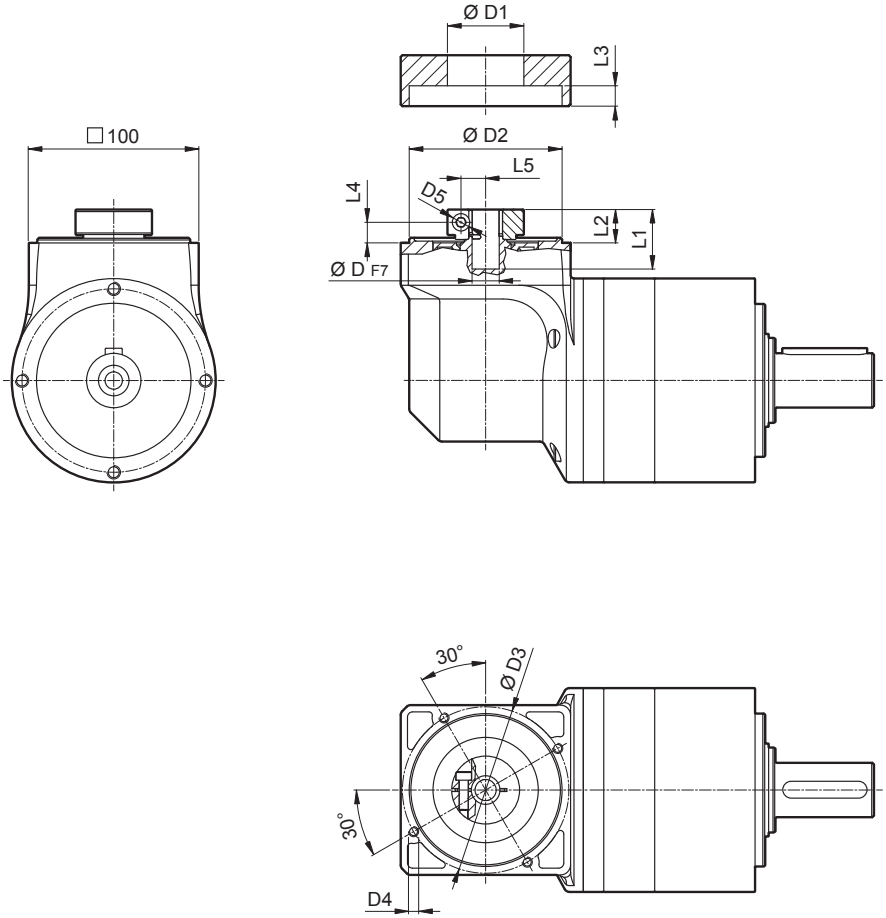

| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 120P 2** | 101.1 | 158.6 | 278.6 | 11.3 |
| **LCK 120P 3** | 133.6 | 191.1 | 311.1 | 13.8 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 55.5 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 75 | 100 | 5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 75 | 100 | 5 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 85 | 100 | 5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 85 | 100 | 5 | 6 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 80 | 100 | 100 | 5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 80 | 100 | 100 | 5 | 6.5 | 28 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 95 | 115 | 100 | 5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 95 | 115 | 100 | 5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 95 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 110 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 120P

**FM**

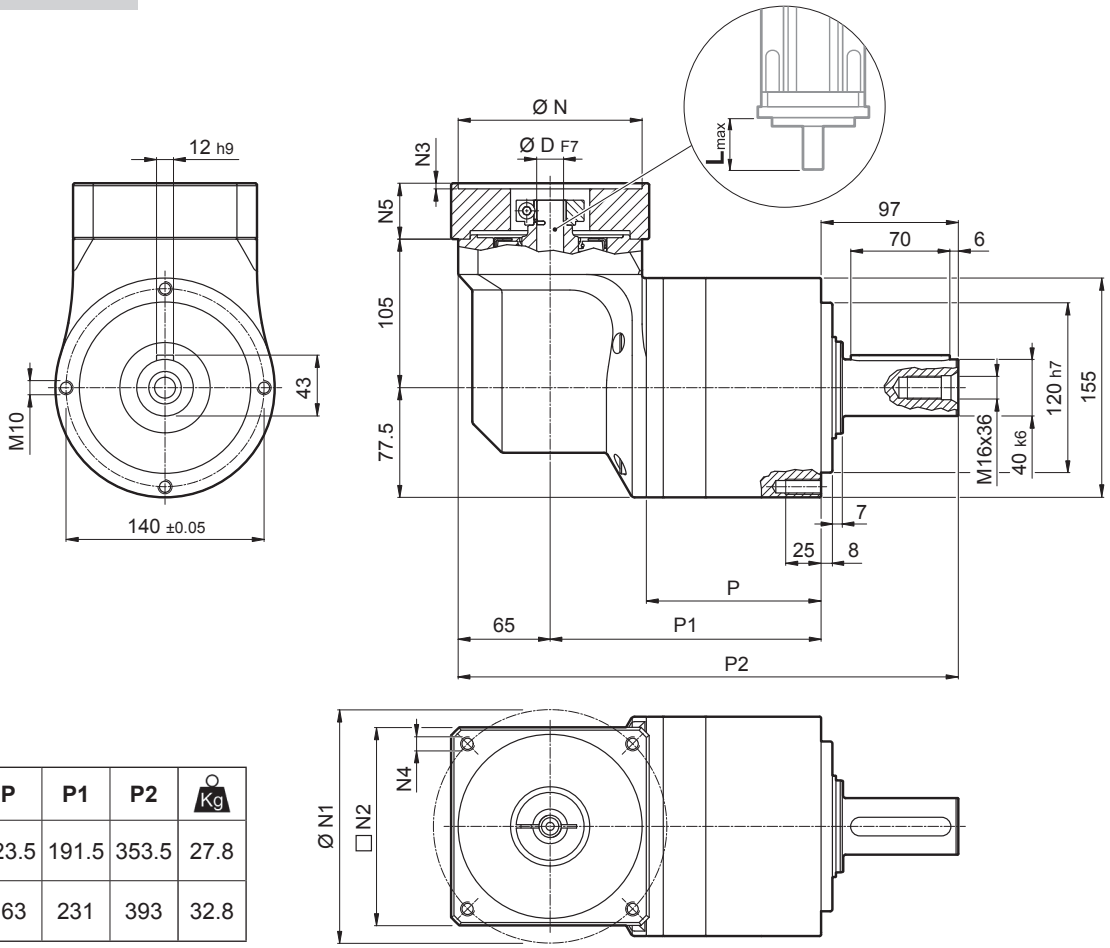



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 37 | 21.5 | 7.6 | 12.1 | 19 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | D 22 ; 24 | D 28 ; 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCK 120P 2_6** | 110 | 160 | 225 | 2000 | 4500 | 6' | 28.4 | 3500 | 3000 | 94 | 1.74 | 1.82 | 2.01 |
| **LCK 120P 2_8** | 140 | 220 | 300 | 2000 | 4500 | 6' | 28.4 | 3500 | 3000 | 94 | 1.52 | 1.60 | 1.79 |
| **LCK 120P 2_10** | 125 | 220 | 360 | 2000 | 4500 | 6' | 28.4 | 3500 | 3000 | 94 | 1.44 | 1.52 | 1.71 |
| **LCK 120P 2_14** | 125 | 220 | 360 | 2000 | 4500 | 6' | 28.4 | 3500 | 3000 | 94 | 1.37 | 1.45 | 1.63 |
| **LCK 120P 2_20** | 100 | 160 | 300 | 2000 | 4500 | 6' | 28.4 | 3500 | 3000 | 94 | 1.32 | 1.40 | 1.59 |
| **LCK 120P 3_24** | 155 | 220 | 360 | 2000 | 4500 | 8' | 28.4 | 3500 | 3000 | 91 | 1.64 | 1.72 | 1.90 |
| **LCK 120P 3_30** | 155 | 220 | 360 | 2000 | 4500 | 8' | 28.4 | 3500 | 3000 | 91 | 1.63 | 1.71 | 1.89 |
| **LCK 120P 3_50** | 125 | 220 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.40 | 1.48 | 1.67 |
| **LCK 120P 3_70** | 125 | 220 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.34 | 1.42 | 1.61 |
| **LCK 120P 3_80** | 155 | 220 | 360 | 2000 | 4500 | 8' | 28.4 | 3500 | 3000 | 91 | 1.31 | 1.39 | 1.58 |
| **LCK 120P 3_100** | 125 | 220 | 360 | 2000 | 4500 | 8' | 22.9 | 3500 | 3000 | 91 | 1.31 | 1.39 | 1.58 |

# LCK 155P

## 55A1 ... 180A1



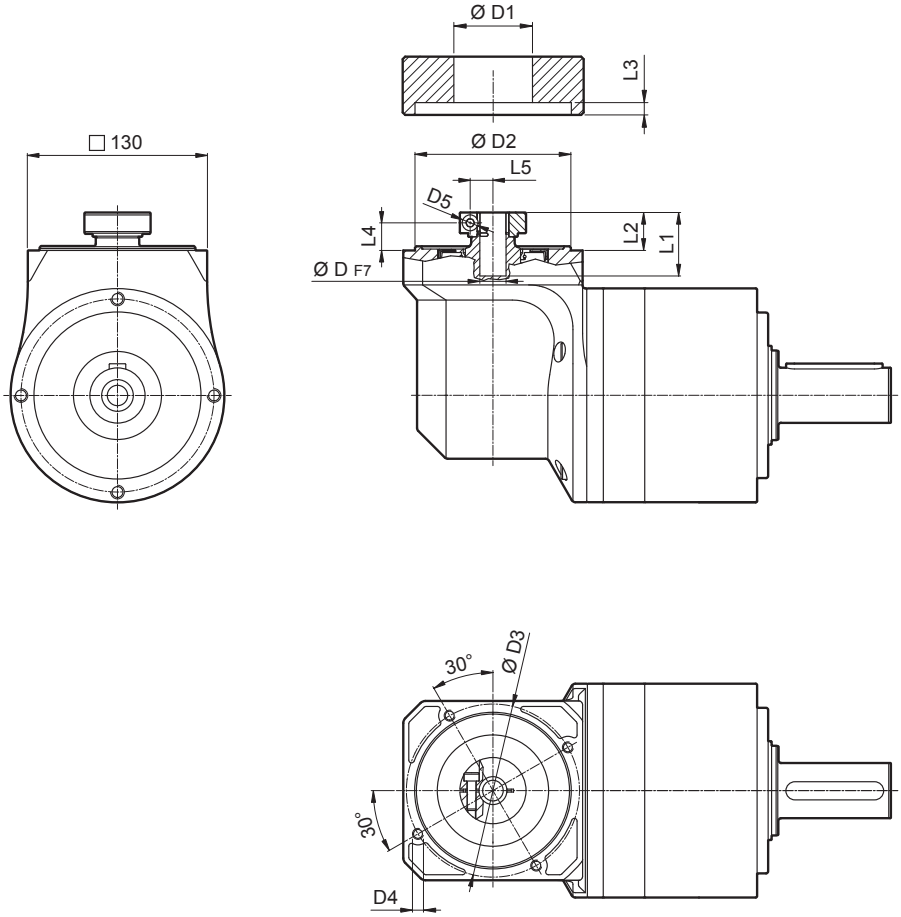

| | P | P1 | P2 | Kg |
|---|---|---|---|---|
| **LCK 155P 2** | 123.5 | 191.5 | 353.5 | 27.8 |
| **LCK 155P 3** | 163 | 231 | 393 | 32.8 |

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# LCK 155P

**FM**

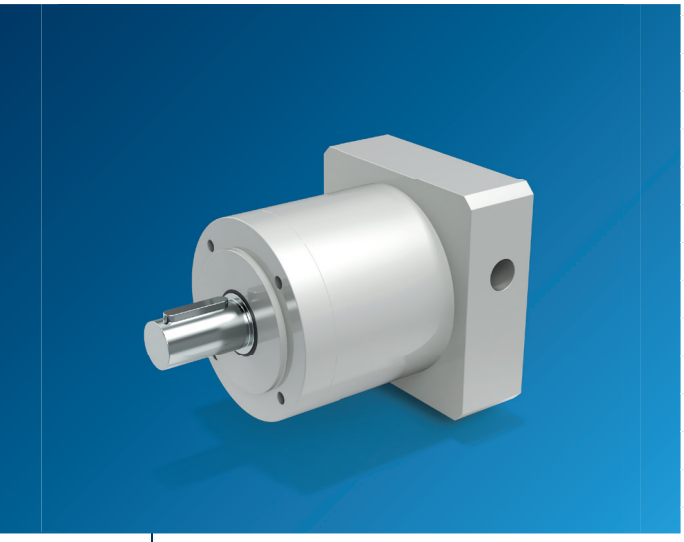



| D | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 15.875 | 16 | 48 | 113 | 125.5 | M8x15 | M6 | 46 | 27.5 | 6 | 20 | 14.5 |
| 19 | | | 51 | 113 | 125.5 | M8x15 | M6 | 46 | 27.5 | 6 | 20 | 16.5 |
| 22 | 24 | | 56.5 | 113 | 125.5 | M8x15 | M6 | 47.5 | 29 | 6 | 20 | 19 |
| 28 | | | 67 | 113 | 125.5 | M8x15 | M8 | 47.5 | 29 | 6 | 20 | 22.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_S$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] D 14 ... 19 | D 22 ; 24 | D 28 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCK 155P 2_6 | 250 | 380 | 600 | 2000 | 4500 | 6' | 47.9 | 6000 | 5000 | 94 | 7.94 | 8.13 | 8.53 |
| LCK 155P 2_8 | 350 | 500 | 1000 | 2000 | 4500 | 6' | 47.9 | 6000 | 5000 | 94 | 7.11 | 7.30 | 7.70 |
| LCK 155P 2_10 | 350 | 500 | 1000 | 2000 | 4500 | 6' | 47.9 | 6000 | 5000 | 94 | 6.78 | 6.96 | 7.36 |
| LCK 155P 2_14 | 350 | 500 | 1000 | 2000 | 4500 | 6' | 47.9 | 6000 | 5000 | 94 | 6.48 | 6.67 | 7.07 |
| LCK 155P 2_20 | 230 | 350 | 750 | 2000 | 4500 | 6' | 47.9 | 6000 | 5000 | 94 | 6.31 | 6.49 | 6.90 |
| LCK 155P 3_24 | 450 | 700 | 1000 | 2000 | 4500 | 8' | 44.6 | 6000 | 5000 | 91 | 7.18 | 7.37 | 7.77 |
| LCK 155P 3_30 | 450 | 700 | 1000 | 2000 | 4500 | 8' | 44.6 | 6000 | 5000 | 91 | 7.14 | 7.33 | 7.73 |
| LCK 155P 3_50 | 450 | 700 | 1000 | 2000 | 4500 | 8' | 44.6 | 6000 | 5000 | 91 | 6.49 | 6.68 | 7.08 |
| LCK 155P 3_70 | 450 | 700 | 1000 | 2000 | 4500 | 8' | 44.6 | 6000 | 5000 | 91 | 6.33 | 6.52 | 6.92 |
| LCK 155P 3_80 | 450 | 700 | 1000 | 2000 | 4500 | 8' | 44.6 | 6000 | 5000 | 91 | 6.25 | 6.43 | 6.83 |
| LCK 155P 3_100 | 450 | 700 | 1000 | 2000 | 4500 | 8' | 44.6 | 6000 | 5000 | 91 | 6.24 | 6.43 | 6.83 |

# Linea Effective

(E)



## Serie MPE

La serie MPE offre una soluzione economicamente vantaggiosa per applicazioni che richiedono livelli medi di precisione nel movimento. Offre elevata flessibilità in termini di dimensioni, rapporti e configurazioni di montaggio per una varietà di requisiti applicativi. Il design del prodotto in linea con gli standard di mercato garantisce una compatibilità elevata per un facile retrofit e un alto livello di libertà nello sviluppo dei progetti.

## Vantaggi principali

- Vantaggioso rapporto qualità-prezzo
- Compatibilità elevata per un facile retrofit
- Adatto ad una varietà di applicazioni grazie all'elevata flessibilità

## Caratteristiche principali

- Coppia nominale in uscita (Nm)

5 - 155

- Gioco torsionale (arcmin)

5 - 15

- Rigidezza torsionale (Nm)

0,65 - 25

- Momento di ribaltamento (Nm)

5,9 - 129

## Grado di protezione

- IP54

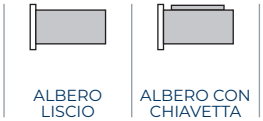
## Grandezze

- 40
- 60
- 80
- 120

## Opzioni principali

- Versioni con ingresso


- Versioni alberi di uscita




- Lubrificazione

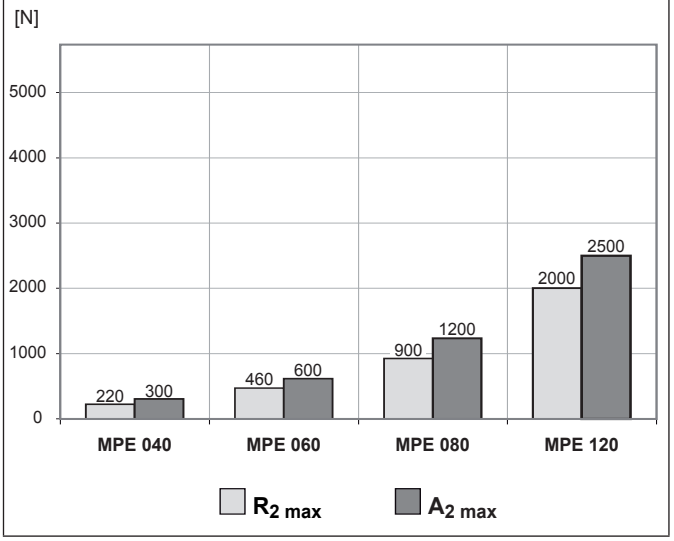
## *12 CARATTERISTICHE DELLA SERIE MPE*

La serie MPE soddisfa un'ampia gamma di requisiti di applicazioni grazie alla sua flessibilità elevata in termini di dimensioni, rapporti e configurazioni di montaggio.
Il suo design proporzionato consente un funzionamento silenzioso e una lunga durata senza necessità di manutenzione.
Il montaggio del motore è un'operazione che può essere facilmente eseguita senza la necessità di particolari strumenti, oltre a quelli solitamente disponibili in un'officina normalmente attrezzata.

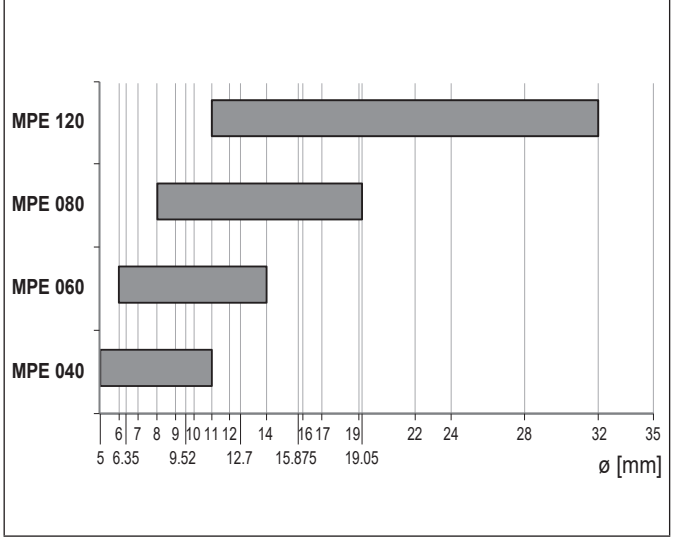
- Disponibile con gioco* standard (STD) o ridotto (LOW):
  Unità a 1 stadio: standard $\varphi S \leq 10'$; ridotto $\varphi_R \leq 5'$
  Unità a 2 stadi: standard $\varphi S \leq 12'$; ridotto $\varphi_R \leq 7'$
- Gli anelli di tenuta della sezione di ingresso in composto di fluoroelastomero sono inclusi nella fornitura.
- Livello di pressione del rumore LP ≤ 70 dB(A). Condizioni: distanza 1 m; misurata senza carico una velocità di ingresso di $n_1 = 3000\ min^{-1}$; i=10.
- Le unità sono imballate presso lo stabilimento con grasso sintetico secondo la classe di consistenza NLGI 00*, in assenza di contaminazione il lubrificante non richiede cambi periodici.
- Ambienti con temperature min -20°C, max +30°C. Per temperature superiori a 30°C considerare il fattore di declassamento $f_T$.
- La temperatura dell'alloggiamento non deve superare $T_{max} = 90°C$.

| Distribuzione di coppia nominale $M_{n2}$ [Nm] | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [i] | **3** | **4** | **5** | **7** | **9** | **10** | **12** | **15** | **16** | **20** | **25** | **28** | **30** | **35** | **40** | **50** | **70** | **100** |
| **MPE 040** | 12 | 12 | 12 | 8 | 12 | 5 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 8 | 5 |
| **MPE 060** | 29 | 30 | 25 | 25 | 29 | 18 | 29 | 29 | 30 | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 30 | 18 |
| **MPE 080** | 65 | 60 | 50 | 50 | 65 | 40 | 65 | 65 | 60 | 60 | 50 | 50 | 65 | 50 | 60 | 50 | 50 | 40 |
| **MPE 120** | 155 | 155 | 125 | 125 | 155 | 100 | 155 | 155 | 155 | 155 | 125 | 125 | 155 | 125 | 155 | 125 | 125 | 100 |

**Carichi massimi applicabili sull'albero lento**




**Alberi motore accoppiabili**




*non disponibile per la dimensione 040

### *12.1 CODICE ORDINATIVO*

**MPE** **080** **1** **3** **STD** **80A1** **CD** **19** **KE** **UH1**

LUBRIFICANTE
- **–** standard
- **UH1** lubrificante sintetico ad uso alimentare

CONFIGURAZIONE ALBERO LENTO
- **KL** albero liscio
- **KE** albero con linguetta

DIAMETRO FORO PER ALBERO MOTORE
- **5 ... 32** ( ⛔ IS)

TIPO DI CALETTAMENTO ALBERO MOTORE
- **CD** morsetto di serraggio ( ⛔ IS)

SEZIONE DI INGRESSO
- **22AH ... 130A1** predisposizione motore
- **IS** albero veloce sporgente ( ⛔ MPE 040)
- **FM** senza adattatore in ingresso

GIOCO ANGOLARE

| | 1 stadio (solo MPE 040) | 2 stadi (solo MPE 040) | 1 stadi | 2 stadi |
|---|---|---|---|---|
| **STD** | $\varphi_s \leq 15'$ | $\varphi_s \leq 19'$ | $\varphi_s \leq 10'$ | $\varphi_s \leq 12'$ |
| **LOW** | — | — | $\varphi_R \leq 5'$ | $\varphi_R \leq 7'$ |

RAPPORTO DI TRASMISSIONE

STADI DI RIDUZIONE
- **1** **2**

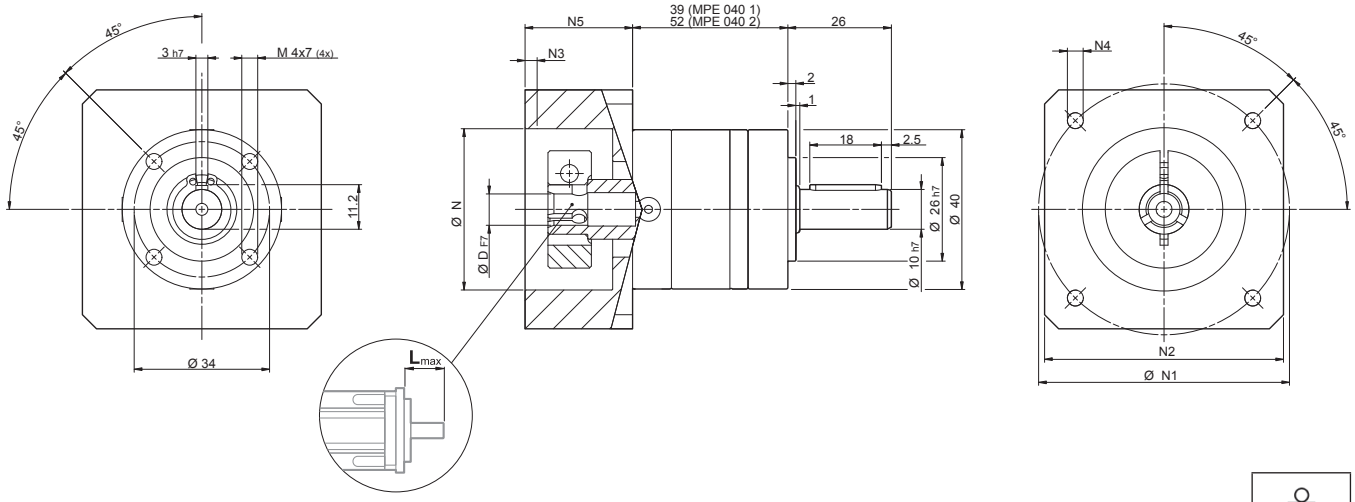
GRANDEZZA
- **040** **060** **080** **120**

SERIE
- **MPE**

*12.2 DIMENSIONI E DATI TECNICI*

# MPE 040

## 22AH ... 50C0



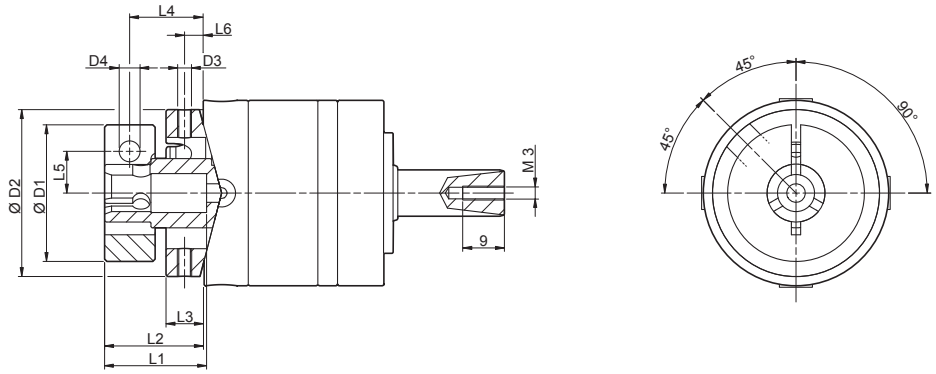

| | Kg |
|---|---|
| **MPE 040 1** | 0.5 |
| **MPE 040 2** | 0.8 |

| | D | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **22AH** | 5 | 6.35 | – | – | – | 22 | 43.84 | 42 | 6 | 3.5 | 20 | 22 |
| **30A0** | – | – | 8 | 9 | – | 30 | 46 | 50 | 4 | M4x12 | 27 | 26 |
| **30B0** | – | – | 8 | 9 | – | 30 | 45 | 50 | 4 | M3x8 | 27 | 26 |
| **36A** | 5 | 6.35 | – | – | – | 36 | 57.98 | 60 | 10 | M4x12 | 30 | 32 |
| **38B** | 5 | 6.35 | – | – | – | 38.1 | 66.66 | 60 | 10 | M4x12 | 25 | 26 |
| **40B** | – | – | 8 | 9 | 11 | 40 | 63 | 60 | 4 | M4x12 | 27 | 26 |
| **50C0** | – | – | 8 | 9 | 11 | 50 | 70 | 60 | 4 | M4x12 | 27 | 26 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MPE 040

**FM**

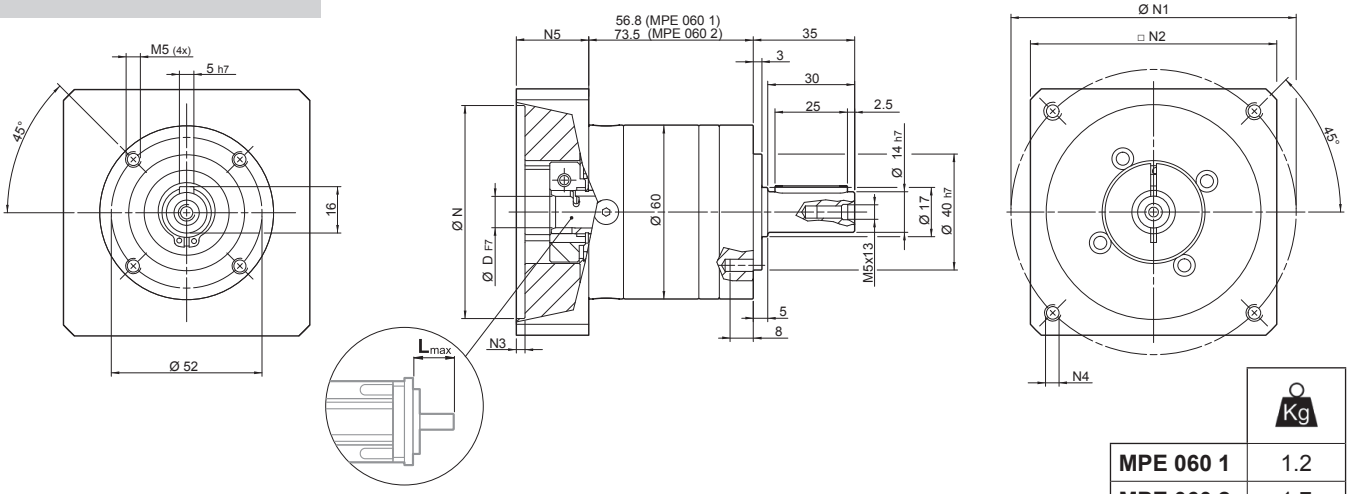



| D | | | | | D1 | D2 | D3 | D4 | L1 | L2 | L3 | L4 | L5 | L6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 6.35 | – | – | – | 22 | 36 | M3x5 | M5 | 15.5 | 11.2 | 10 | 6.25 | – | 4 |
| – | – | 8 | 9 | – | 32 | 36 | M3x5 | M4 | 21.5 | 21 | 10 | 15.85 | 9 | 4 |
| – | – | – | – | 11 | 36 | 36 | M3x5 | M4 | 21.5 | 21 | 10 | 16.25 | 11 | 4 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_{1N}$ [rpm] | $n_{1\,max}$ [rpm] | $\varphi_S$ [arcmin] | $C_t$ $\left[\frac{Nm}{arcmin}\right]$ | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm²] D 5 ... 6.35 | $J_G$ [kgcm²] D 8 ... 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MPE 040 1_3 | 12 | 15 | 21 | 3500 | 5000 | 15' | 0.8 | 220 | 300 | 97 | 0.05 | 0.09 |
| MPE 040 1_4 | 12 | 15 | 21 | 3500 | 5000 | 15' | 0.8 | 220 | 300 | 97 | 0.04 | 0.08 |
| MPE 040 1_5 | 12 | 15 | 21 | 3500 | 5000 | 15' | 0.8 | 220 | 300 | 97 | 0.03 | 0.07 |
| MPE 040 1_7 | 8 | 10 | 14 | 3500 | 5000 | 15' | 0.8 | 220 | 300 | 97 | 0.03 | 0.07 |
| MPE 040 1_10 | 5 | 8 | 12 | 3500 | 5000 | 15' | 0.8 | 220 | 300 | 97 | 0.02 | 0.06 |
| MPE 040 2_9 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.05 | 0.09 |
| MPE 040 2_12 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.05 | 0.09 |
| MPE 040 2_15 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.04 | 0.08 |
| MPE 040 2_16 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.04 | 0.08 |
| MPE 040 2_20 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.04 | 0.08 |
| MPE 040 2_25 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.04 | 0.08 |
| MPE 040 2_28 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.04 | 0.07 |
| MPE 040 2_30 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.03 | 0.07 |
| MPE 040 2_35 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.03 | 0.06 |
| MPE 040 2_40 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.03 | 0.06 |
| MPE 040 2_50 | 12 | 15 | 21 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.02 | 0.06 |
| MPE 040 2_70 | 8 | 10 | 14 | 3500 | 5000 | 19' | 0.65 | 220 | 300 | 94 | 0.02 | 0.06 |
| MPE 040 2_100 | 5 | 8 | 12 | 3500 | 5000 | 19 | 0.65 | 220 | 300 | 94 | 0.02 | 0.06 |

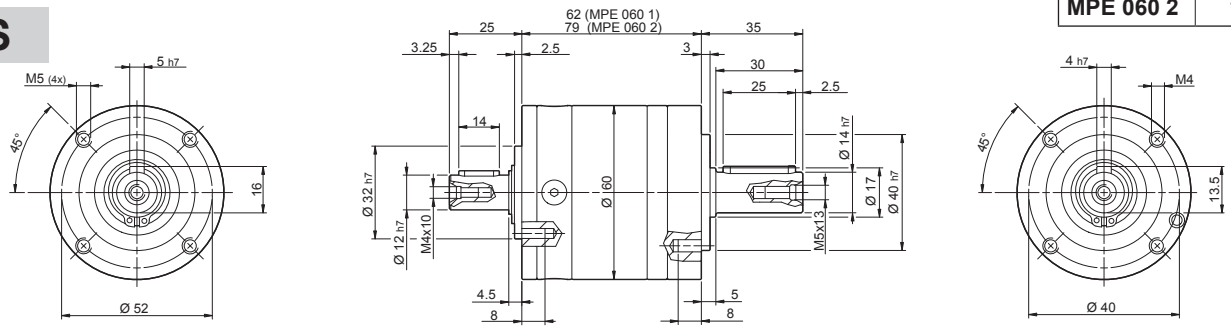
# MPE 060

## 25AH ... 80A




| | Kg |
|---|---|
| **MPE 060 1** | 1.2 |
| **MPE 060 2** | 1.7 |

## IS

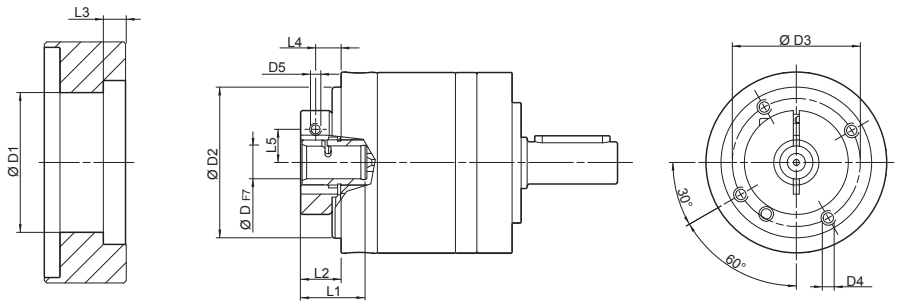



| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | 5.5 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60AH1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | 5.5 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

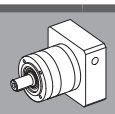
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MPE 060

**FM**

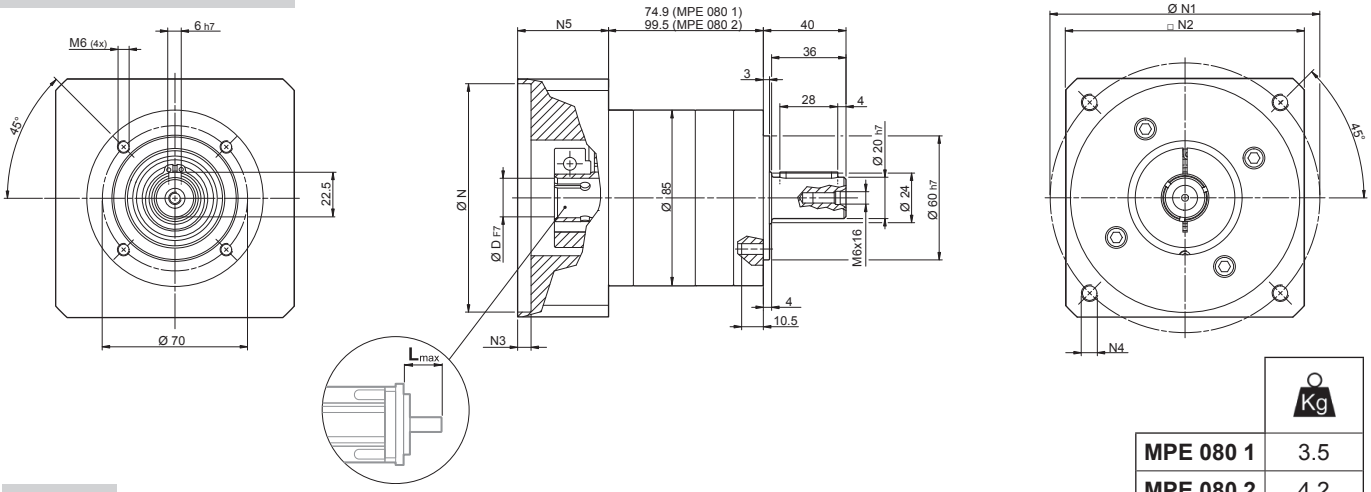



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

|  i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [rpm] | $n_{1\,max}$ [rpm] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ $\left[\frac{Nm}{arcmin}\right]$ | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] 6 ... 10 | $J_G$ [kgcm$^2$] 11 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPE 060 1_3** | 29 | 55 | 60 | 3300 | 4000 | 10' | 5' | 3 | 200 | 460 | 600 | 97 | 0.12 | 0.14 |
| **MPE 060 1_4** | 30 | 45 | 70 | 3500 | 5000 | 10' | 5' | 3 | 200 | 460 | 600 | 97 | 0.08 | 0.10 |
| **MPE 060 1_5** | 25 | 40 | 70 | 3500 | 5000 | 10' | 5' | 3 | 200 | 460 | 600 | 97 | 0.06 | 0.09 |
| **MPE 060 1_7** | 25 | 40 | 70 | 4000 | 5000 | 10' | 5' | 3 | 200 | 460 | 600 | 97 | 0.05 | 0.07 |
| **MPE 060 1_10** | 18 | 30 | 60 | 4000 | 6000 | 10' | 5' | 3 | 200 | 460 | 600 | 97 | 0.04 | 0.06 |
| **MPE 060 2_9** | 29 | 55 | 60 | 3300 | 4000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.11 | 0.13 |
| **MPE 060 2_12** | 29 | 55 | 70 | 3300 | 4000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.10 | 0.13 |
| **MPE 060 2_15** | 29 | 55 | 70 | 3300 | 4000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.10 | 0.12 |
| **MPE 060 2_16** | 30 | 45 | 70 | 3500 | 5000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.07 | 0.09 |
| **MPE 060 2_20** | 30 | 45 | 70 | 3500 | 5000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.06 | 0.08 |
| **MPE 060 2_25** | 30 | 45 | 70 | 3500 | 5000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.06 | 0.08 |
| **MPE 060 2_28** | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.05 | 0.07 |
| **MPE 060 2_30** | 29 | 55 | 60 | 4000 | 6000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.05 | 0.06 |
| **MPE 060 2_35** | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.05 | 0.07 |
| **MPE 060 2_40** | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.04 | 0.06 |
| **MPE 060 2_50** | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.04 | 0.06 |
| **MPE 060 2_70** | 30 | 45 | 70 | 4000 | 6000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.04 | 0.06 |
| **MPE 060 2_100** | 18 | 30 | 60 | 4000 | 6000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.04 | 0.06 |

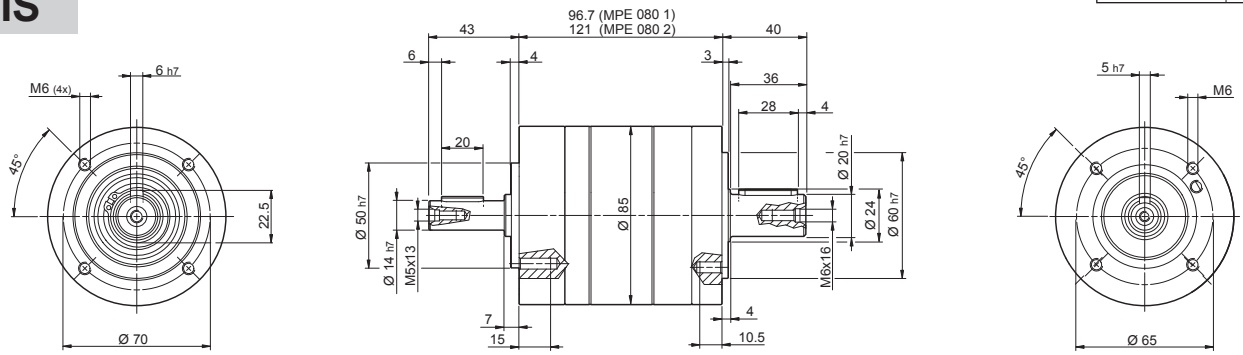
# MPE 080

## 40B1 ... 110B1




| | Kg |
|---|---|
| **MPE 080 1** | 3.5 |
| **MPE 080 2** | 4.2 |

## IS

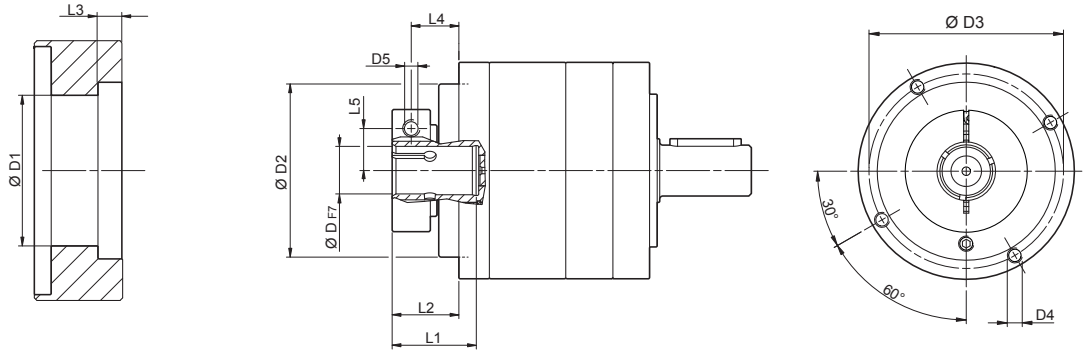



| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MPE 080

**FM**

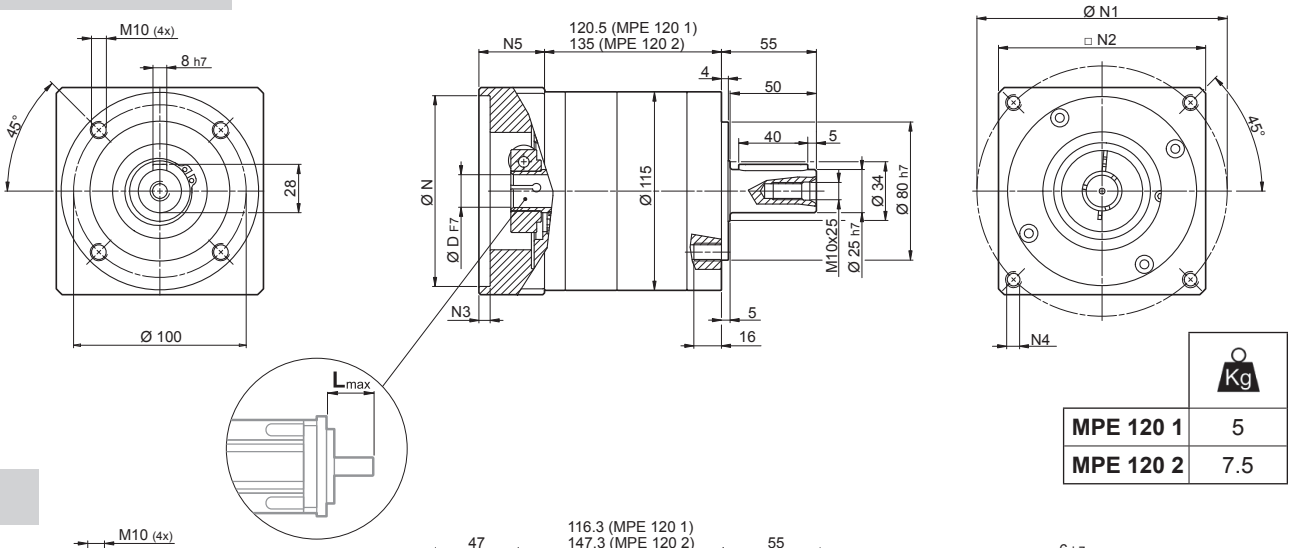



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [rpm] | $n_{1\,max}$ [rpm] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm$^2$] 8 ... 12.7 | $J_G$ [kgcm$^2$] 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MPE 080 1_3 | 65 | 120 | 150 | 3500 | 4000 | 10' | 5' | 12 | 400 | 900 | 1200 | 97 | 0.50 | 0.59 |
| MPE 080 1_4 | 60 | 110 | 160 | 3500 | 4000 | 10' | 5' | 12 | 400 | 900 | 1200 | 97 | 0.34 | 0.43 |
| MPE 080 1_5 | 50 | 100 | 160 | 3200 | 4500 | 10' | 5' | 9 | 400 | 900 | 1200 | 97 | 0.28 | 0.37 |
| MPE 080 1_7 | 50 | 100 | 160 | 4000 | 6000 | 10' | 5' | 9 | 400 | 900 | 1200 | 97 | 0.21 | 0.32 |
| MPE 080 1_10 | 40 | 70 | 150 | 4000 | 6000 | 10' | 5' | 9 | 400 | 900 | 1200 | 97 | 0.20 | 0.29 |
| MPE 080 2_9 | 65 | 120 | 150 | 3500 | 3500 | 12' | 7' | 12 | 400 | 900 | 1200 | 94 | 0.49 | 0.58 |
| MPE 080 2_12 | 65 | 120 | 160 | 3500 | 3500 | 12' | 7' | 12 | 400 | 900 | 1200 | 94 | 0.47 | 0.56 |
| MPE 080 2_15 | 65 | 120 | 160 | 3500 | 3500 | 12' | 7' | 12 | 400 | 900 | 1200 | 94 | 0.46 | 0.55 |
| MPE 080 2_16 | 60 | 110 | 160 | 3500 | 4500 | 12' | 7' | 12 | 400 | 900 | 1200 | 94 | 0.32 | 0.41 |
| MPE 080 2_20 | 60 | 110 | 160 | 3500 | 4500 | 12' | 7' | 12 | 400 | 900 | 1200 | 94 | 0.27 | 0.36 |
| MPE 080 2_25 | 50 | 100 | 160 | 3200 | 4500 | 12' | 7' | 9 | 400 | 900 | 1200 | 94 | 0.27 | 0.36 |
| MPE 080 2_28 | 50 | 100 | 160 | 4000 | 6000 | 12' | 7' | 9 | 400 | 900 | 1200 | 94 | 0.22 | 0.31 |
| MPE 080 2_30 | 65 | 120 | 150 | 4000 | 6000 | 12' | 7' | 12 | 400 | 900 | 1200 | 94 | 0.20 | 0.29 |
| MPE 080 2_35 | 50 | 100 | 160 | 4000 | 6000 | 12' | 7' | 9 | 400 | 900 | 1200 | 94 | 0.20 | 0.29 |
| MPE 080 2_40 | 60 | 110 | 160 | 4000 | 6000 | 12' | 7' | 12 | 400 | 900 | 1200 | 94 | 0.20 | 0.29 |
| MPE 080 2_50 | 50 | 100 | 160 | 4000 | 6000 | 12' | 7' | 9 | 400 | 900 | 1200 | 94 | 0.19 | 0.28 |
| MPE 080 2_70 | 50 | 100 | 160 | 4000 | 6000 | 12' | 7' | 9 | 400 | 900 | 1200 | 94 | 0.19 | 0.28 |
| MPE 080 2_100 | 40 | 70 | 150 | 4000 | 6000 | 12' | 7' | 9 | 400 | 900 | 1200 | 94 | 0.19 | 0.28 |

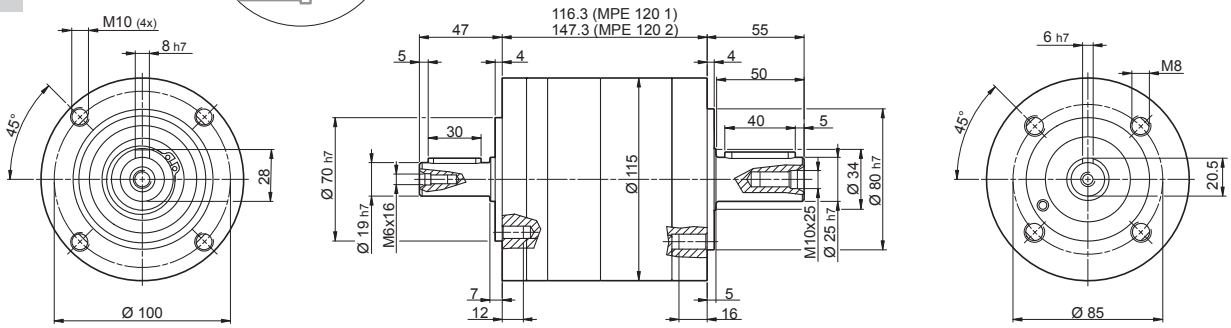
# MPE 120

## 50D ... 130A1




| | Kg |
|---|---|
| **MPE 120 1** | 5 |
| **MPE 120 2** | 7.5 |

## IS

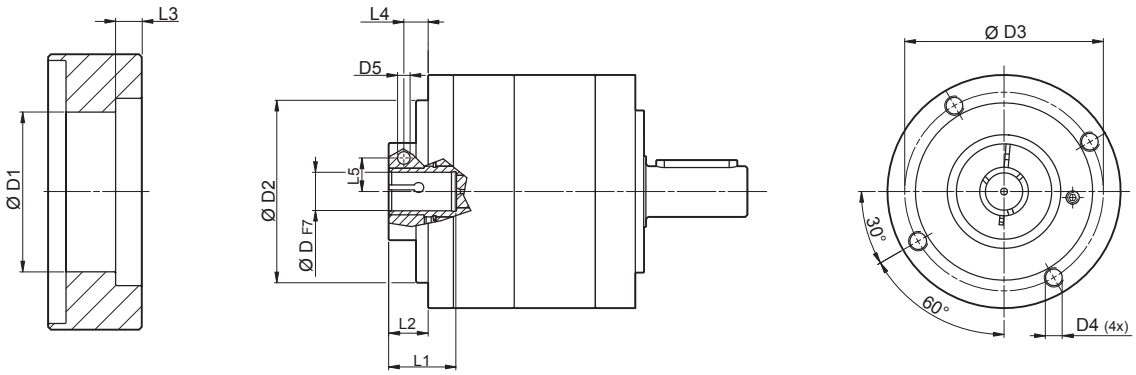



| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

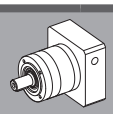
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MPE 120

**FM**

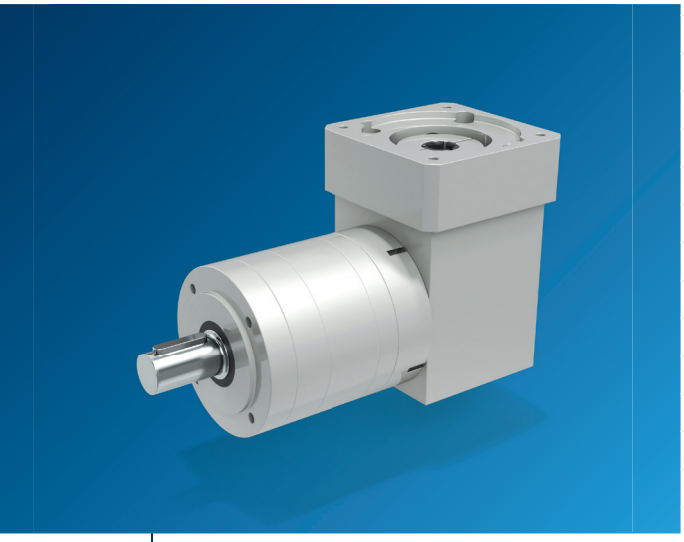



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 33.5 | 23 | 7.6 | 12.5 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 36.5 | 23 | 7.6 | 14 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 36.5 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 38 | 24.5 | 7.6 | 15.5 | 24.5 |

|  i | $M_{n\,2}$ | $M_{a\,2}$ | $M_{p\,2}$ | $n_{1N}$ | $n_{1\,max}$ | $\varphi_S$ | $\varphi_R$ | $C_t$ | $R_{1\,max}$ | $R_{2\,max}$ | $A_{2\,max}$ | $\eta$ | $J_G$ [kgcm$^2$] | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Nm] | [Nm] | [Nm] | [rpm] | [rpm] | [arcmin] | [arcmin] | $\left[\frac{Nm}{arcmin}\right]$ | [N] | [N] | [N] | % | 11 ... 12.7 | 14 ... 19 | 22 ; 24 | 28 ; 32 |
| **MPE 120 1_3** | 155 | 280 | 300 | 3000 | 4000 | 10' | 5' | 25 | 600 | 2000 | 2500 | 97 | 1.70 | 1.78 | 2.22 | 2.59 |
| **MPE 120 1_4** | 155 | 300 | 360 | 3000 | 4500 | 10' | 5' | 25 | 600 | 2000 | 2500 | 97 | 0.99 | 1.06 | 1.51 | 1.87 |
| **MPE 120 1_5** | 125 | 240 | 360 | 3000 | 4500 | 10' | 5' | 22 | 600 | 2000 | 2500 | 97 | 0.72 | 0.79 | 1.23 | 1.60 |
| **MPE 120 1_7** | 125 | 240 | 360 | 3500 | 4500 | 10' | 5' | 22 | 600 | 2000 | 2500 | 97 | 0.47 | 0.55 | 0.99 | 1.35 |
| **MPE 120 1_10** | 100 | 160 | 300 | 3500 | 5000 | 10' | 5' | 22 | 600 | 2000 | 2500 | 97 | 0.33 | 0.41 | 0.85 | 1.21 |
| **MPE 120 2_9** | 155 | 280 | 300 | 3000 | 4000 | 12' | 7' | 25 | 600 | 2000 | 2500 | 94 | 1.58 | 1.63 | 2.07 | 2.44 |
| **MPE 120 2_12** | 155 | 300 | 360 | 3000 | 4000 | 12' | 7' | 25 | 600 | 2000 | 2500 | 94 | 1.52 | 1.59 | 2.03 | 2.40 |
| **MPE 120 2_15** | 155 | 300 | 360 | 3000 | 4000 | 12' | 7' | 25 | 600 | 2000 | 2500 | 94 | 1.47 | 1.55 | 1.99 | 2.36 |
| **MPE 120 2_16** | 155 | 300 | 360 | 3000 | 4500 | 12' | 7' | 25 | 600 | 2000 | 2500 | 94 | 0.87 | 0.95 | 1.39 | 1.76 |
| **MPE 120 2_20** | 155 | 300 | 360 | 3000 | 4500 | 12' | 7' | 25 | 600 | 2000 | 2500 | 94 | 0.86 | 0.93 | 1.37 | 1.74 |
| **MPE 120 2_25** | 125 | 240 | 360 | 3000 | 4500 | 12' | 7' | 22 | 600 | 2000 | 2500 | 94 | 0.63 | 0.71 | 1.15 | 1.51 |
| **MPE 120 2_28** | 125 | 240 | 360 | 3500 | 5000 | 12' | 7' | 25 | 600 | 2000 | 2500 | 94 | 0.43 | 0.51 | 0.95 | 1.32 |
| **MPE 120 2_30** | 155 | 300 | 300 | 3500 | 5000 | 12' | 7' | 25 | 600 | 2000 | 2500 | 94 | 0.32 | 0.40 | 0.84 | 1.31 |
| **MPE 120 2_35** | 125 | 240 | 360 | 3500 | 5000 | 12' | 7' | 22 | 600 | 2000 | 2500 | 94 | 0.43 | 0.50 | 0.95 | 1.20 |
| **MPE 120 2_40** | 155 | 300 | 360 | 3500 | 5000 | 12' | 7' | 25 | 600 | 2000 | 2500 | 94 | 0.31 | 0.39 | 0.83 | 1.20 |
| **MPE 120 2_50** | 125 | 240 | 360 | 3500 | 5000 | 12' | 7' | 22 | 600 | 2000 | 2500 | 94 | 0.31 | 0.39 | 0.83 | 1.19 |
| **MPE 120 2_70** | 125 | 240 | 360 | 3500 | 5000 | 12' | 7' | 22 | 600 | 2000 | 2500 | 94 | 0.31 | 0.38 | 0.83 | 1.19 |
| **MPE 120 2_100** | 100 | 160 | 300 | 3500 | 5000 | 12' | 7' | 22 | 600 | 2000 | 2500 | 94 | 0.31 | 0.38 | 0.83 | 1.19 |

# Linea Effective

(E)



## Serie MPEK

La serie MPEK offre livelli medi di prestazioni e precisione di posizionamento a un rapporto qualità-prezzo competitivo. Il design del prodotto in linea con gli standard di mercato garantisce una compatibilità elevata per un facile retrofit e un alto livello di libertà nello sviluppo dei progetti. Il suo design ortogonale consente una maggiore compattezza per ingombri ridotti.

### Vantaggi principali

- Vantaggioso rapporto qualità-prezzo
- Compatibilità elevata per un facile retrofit
- Adatto ad una varietà di applicazioni grazie all'elevata flessibilità
- Configurazione ortogonale per installazioni più compatte

### Caratteristiche principali

- Coppia nominale in uscita (Nm)

18 - 155

- Gioco torsionale (arcmin)

7 - 14

- Rigidezza torsionale (Nm)

2,5 - 23,4

- Momento di ribaltamento (Nm)

5,9 - 129

### Grado di protezione

- IP54

### Grandezze

- 60
- 80
- 120

### Opzioni principali

- Versioni con ingresso

PREDISPOSIZIONE MOTORE

SENZA ADATTATORE IN INGRESSO

- Versioni alberi di uscita

ALBERO LISCIO

ALBERO CON CHIAVETTA

- Lubrificazione

LUBRIFICAZIONE STANDARD


LUBRIFICANTE AD USO ALIMENTARE

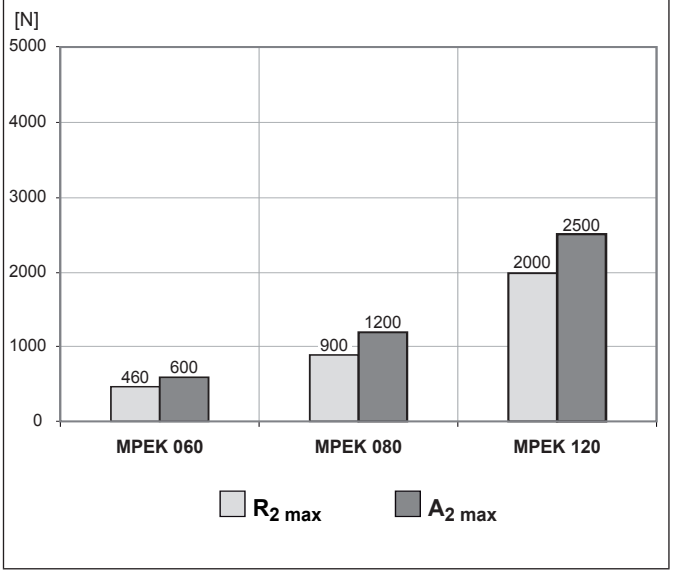
## *13 CARATTERISTICHE DELLA SERIE MPEK*

La configurazione ad angolo retto della serie MPEK è particolarmente adatta a layout compatti e salvaspazio. Il suo design proporzionato consente un funzionamento silenzioso e una lunga durata senza necessità di manutenzione.
Il montaggio del motore è un'operazione che può essere facilmente eseguita senza la necessità di particolari strumenti, oltre a quelli solitamente disponibili in un'officina normalmente attrezzata.

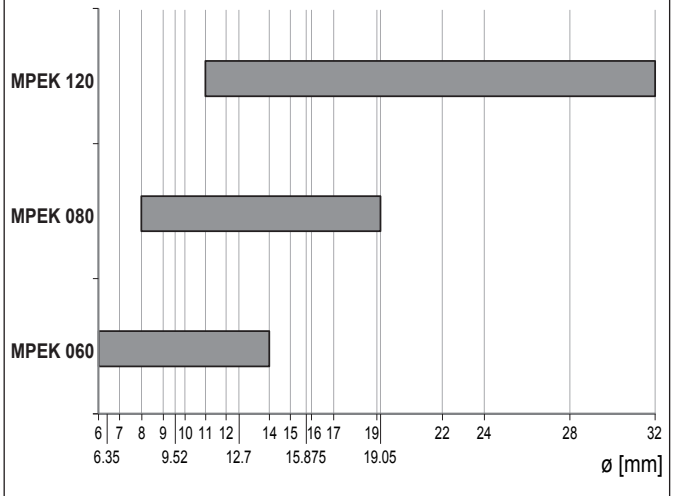
- Disponibile con gioco standard (STD) o ridotto (LOW):
  Unità a 2 stadi: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 7'$
  Unità a 3 stadi: standard $\varphi_S \leq 14'$; ridotto $\varphi_R \leq 9'$
- La sua classe di protezione IP54 fornisce protezione contro polvere e spruzzi di liquidi.
- Gli anelli di tenuta della sezione di ingresso in composto di fluoroelastomero sono inclusi nella fornitura.
- Livello di pressione del rumore LP ≤ 70 dB(A). Condizioni: distanza 1 m; misurata senza carico una velocità di ingresso di $n_1 = 3000\ min^{-1}$; i=10.
- Le unità sono imballate presso lo stabilimento con grasso sintetico secondo la classe di consistenza NLGI 00, in assenza di contaminazione il lubrificante non richiede cambi periodici.
- Ambienti con temperature min -20°C, max +30°C. Per temperature superiori a 30°C considerare il fattore di declassamento $f_T$.
- La temperatura dell'alloggiamento non deve superare $T_{max}$ = 90°C.

| **Distribuzione di coppia nominale** $M_{n2}$ [Nm] | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **[i]** | **3** | **4** | **5** | **7** | **9** | **10** | **12** | **15** | **16** | **20** | **25** | **8** | **30** | **35** | **40** | **50** | **70** | **100** |
| **MPEK 060** | 29 | 30 | 25 | 25 | 29 | 18 | 29 | 29 | 30 | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 30 | 18 |
| **MPEK 080** | 40 | 50 | 50 | 50 | 65 | 40 | 65 | 65 | 60 | 60 | 50 | 50 | 65 | 50 | 60 | 50 | 50 | 40 |
| **MPEK 120** | 80 | 105 | 130 | 125 | 155 | 100 | 155 | 155 | 155 | 155 | 125 | 125 | 155 | 125 | 155 | 125 | 125 | 100 |

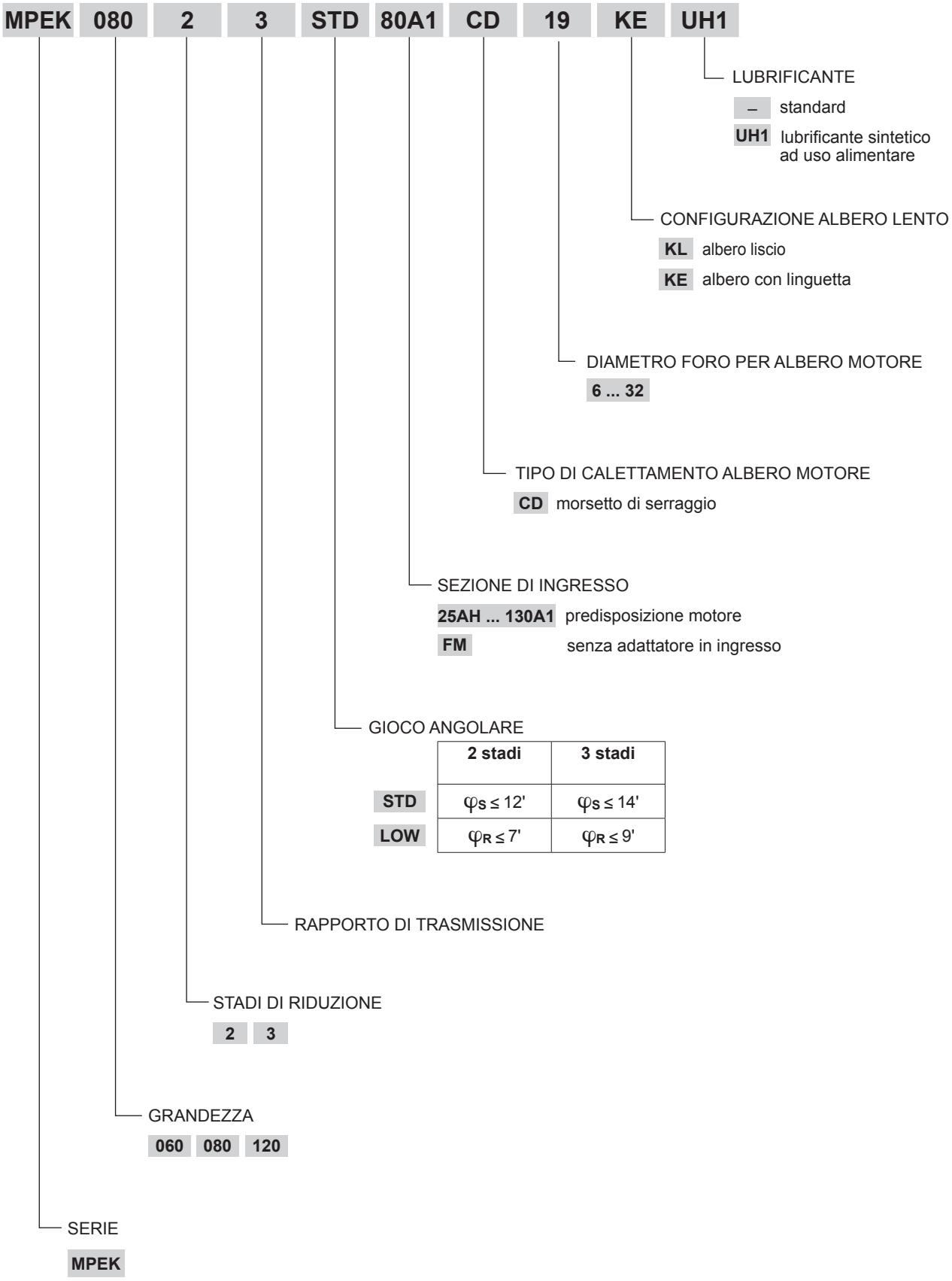
**Carichi massimi applicabili sull'albero lento**




**Alberi motore accoppiabili**



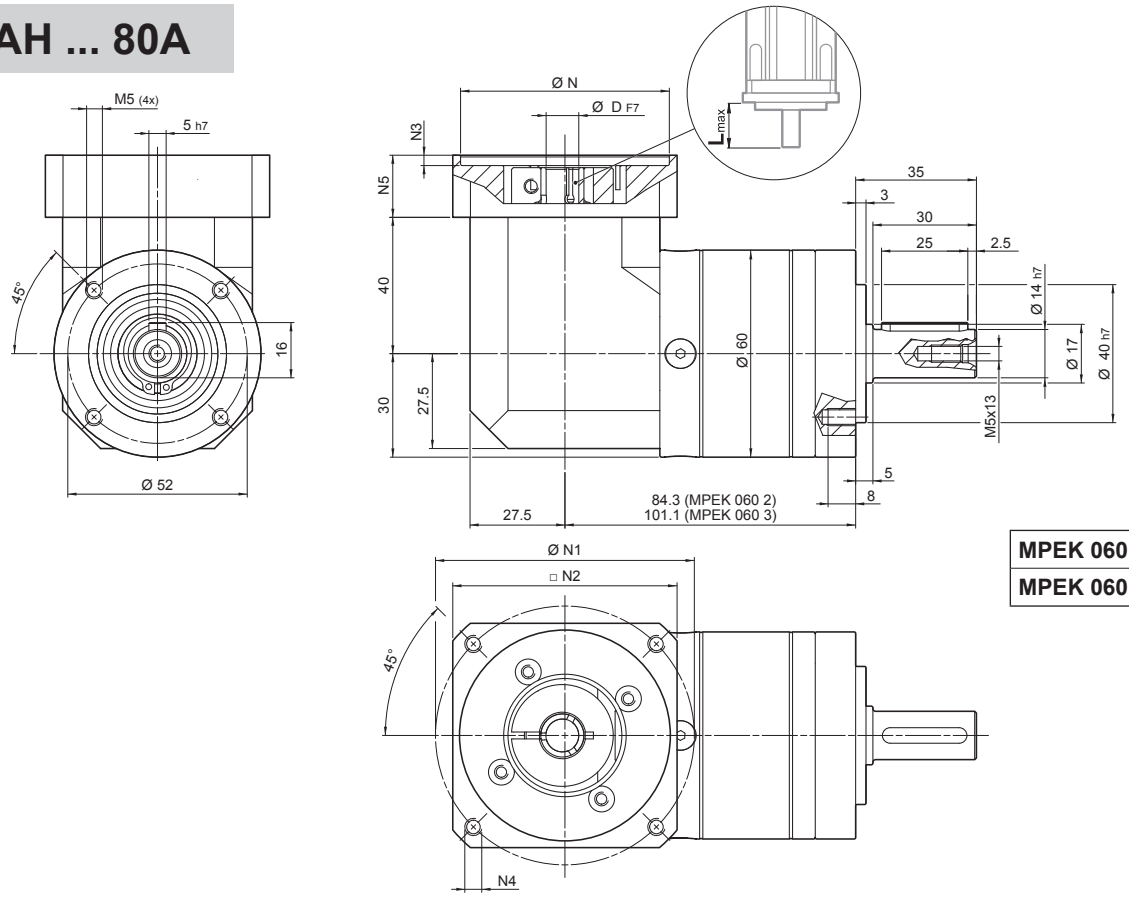
### *13.1 CODICE ORDINATIVO*



*13.2 DIMENSIONI E DATI TECNICI*

# MPEK 060

## 25AH ... 80A



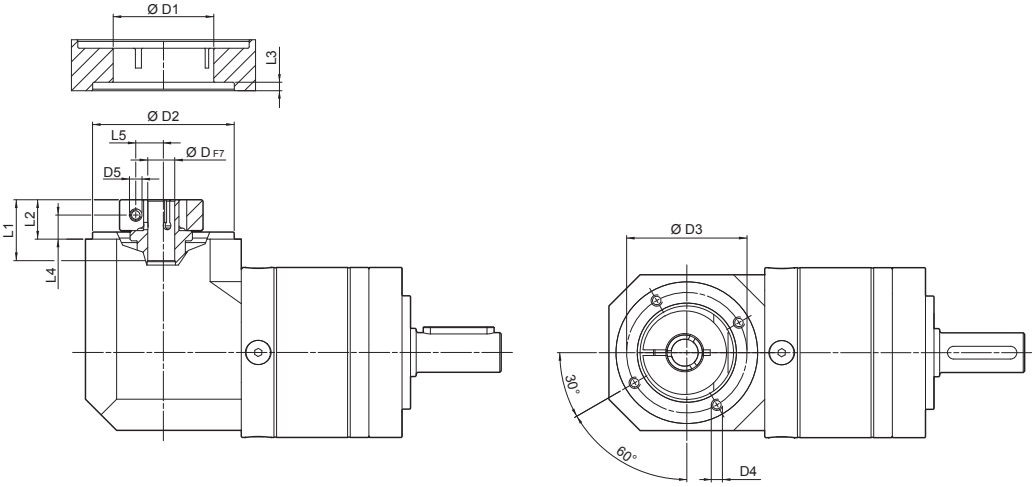

| | Kg |
|---|---|
| **MPEK 060 2** | 1.7 |
| **MPEK 060 3** | 2.2 |

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MPEK 060

**FM**

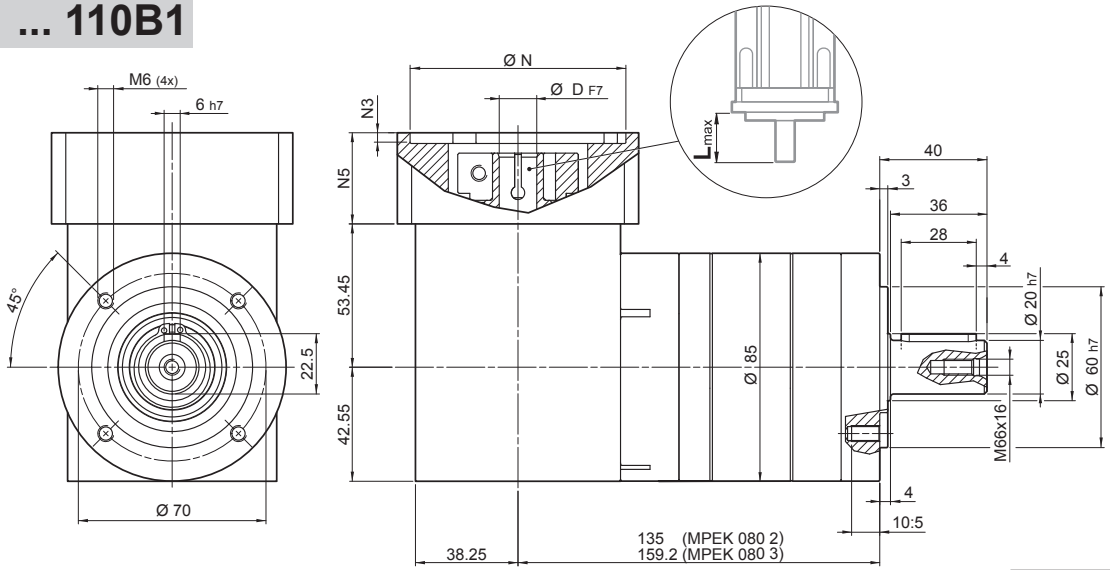



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 8 |
| 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 21.7 | 13.2 | 3 | 8.2 | 9 |
| 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 22 | 13.5 | 3 | 8.5 | 11 |
| 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 17 | 3 | 10.2 | 11.5 |

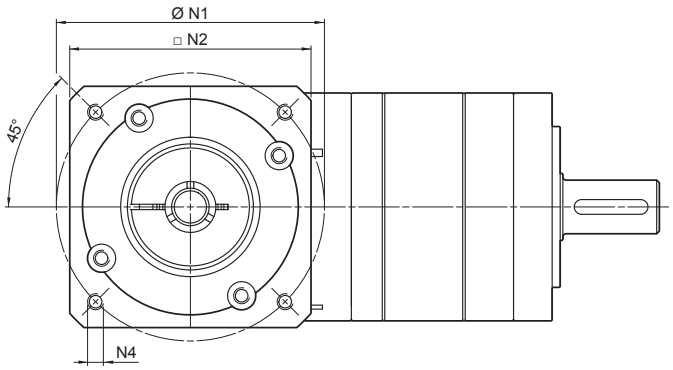
| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [rpm] | $n_{1\,max}$ [rpm] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ $\left[\frac{Nm}{arcmin}\right]$ | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm²] 6 ... 10 | $J_G$ [kgcm²] 11 ... 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPEK 060 2_3** | 29 | 45 | 60 | 3300 | 4000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.20 | 0.25 |
| **MPEK 060 2_4** | 30 | 45 | 70 | 3500 | 5000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.20 | 0,22 |
| **MPEK 060 2_5** | 25 | 40 | 70 | 3500 | 5000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.18 | 0.21 |
| **MPEK 060 2_7** | 25 | 40 | 70 | 4000 | 5000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.18 | 0.20 |
| **MPEK 060 2_10** | 18 | 30 | 60 | 4000 | 6000 | 12' | 7' | 2.5 | 200 | 460 | 600 | 94 | 0.18 | 0.19 |
| **MPEK 060 3_9** | 29 | 55 | 60 | 3300 | 4000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.21 | 0.22 |
| **MPEK 060 3_12** | 29 | 55 | 70 | 3300 | 4000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.20 | 0.23 |
| **MPEK 060 3_15** | 29 | 55 | 70 | 3300 | 4000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.20 | 0.22 |
| **MPEK 060 3_16** | 30 | 45 | 70 | 3500 | 5000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.19 | 0.21 |
| **MPEK 060 3_20** | 30 | 45 | 70 | 3500 | 5000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.18 | 0.20 |
| **MPEK 060 3_25** | 30 | 45 | 70 | 3500 | 5000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.18 | 0.20 |
| **MPEK 060 3_28** | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.18 | 0.20 |
| **MPEK 060 3_30** | 29 | 55 | 60 | 4000 | 6000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.19 | 0.20 |
| **MPEK 060 3_35** | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.19 | 0.20 |
| **MPEK 060 3_40** | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.18 | 0.19 |
| **MPEK 060 3_50** | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.18 | 0.19 |
| **MPEK 060 3_70** | 30 | 45 | 70 | 4000 | 6000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.18 | 0.19 |
| **MPEK 060 3_100** | 18 | 30 | 60 | 4000 | 6000 | 14' | 9' | 2.5 | 200 | 460 | 600 | 91 | 0.18 | 0.19 |

# MPEK 080

## 40B1 ... 110B1




| | Kg |
|---|---|
| **MPEK 080 2** | 4.7 |
| **MPEK 080 3** | 5.4 |

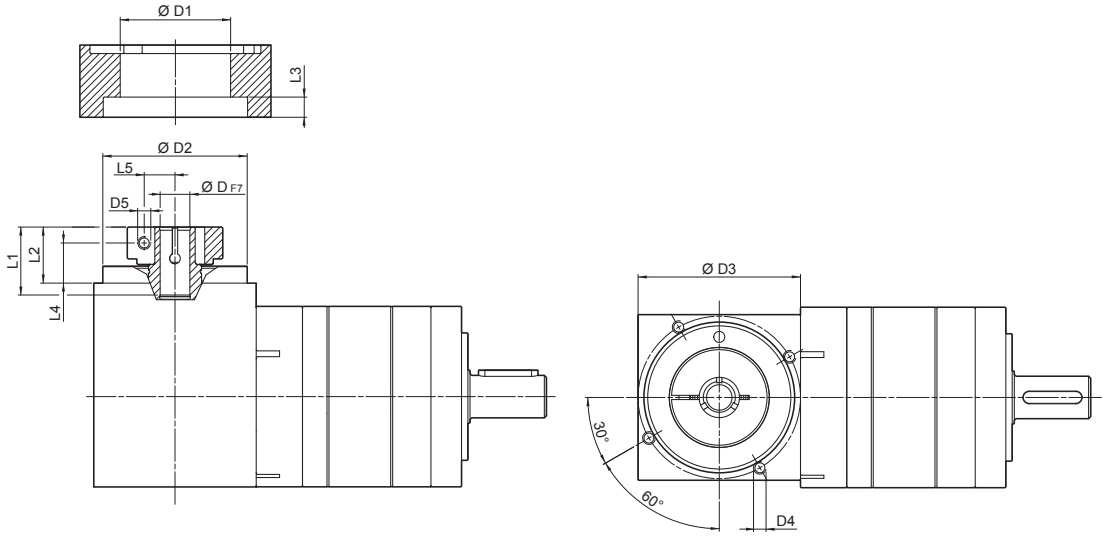



| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x12 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x20 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x20 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 6.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MPEK 080

**FM**

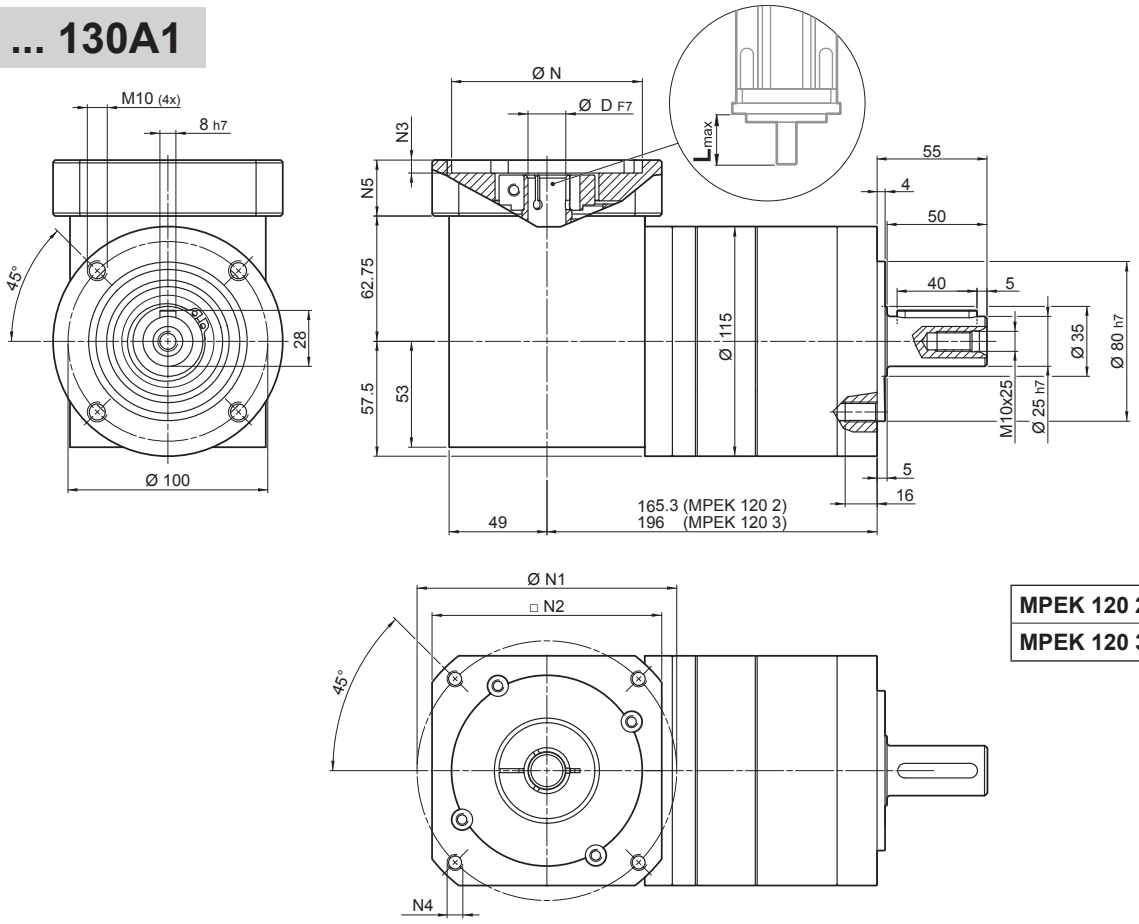



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 10.5 |
| 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 12.5 |
| 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 14.5 |
| 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 34 | 26.8 | 9.5 | 18.8 | 16.5 |

| i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_1$ [rpm] | $n_{1\,max}$ [rpm] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm²] 8 ... 12.7 | $J_G$ [kgcm²] 14 ... 19.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPEK 080 2_3** | 40 | 60 | 150 | 2900 | 3500 | 12' | 7' | 11 | 400 | 900 | 1200 | 94 | 0.67 | 0.79 |
| **MPEK 080 2_4** | 50 | 80 | 160 | 3100 | 4500 | 12' | 7' | 11 | 400 | 900 | 1200 | 94 | 0.62 | 0.75 |
| **MPEK 080 2_5** | 50 | 80 | 160 | 3200 | 4500 | 12' | 7' | 8 | 400 | 900 | 1200 | 94 | 0.61 | 0.74 |
| **MPEK 080 2_7** | 50 | 80 | 160 | 4000 | 6000 | 12' | 7' | 8 | 400 | 900 | 1200 | 94 | 0.58 | 0.73 |
| **MPEK 080 2_10** | 40 | 70 | 150 | 4000 | 6000 | 12' | 7' | 8 | 400 | 900 | 1200 | 94 | 0.60 | 0.72 |
| **MPEK 080 3_9** | 65 | 120 | 150 | 2900 | 3500 | 14' | 9' | 11.5 | 400 | 900 | 1200 | 91 | 0.66 | 0.68 |
| **MPEK 080 3_12** | 65 | 120 | 160 | 3100 | 3500 | 14' | 9' | 11.5 | 400 | 900 | 1200 | 91 | 0.75 | 0.76 |
| **MPEK 080 3_15** | 65 | 120 | 160 | 3200 | 3500 | 14' | 9' | 11.5 | 400 | 900 | 1200 | 91 | 0.74 | 0.75 |
| **MPEK 080 3_16** | 60 | 110 | 160 | 3100 | 4500 | 14' | 9' | 11.5 | 400 | 900 | 1200 | 91 | 0.65 | 0.73 |
| **MPEK 080 3_20** | 60 | 110 | 160 | 3200 | 4500 | 14' | 9' | 11.5 | 400 | 900 | 1200 | 91 | 0.64 | 0.73 |
| **MPEK 080 3_25** | 50 | 100 | 160 | 3200 | 4500 | 14' | 9' | 8.5 | 400 | 900 | 1200 | 91 | 0.64 | 0.77 |
| **MPEK 080 3_28** | 50 | 100 | 160 | 4000 | 6000 | 14' | 9' | 8.5 | 400 | 900 | 1200 | 91 | 0.59 | 0.72 |
| **MPEK 080 3_30** | 65 | 120 | 150 | 4000 | 6000 | 14' | 9' | 11.5 | 400 | 900 | 1200 | 91 | 0.60 | 0.72 |
| **MPEK 080 3_35** | 50 | 100 | 160 | 4000 | 6000 | 14' | 9' | 8.5 | 400 | 900 | 1200 | 91 | 0.60 | 0.72 |
| **MPEK 080 3_40** | 60 | 110 | 160 | 4000 | 6000 | 14' | 9' | 11.5 | 400 | 900 | 1200 | 91 | 0.60 | 0.72 |
| **MPEK 080 3_50** | 50 | 100 | 160 | 4000 | 6000 | 14' | 9' | 8.5 | 400 | 900 | 1200 | 91 | 0.59 | 0.71 |
| **MPEK 080 3_70** | 50 | 100 | 160 | 4000 | 6000 | 14' | 9' | 8.5 | 400 | 900 | 1200 | 91 | 0.59 | 0.71 |
| **MPEK 080 3_100** | 40 | 70 | 150 | 4000 | 6000 | 14' | 9' | 8.5 | 400 | 900 | 1200 | 91 | 0.59 | 0.71 |

# MPEK 120

## 50D ... 130A1



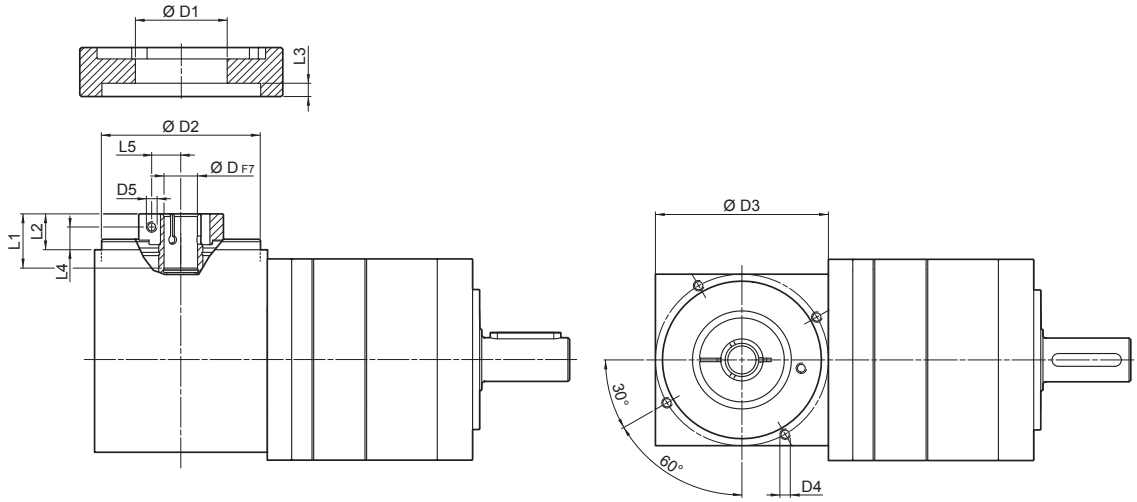

| | Kg |
|---|---|
| **MPEK 120 2** | 7 |
| **MPEK 120 3** | 9.5 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 55 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 6.5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 75 | 100 | 4 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 6.5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 85 | 100 | 4 | 6.5 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 6.5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 80 | 100 | 100 | 4 | 6.5 | 33 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 95 | 115 | 100 | 6.5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 95 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | – | – | 110 | 130 | 115 | 6.5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | – | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | – | – | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 28 | 32 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

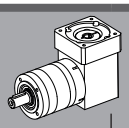
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# MPEK 120

**FM**

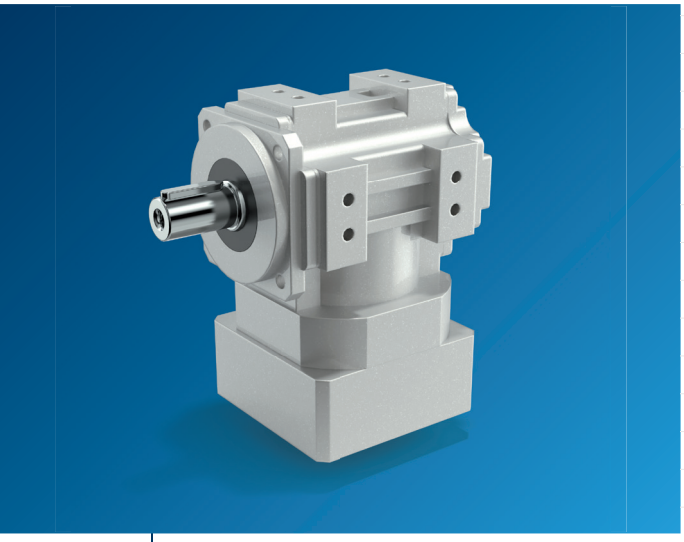



| D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12 | 12.5 |
| 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 33.5 | 20 | 7.6 | 12.5 | 14.5 |
| 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 33.5 | 23 | 7.6 | 12.5 | 16.5 |
| 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 36.5 | 23 | 7.6 | 14 | 19 |
| 28 | | | | 67 | 90 | 98 | M6x15 | M8 | 36.5 | 23 | 7.6 | 14 | 22.5 |
| 32 | | | | 71 | 90 | 98 | M6x15 | M8 | 38 | 24.5 | 7.6 | 15.5 | 24.5 |

|  i | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $n_{1N}$ [rpm] | $n_{1\,max}$ [rpm] | $\varphi_S$ [arcmin] | $\varphi_R$ [arcmin] | $C_t$ [Nm/arcmin] | $R_{1\,max}$ [N] | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $\eta$ % | $J_G$ [kgcm²] 11 ... 12.7 | 14 ... 19 | 22 ; 24 | 28 ; 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPEK 090 2_3** | 80 | 120 | 300 | 3000 | 4000 | 12' | 7' | 23.4 | 600 | 2000 | 2500 | 94 | 1.85 | 1.92 | 2.33 | 3.07 |
| **MPEK 120 2_4** | 105 | 160 | 360 | 3000 | 4500 | 12' | 7' | 23.4 | 600 | 2000 | 2500 | 94 | 1.14 | 1.89 | 1.52 | 2.35 |
| **MPEK 120 2_5** | 130 | 195 | 360 | 3000 | 4500 | 12' | 7' | 20.4 | 600 | 2000 | 2500 | 94 | 1.07 | 1.21 | 1.34 | 2.08 |
| **MPEK 120 2_7** | 125 | 240 | 360 | 3500 | 4500 | 12' | 7' | 20.4 | 600 | 2000 | 2500 | 94 | 0.98 | 1.14 | 1.37 | 2.00 |
| **MPEK 120 2_10** | 100 | 160 | 300 | 3500 | 5000 | 12' | 7' | 20.4 | 600 | 2000 | 2500 | 94 | 0.94 | 1.09 | 1.23 | 1.95 |
| **MPEK 120 3_9** | 155 | 180 | 300 | 3000 | 4000 | 14' | 9' | 23.4 | 600 | 2000 | 2500 | 91 | 1.76 | 1.86 | 2.18 | 2.92 |
| **MPEK 120 3_12** | 155 | 300 | 360 | 3000 | 4000 | 14' | 9' | 23.4 | 600 | 2000 | 2500 | 91 | 1.60 | 1.75 | 2.14 | 2.84 |
| **MPEK 120 3_15** | 155 | 300 | 360 | 3000 | 4000 | 14' | 9' | 23.4 | 600 | 2000 | 2500 | 91 | 1.57 | 1.73 | 2.10 | 2.84 |
| **MPEK 120 3_16** | 155 | 300 | 360 | 3000 | 4500 | 14' | 9' | 23.4 | 600 | 2000 | 2500 | 91 | 1.02 | 1.18 | 1.40 | 2.24 |
| **MPEK 120 3_20** | 155 | 300 | 360 | 3000 | 4500 | 14' | 9' | 23.4 | 600 | 2000 | 2500 | 91 | 1.20 | 1.35 | 1.48 | 2.22 |
| **MPEK 120 3_25** | 125 | 240 | 360 | 3000 | 4500 | 14' | 9' | 20.4 | 600 | 2000 | 2500 | 91 | 1.13 | 1.29 | 1.42 | 2.15 |
| **MPEK 120 3_28** | 125 | 240 | 360 | 3500 | 5000 | 14' | 9' | 23.4 | 600 | 2000 | 2500 | 91 | 0.93 | 1.10 | 1.17 | 1.94 |
| **MPEK 120 3_30** | 155 | 300 | 300 | 3500 | 5000 | 14' | 9' | 23.4 | 600 | 2000 | 2500 | 91 | 0.93 | 1.08 | 1.22 | 2.05 |
| **MPEK 120 3_35** | 125 | 240 | 360 | 3500 | 5000 | 14' | 9' | 20.4 | 600 | 2000 | 2500 | 91 | 1.02 | 1.17 | 1.31 | 1.93 |
| **MPEK 120 3_40** | 155 | 300 | 360 | 3500 | 5000 | 14' | 9' | 23.4 | 600 | 2000 | 2500 | 91 | 0.96 | 1.11 | 1.25 | 1.98 |
| **MPEK 120 3_50** | 125 | 240 | 360 | 3500 | 5000 | 14' | 9' | 20.4 | 600 | 2000 | 2500 | 91 | 0.96 | 1.11 | 1.25 | 1.98 |
| **MPEK 120 3_70** | 125 | 240 | 360 | 3500 | 5000 | 14' | 9' | 20.4 | 600 | 2000 | 2500 | 91 | 0.92 | 1.06 | 1.21 | 1.93 |
| **MPEK 120 3_100** | 100 | 160 | 300 | 3500 | 5000 | 14' | 9' | 20.4 | 600 | 2000 | 2500 | 91 | 0.92 | 1.06 | 1.21 | 1.93 |

# Linea Effective

(E)



## Serie KR

La serie flessibile KR rappresenta un'alternativa per applicazioni che richiedono ingombri ridotti e medi livelli di precisione.
È disponibile in più configurazioni come albero pieno/cavo, estensione dell'albero singola/doppia, versione con calettatore o con flangia.

## Vantaggi principali

- Soluzione per ingombri ridotti
- Gioco ottimizzato
- Ampia varietà di configurazioni
- Cuscinetti rinforzati opzionali

## Caratteristiche principali

- Coppia nominale in uscita (Nm)

10 - 120

- Gioco torsionale (arcmin)

8

- Rigidezza torsionale (Nm)

0,5 - 11

## Grado di protezione

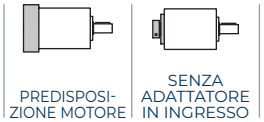
- IP65

## Grandezze

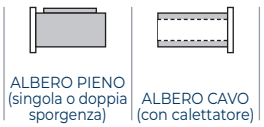
- 10
- 20
- 30
- 40

## Opzioni principali

- Versioni con ingresso




- Versioni alberi di uscita




- Tipo di servizio


- Versioni dei cuscinetti

## *14 CARATTERISTICHE DELLA SERIE KR*

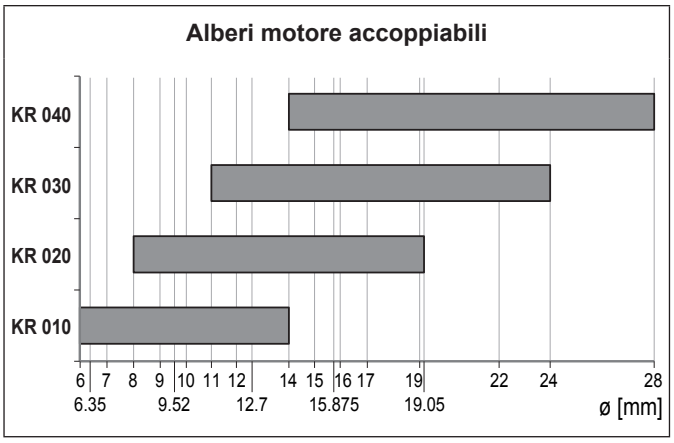
I rinvii angolari della serie KR sono realizzati sotto le più stringenti specifiche di qualità e sono progettati per le applicazioni dinamiche e precise dove il peso e l'ingombro sono fattori determinanti. L'installazione è facilitata dalle molte opzioni offerte dal catalogo per quanto riguarda le flange motore e le numerose e diverse configurazioni per l'albero lento.

- Disponibile in un'unica classe di gioco angolare ($\varphi_S \leq 8'$)
- Rapporti di trasmissione i = 1, 2, 5
- Cuscinetti radiali a sfere (SB) fanno parte della configurazione standard del prodotto, mentre cuscinetti del tipo a rulli conici (HB) possono essere specificati in opzione per applicazioni che richiedono la sopportazione di carichi esterni particolarmente gravosi.
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta con mescola in fluoro-elastomero di fornitura standard
- Livello di rumorosità $L_P \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1$=3000 $min^{-1}$; i=10.
- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

| tipo di servizio | **KR 010 ... KR 040** |
|---|---|
| **S1** (continuo) | Olio sintetico viscosità ISO VG 220 |
| **S5** (intermittente) | NLGI grasso con grado di consistenza 00 |

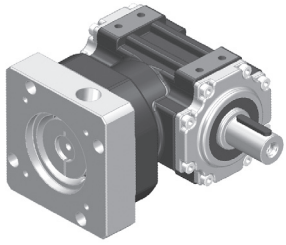
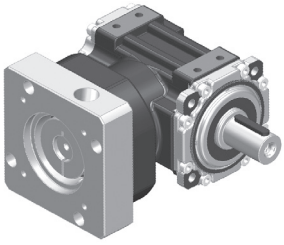
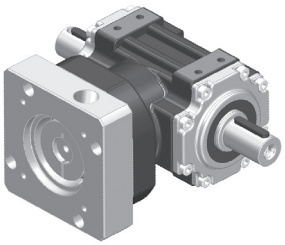
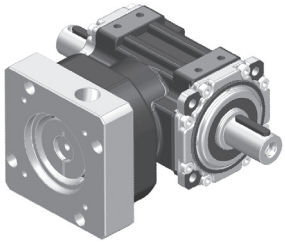
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico $f_T$.
- La temperatura sulla cassa non deve superare $T_{max}$ = 90°C.

| **Distribuzione coppia nominale** | **$M_{n2}$** [Nm] | | |
|---|---|---|---|
| [i] | **1** | **2** | **5** |
| **KR 010** | 10 | 7 | 3 |
| **KR 020** | 24 | 15 | 10 |
| **KR 030** | 55 | 37 | 22 |
| **KR 040** | 120 | 85 | 45 |

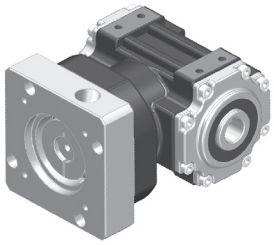
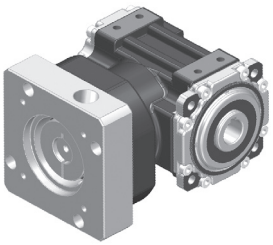
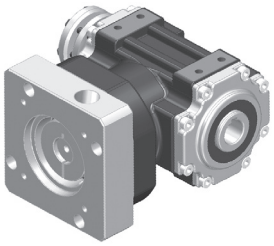
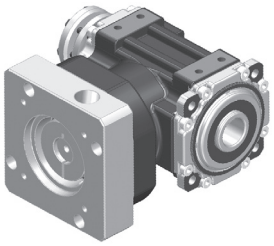


## *14.1 VERSIONI*

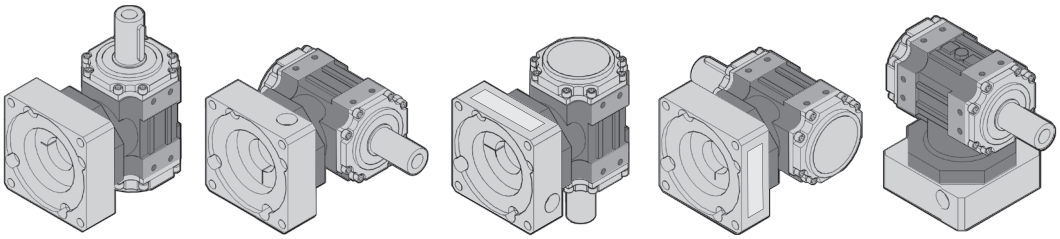
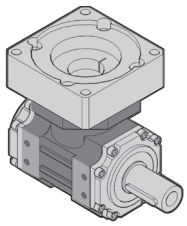
**Albero pieno**

| LP | LPF | LD | LDF |
|---|---|---|---|
|  |  |  |  |
| singola sporgenza | singola sporgenza + flangia | doppia sporgenza | doppia sporgenza + flangia |

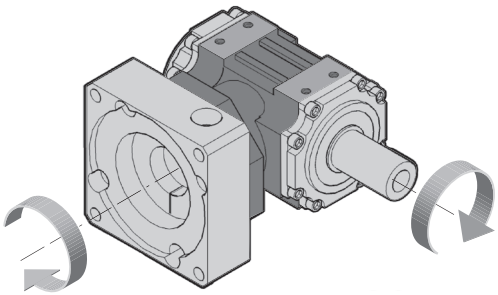
**Albero cavo**

| H | HF | S | SF |
|---|---|---|---|
|  |  |  |  |
| con linguetta (KR 030...KR 040) | con linguetta + flangia (KR 030...KR 040) | con giunto calettatore | con giunto calettatore + flangia |

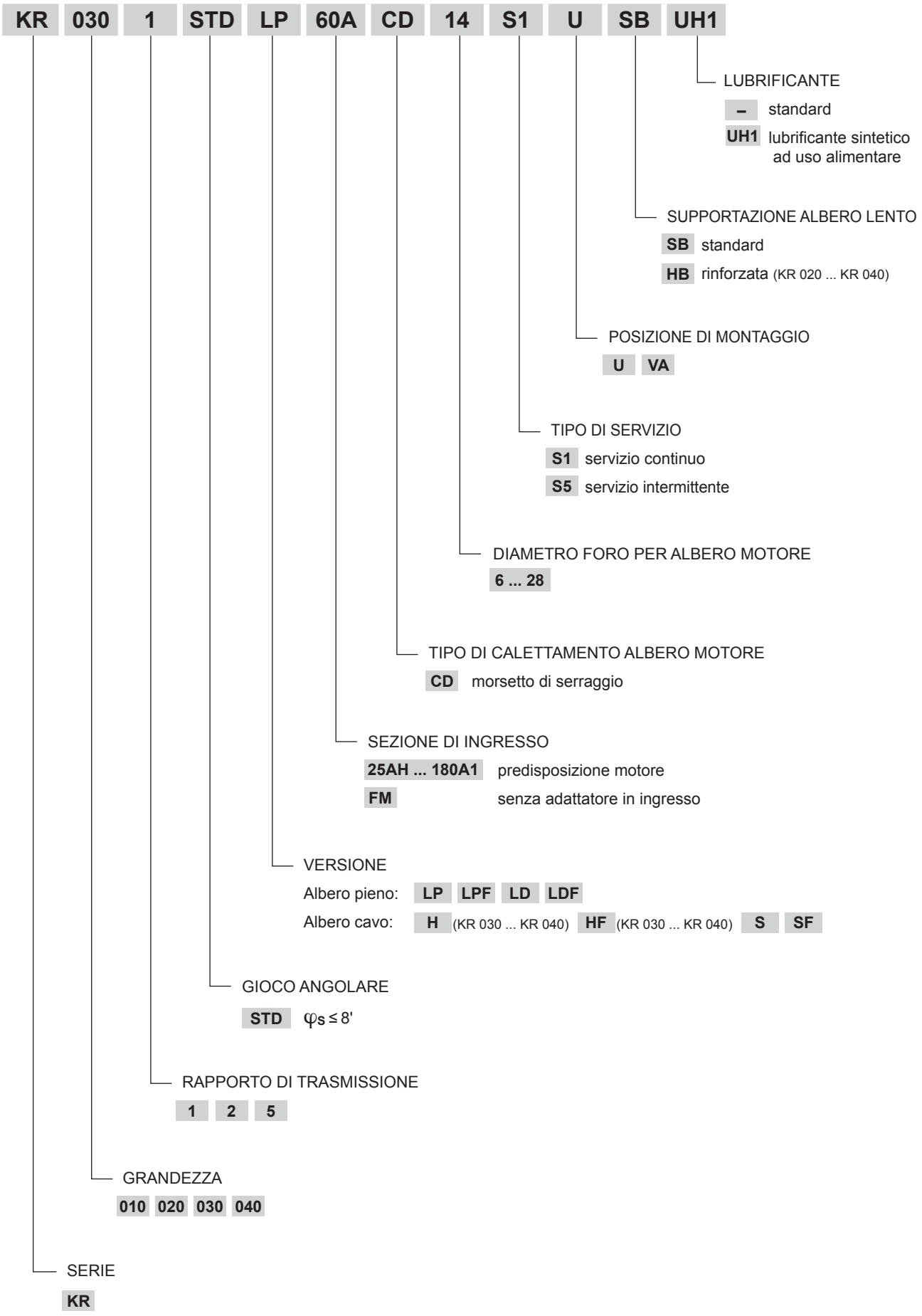
## *14.2 POSIZIONI DI MONTAGGIO*

| U | VA |
|---|---|
|  |  |

## *14.3 ROTAZIONE DEGLI ALBERI D'INGRESSO E DI USCITA CONCORDE*



### *14.4 CODICE ORDINATIVO*



### *14.5 DATI TECNICI*

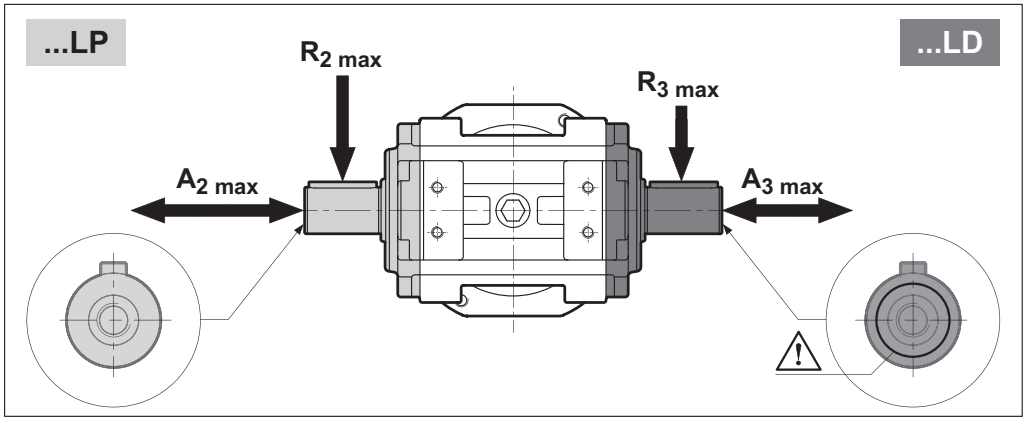
| KR 010 | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $C_t$ [Nm/arcmin] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_s$ [arcmin] | $\eta$ % |
|---|---|---|---|---|---|---|---|---|
| **i = 1** | 10 | 14 | 20 | 0.5 | 2000 | 4000 | 8’ | 97 |
| **i = 2** | 7 | 10 | 15 | 0.4 | 2500 | 5000 | | |
| **i = 5** | 3 | 4 | 6 | 0.2 | 3000 | 5000 | | |

| KR 020 | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $C_t$ [Nm/arcmin] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_s$ [arcmin] | $\eta$ % |
|---|---|---|---|---|---|---|---|---|
| **i = 1** | 24 | 35 | 50 | 1.4 | 2000 | 4000 | 8’ | 97 |
| **i = 2** | 15 | 21 | 30 | 1.1 | 2500 | 5000 | | |
| **i = 5** | 10 | 13 | 20 | 0.7 | 3000 | 5000 | | |

| KR 030 | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $C_t$ [Nm/arcmin] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_s$ [arcmin] | $\eta$ % |
|---|---|---|---|---|---|---|---|---|
| **i = 1** | 55 | 75 | 110 | 4 | 1500 | 3500 | 8’ | 97 |
| **i = 2** | 37 | 52 | 75 | 3 | 2000 | 4500 | | |
| **i = 5** | 22 | 29 | 45 | 2 | 2800 | 4500 | | |

| KR 040 | $M_{n\,2}$ [Nm] | $M_{a\,2}$ [Nm] | $M_{p\,2}$ [Nm] | $C_t$ [Nm/arcmin] | $n_1$ [min$^{-1}$] | $n_{1\,max}$ [min$^{-1}$] | $\varphi_s$ [arcmin] | $\eta$ % |
|---|---|---|---|---|---|---|---|---|
| **i = 1** | 120 | 170 | 240 | 11 | 1500 | 3500 | 8’ | 97 |
| **i = 2** | 85 | 120 | 170 | 9 | 2000 | 4500 | | |
| **i = 5** | 45 | 60 | 90 | 5 | 2500 | 4500 | | |

I valori di rigidezza torsionale si riferiscono alla versione LP

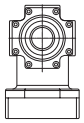


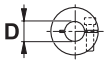

| | | $R_{2\,max}$ [N] | $A_{2\,max}$ [N] | $A_2'_{max}$ [N] | $R_{3\,max}$ [N] | $A_{3\,max}$ [N] | $A_3'_{max}$ [N] |
|---|---|---|---|---|---|---|---|
| **KR 010** | **SB** | 1000 | — | 200 | 500 | — | 100 |
| **KR 020** | **SB** | 1500 | — | 300 | 750 | — | 150 |
| | **HB** | 3000 | 1500 | 600 | 3000 | 1500 | 600 |
| **KR 030** | **SB** | 2000 | — | 400 | 1000 | — | 200 |
| | **HB** | 4000 | 2000 | 800 | 4000 | 2000 | 800 |
| **KR 040** | **SB** | 3000 | — | 600 | 1500 | — | 300 |
| | **HB** | 5500 | 2750 | 1100 | 5500 | 2750 | 1100 |

### 14.6 MOMENTO D'INERZIA

### 14.6.1 KR 010...KR 040 con cuscinetti standard a sfere - SB

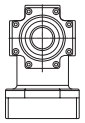
**KR 010**

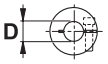





| | SB | $J_G$ [kgcm$^2$] 6 ≤ D ≤ 9.52 | $J_G$ [kgcm$^2$] 10 ≤ D ≤ 14 |
|---|---|---|---|
| i = 1 | S, SF | 0.52 | 0.52 |
| | LP, LPF | 0.38 | 0.38 |
| | LD, LDF | 0.39 | 0.39 |
| i = 2 | S, SF | 0.27 | 0.29 |
| | LP, LPF | 0.24 | 0.25 |
| | LD, LDF | 0.24 | 0.25 |
| i = 5 | S, SF | 0.20 | 0.21 |
| | LP, LPF | 0.19 | 0.21 |
| | LD, LDF | 0.19 | 0.21 |

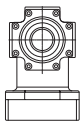
**KR 020**

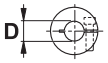





| | SB | $J_G$ [kgcm$^2$] 8 ≤ D ≤ 12.7 | $J_G$ [kgcm$^2$] 14 ≤ D ≤ 19.05 |
|---|---|---|---|
| i = 1 | S, SF | 1.61 | 1.80 |
| | LP, LPF | 1.34 | 1.52 |
| | LD, LDF | 1.37 | 1.55 |
| i = 2 | S, SF | 0.86 | 1.05 |
| | LP, LPF | 0.80 | 0.98 |
| | LD, LDF | 0.80 | 0.99 |
| i = 5 | S, SF | 0.66 | 0.84 |
| | LP, LPF | 0.64 | 0.83 |
| | LD, LDF | 0.65 | 0.83 |

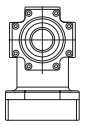
**KR 030**

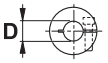





| | SB | $J_G$ [kgcm$^2$] 11 ≤ D ≤ 12.7 | $J_G$ [kgcm$^2$] 14 ≤ D ≤ 19 | $J_G$ [kgcm$^2$] 22 ≤ D ≤ 24 |
|---|---|---|---|---|
| i = 1 | H, HF | 4.37 | 4.45 | 4.64 |
| | S, SF | 5.00 | 5.08 | 5.27 |
| | LP, LPF | 4.70 | 4.78 | 4.97 |
| | LD, LDF | 4.63 | 4.71 | 4.90 |
| i = 2 | H, HF | 2.04 | 2.12 | 2.31 |
| | S, SF | 2.20 | 2.28 | 2.47 |
| | LP, LPF | 2.12 | 2.20 | 2.39 |
| | LD, LDF | 2.11 | 2.19 | 2.37 |
| i = 5 | H, HF | 1.47 | 1.55 | 1.74 |
| | S, SF | 1.50 | 1.57 | 1.76 |
| | LP, LPF | 1.48 | 1.56 | 1.75 |
| | LD, LDF | 1.48 | 1.56 | 1.75 |

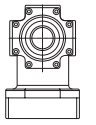
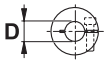
**KR 040**

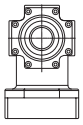
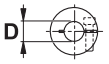


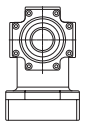
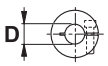



| | SB | $J_G$ [kgcm$^2$] 14 ≤ D ≤ 19 | $J_G$ [kgcm$^2$] 22 ≤ D ≤ 24 | $J_G$ [kgcm$^2$] D = 28 |
|---|---|---|---|---|
| i = 1 | H, HF | 17.19 | 17.37 | 17.77 |
| | S, SF | 20.46 | 20.65 | 21.05 |
| | LP, LPF | 18.21 | 18.40 | 18.80 |
| | LD, LDF | 18.90 | 19.08 | 19.48 |
| i = 2 | H, HF | 4.47 | 4.65 | 5.06 |
| | S, SF | 5.29 | 5.47 | 5.87 |
| | LP, LPF | 4.73 | 4.91 | 5.31 |
| | LD, LDF | 4.90 | 5.08 | 5.48 |
| i = 5 | H, HF | 5.23 | 5.42 | 5.82 |
| | S, SF | 5.36 | 5.55 | 5.95 |
| | LP, LPF | 5.27 | 5.46 | 5.86 |
| | LD, LDF | 5.30 | 5.49 | 5.89 |

### *14.6.2 KR 020...KR 040 con cuscinetti a rulli conici - HB*

| KR 020 | | | |
|---|---|---|---|
| | | $J_G$ [kgcm$^2$] | |
| |  |  | |
| | HB  | 8 ≤ D ≤ 12.7 | 14 ≤ D ≤ 19.05 |
| i = 1 | S, SF | 1.87 | 2.06 |
| | LP, LPF | 1.60 | 1.78 |
| | LD, LDF | 1.62 | 1.81 |
| i = 2 | S, SF | 0.93 | 1.12 |
| | LP, LPF | 0.86 | 1.05 |
| | LD, LDF | 0.87 | 1.05 |
| i = 5 | S, SF | 0.67 | 0.85 |
| | LP, LPF | 0.66 | 0.84 |
| | LD, LDF | 0.66 | 0.84 |

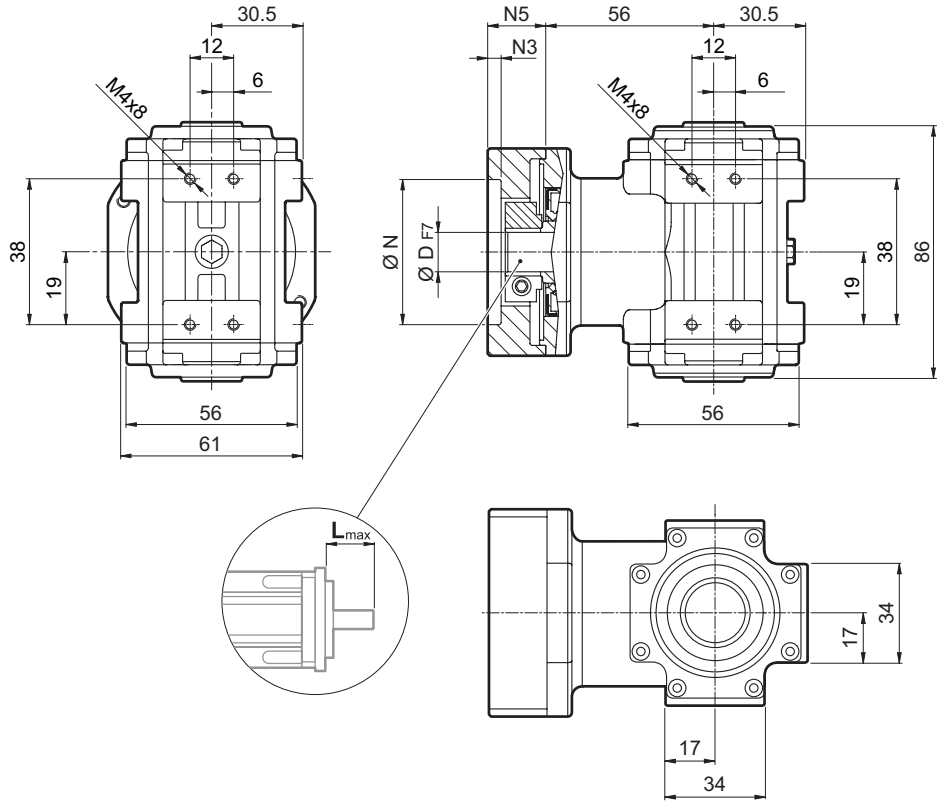
| KR 030 | | | | |
|---|---|---|---|---|
| | | $J_G$ [kgcm$^2$] | | |
| |  |  | | |
| | HB  | 11 ≤ D ≤ 12.7 | 14 ≤ D ≤ 19 | 22 ≤ D ≤ 24 |
| i = 1 | H, HF | 5.48 | 5.56 | 5.75 |
| | S, SF | 6.11 | 6.19 | 6.38 |
| | LP, LPF | 5.81 | 5.89 | 6.08 |
| | LD, LDF | 5.74 | 5.82 | 6.01 |
| i = 2 | H, HF | 2.92 | 3.00 | 3.19 |
| | S, SF | 3.08 | 3.16 | 3.35 |
| | LP, LPF | 3.01 | 3.09 | 3.27 |
| | LD, LDF | 2.99 | 3.07 | 3.26 |
| i = 5 | H, HF | 1.51 | 1.59 | 1.78 |
| | S, SF | 1.54 | 1.62 | 1.81 |
| | LP, LPF | 1.53 | 1.61 | 1.80 |
| | LD, LDF | 1.53 | 1.60 | 1.79 |

| KR 040 | | | | |
|---|---|---|---|---|
| | | $J_G$ [kgcm$^2$] | | |
| |  |  | | |
| | HB  | 14 ≤ D ≤ 19 | 22 ≤ D ≤ 24 | D = 28 |
| i = 1 | H, HF | 18.82 | 19.01 | 19.41 |
| | S, SF | 22.10 | 22.28 | 22.69 |
| | LP, LPF | 19.85 | 20.04 | 20.44 |
| | LD, LDF | 20.53 | 20.72 | 21.12 |
| i = 2 | H, HF | 4.88 | 5.06 | 5.47 |
| | S, SF | 5.70 | 6.28 | 6.28 |
| | LP, LPF | 5.13 | 5.72 | 5.72 |
| | LD, LDF | 5.31 | 5.89 | 5.89 |
| i = 5 | H, HF | 5.30 | 5.48 | 5.89 |
| | S, SF | 5.43 | 6.02 | 6.02 |
| | LP, LPF | 5.34 | 5.93 | 5.93 |
| | LD, LDF | 5.37 | 5.95 | 5.95 |

*14.7 DIMENSIONI*

# KR 010

## 25AH ... 80A



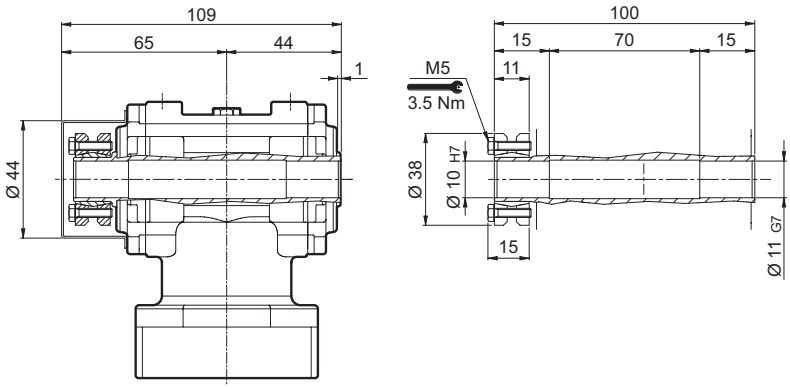

| | Kg |
|---|---|
| **KR 010** | 1.2 |

| | D | | | | | | | | | | | N | N1 | | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | min | max | | | | | |
| **25AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 25 | 39 | 56 | | | | | |
| **26AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 26 | 39 | 56 | | | | | |
| **28AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 28 | 39 | 56 | | | | | |
| **30AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 30 | 39 | 56 | | | | | |
| **32AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 32 | 39 | 56 | 65 | 3.5 | 4.5 | 25 | 25 |
| **34AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 34 | 40 | 56 | | | | | |
| **36AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 36 | 42 | 56 | | | | | |
| **39AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 39 | 45 | 56 | | | | | |
| **40AH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | – | – | – | – | – | 40 | 46 | 56 | | | | | |
| **38B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 38.1 | 66.6 | | 60 | 3 | M4x10 | 18 | 25 |
| **40B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 40 | 63 | | 60 | 3 | M4x10 | 18 | 25 |
| **50A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 50 | 60 | | 60 | 3 | M4x10 | 18 | 25 |
| **50B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 60 | 3 | M5x12 | 23 | 30 |
| **50BH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 65 | | 65 | 3 | 5.5 | 25 | 32 |
| **50C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 50 | 70 | | 60 | 3 | M4x10 | 23 | 30 |
| **55MH** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 55 | 80 | | 65 | 2 | 5.5 | 16 | 23 |
| **60A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | – | 60 | 75 | | 65 | 3 | M5x12 | 18 | 25 |
| **60A1** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 75 | | 65 | 3 | M5x12 | 23 | 30 |
| **60B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 85 | | 75 | 3 | M5x12 | 23 | 30 |
| **60C** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 60 | 90 | | 75 | 3 | M5x12 | 23 | 30 |
| **70A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 85 | | 75 | 3 | M6x15 | 23 | 30 |
| **70B** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 70 | 90 | | 75 | 5 | M5x12 | 23 | 30 |
| **73A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 73 | 98.4 | | 85 | 3 | M5x12 | 25 | 32 |
| **80A** | 6 | 6.35 | 7 | 8 | 9 | 9.52 | 10 | 11 | 12 | 12.7 | 14 | 80 | 100 | | 85 | 3 | M6x15 | 23 | 30 |

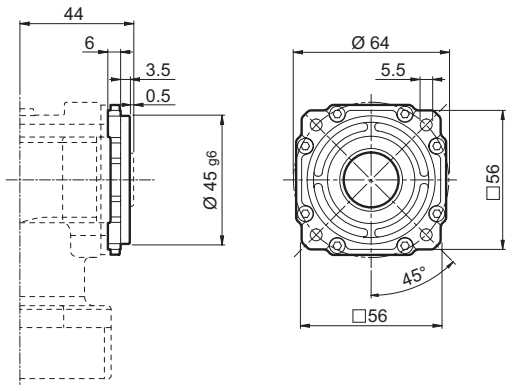
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# KR 010

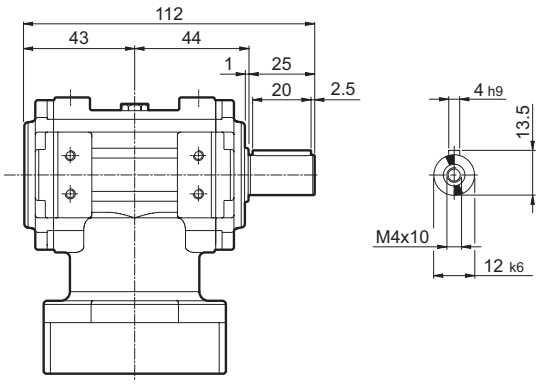
## KR 010... S



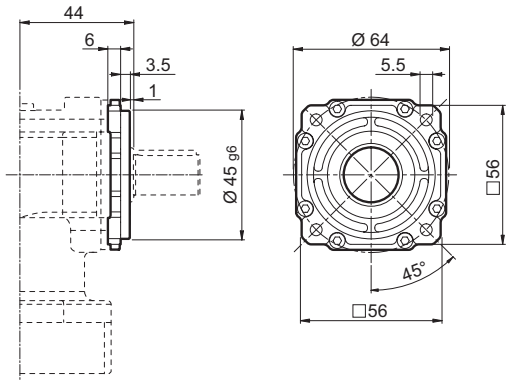

## KR 010... SF



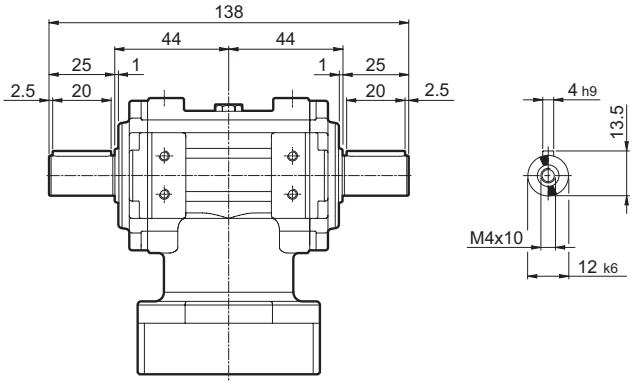

## KR 010... LP



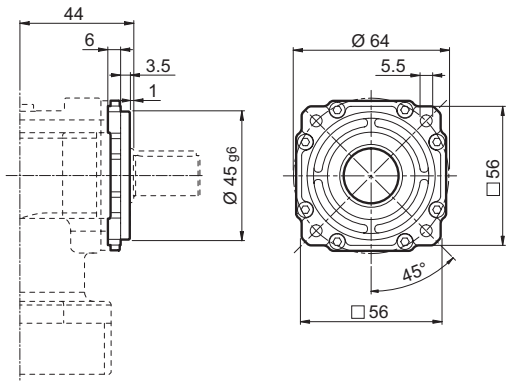

## KR 010... LPF




## KR 010... LD

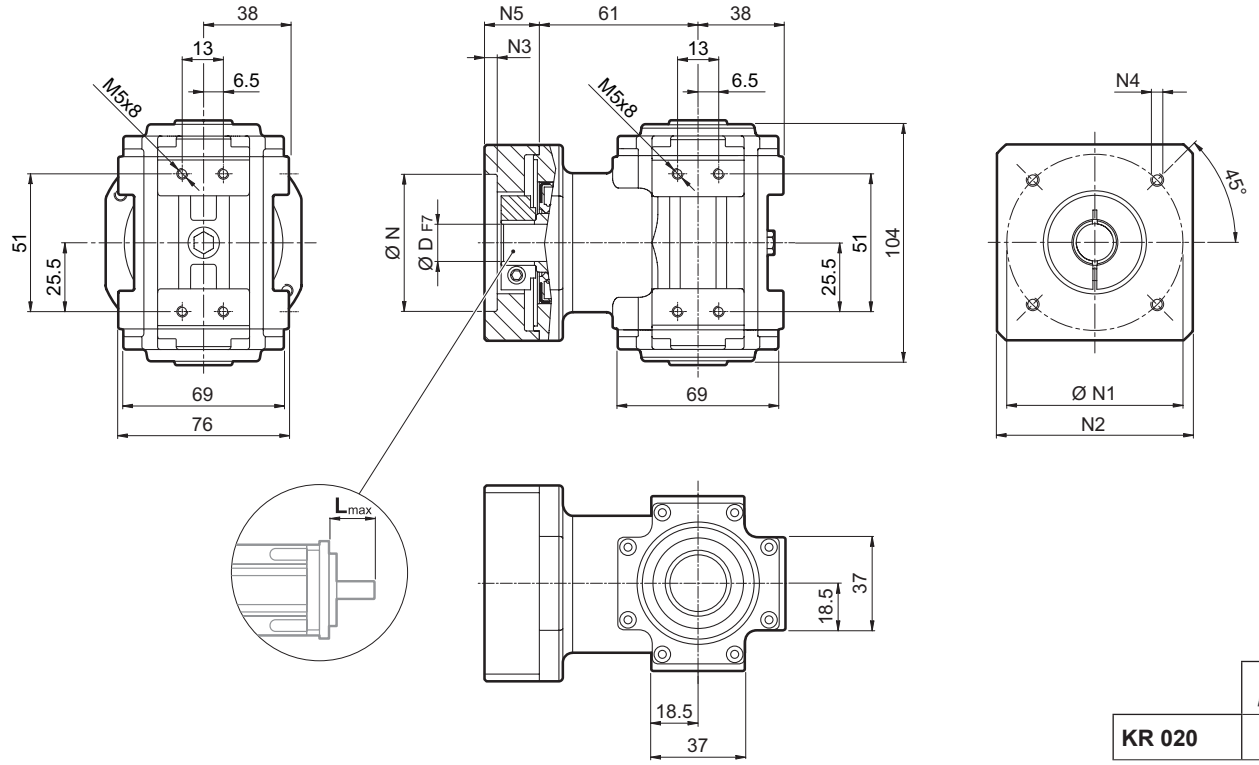



## KR 010... LDF



# KR 020

## 40B1 ... 110B1



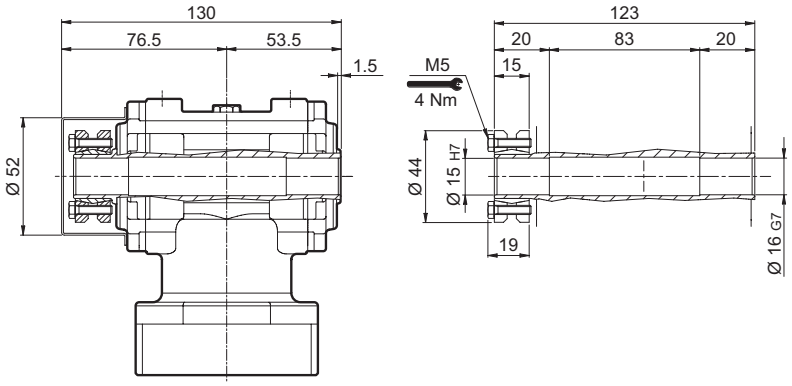

| | Kg |
|---|---|
| **KR 020** | 2.6 |

| | D | | | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 40 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **45A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | – | – | – | – | – | – | 45 | 63 | 80 | 4 | M4x10 | 34 | 40 |
| **50B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | M5x16 | 34 | 40 |
| **50BH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 65 | 80 | 4 | 5.5 | 34 | 40 |
| **50C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 70 | 80 | 4 | M4x10 | 34 | 40 |
| **50D** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 50 | 95 | 80 | 4 | M6x10 | 34 | 40 |
| **55A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 55.5 | 125.7 | 105 | 4 | M6x16 | 34 | 40 |
| **60A2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 80 | 4 | M5x16 | 34 | 40 |
| **60AH2** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 60 | 75 | 90 | 4 | 5.5 | 34 | 40 |
| **60B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 85 | 80 | 4 | M5x16 | 34 | 40 |
| **60C1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | – | – | – | 60 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **70A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 80 | 4 | M6x20 | 34 | 40 |
| **70AH1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 85 | 90 | 4 | 6.5 | 34 | 40 |
| **70B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 70 | 90 | 80 | 4 | M5x16 | 34 | 40 |
| **73A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | – | – | – | – | – | 73 | 98.4 | 85 | 4 | M5x16 | 34 | 40 |
| **80A1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 80 | 100 | 90 | 4 | M6x16 | 34 | 40 |
| **95A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 115 | 100 | 4 | M8x20 | 34 | 40 |
| **95B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 95 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110A** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 130 | 115 | 4 | M8x20 | 34 | 40 |
| **110B** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 44 | 50 |
| **110B1** | 8 | 9 | 9.52 | 11 | 12 | 12.7 | 14 | 15.875 | 16 | 17 | 19 | 19.05 | 110 | 145 | 120 | 6.5 | M8x20 | 54 | 60 |

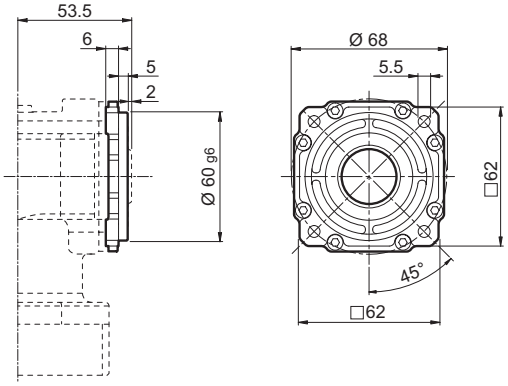
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# KR 020

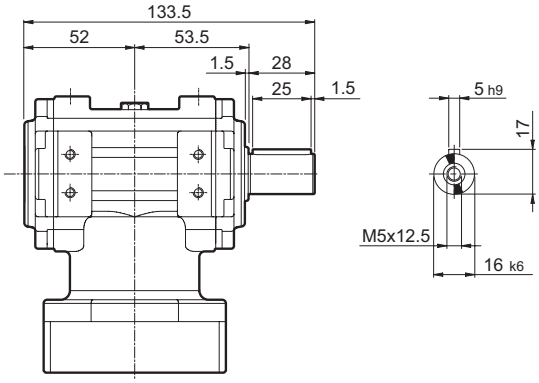
## KR 020... S



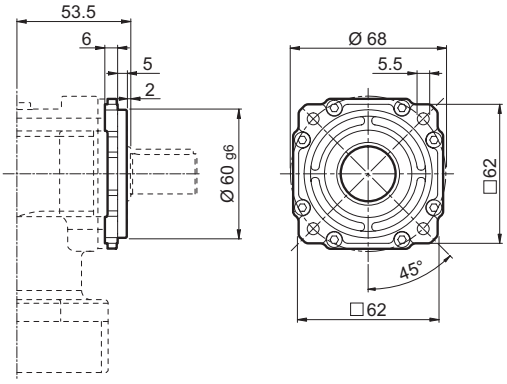

## KR 020... SF



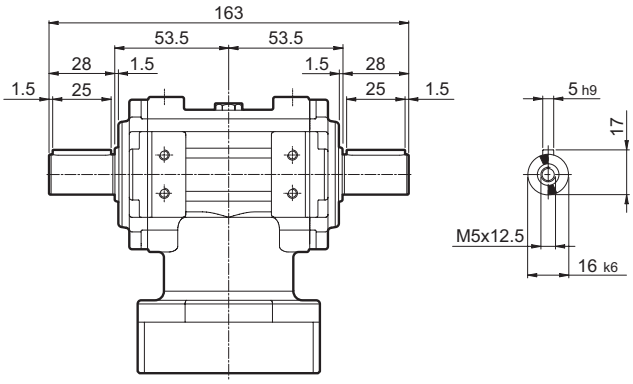

## KR 020... LP



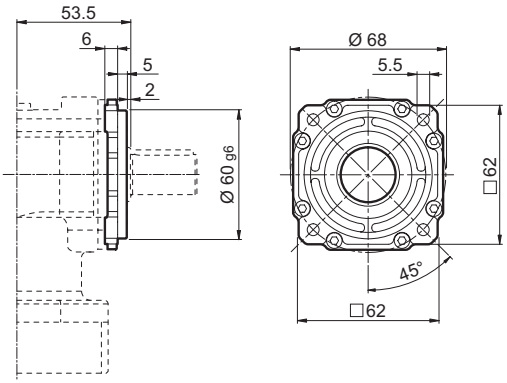

## KR 020... LPF




## KR 020... LD

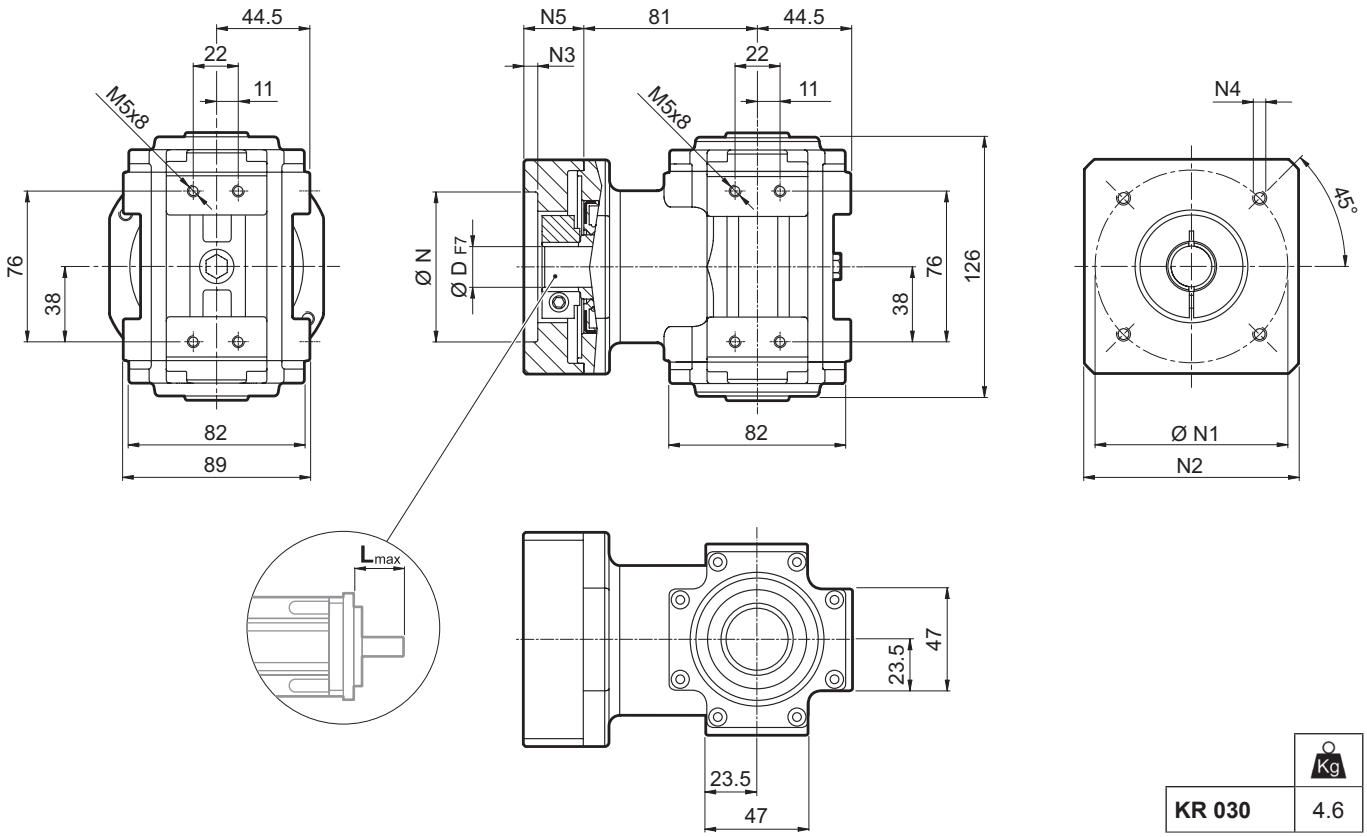



## KR 020... LDF



# KR 030

## 50D ... 130A1



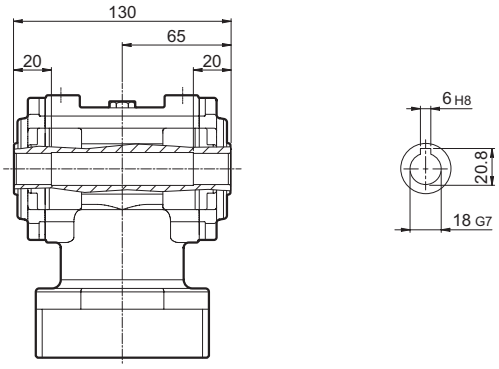

| | Kg |
|---|---|
| **KR 030** | 4.6 |

| | D | | | | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50D** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 50 | 95 | 100 | 5 | M6x14 | 28 | 40 |
| **55A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 55.5 | 125.7 | 105 | 5 | M6x16 | 28 | 40 |
| **60A2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 75 | 100 | 5 | M5x14 | 28 | 40 |
| **60AH2** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 75 | 100 | 5 | 6.5 | 33 | 40 |
| **60B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 60 | 85 | 100 | 6.5 | M5x14 | 28 | 40 |
| **70A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 85 | 100 | 5 | M6x14 | 28 | 40 |
| **70AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 85 | 100 | 5 | 6 | 33 | 40 |
| **70B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 70 | 90 | 100 | 6.5 | M5x12 | 28 | 40 |
| **80A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 80 | 100 | 100 | 5 | M6x16 | 28 | 40 |
| **80AH1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 80 | 100 | 100 | 5 | 6.5 | 28 | 40 |
| **95A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 95 | 115 | 100 | 5 | M8x18 | 28 | 40 |
| **95A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 95 | 115 | 100 | 5 | M8x18 | 38 | 50 |
| **95B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 95 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | – | – | 110 | 130 | 115 | 5 | M8x18 | 28 | 40 |
| **110A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 130 | 115 | 6.5 | M8x20 | 38 | 50 |
| **110B** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 38 | 50 |
| **110B1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 110 | 145 | 120 | 6.5 | M8x20 | 48 | 60 |
| **130A** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 130 | 165 | 140 | 6.5 | M10x20 | 38 | 50 |
| **130A1** | 11 | 12 | 12.7 | 14 | 15 | 15.875 | 16 | 19 | 22 | 24 | 130 | 165 | 140 | 6.5 | M10x25 | 48 | 60 |

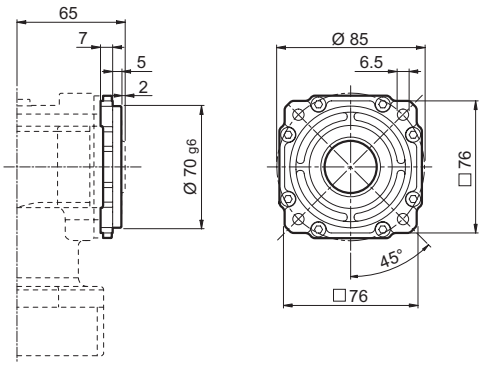
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# KR 030

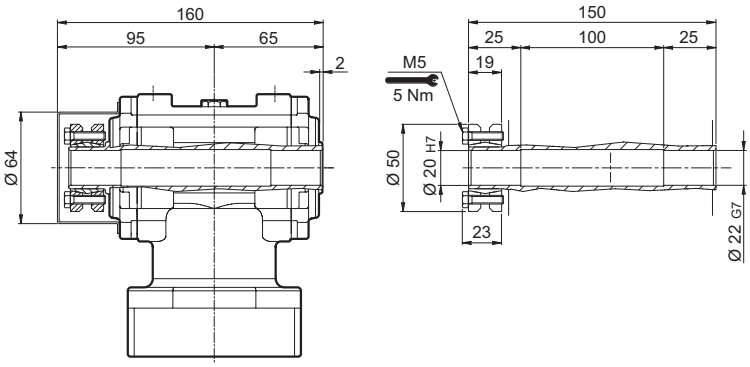
## KR 030... H



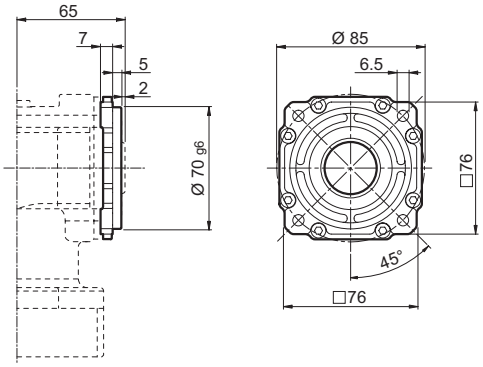

## KR 030... HF



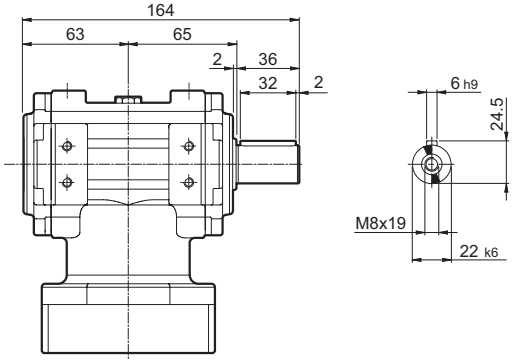

## KR 030... S



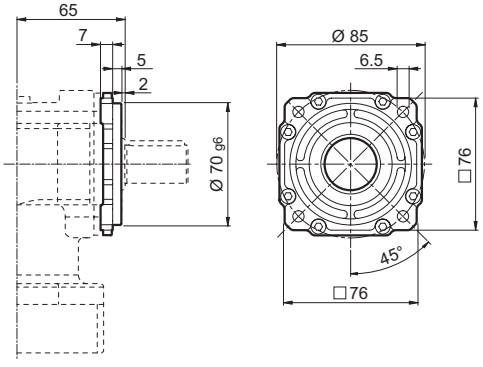

## KR 030... SF



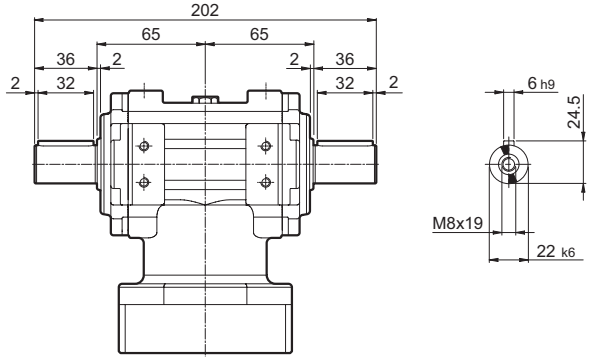

## KR 030... LP



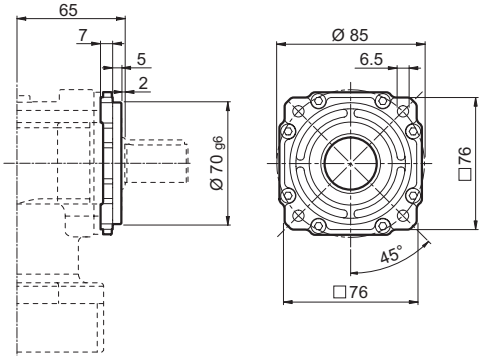

## KR 030... LPF




## KR 030... LD

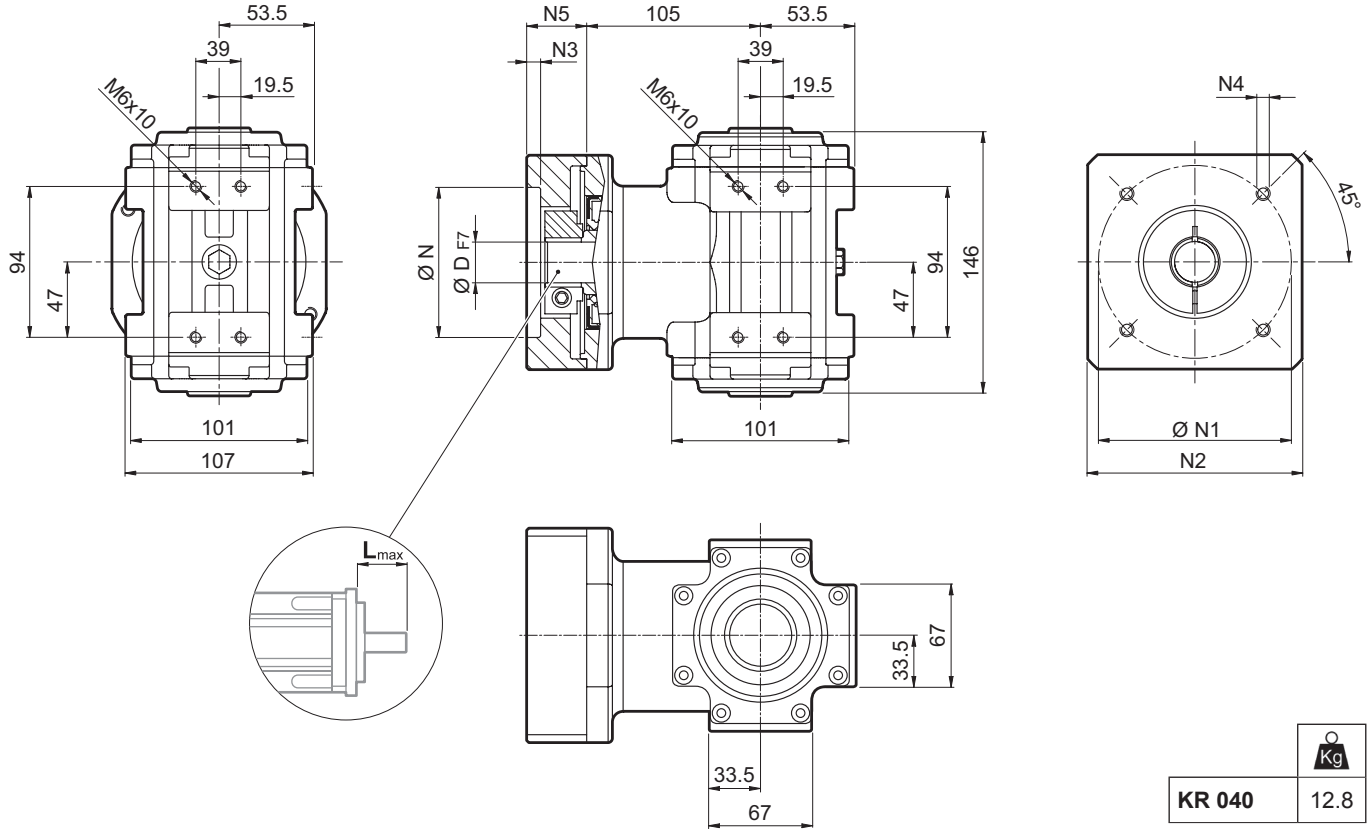



## KR 030... LDF



# KR 040

## 55A1 ... 180A1



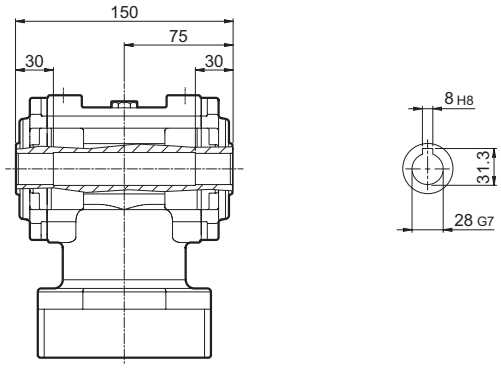

| | Kg |
|---|---|
| **KR 040** | 12.8 |

| | D | | | | | | | N | N1 | N2 | N3 | N4 | N5 | $L_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **55A1** | 14 | 15.875 | 16 | 19 | – | – | – | 55.5 | 125.7 | 130 | 4 | M6x15 | 39.5 | 50 |
| **80A2** | 14 | 15.875 | 16 | 19 | – | – | – | 80 | 100 | 130 | 4 | M6x15 | 39.5 | 50 |
| **95A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 95 | 115 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 110 | 130 | 130 | 4 | M8x20 | 39.5 | 50 |
| **110B1** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 110 | 145 | 130 | 6.5 | M8x20 | 49.5 | 60 |
| **114A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 114.3 | 200 | 170 | 5.5 | M12x25 | 69.5 | 80 |
| **130A** | 14 | 15.875 | 16 | 19 | 22 | 24 | – | 130 | 165 | 140 | 4 | M10x20 | 39.5 | 50 |
| **130A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 130 | 165 | 140 | 4 | M10x20 | 49.5 | 60 |
| **180A** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 180 | 215 | 190 | 5.5 | M14x25 | 49.5 | 60 |
| **180A1** | 14 | 15.875 | 16 | 19 | 22 | 24 | 28 | 180 | 215 | 190 | 5.5 | M14x25 | 69.5 | 80 |

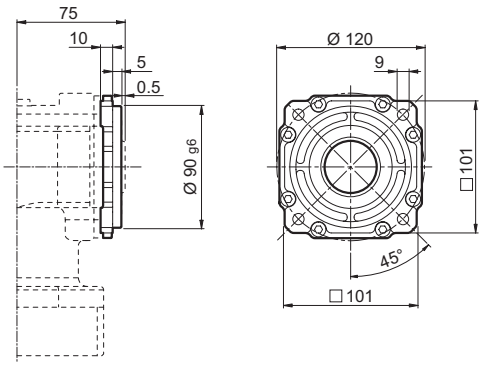
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

# KR 040

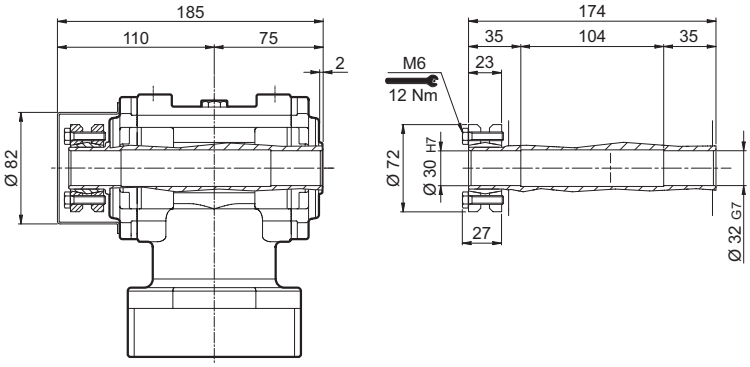
## KR 040... H



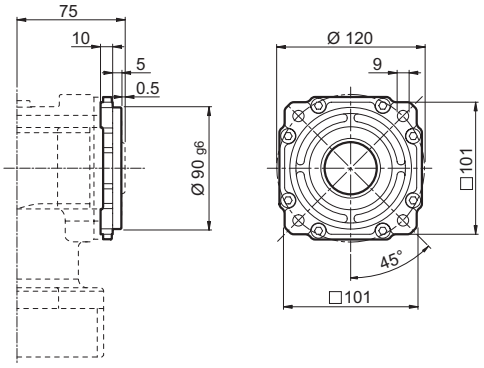

## KR 040... HF



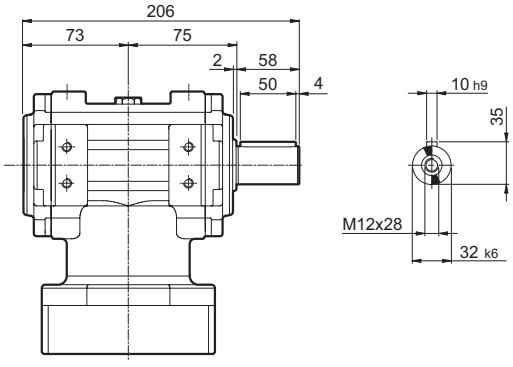

## KR 040... S



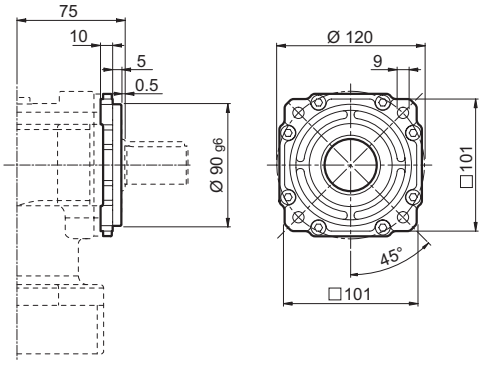

## KR 040... SF



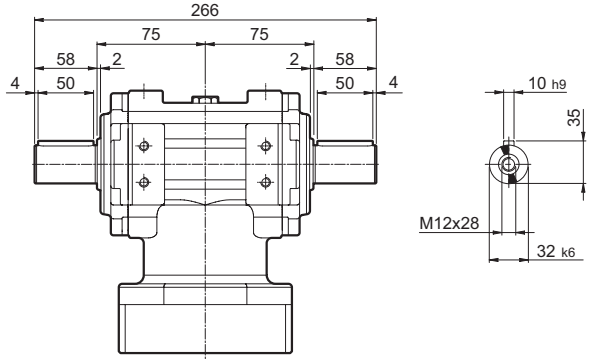

## KR 040... LP



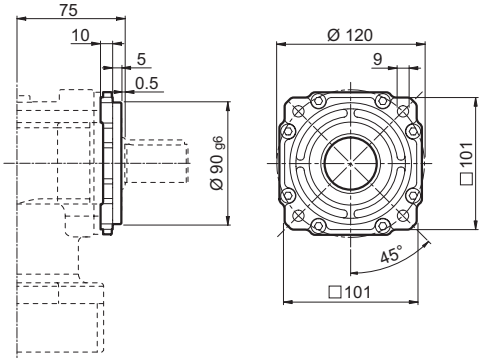

## KR 040... LPF




## KR 040... LD

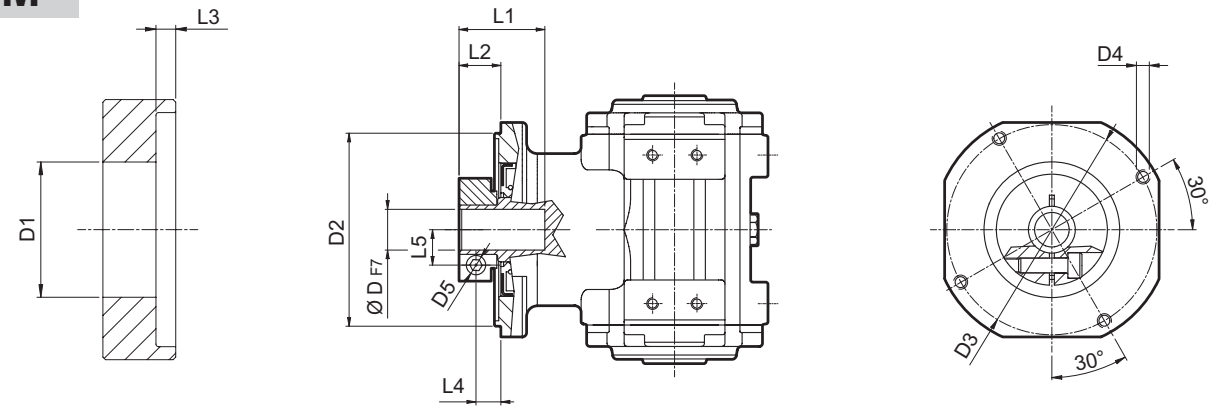



## KR 040... LDF



### *14.7.1 RIDUTTORE PRIVO DI FLANGIA MOTORE*

## FM

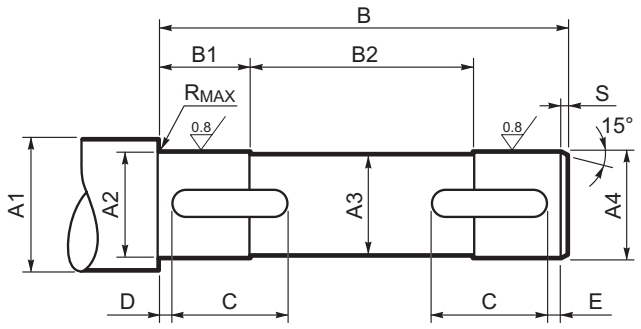


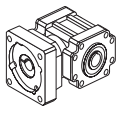

| | D | | | | D1 | D2 | D3 | D4 | D5 | L1 | L2 | L3 | L4 | L5 | Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **KR 010** | 6 | 6.35 | 7 | | 32.5 | 50 | 42.5 | M4x8 | M4 | 28 | 13.5 | 3 | 8.5 | 8 | 1.0 |
| | 8 | 9 | 9.52 | 10 | 32.5 | 50 | 42.5 | M4x8 | M4 | 28 | 13.5 | 3 | 8.5 | 9 | |
| | 11 | 12 | 12.7 | | 35.5 | 50 | 42.5 | M4x8 | M4 | 23 | 13.5 | 3 | 8.5 | 11 | |
| | 14 | | | | 35.5 | 50 | 42.5 | M4x8 | M4 | 25 | 15.5 | 3 | 8.9 | 11.5 | |
| **KR 020** | 8 | 9 | 9.52 | | 38 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 10.5 | 2.0 |
| | 11 | 12 | 12.7 | | 43 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 12.5 | |
| | 14 | 15.875 | 16 | 17 | 48 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 14.5 | |
| | 19 | 19.05 | | | 51 | 68 | 76.5 | M6x10 | M6 | 36.3 | 26.3 | 9.5 | 18.8 | 16.5 | |
| **KR 030** | 11 | 12 | 12.7 | | 43 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 12.5 | 3.5 |
| | 14 | 15 | 15.875 | 16 | 48 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 14.5 | |
| | 19 | | | | 51 | 90 | 98 | M6x15 | M6 | 35 | 19.5 | 7.6 | 12.1 | 16.5 | |
| | 22 | 24 | | | 56.5 | 90 | 98 | M6x15 | M6 | 37 | 21.5 | 7.6 | 12.1 | 19 | |
| **KR 040** | 14 | 15.875 | 16 | | 48 | 113 | 125.5 | M8x15 | M6 | 46 | 27.5 | 6 | 20 | 14.5 | 10.0 |
| | 19 | | | | 51 | 113 | 125.5 | M8x15 | M6 | 46 | 27.5 | 6 | 20 | 16.5 | |
| | 22 | 24 | | | 56.5 | 113 | 125.5 | M8x15 | M6 | 47.5 | 29 | 6 | 20 | 19 | |
| | 28 | | | | 67 | 113 | 125.5 | M8x15 | M8 | 47.5 | 29 | 6 | 20 | 22.5 | |

### *14.7.2 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE*

Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Suggeriamo inoltre di completare il montaggio con un dispositivo che garantisca il bloccaggio assiale dell'albero (non illustrato).
Il numero e la dimensione del/i relativi fori all'estremità dell'albero saranno determinati dalle diverse esigenze applicative.

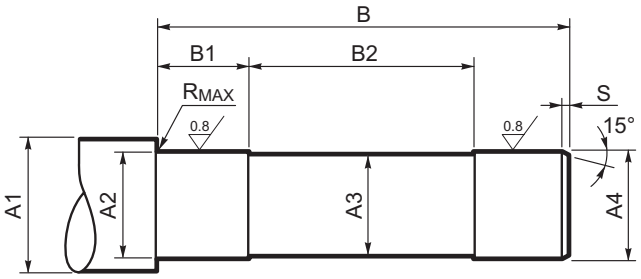
**H**

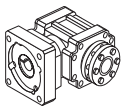



|  | A1 | A2 | A3 | A4 | B | B1 | B2 | C | D | E | $R_{MAX}$ |  UNI 6604 | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **KR 030** | ≥ 26 | 18 h7 | 17 | 18 h7 | 129 | 18 | 90 | 32 | 2 | 2 | 0.5 | 6x6x25 A | 1 |
| **KR 040** | ≥ 36 | 28 h7 | 27 | 28 h7 | 149 | 28 | 90 | 50 | 2 | 2 | 0.5 | 8x7x35 A | |

NB: La realizzazione dell'albero condotto con linguetta UNI 6604 come descritto, comporta un incremento del gioco angolare all'applicazione rispetto a quello garantito dal solo riduttore ($\varphi_S \leq 8'$).

**S**




|  | A1 | A2 | A3 | A4 | B | B1 | B2 | $R_{MAX}$ | S |
|---|---|---|---|---|---|---|---|---|---|
| **KR 010** | ≥ 15 | 11 h7 | 9.5 | 10 h6 | 99 | 13 | 70 | 0.5 | 1 |
| **KR 020** | ≥ 20 | 16 h7 | 14.5 | 15 h6 | 122 | 18 | 83 | 0.2 | |
| **KR 030** | ≥ 30 | 22 h7 | 19.5 | 20 h6 | 149 | 23 | 100 | 0.5 | |
| **KR 040** | ≥ 40 | 32 h7 | 29.5 | 30 h6 | 173 | 33 | 104 | 0.5 | |

## INDICE DI REVISIONE (R)

| | TI_CAT_TIR_STD_ITA_R05_0 |
|---|---|
| | **Descrizione** |
| ... | Aggiunta di nuove serie di riduttori: MPE, MPEK, TQFE, TQFEK. |
| ... | Modificati alcuni dati. |

2020 03 25

Bonfiglioli
*Forever Forward*

Abbiamo un inflessibile dedizione per l'eccellenza, l'innovazione e la sostenibilità. Il nostro Team crea, distribuisce e supporta soluzioni di trasmissione e controllo di potenza per mantenere il mondo in movimento.

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