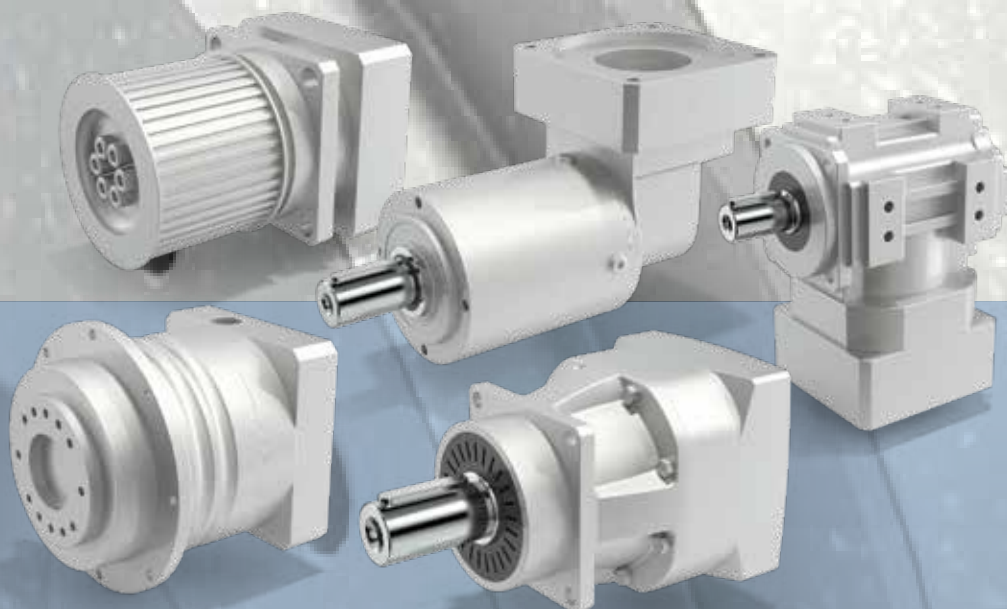




RIDUTTORI EPICICLOIDALI DI PRECISIONE

Linee Performance ed Effective

 **Bonfiglioli**

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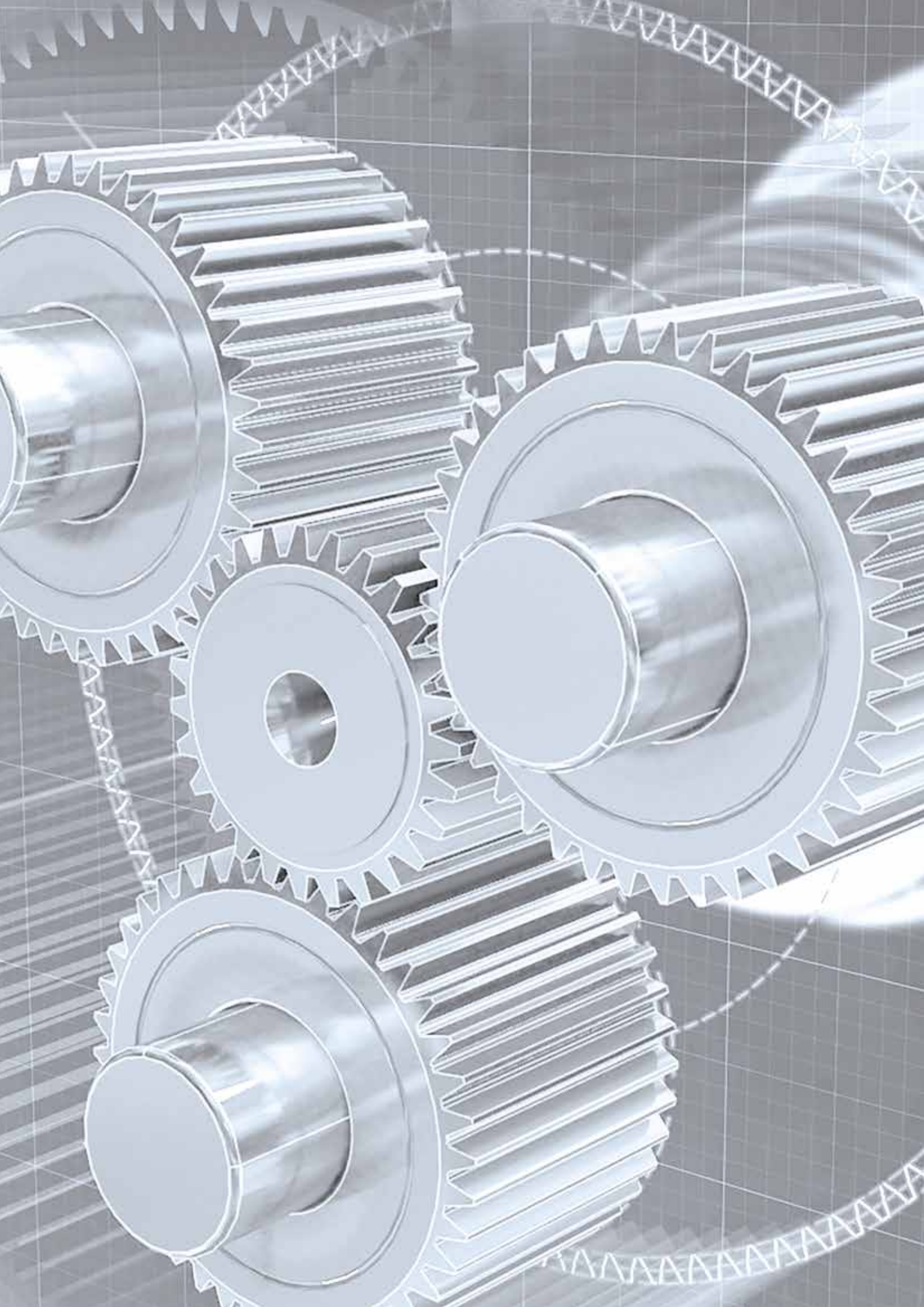
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IL MASSIMO LIVELLO DI PRECISIONE, EFFICIENZA E OTTIMIZZAZIONE ENERGETICA

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
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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 3.0 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 possono 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.

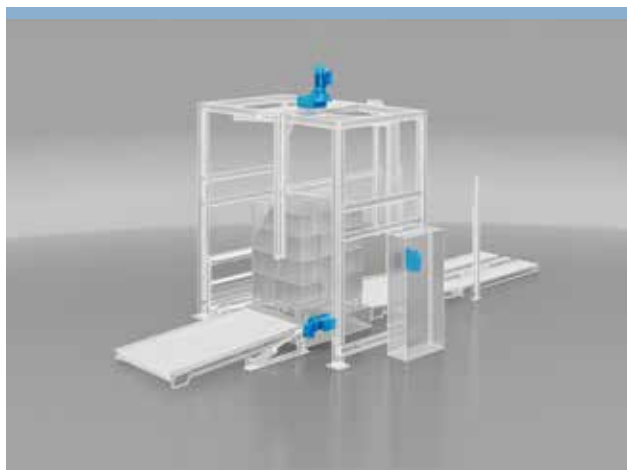
LA NOSTRA STORIA

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.



PALLETIZZATORE



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



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	Product
								
••	••	••	•••	•••	••	••	•	Coppia nominale
••••	••••	••••	•••	•••	•••	•••	•	Carico sui cuscinetti
•••	•••	•••	•••	•••	•••	•••	••	Velocità in ingresso
••••	••••	••••	••	••	••	••	••	Rigidezza torsionale
•••	•••	•••	•••	•••	•••	•••	••	Gioco
•••	•••	•••	•••	•••	•••	•••	•	Rapporti di riduzione

• Standard > •••• Eccellente



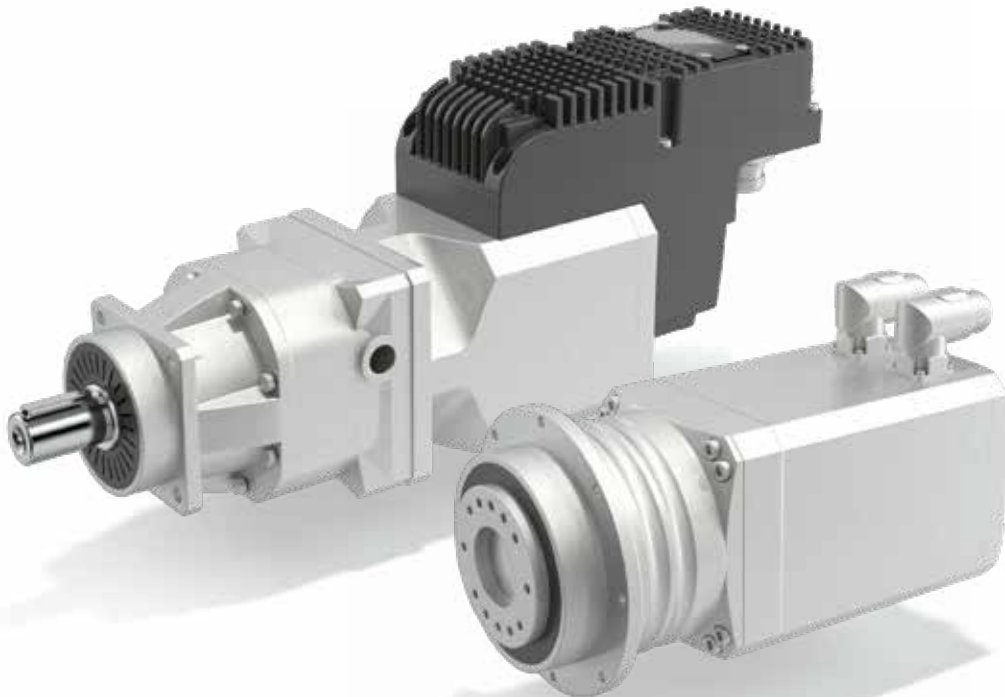
L'ECCELLENZA NELL'INTEGRAZIONE MECCATRONICA

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

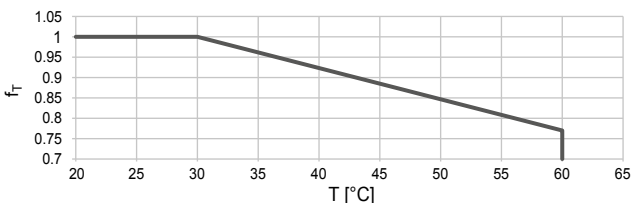
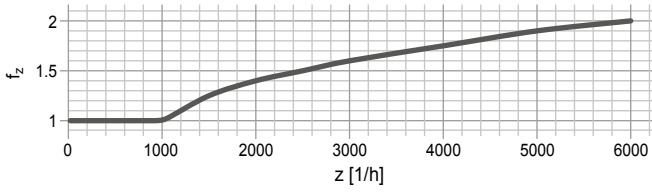
Parametri dipendenti dall'APPLICAZIONE

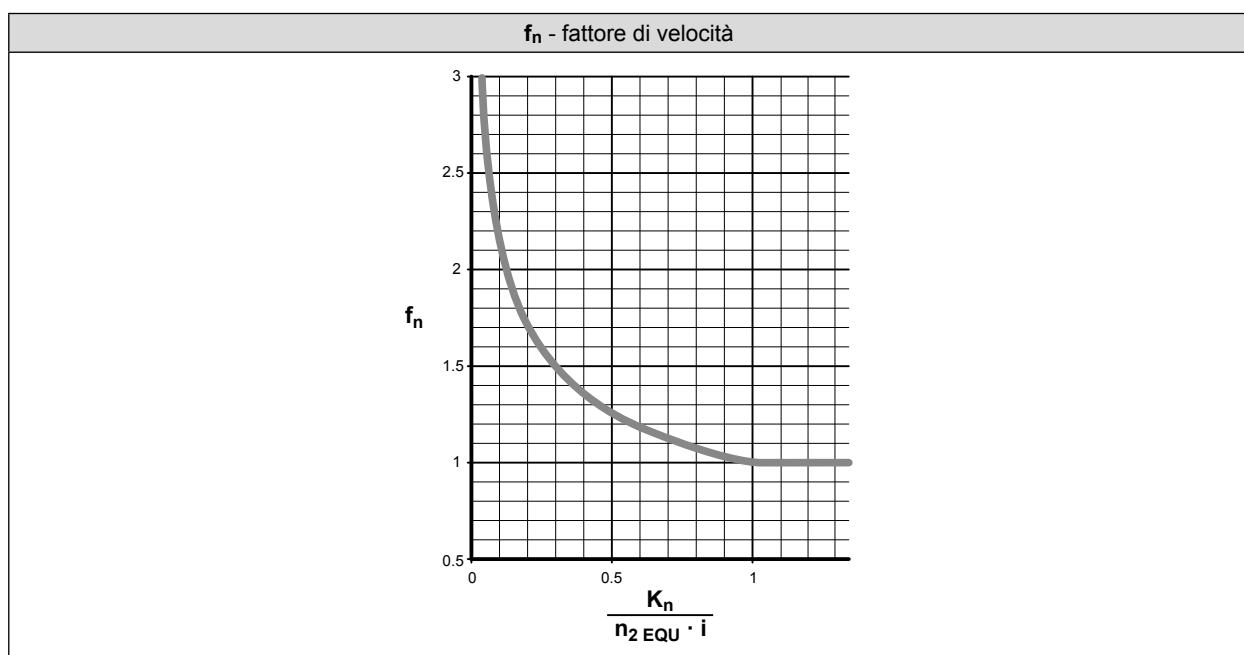
simbolo	unità di misura	definizione
A₂	[N]	Forza assiale applicata sull'albero lento
A₂ EQU	[N]	Forza assiale equivalente applicata sull'albero lento
A₂ MAX	[N]	Forza assiale massima applicata sull'albero lento
R₂	[N]	Forza radiale applicata sull'albero lento
R₂ EQU	[N]	Forza radiale equivalente applicata sull'albero lento
R₂ 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
M₁ 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
M₂ EQU	[Nm]	Coppia di uscita equivalente
M₂ 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
n₁	[min ⁻¹]	Velocità nominale in ingresso
n₂	[min ⁻¹]	Velocità di uscita
n_{2(1) ... n_{2(n)}}	[min ⁻¹]	Velocità di uscita nei singoli intervalli t ₁ ... t _n
n₂ EQU	[min ⁻¹]	Velocità di uscita equivalente
n₂ MAX	[min ⁻¹]	Velocità massima in uscita
T	[C°]	Temperatura ambiente
t₁ ... t_n	[s]	Intervalli di funzionamento
t_Σ	[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
$A_{2 \max} / A_{3 \max}$	[N]	Forza assiale ammissibile sull'albero lento
$A_{2' \max} / A_{3' \max}$	[N]	Forza assiale ammissibile in compresenza di carico radiale
$R_{1 \max}$	[N]	Forza radiale ammissibile sulla mezzeria dell'albero veloce
$R_{2 \max} / R_{3 \max}$	[N]	Forza radiale ammissibile sulla mezzeria dell'albero lento
C_B	[Nm]	Costante per il calcolo della durata teorica dei cuscinetti
C_t	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	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	[kgcm ²]	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_{a2}	[Nm]	Massima coppia accelerante in uscita
M_{n2}	[Nm]	Coppia nominale in uscita
M_{p2}	[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. Per servizi intermittenti tipo S5 la velocità non può essere sviluppata continuamente per più di 30 secondi.
p	—	Esponente nel calcolo della durata teorica dei cuscinetti
η	[%]	Rendimento
φ_R	[arcmin]	Gioco ridotto
φ_S	[arcmin]	Gioco standard

1.2 DIMENSIONAMENTO DEL RIDUTTORE

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



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

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 TQFE 060	MPE 080 TQFE 070	MPE 120 TQFE 090
3	2000	1400	3500	3000
4	2000	1600	2000	1700
5	2000	2050	1500	1500
7	3000	3050	1900	1900
9	2000	3300	3500	3000
10	3000	4000	3500	3500
12	3000	3300	3500	3000
15	3000	3300	3500	3000
16	3000	3500	3100	2800
20	3000	3500	3200	3000
25	3000	3500	3200	3000
28	3000	3700	3500	3500
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 LC 070P	LC 090 / LC 090P	LC 120 / LC 120P	LC 155 / 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 LCK 070P	LCK 090 LCK 090P	LCK 120 LCK 120P	LCK 155 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

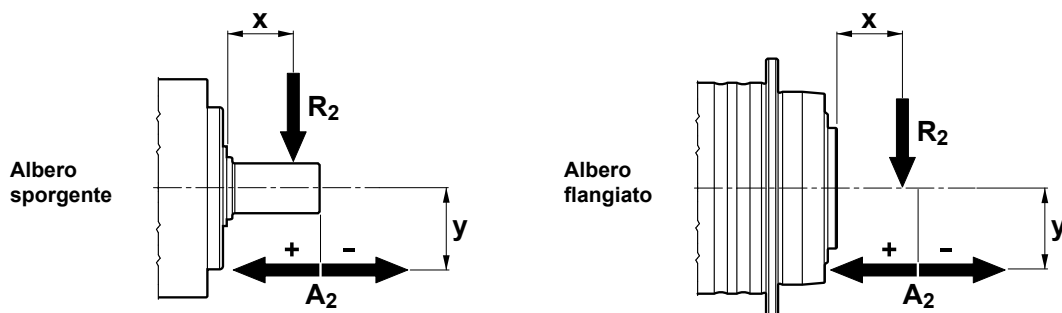
i	MPEK 060 TQFEK 060	MPEK 080 TQFEK 070	MPEK 120 TQFEK 090
3	1400	3500	3000
4	1600	2000	1700
5	2050	1500	1500
7	3050	1900	1900
9	3300	3500	3000
10	4000	3500	3500
12	3300	3500	3000
15	3300	3500	3000
16	3500	3100	2800
20	3500	3200	3000
25	3500	3200	3000
28	3700	3500	3500
30	4000	4000	3500
35	4000	3500	3000
40	4000	4000	3500
50	4000	4000	3500
70	4000	4000	3500
100	4000	4000	3500

i	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



1.3 CALCOLO DELLA DURATA DI VITA DEI CUSCINETTI



(a)	Forza radiale massima applicata sull'albero lento	$R_{2 \text{ MAX}}$	[N]	Valutare eventuali condizioni applicative (es. la tensione di una cinghia durante la fase di accelerazione)
	Forza assiale massima applicata sull'albero lento	$A_{2 \text{ MAX}}$	[N]	
(b)	Coppia di ribaltamento massima applicata sull'albero lento	$M_{T2 \text{ MAX}}$	[Nm]	$M_{T2 \text{ MAX}} = \frac{R_{2 \text{ MAX}} \cdot (x + L_z) \pm A_{2 \text{ MAX}} \cdot y}{1000}$
(c)	Forze equivalenti applicate sull'albero lento	$R_{2 \text{ EQU}}$	[N]	$R_{2 \text{ EQU}} = \sqrt[3]{\frac{ n_{2(1)} \cdot t_1 \cdot R_{2(1)} ^3 + \dots + n_{2(n)} \cdot t_n \cdot R_{2(n)} ^3}{ n_{2(1)} \cdot t_1 + \dots + n_{2(n)} \cdot t_n}}$
		$A_{2 \text{ EQU}}$	[N]	$A_{2 \text{ EQU}} = \sqrt[3]{\frac{ n_{2(1)} \cdot t_1 \cdot A_{2(1)} ^3 + \dots + n_{2(n)} \cdot t_n \cdot A_{2(n)} ^3}{ n_{2(1)} \cdot t_1 + \dots + n_{2(n)} \cdot t_n}}$
(d)	Coppia di ribaltamento equivalente applicata sull'albero lento	$M_{T2 \text{ EQU}}$	[Nm]	$M_{T2 \text{ EQU}} = \frac{R_{2 \text{ EQU}} \cdot (x + L_z) \pm A_{2 \text{ EQU}} \cdot y}{1000}$
(e)	Velocità di uscita equivalente	$n_{2 \text{ EQU}}$	[min ⁻¹]	$n_{2 \text{ EQU}} = \frac{ n_{2(1)} \cdot t_1 + n_{2(2)} \cdot t_2 + \dots + n_{2(n)} \cdot t_n}{t_1 + t_2 + \dots + t_n}$
(f)	Durata di base cuscinetti albero lento	L_{10h}	[h]	$L_{10h} = \frac{16666}{n_{2 \text{ EQU}}} \cdot \left(\frac{C_B}{M_{T2 \text{ EQU}}} \right)^p$

	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
$M_{T2 \text{ max}}$ [Nm]	129.5	221	343	592	772	1233	2331
C_B [Nm]	632	1065	1510	2898	3325	6395	9795
p	—	3	3	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
$M_{T2 \text{ max}}$ [Nm]	115	318	430	1200	3700
C_B [Nm]	490	1335	1815	5055	16200
p	—	3.33	3.33	3.33	3.33

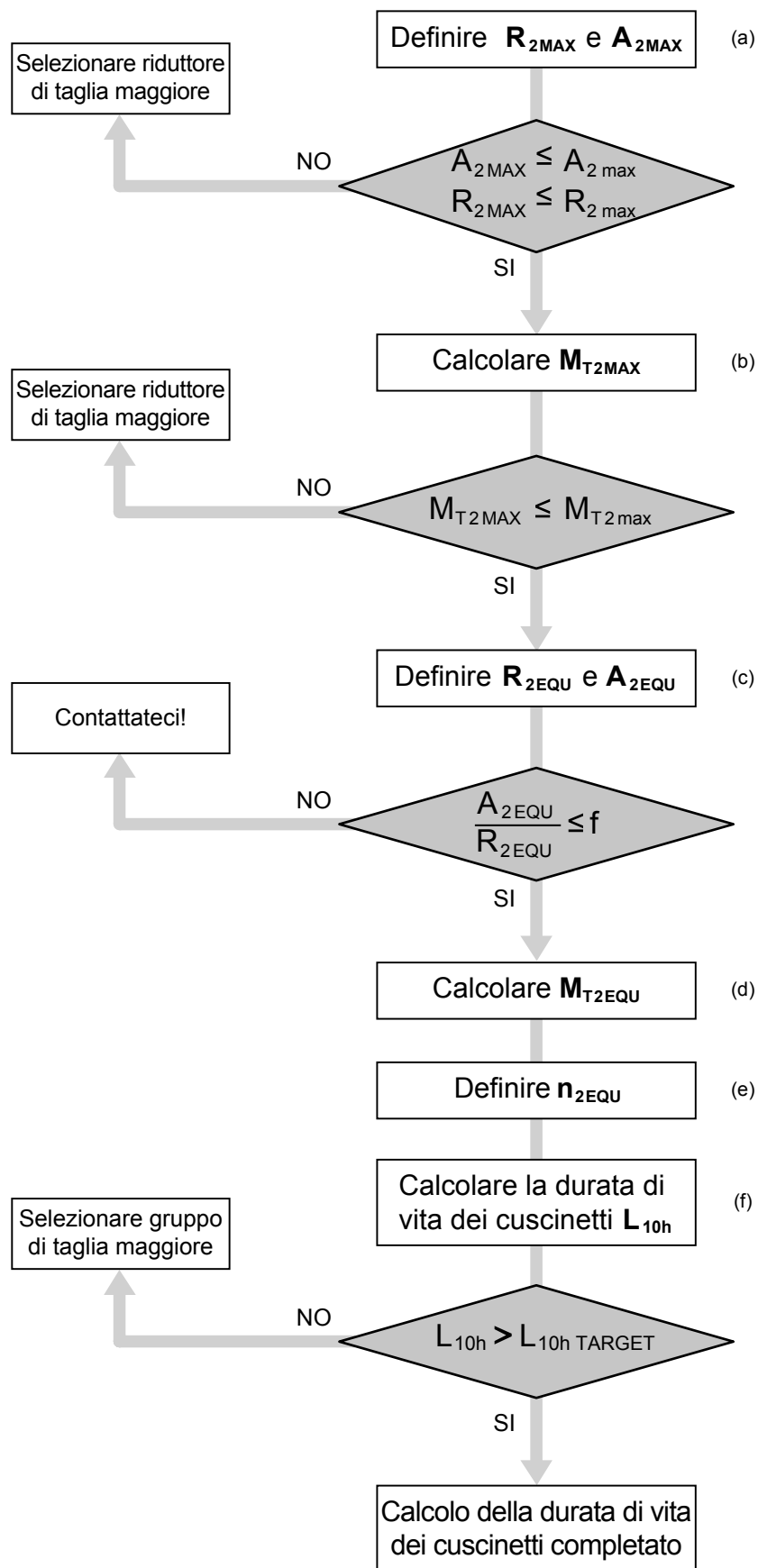
	TR 053	TR 060	TR 080	TR 105	TR 130	TR 160	TR 190
	SB	SB	SB	SB	SB	SB	SB
L_z [mm]	22	23	42	53	74	94	100
$M_{T2 \text{ max}}$ [Nm]	16	23	155	278	515	739	1683
C_B [Nm]	91	143	994	2048	3893	5824	8680
p	—	3	3	3.33	3.33	3.33	3.33

	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
$M_{T2 \text{ max}}$ [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	3.33	3	3.33	3.33	3.33	3.33

	TQFE 060	TQFE 070	TQFE 090
	TQFEK 060	TQFEK 070	TQFEK 090
L_z [mm]	21	34	44
$M_{T2 \text{ max}}$ [Nm]	70	280	650
C_B [Nm]	14	57	125
p	—	3	3

	MPE 040	MPE 060	MPE 080	MPE 120
	MPEK 060	MPEK 080	MPEK 120	
L_z [mm]	16	23	31	37
$M_{T2 \text{ max}}$ [Nm]	6	17	44	124
C_B [Nm]	29	80	213	615
p	—	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
$M_{T2 \text{ max}}$ [Nm]	15	54	105	238	522
C_B [Nm]	106	280	298	813	1588
p	—	3	3	3	3

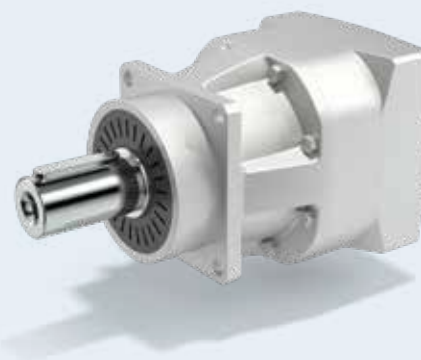


f	TQ TQK	TQF	TR	MP	TQFE TQFEK	SL	LC LCK	MPE	MPEK	KR
0.26	060 SB ... 090 SB		053 SB ... 060 SB	053 SB ... 105 SB	060 ... 090	070 ... 120	050 ... 155	040 ... 120	060 ... 120	010 SB ... 040 SB
0.37	130 SB ; 160 SB 070 HB ; 090 HB	060 ... 160	080 SB ... 190 SB	130 SB ... 190 SB 080 HB ; 105 HB						020 HB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

RIDUTTORI EPICICLOIDALI DI PRECISIONE IN LINEA

Serie TQ

La serie TQ eccelle in tutte le categorie prestazionali, offrendo un'alta densità di coppia, un'ottima capacità di sovraccarico, massima precisione e rigidità elevata. Progettata appositamente per soddisfare le esigenze precise dei sistemi servo, la gamma TQ è particolarmente adatta ad applicazioni che richiedono dinamiche rapide e posizionamenti precisi. Il suo design robusto garantisce affidabilità e rendimento anche nelle condizioni operative più impegnative.



TQ

VANTAGGI PRINCIPALI

- Massima densità di coppia in tutta la gamma dei riduttori di precisione
- Ideale per applicazioni con cicli di carico impegnativi, requisiti di alta precisione ed elevate prestazioni dinamiche
- L'opzione con cuscinetti rinforzati permette l'impiego della serie TQ in applicazioni con carichi esterni gravosi
- Retrofit più semplice grazie all'interfaccia di uscita ampiamente diffusa sul mercato
- Adatta a diversi ambienti grazie al suo grado di protezione IP65

OPZIONI PRINCIPALI

Versioni ingresso		Lubrificazione		Versioni alberi lenti	
					
PREDISPOSIZIONE MOTORE	SENZA PREDISPOSIZIONE MOTORE	STANDARD	PER USO ALIMENTARE	ALBERO LISCIO SENZA CHIAVETTA	ALBERO CON CHIAVETTA
Versioni cuscinetti		Tipo di servizio			
					
STANDARD	RINFORZATA	S1	S5		

DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto	Standard		
060	30	3-100	2	4	4,8	129,5
070	70	3-100	2	4	11,3	343 ⁽²⁾
090	200	3-100	2	3	28	772 ⁽²⁾
130	400	3-100	2	3	59	1233
160	800	3-100	2	3	170	2331

1) Valore migliore disponibile per ciascuna taglia.

2) Valido per la versione "Cuscinetti 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 simili dell'industria di riferimento.

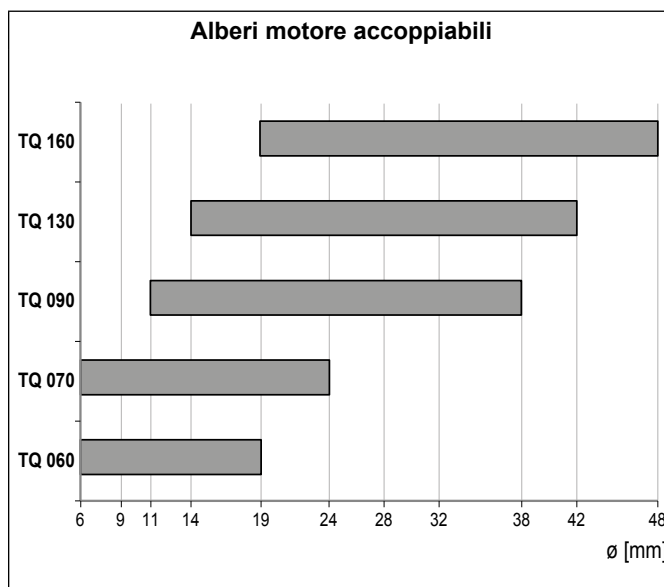
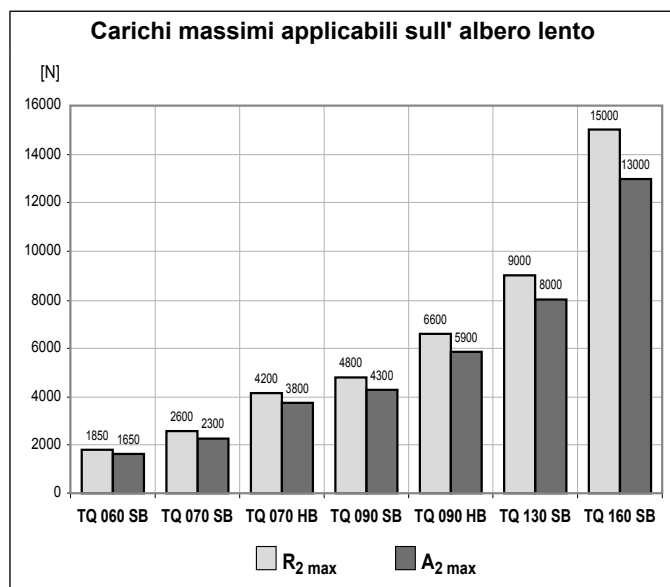
La loro progettazione e costruzione è stata sviluppata con l'obiettivo primario di offrire agli utilizzatori una serie di prodotti di Qualità assoluta, affidabile e ripetibile, tale da costituire vantaggio competitivo per macchine e sistemi che li integrano come organi di trasmissione.

- 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 $60 \leq L_p \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1=3000 \text{ min}^{-1}$; $i=10$.
- 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.

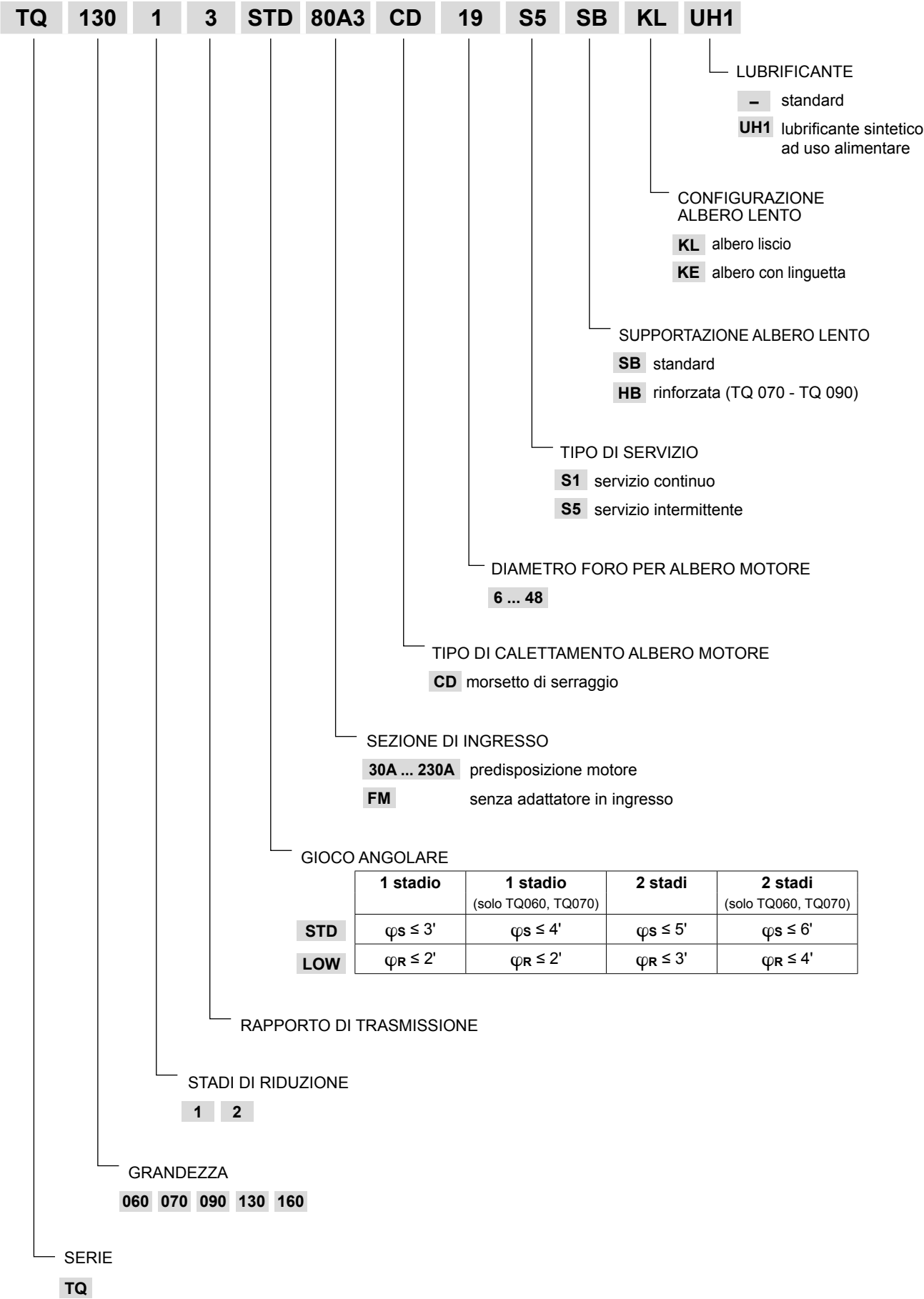
tipo di servizio	TQ 060 ... TQ 160	tenute in uscita
S1 (continuo)	Olio sintetico viscosità ISO VG 220	Fluoro-elastomero
S5 (intermittente)	NLGI grasso con grado di consistenza 00	NBR

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

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



2.1 CODICE ORDINATIVO

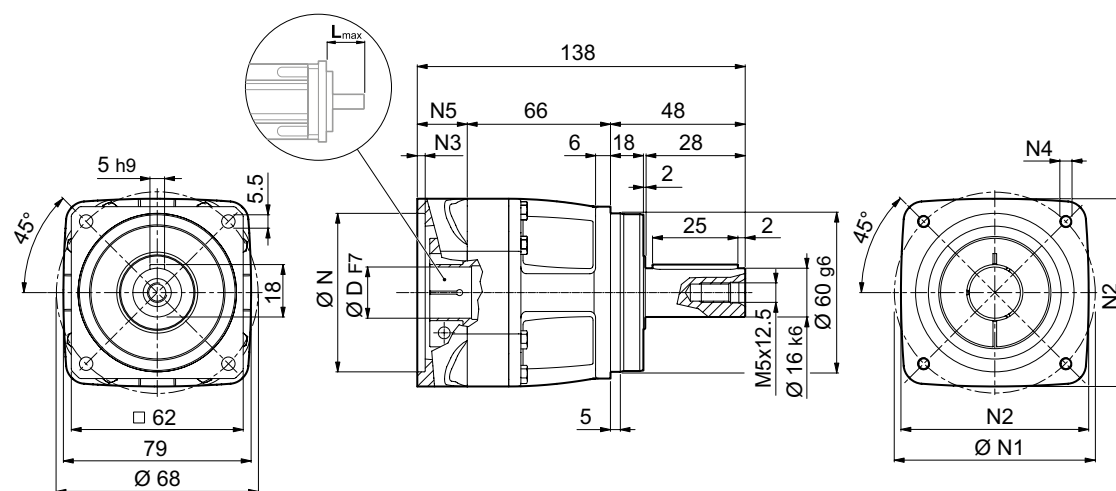


TQ



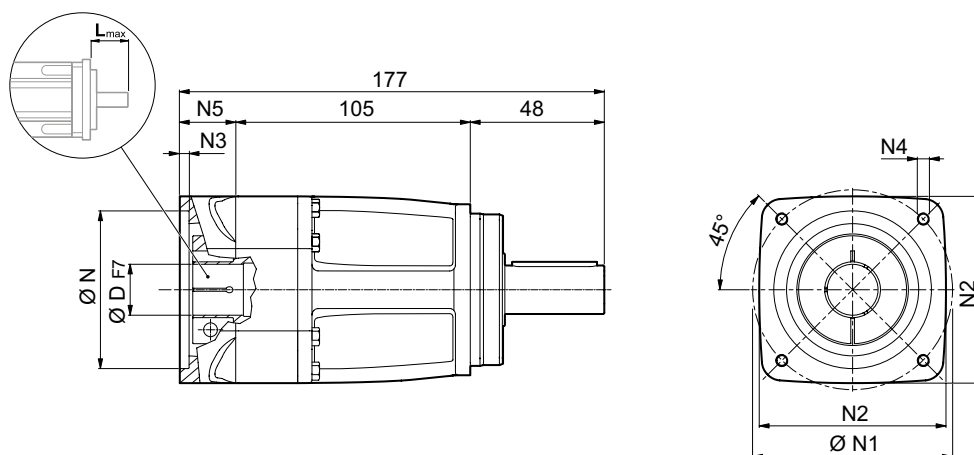
2.2 DIMENSIONI E DATI TECNICI

TQ 060



TQ 060 1	2.5

30A ... 110B0



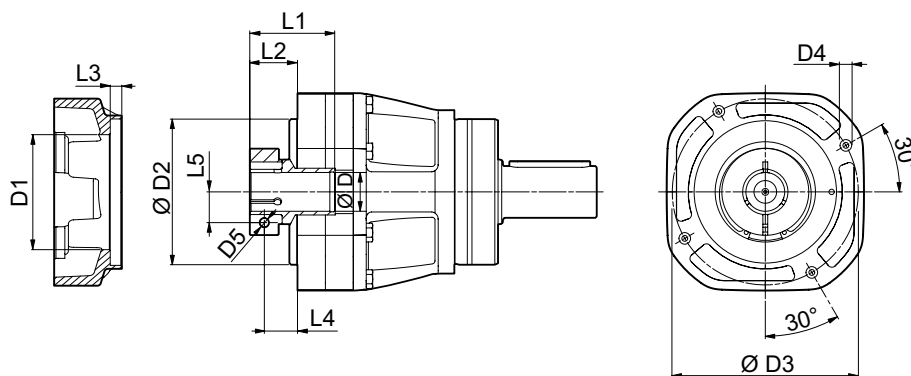
TQ 060 2	3.5

						N	N1	N2	N3	N4	N5	L _{max}
30A	6	—	—	—	—	30	46	80	3.5	M4x10	24	40
40B1	6	9	11	14	—	40	63	80	3.5	M4x10	24	40
50A1	6	9	11	14	—	50	60	80	4.0	M4x10	24	40
50C1	6	9	11	14	—	50	70	80	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

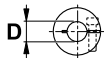
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

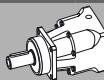
TQ 060

FM



TQ

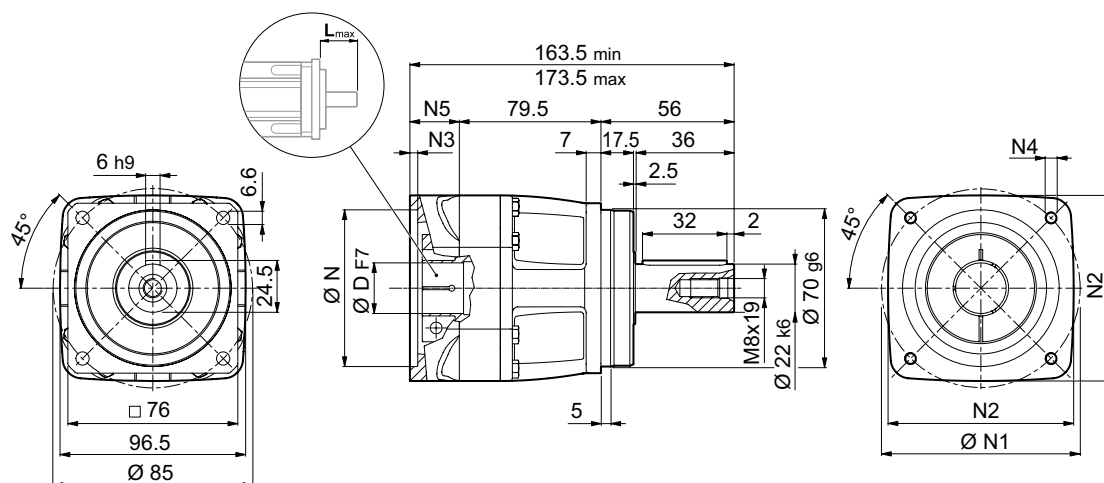
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	37	59	72	M5x11	M4	31.5	15.5	4.5	10.5	8
9	49	59	72	M5x11	M5	35	19	4.5	11.5	10.5
11	49	59	72	M5x11	M6	35	19	4.5	11.5	12.5
14	49	59	72	M5x11	M6	35	19	4.5	11.5	14.5
19	54	59	72	M5x11	M6	35	19	4.5	11.5	16.5

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]		
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	$\leq$		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%			
						[arcmin]						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



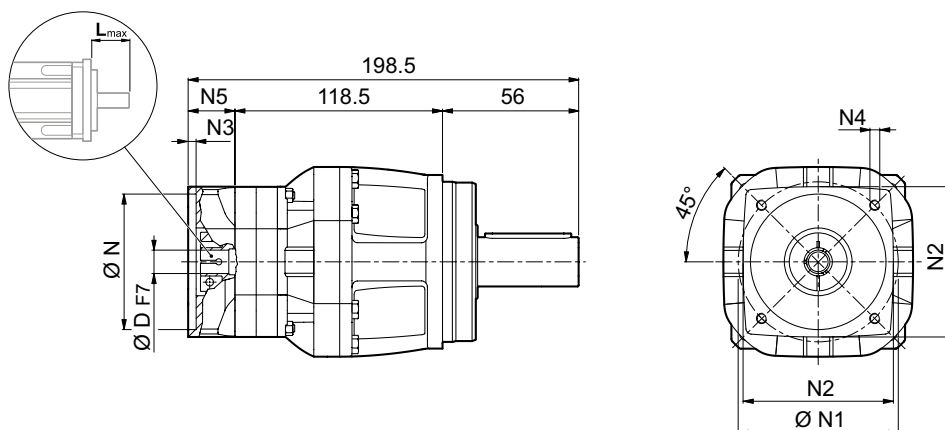
TQ 070

50C ... 130A



TQ 070 1	3.6
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30A ... 110B0



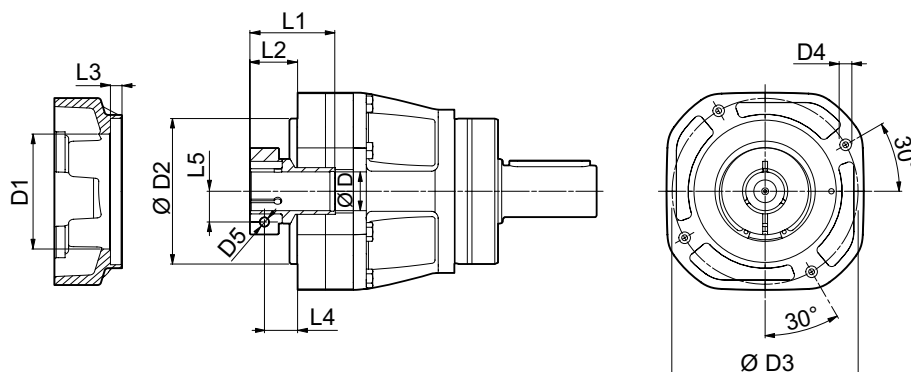
TQ 070 2	5.0
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							N	N1	N2	N3	N4	N5	L _{max}
TQ 070 1													
50C2	6	9	11	14	—	—	50	70	100	6.5	M4x12	28	50
60A3	6	9	11	14	19	—	60	75	100	6.5	M5x14	28	50
70B2	6	9	11	14	19	—	70	90	100	6.5	M5x14	28	50
80A2	6	9	11	14	19	—	80	100	100	6.5	M6x14	28	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	80	3.5	M4x10	24	40
40B1	6	9	11	14	—	—	40	63	80	3.5	M4x10	24	40
50A1	6	9	11	14	—	—	50	60	80	4.0	M4x10	24	40
50C1	6	9	11	14	—	—	50	70	80	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



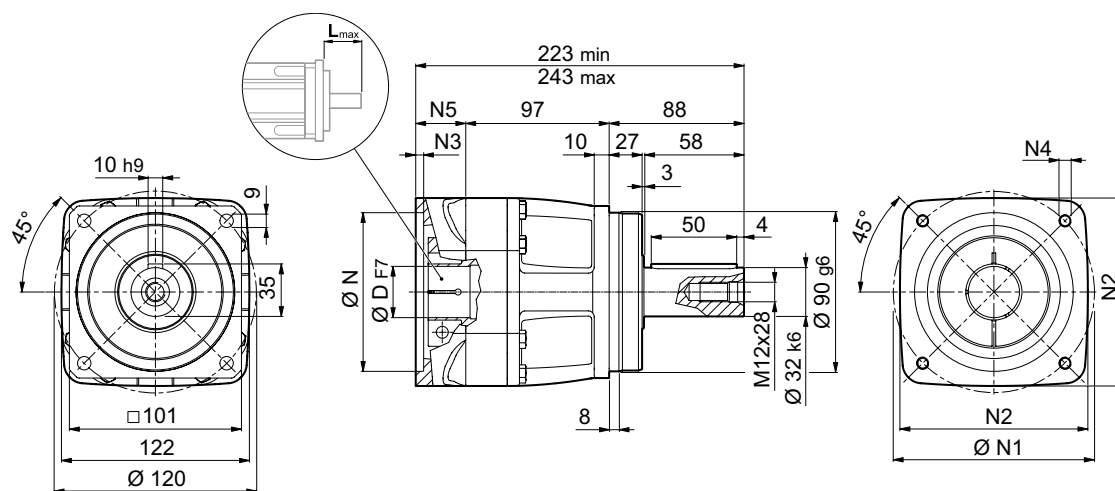
TQ

	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

	M _{N 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	SB		HB		η	J _G [kgcm ²]				
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤		$\left[\frac{Nm}{arcmin} \right]$	[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	–	

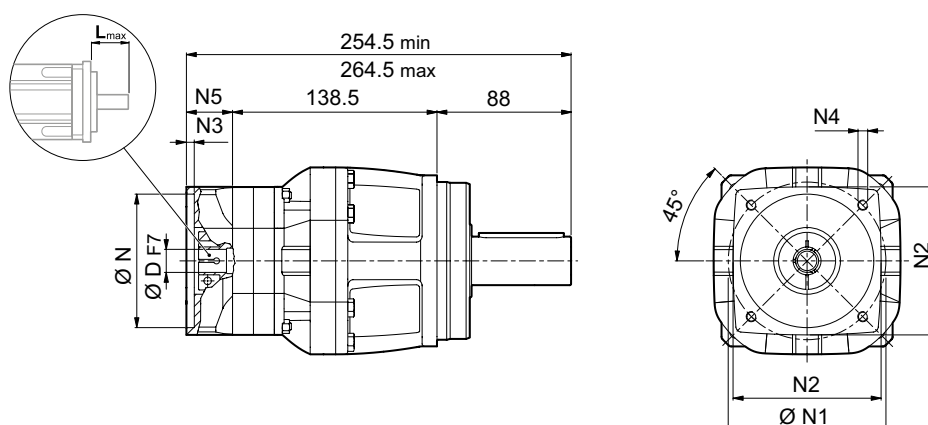
TQ 090

60A4 ... 180A1

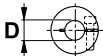


TQ 090 1	7.6
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50C2 ... 130A



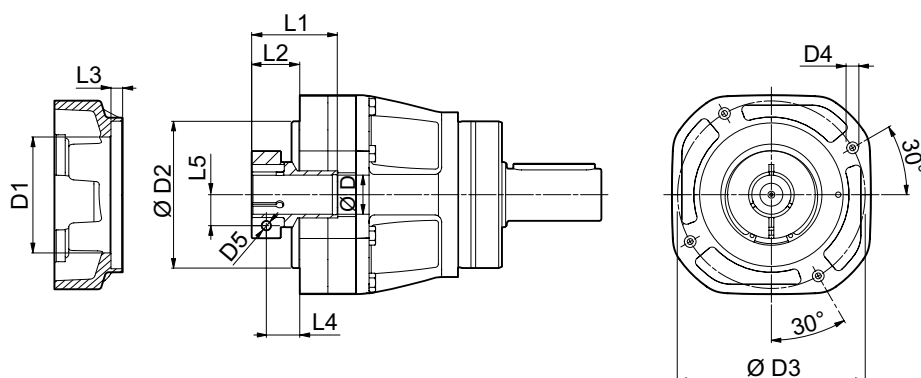
TQ 090 2	8.9
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									N	N1	N2	N3	N4	N5	L _{max}
TQ 090 1															
60A4	11	14	19	—	—	—	—	60	75	125	6.5	M5x14	38	60	
80A3	11	14	19	—	—	—	—	80	100	125	6.5	M6x14	38	60	
95A2	11	14	19	24	28	—	—	95	115	125	6.5	M8x18	38	60	
110A2	11	14	19	24	—	—	—	110	130	125	6.5	M8x20	38	60	
110B1	11	14	19	24	28	—	—	110	145	125	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	100	6.5	M4x12	28	50	
60A3	11	14	19	—	—	—	—	60	75	100	6.5	M5x14	28	50	
70B2	11	14	19	—	—	—	—	70	90	100	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



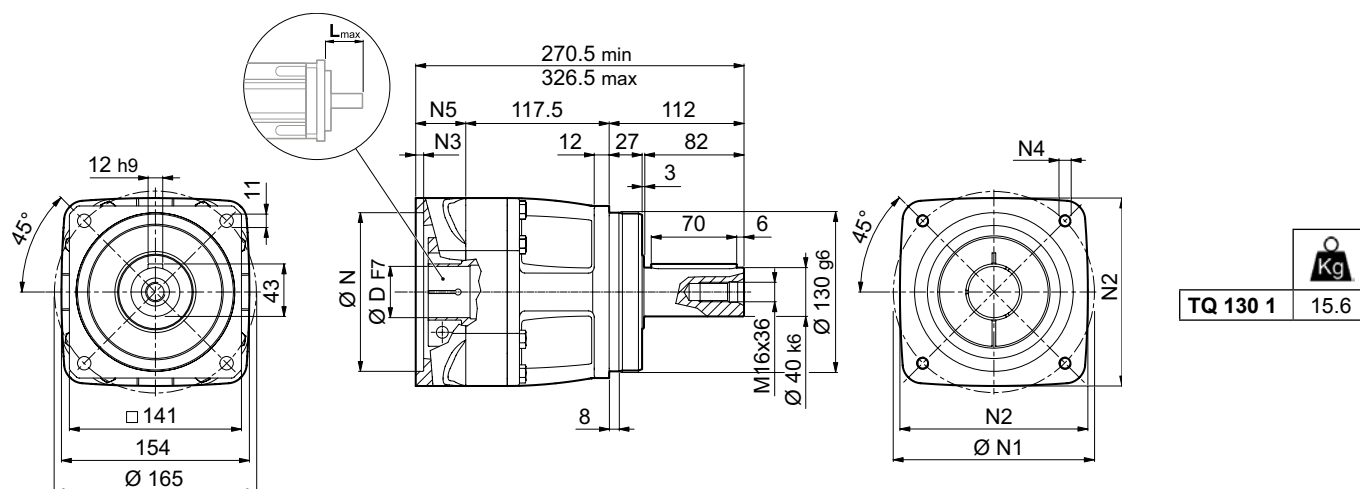
TQ

	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	54	32	6.5	20.5	28
TQ 090 2										
6	51	70	85	M6x11	M6	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

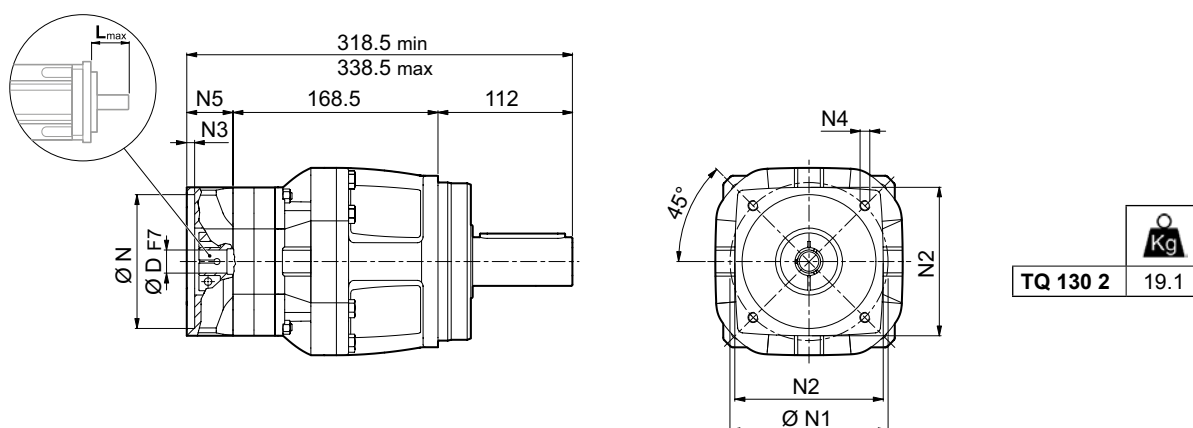
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	SB		HB		η	J _G [kgcm ²]				
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	≤	$\left[\frac{Nm}{arcmin} \right]$	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	%		11	14 - 19	24	28
TQ 090 1_3		130	200	400	2500	4500	3'	2'	28	4800	4300	6600	5900	97	–	2.18	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	–	–

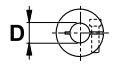
TQ 130

80A3 ... 200A



60A4 ... 180A1

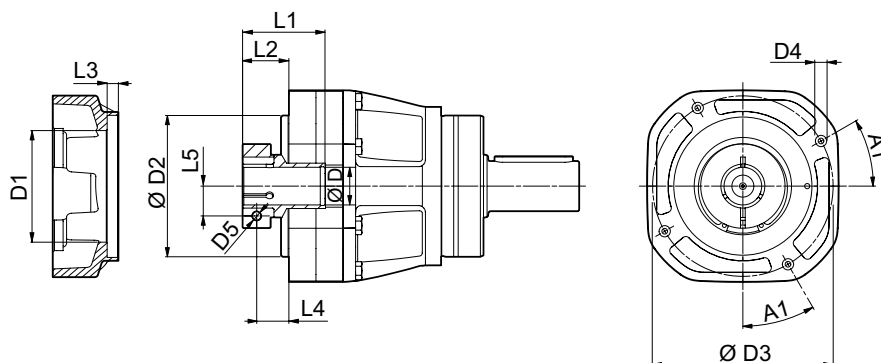


								N	N1	N2	N3	N4	N5	L _{max}
TQ 130 1														
80A3	14	19	—	—	—	—	—	80	100	155	6.5	M6x14	41	60
95A2	14	19	24	28	—	—	—	95	115	155	6.5	M8x18	41	60
110A2	14	19	24	—	—	—	—	110	130	155	6.5	M8x20	41	60
110B1	14	19	24	28	—	—	—	110	145	155	6.5	M8x20	41	60
130A1	14	19	24	28	32	—	—	130	165	155	6.5	M10x20	41	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	220	6.5	M14x28	97	110
TQ 130 2														
60A4	14	19	—	—	—	—	—	60	75	125	6.5	M5x14	38	60
80A3	14	19	—	—	—	—	—	80	100	125	6.5	M6x14	38	60
95A2	14	19	24	28	—	—	—	95	115	125	6.5	M8x18	38	60
110A2	14	19	24	—	—	—	—	110	130	125	6.5	M8x20	38	60
110B1	14	19	24	28	—	—	—	110	145	125	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.

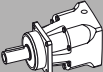
TQ 130

FM



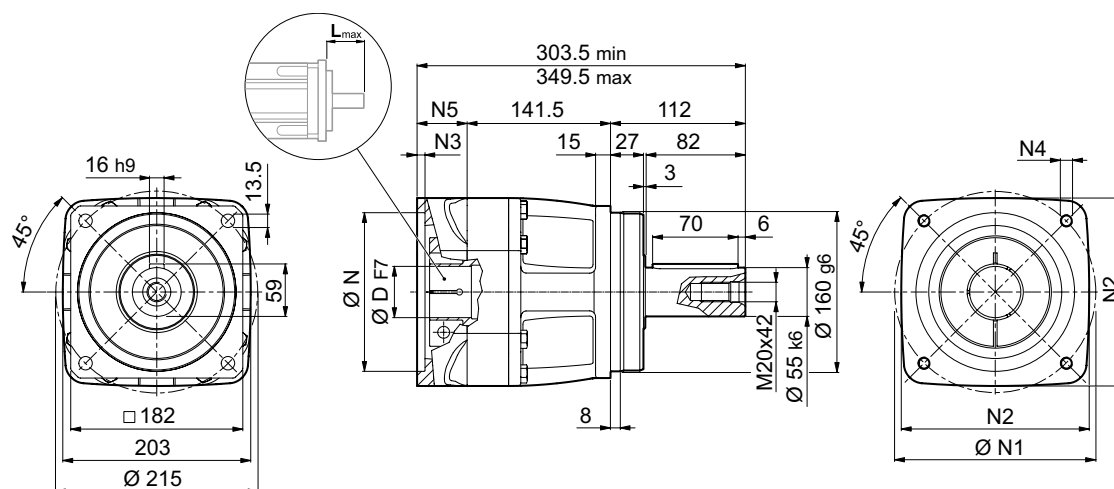
TQ

	A1	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQ 130 1											
14	22°	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
19	22°	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
24	22°	70	120	140	M10x16	M6	51.5	32.5	7.5	23.5	19
28	22°	70	120	140	M10x16	M8	51.5	32.5	7.5	23.5	22.5
32	22°	72	120	140	M10x16	M8	51.5	32.5	7.5	23.5	24.5
38	22°	100	120	140	M10x16	M8	54	35	7.5	23.5	28
42	22°	114	120	140	M10x16	M10	51.5	38.5	7.5	23.5	33
TQ 130 2											
11	30°	51	90	115	M8x13	M6	50	28	6.5	20.5	14.5
14	30°	51	90	115	M8x13	M6	50	28	6.5	20.5	14.5
19	30°	51	90	115	M8x13	M6	50	28	6.5	20.5	16.5
24	30°	60	90	115	M8x13	M6	51.5	29.5	6.5	20.5	19
28	30°	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	22.5
32	30°	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	24.5
38	30°	80	90	115	M8x13	M8	54	32	6.5	20.5	28

	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]					
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤		$\left[\frac{Nm}{arcmin}\right]$	[N]	[N]	%		14	19 - 24	28 - 32	38	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	–	

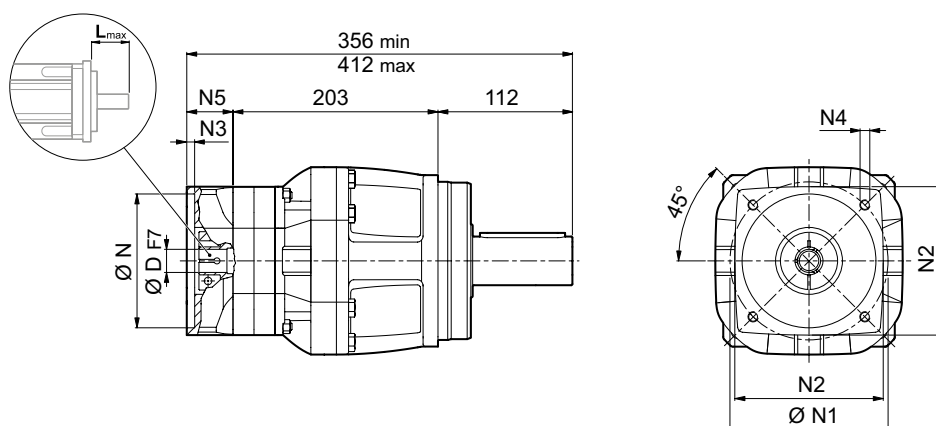
TQ 160

95A2 ... 230A

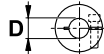


	TQ 160 1
Kg	29.7

80A3 ... 200A



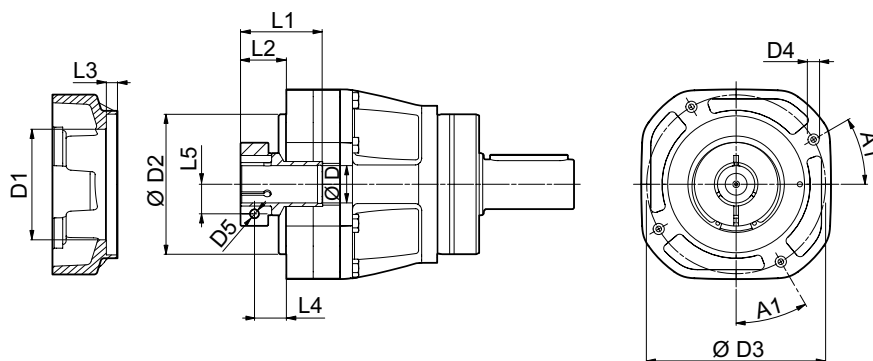
	TQ 160 2
Kg	37.4

								N	N1	N2	N3	N4	N5	L _{max}
TQ 160 1														
95A2	19	24	28	—	—	—	—	95	115	205	6.5	M8x20	50	60
110A2	19	24	—	—	—	—	—	110	130	205	6.5	M8x20	50	60
130A1	19	24	28	32	—	—	—	130	165	205	6.5	M10x20	50	60
180A	19	24	28	32	—	—	—	180	215	205	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	155	6.5	M6x14	41	60
95A2	19	24	28	—	—	—	—	95	115	155	6.5	M8x18	41	60
110A2	19	24	—	—	—	—	—	110	130	155	6.5	M8x20	41	60
110B1	19	24	28	—	—	—	—	110	145	155	6.5	M8x20	41	60
130A1	19	24	28	32	—	—	—	130	165	155	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	220	6.5	M14x28	97	110

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

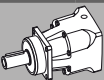
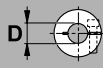
TQ 160

FM



TQ

	A1	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQ 160 1											
19	30°	58	150	175	M12x20	M6	47	37	9.5	28	19
24	30°	58	150	175	M12x20	M6	47	37	9.5	28	19
28	30°	70	150	175	M12x20	M8	47	37	9.5	28	22.5
32	30°	72	150	175	M12x20	M8	47	37	9.5	28	24.5
38	30°	100	150	175	M12x20	M8	59.5	39.5	9.5	28	28
42	30°	114	150	175	M12x20	M10	57	43	9.5	28	33
48	30°	125	150	175	M12x20	M12	57	43	9.5	28	36.5
TQ 160 2											
14	22°	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
19	22°	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
24	22°	70	120	140	M10x16	M6	51.5	32.5	7.5	23.5	19
28	22°	70	120	140	M10x16	M8	51.5	32.5	7.5	23.5	22.5
32	22°	72	120	140	M10x16	M8	51.5	32.5	7.5	23.5	24.5
38	22°	100	120	140	M10x16	M8	54	35	7.5	23.5	28
42	22°	114	120	140	M10x16	M10	51.5	38.5	7.5	23.5	33

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]				
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%					
												19	24 - 28	32 - 38	42	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	–

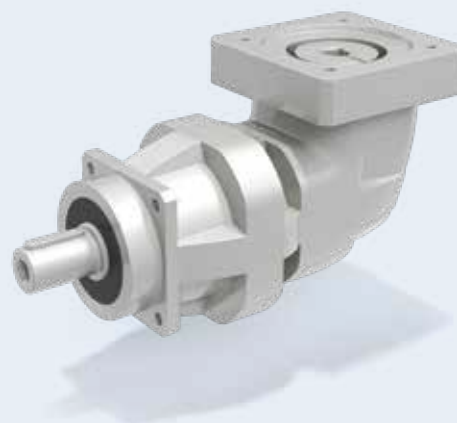


RIDUTTORI EPICICLOIDALI DI PRECISIONE AD ANGOLO RETTO

Serie TQK

La serie TQK ad angolo retto rappresenta la soluzione ideale per esigenze di configurazioni compatte, mantenendo al contempo le elevate prestazioni ereditate dalla serie TQ in linea.

Questa serie è particolarmente adatta per i requisiti rigorosi dei sistemi servo, come la risposta dinamica rapida, i frequenti cambi di direzione, il posizionamento preciso e l'elevato numero di avviamenti e arresti.



TQK

VANTAGGI PRINCIPALI

- Massima densità di coppia in tutta la gamma dei riduttori di precisione
- Ideale per applicazioni con cicli di carico impegnativi, requisiti di alta precisione ed elevate prestazioni dinamiche
- L'opzione con cuscinetti rinforzati consente l'impiego della serie TQ in applicazioni con carichi esterni gravosi
- Retrofit più semplice grazie all'interfaccia di uscita ampiamente diffusa sul mercato
- Design compatto ad angolo retto per installazioni in spazi ridotti
- Adatta a diversi ambienti grazie al suo grado di protezione IP65

OPZIONI PRINCIPALI

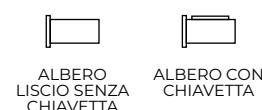
Versioni ingresso



Lubrificazione



Versioni alberi lenti



Versioni cuscinetti



Tipo di servizio



DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto	Standard		
060	30	6-200	5	6	4,8	129,5
070	70	6-200	5	6	11,3	343 ⁽²⁾
090	200	6-200	4	5	28	772 ⁽²⁾
130	400	6-200	4	5	59	1233
160	800	6-200	4	5	170	2331

1) Valore migliore disponibile per ciascuna taglia.

2) Valido per la versione "Cuscinetti 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.

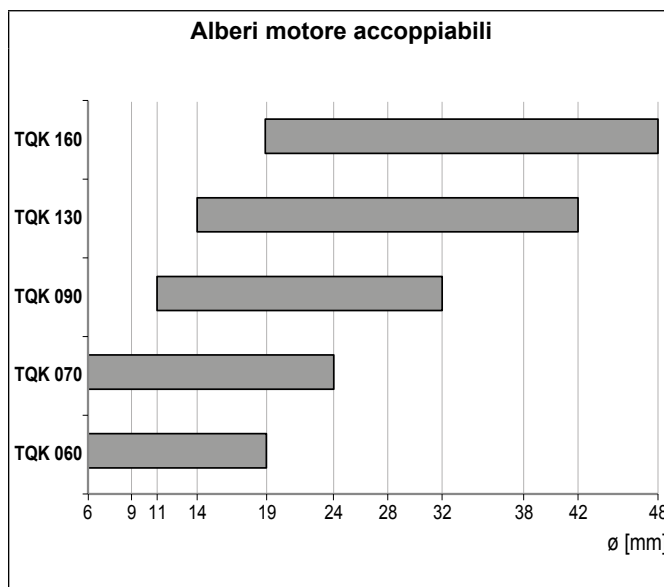
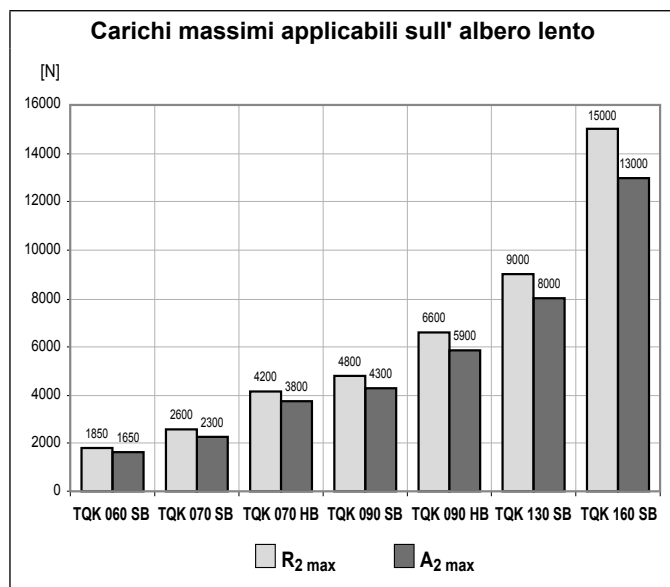
I gruppi ortogonali TQK coniugano prestazioni dinamiche elevate con una precisione al vertice della categoria, e tale da consentire grande accuratezza e ripetibilità ai posizionamenti in cui sono utilizzati. I gruppi TQK inoltre sono caratterizzati da un design tipicamente Italiano, che li rende immediatamente 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 $60 \leq L_p \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1=3000 \text{ min}^{-1}$; $i=20$.
- 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.

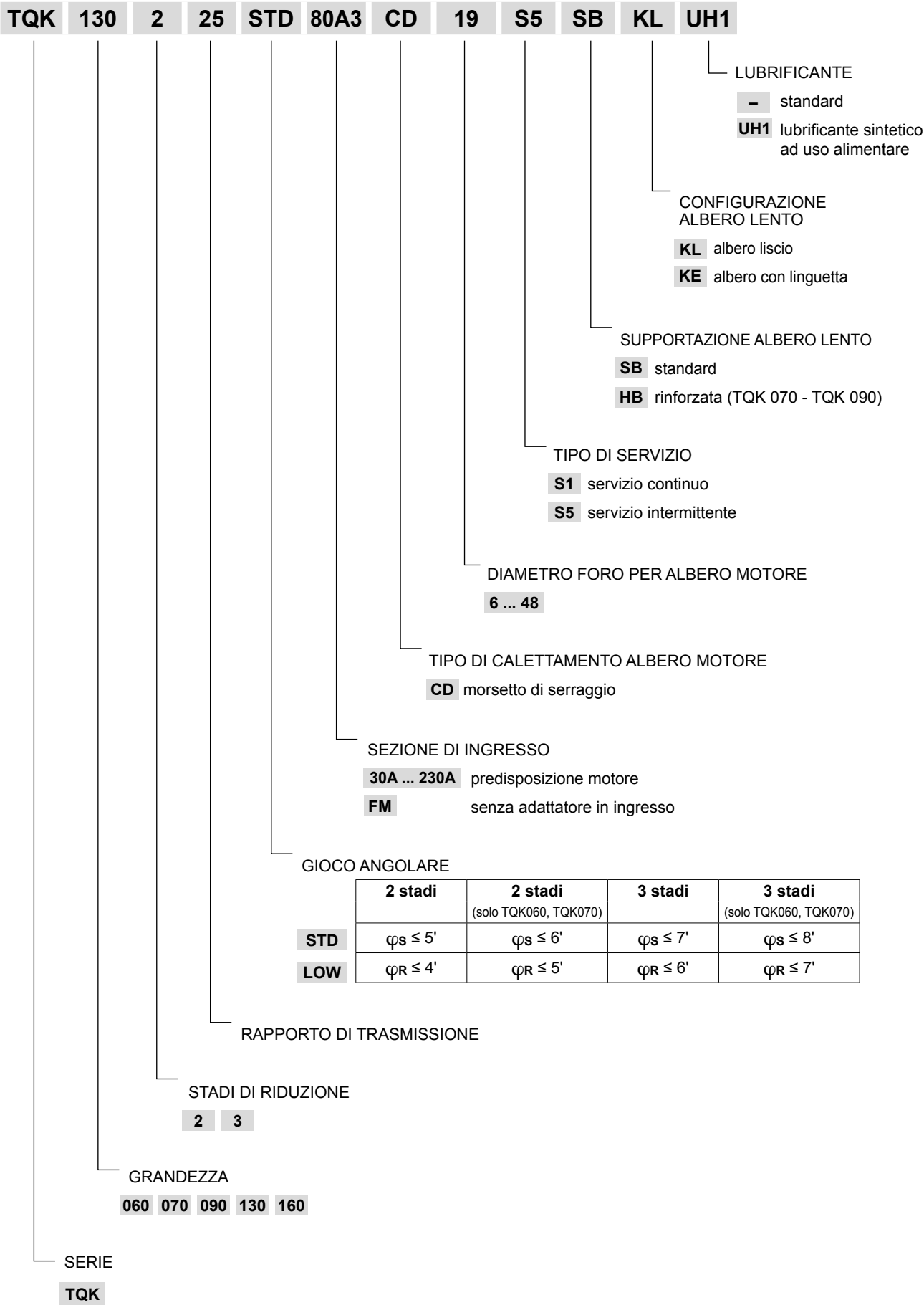
tipo di servizio	TQK 060 ... TQK 160	tenute in uscita
S1 (continuo)	Olio sintetico viscosità ISO VG 220	Fluoro-elastomero
S5 (intermittente)	NLGI grasso con grado di consistenza 00	NBR

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

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



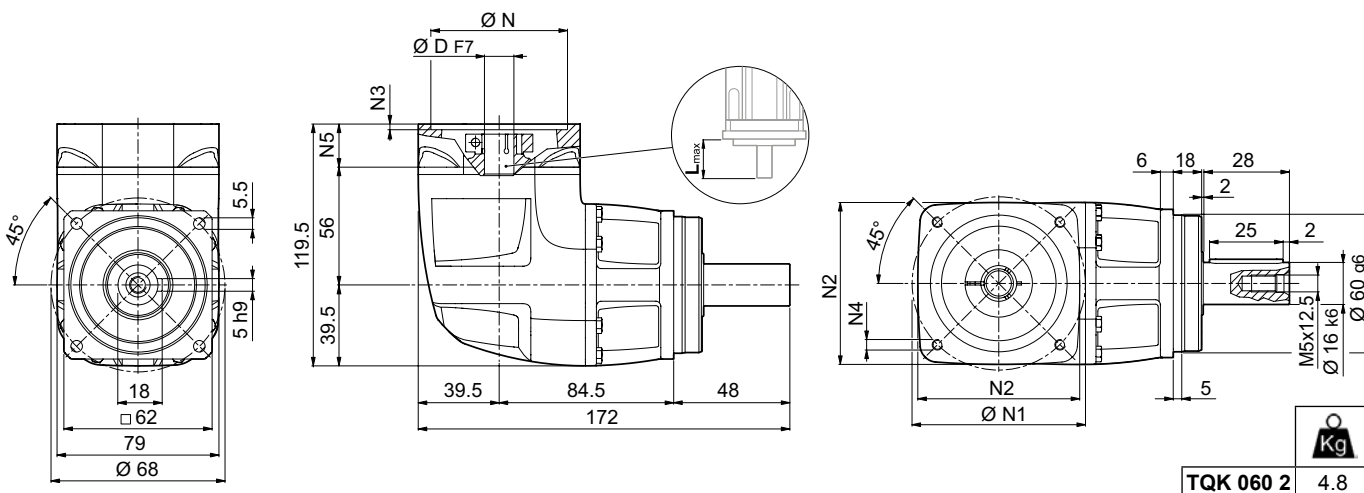
3.1 CODICE ORDINATIVO



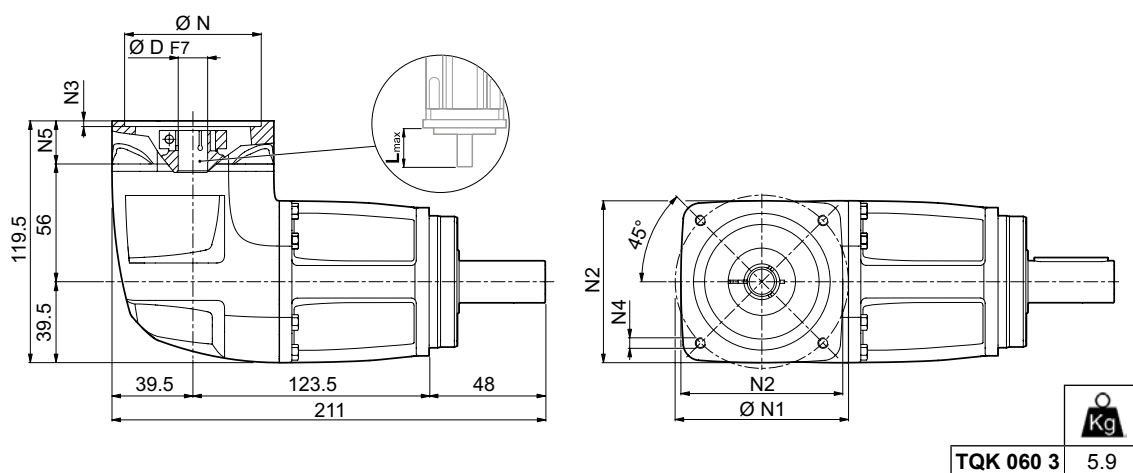
3.2 DIMENSIONI E DATI TECNICI

TQK 060

TQK



30A ... 110B0



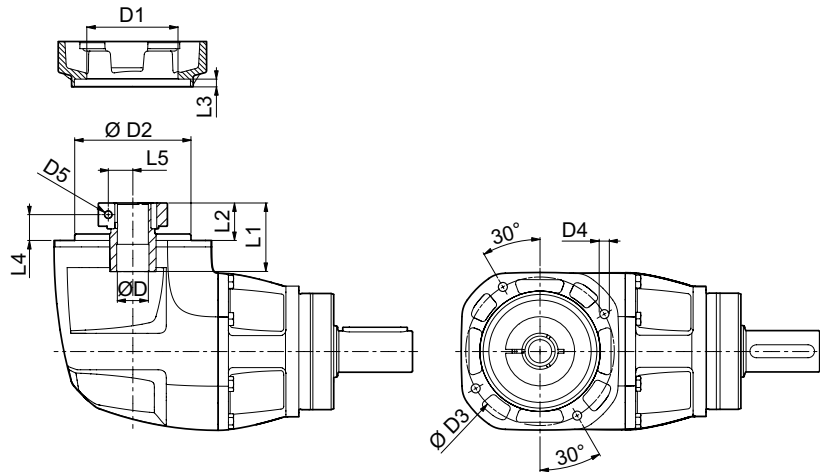
							N	N1	N2	N3	N4	N5	Lmax
30A	6	—	—	—	—		30	46	80	3.5	M4x10	24	40
40B1	6	9	11	14	—		40	63	80	3.5	M4x10	24	40
50A1	6	9	11	14	—		50	60	80	4.0	M4x10	24	40
50C1	6	9	11	14	—		50	70	80	4.0	M4x10	24	40
60A2	6	9	11	14	19		60	75	80	4.0	M5x12	24	40
70B1	6	9	11	14	19		70	90	80	4.0	M5x12	24	40
80A1	6	9	11	14	19		80	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

TQK

FM



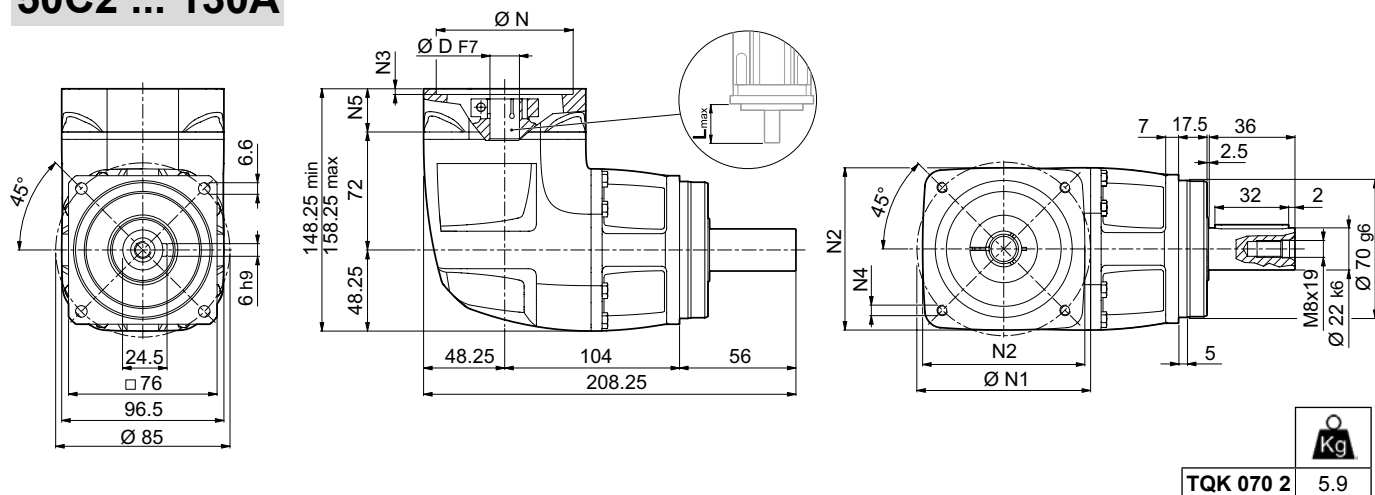
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	37	59	72	M5x11	M4	31.5	15.5	4.5	10.5	8
9	49	59	72	M5x11	M5	35	19	4.5	11.5	10.5
11	49	59	72	M5x11	M6	35	19	4.5	11.5	12.5
14	49	59	72	M5x11	M6	35	19	4.5	11.5	14.5
19	54	59	72	M5x11	M6	35	19	4.5	11.5	16.5

		M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
	i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%		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	

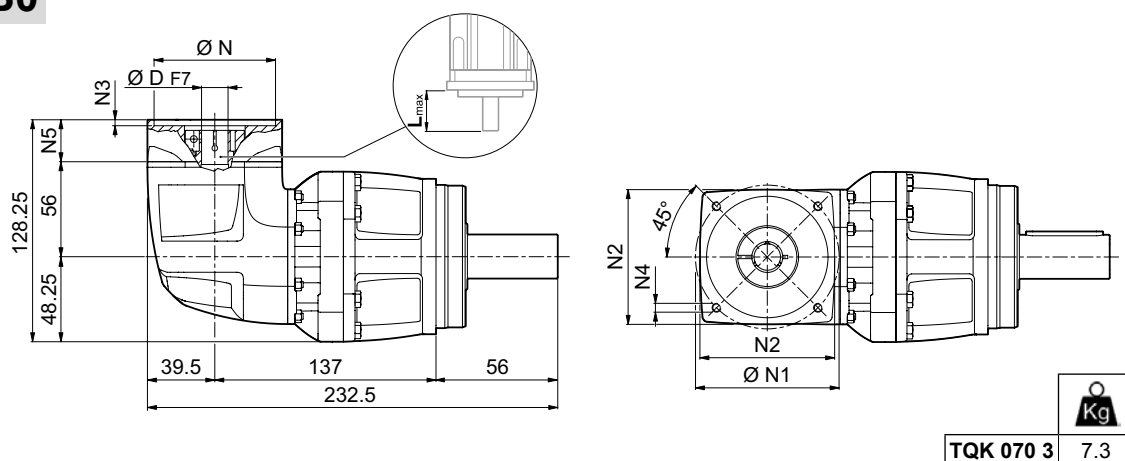
TQK 070

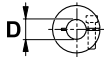
50C2 ... 130A

TQK



30A ... 110B0

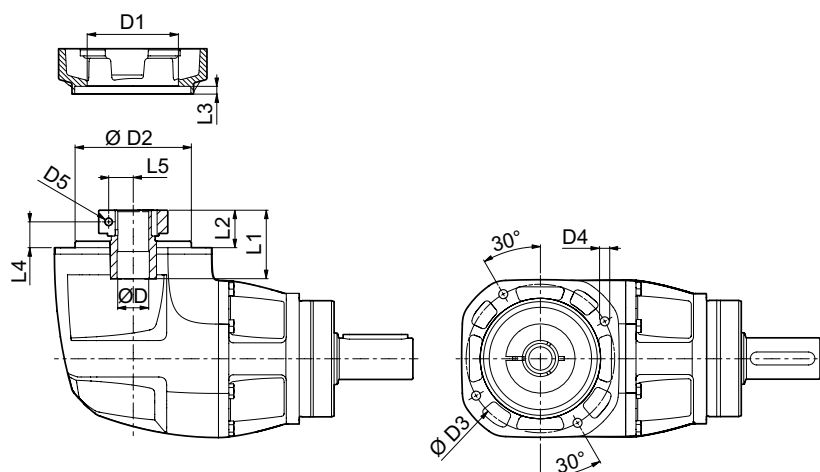


							N	N1	N2	N3	N4	N5	Lmax
TQK 070 2													
50C2	6	9	11	14	—	—	50	70	100	6.5	M4x12	28	50
60A3	6	9	11	14	19	—	60	75	100	6.5	M5x14	28	50
70B2	6	9	11	14	19	—	70	90	100	6.5	M5x14	28	50
80A2	6	9	11	14	19	—	80	100	100	6.5	M6x14	28	50
95A1	6	9	11	14	19	24	95	115	100	6.5	M8x18	28	50
110A1	6	9	11	14	19	24	110	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	80	3.5	M4x10	24	40
40B1	6	9	11	14	—	—	40	63	80	3.5	M4x10	24	40
50A1	6	9	11	14	—	—	50	60	80	4.0	M4x10	24	40
50C1	6	9	11	14	—	—	50	70	80	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.

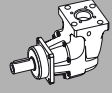
TQK 070

FM



TQK

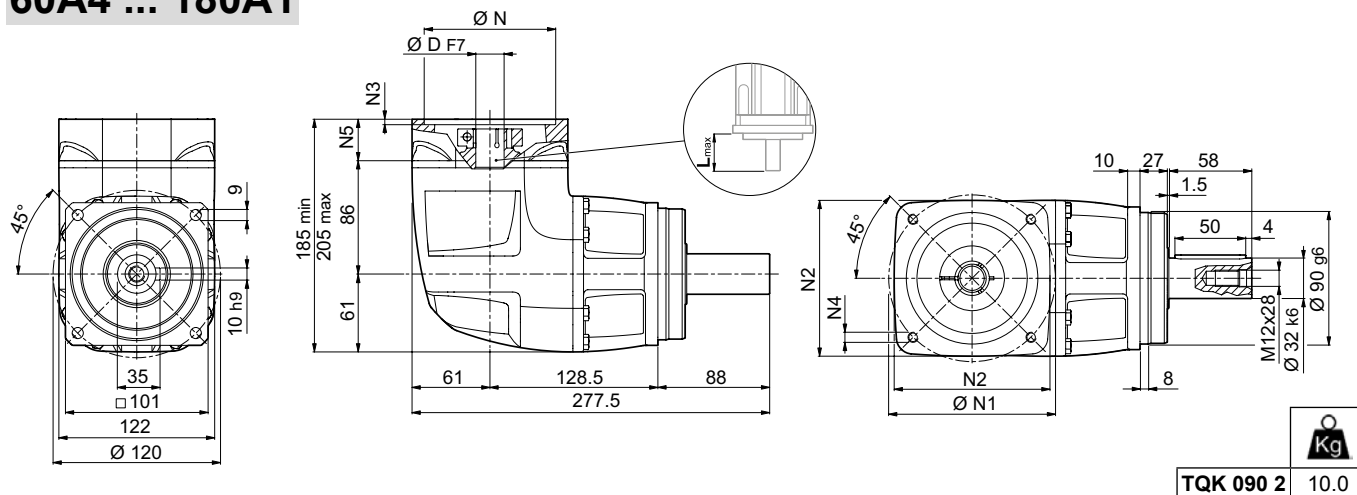
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 070 2										
6	51	70	85	M6x11	M6	42	20	5	12.5	12.5
9	51	70	85	M6x11	M6	42	20	5	12.5	12.5
11	51	70	85	M6x11	M6	42	20	5	12.5	12.5
14	51	70	85	M6x11	M6	42	20	5	12.5	14.5
19	51	70	85	M6x11	M6	42	20	5	12.5	16.5
24	60	70	85	M6x11	M6	43.5	21.5	5	12.5	19
TQK 070 3										
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

	M_n 2	M_a 2	M_p 2	n_1	n_1 max	ψ_S	ψ_R	C_t	SB		HB		η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\frac{Nm}{arcmin}$	$R_{2\ max}$	$A_{2\ max}$	$R_{2\ max}$	$A_{2\ max}$	%	6 - 9	11 - 14	19	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	-

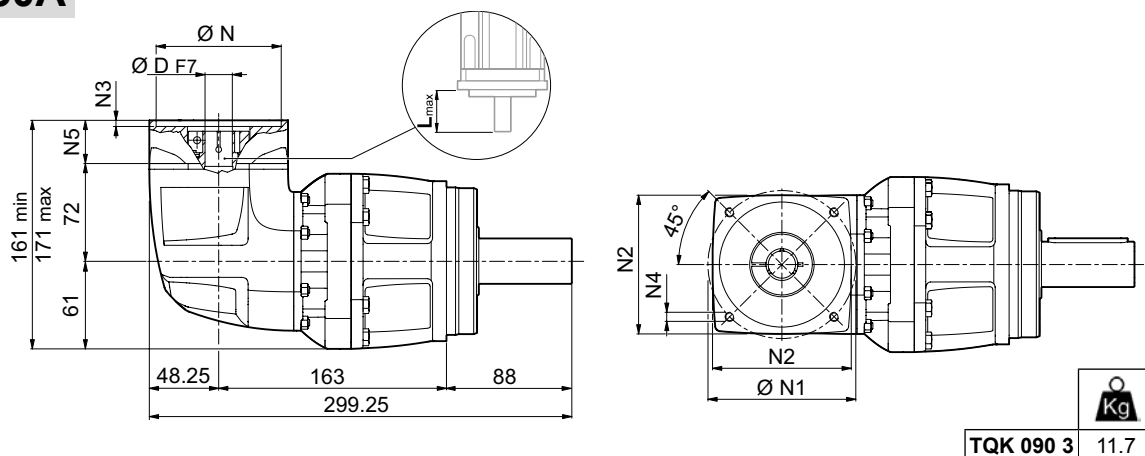
TQK 090

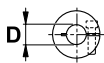
60A4 ... 180A1

TQK



50C2 ... 130A

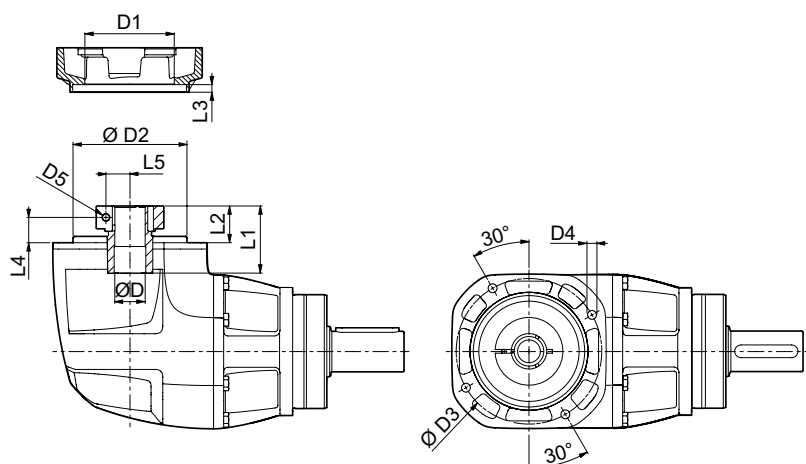


							N	N1	N2	N3	N4	N5	L _{max}
TQK 090 2													
60A4	11	14	19	—	—	—	60	75	125	6.5	M5x14	38	60
80A3	11	14	19	—	—	—	80	100	125	6.5	M6x14	38	60
95A2	11	14	19	24	28	—	95	115	125	6.5	M8x18	38	60
110A2	11	14	19	24	—	—	110	130	125	6.5	M8x20	38	60
110B1	11	14	19	24	28	—	110	145	125	6.5	M8x20	38	60
130A1	11	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	100	6.5	M4x12	28	50
60A3	11	14	19	—	—	—	60	75	100	6.5	M5x14	28	50
70B2	11	14	19	—	—	—	70	90	100	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.

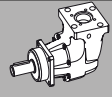
TQK 090

FM



TQK

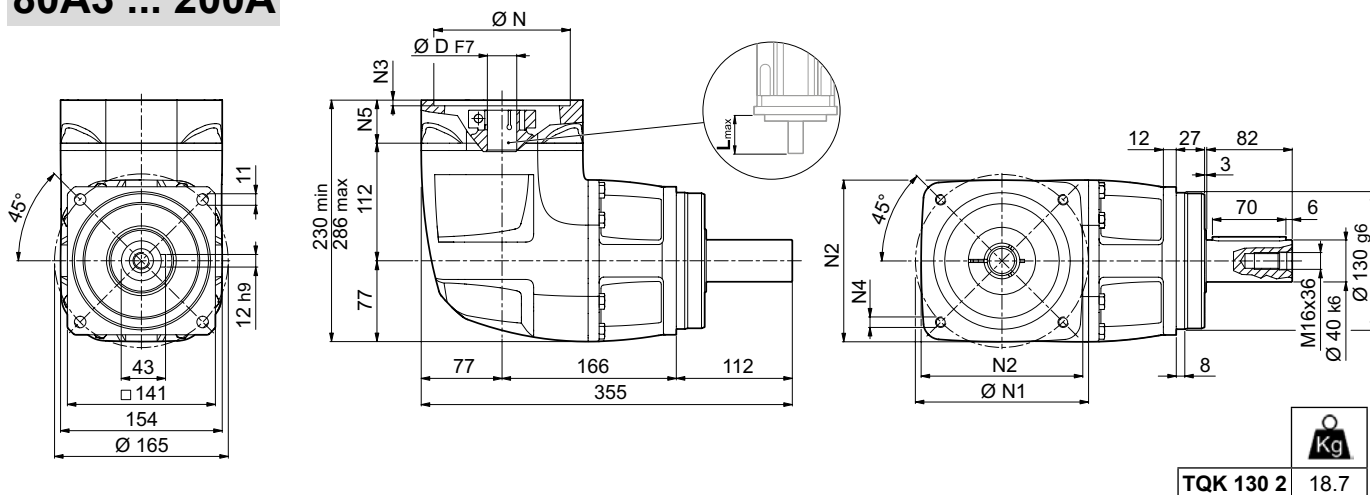
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 090 2										
11	51	90	115	M9x13	M6	50	28	6.5	20.5	14.5
14	51	90	115	M8x13	M6	50	28	6.5	20.5	14.5
19	51	90	115	M8x13	M6	50	28	6.5	20.5	16.5
24	60	90	115	M8x13	M6	51.5	29.5	6.5	20.5	19
28	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	22.5
32	72	90	115	M8x13	M8	51.5	29.5	6.5	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

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	SB		HB		η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤		$\left[\frac{Nm}{arcmin} \right]$	R_{2max}	A_{2max}	R_{2max}	A_{2max}	%	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	-

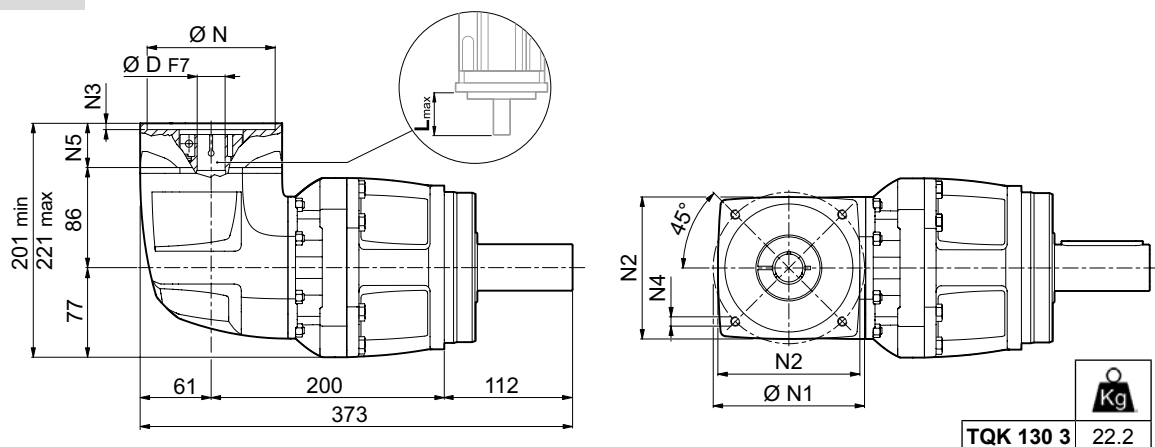
TQK 130

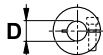
80A3 ... 200A

TQK



60A4 ... 180A1

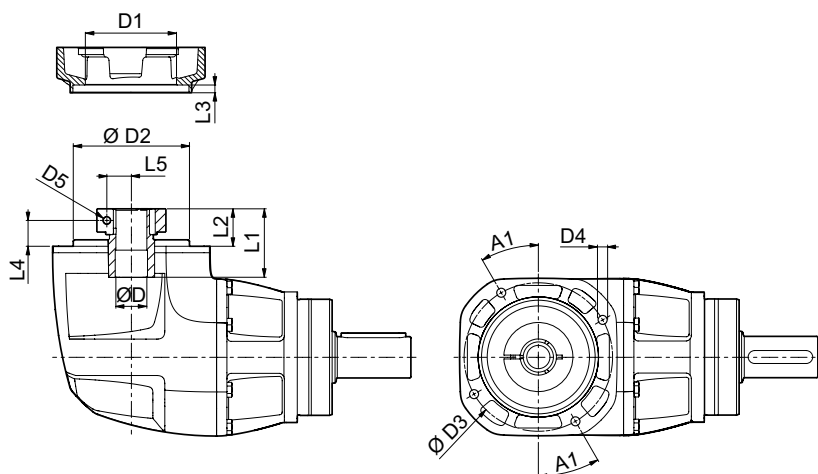


								N	N1	N2	N3	N4	N5	L _{max}
TQK 130 2														
80A3	14	19	—	—	—	—	—	80	100	155	6.5	M6x14	41	60
95A2	14	19	24	28	—	—	—	95	115	155	6.5	M8x18	41	60
110A2	14	19	24	—	—	—	—	110	130	155	6.5	M8x20	41	60
110B1	14	19	24	28	—	—	—	110	145	155	6.5	M8x20	41	60
130A1	14	19	24	28	32	—	—	130	165	155	6.5	M10x20	41	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	220	6.5	M14x28	97	110
TQK 130 3														
60A4	14	19	—	—	—	—	—	60	75	125	6.5	M5x14	38	60
80A3	14	19	—	—	—	—	—	80	100	125	6.5	M6x14	38	60
95A2	14	19	24	28	—	—	—	95	115	125	6.5	M8x18	38	60
110A2	14	19	24	-	—	—	—	110	130	125	6.5	M8x20	38	60
110B1	14	19	24	28	—	—	—	110	145	125	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



TQK

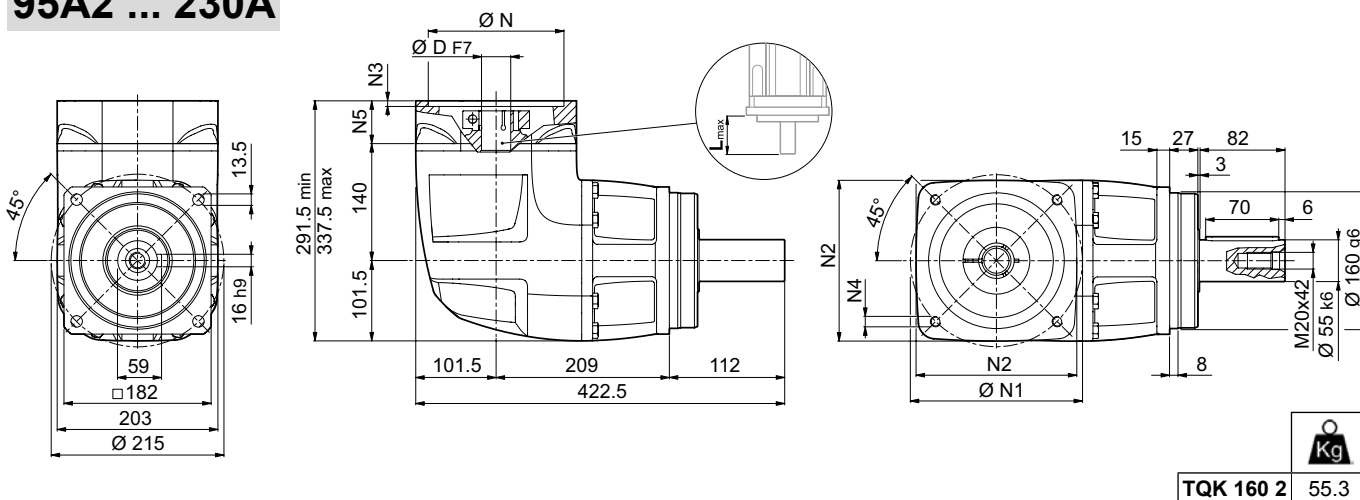
	A1	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 130 2											
14	22°	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
19	22°	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
24	22°	70	120	140	M10x16	M6	51.5	32.5	7.5	23.5	19
28	22°	70	120	140	M10x16	M8	51.5	32.5	7.5	23.5	22.5
32	22°	72	120	140	M10x16	M8	51.5	32.5	7.5	23.5	24.5
38	22°	100	120	140	M10x16	M8	54	35	7.5	23.5	28
42	22°	114	120	140	M10x16	M10	51.5	38.5	7.5	23.5	33
TQK 130 3											
14	30°	51	90	115	M8x13	M6	50	28	6.5	20.5	14.5
19	30°	51	90	115	M8x13	M6	50	28	6.5	20.5	16.5
24	30°	60	90	115	M8x13	M6	51.5	29.5	6.5	20.5	19
28	30°	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	22.5
32	30°	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	24.5

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	ψ_S	ψ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]				
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤ [arcmin]		$\frac{Nm}{arcmin}$	[N]	[N]	%					
												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	–	–

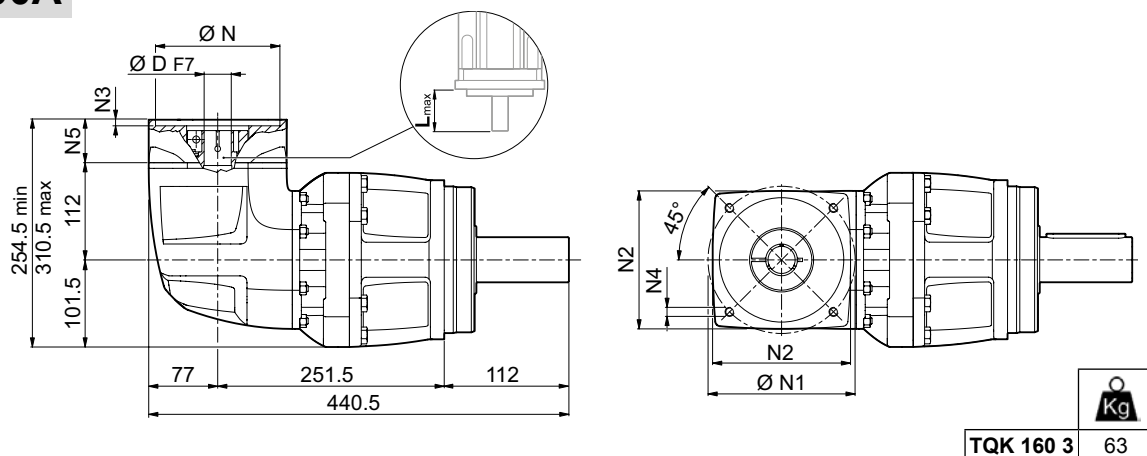
TQK 160

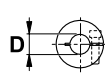
95A2 ... 230A

TQK



80A3 ... 200A

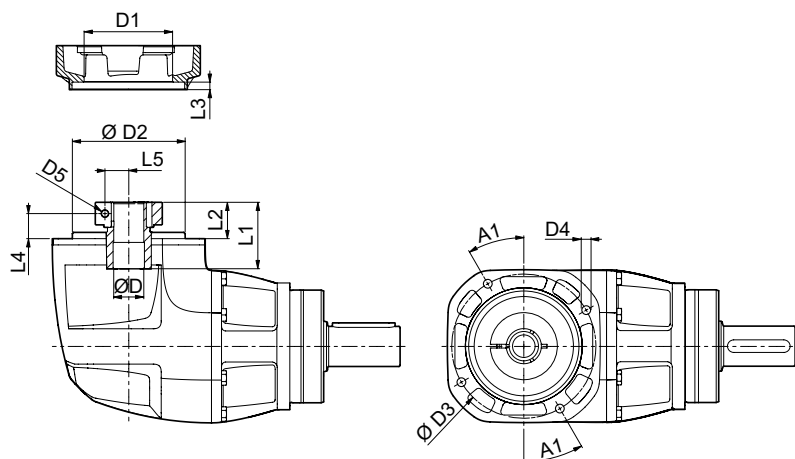


								N	N1	N2	N3	N4	N5	L _{max}
TQK 160 2														
95A2	19	24	28	—	—	—	—	95	115	205	6.5	M8x20	50	60
110A2	19	24	—	—	—	—	—	110	130	205	6.5	M8x20	50	60
130A1	19	24	28	32	—	—	—	130	165	205	6.5	M10x20	50	60
180A	19	24	28	32	—	—	—	180	215	205	6.5	M14x28	50	60
180A1	19	24	28	32	38	—	—	180	215	205	6.5	M14x28	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	155	6.5	M6x14	41	60
95A2	19	24	28	—	—	—	—	95	115	155	6.5	M8x18	41	60
110A2	19	24	—	—	—	—	—	110	130	155	6.5	M8x20	41	60
110B1	19	24	28	—	—	—	—	110	145	155	6.5	M8x20	41	60
130A1	19	24	28	32	—	—	—	130	165	155	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	220	6.5	M14x28	97	110

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

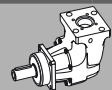
TQK 160

FM



TQK

	A1	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 160 2											
19	30°	58	150	175	M12x20	M6	47	37	9.5	28	19
24	30°	58	150	175	M12x20	M6	47	37	9.5	28	19
28	30°	70	150	175	M12x20	M8	47	37	9.5	28	22.5
32	30°	72	150	175	M12x20	M8	47	37	9.5	28	24.5
38	30°	100	150	175	M12x20	M8	59.5	39.5	9.5	28	28
42	30°	114	150	175	M12x20	M10	57	45	9.5	28	33
48	30°	125	150	175	M12x20	M12	57	45	9.5	28	36.5
TQK 160 3											
19	22°	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
24	22°	70	120	140	M10x16	M6	51.5	32.5	7.5	23.5	19
28	22°	70	120	140	M10x16	M8	51.5	32.5	7.5	23.5	22.5
32	22°	72	120	140	M10x16	M8	51.5	32.5	7.5	23.5	24.5
38	22°	100	120	140	M10x16	M8	54	35	7.5	23.5	28
42	22°	114	120	140	M10x16	M10	51.5	38.5	7.5	23.5	33

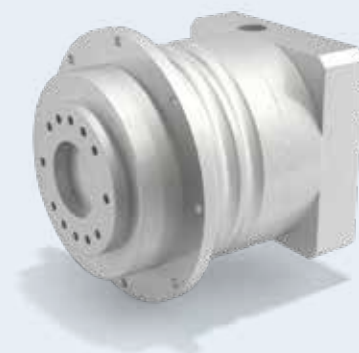
	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]				
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤ [arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%					
												19	24 - 28	32 - 38	42	48
TQK 160 2_6	420	630	840	1600	4000	5'	4'	167	15000	13000	94	-	73.33	73.51	75.57	79.19
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	-

RIDUTTORI EPICICLOIDALI DI PRECISIONE IN LINEA

Serie TQF

La serie TQF rappresenta la soluzione ideale per applicazioni di precisione che richiedono elevati sovraccarichi e installazione direttamente su albero con flangia rotante. Si caratterizza per un'interfaccia di uscita standardizzata e un design estremamente compatto su tutte e 5 le taglie disponibili. Il design della TQF si distingue per elevato momento di ribaltamento, alta rigidità e capacità di sovraccarico.

(P)



TQF

VANTAGGI PRINCIPALI

- L'elevata rigidità torsionale della TQF garantisce un'eccellente precisione del percorso anche in presenza di sovraccarichi frequenti
- Installazione robusta grazie all'interfaccia flangiata di uscita standardizzata
- Design mirato per cicli di servizio continui (S1) o intermittenti (S5)
- Adatta a diversi ambienti grazie al suo grado di protezione IP65

OPZIONI PRINCIPALI

Versioni ingresso		Lubrificazione		Tipo di servizio	
					
PREDISPOSIZIONE MOTORE	SENZA PREDISPOSIZIONE MOTORE	STANDARD	PER USO ALIMENTARE	S1	S5

DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto	Standard		
060	30	4-100	3	5	12	115
070	70	4-100	3	5	29	318
090	200	4-100	3	5	70	430
130	400	4-100	3	5	180	1200
160	800	4-100	3	5	500	3700

1) Valore migliore disponibile per ciascuna taglia.

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.

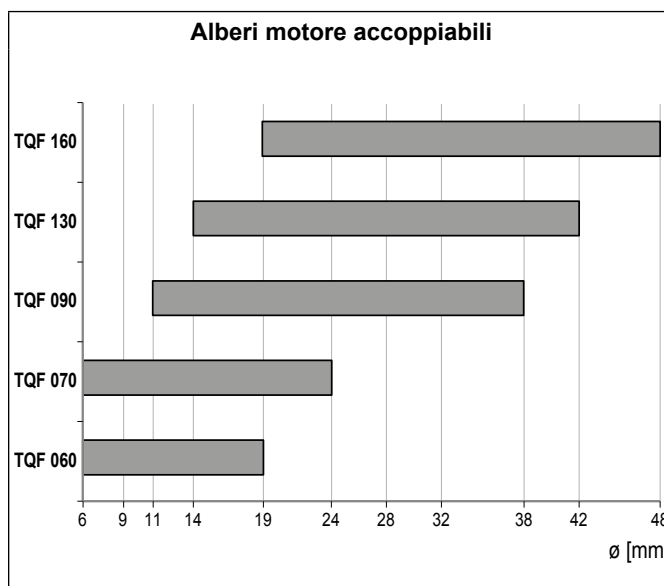
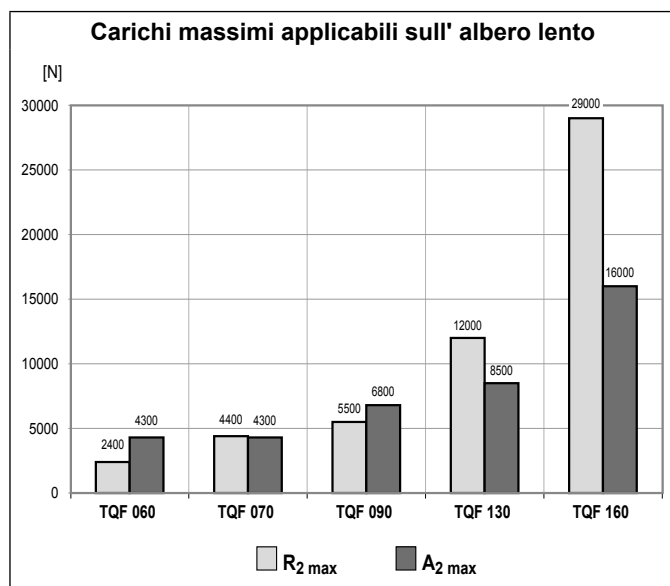
Il loro design e la loro forma costruttiva sono stati studiati con l'obiettivo di poter offrire una linea di prodotti con prestazioni eccezionali, i più alti livelli di rigidità, gioco ridotto e compattezza.

- 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 $60 \leq L_p \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1=3000 \text{ min}^{-1}$; $i=10$.
- 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.

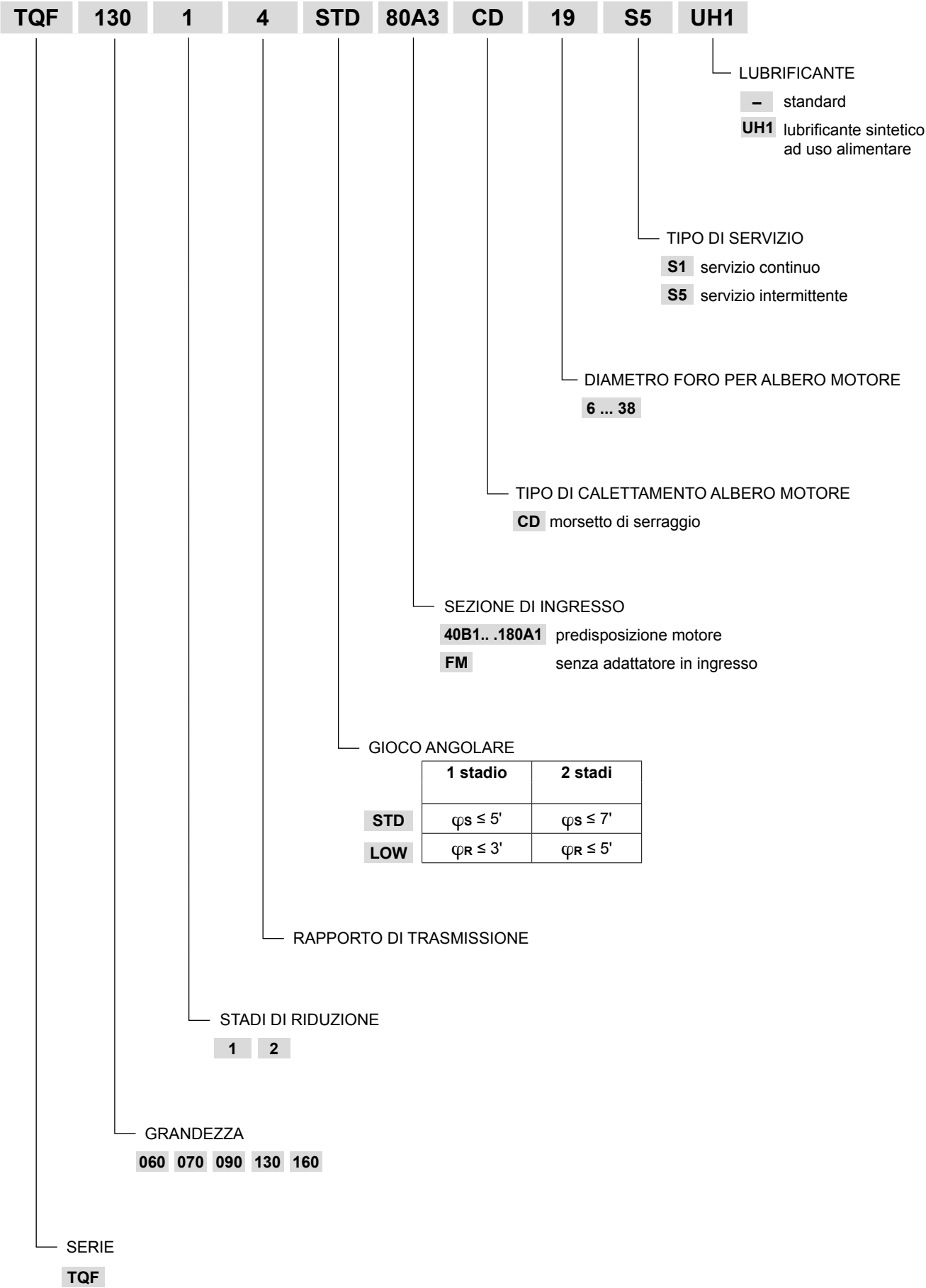
tipo di servizio	TQF 060 ... TQF 160	tenute in uscita
S1 (continuo)	Olio sintetico viscosità ISO VG 220	Fluoro-elastomero
S5 (intermittente)	NLGI grasso con grado di consistenza 00	NBR

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

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

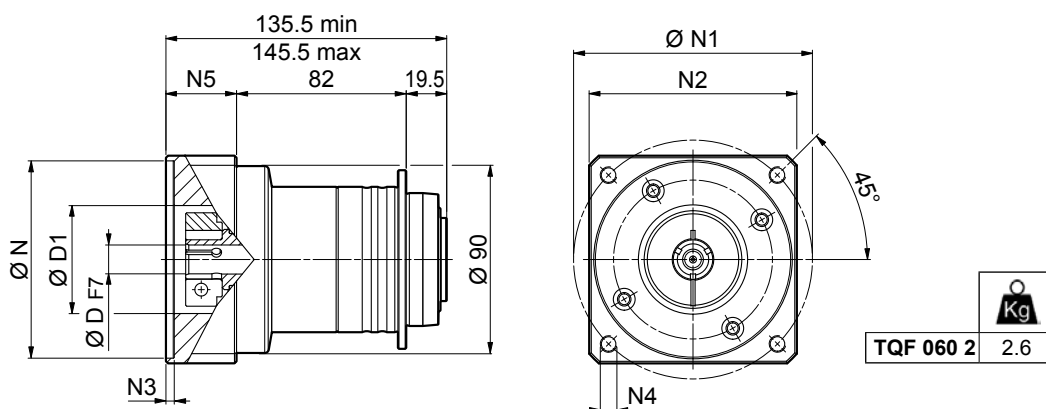
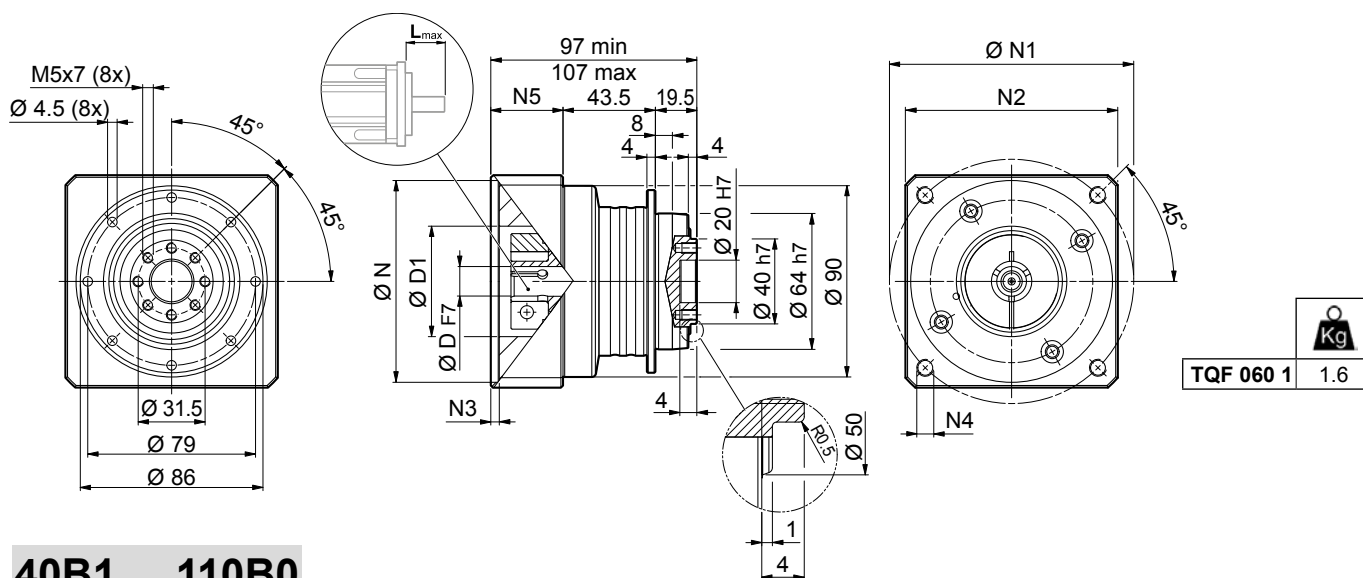


TQF



4.2 DIMENSIONI E DATI TECNICI

TQF 060

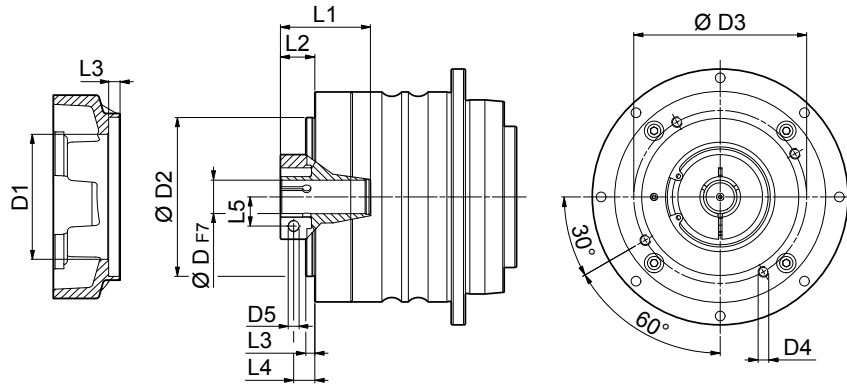


							N	N1	N2	N3	N4	N5	L _{max}
40B1	6	9	11	14	-		40	63	80	4	M4x12	34	40
50A1	6	9	11	14	-		50	60	80	4	M4x10	34	40
50C1	6	9	11	14	-		50	70	80	4	M4x10	34	40
60A2	6	9	11	14	19		60	75	80	4	M5x16	34	40
70B1	6	9	11	14	19		70	90	80	4	M5x16	34	40
80A1	6	9	11	14	19		80	100	90	4	M6x16	34	40
95A	6	9	11	14	19		95	115	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



TQF

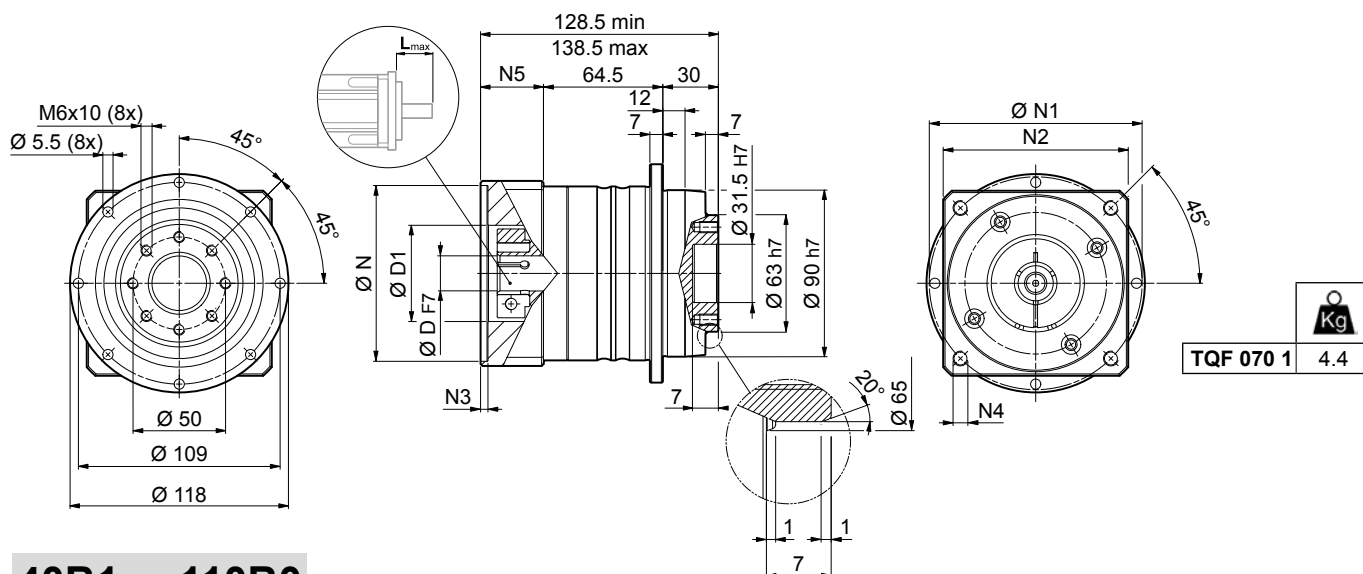
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	37	68	76.5	M6x12	M4	31.5	21	7.5	16	8
9	49	68	76.5	M6x12	M5	35	24.5	7.5	17	10.5
11	49	68	76.5	M6x12	M6	35	24.5	7.5	17	12.5
14	49	68	76.5	M6x12	M6	35	24.5	7.5	17	14.5
19	54	68	76.5	M6x12	M6	35	24.5	7.5	17	16.5

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]		
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤ [arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%			
												6 - 9	11 - 14	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

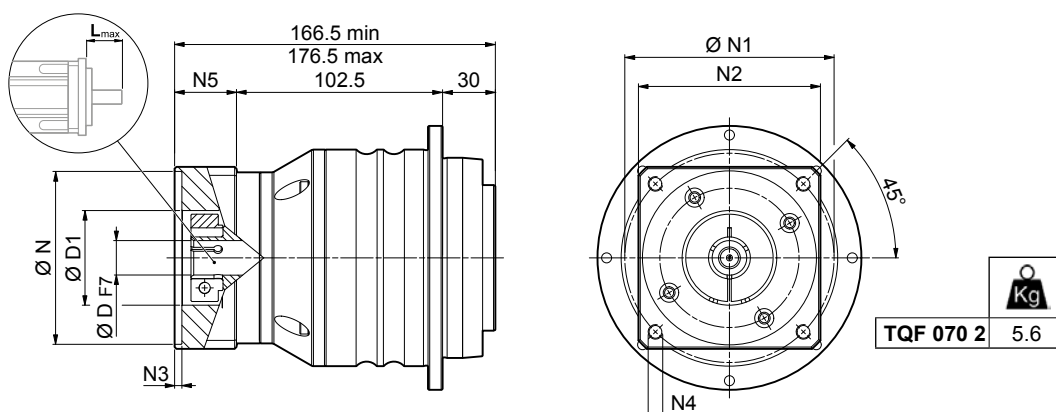


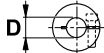
TQF 070

50C2 ... 130A



40B1 ... 110B0

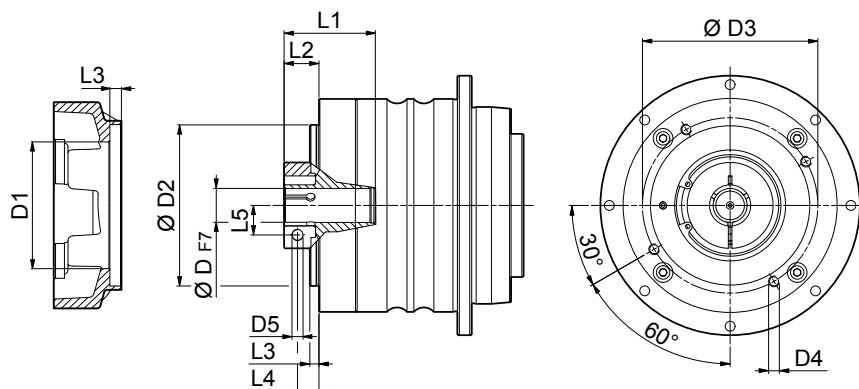


							N	N1	N2	N3	N4	N5	L _{max}
TQF 070 1													
50C2	6	9	11	14	-	-	50	70	80	4	M4x10	34	50
60A3	6	9	11	14	19	-	60	75	80	4	M5x16	34	50
70B2	6	9	11	14	19	-	70	90	80	4	M5x16	34	50
80A2	6	9	11	14	19	-	80	100	90	4	M6x16	34	50
95A1	6	9	11	14	19	24	95	115	100	6.5	M8x20	34	50
110A1	6	9	11	14	19	24	110	130	115	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



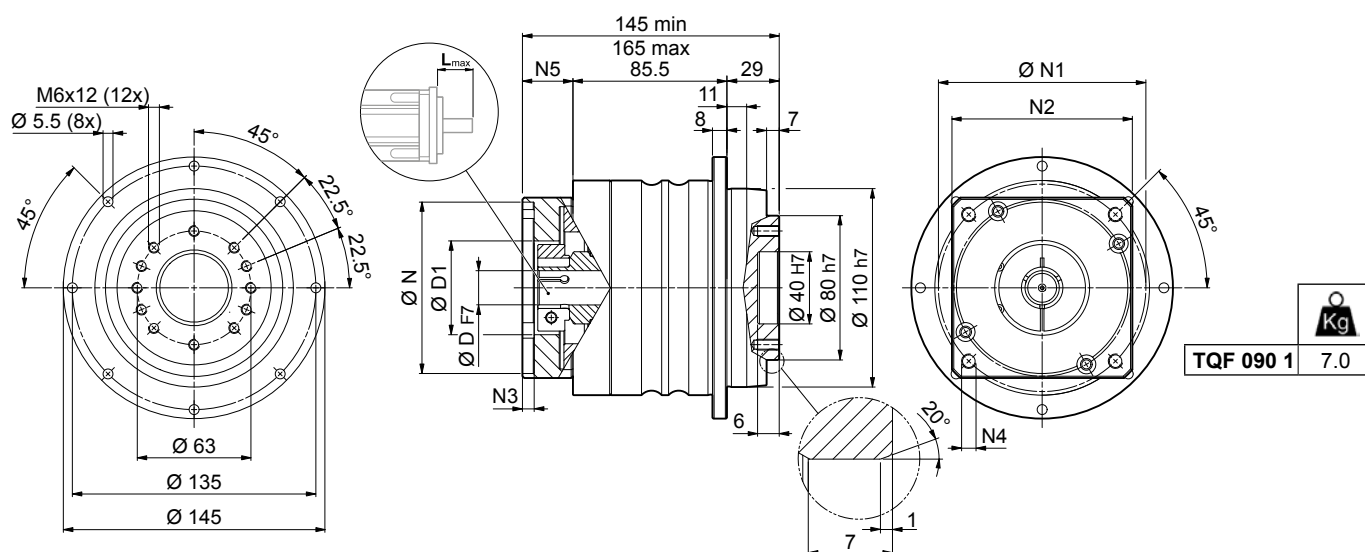
TQF

	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

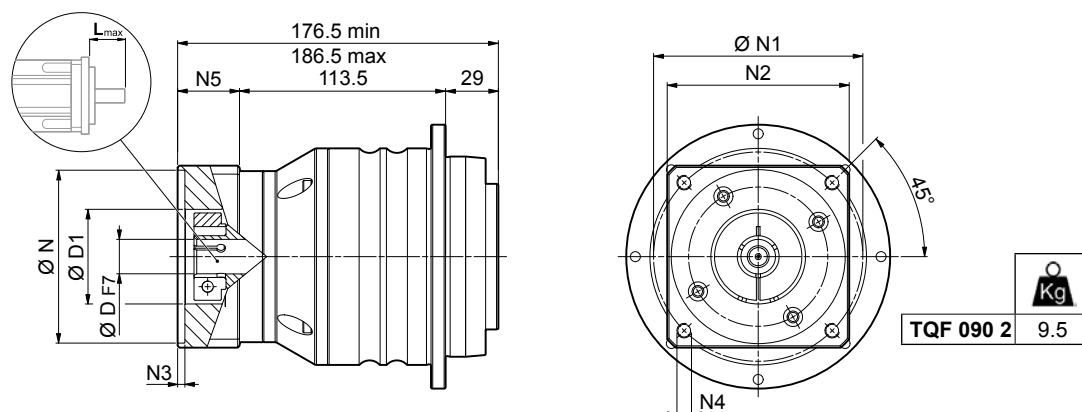
	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	6 - 9	11 - 14	19	24
TQF 070 1_4	70	100	180	3000	6000	5'	3'	29	4400	4300	97	-	1.05	1.09	1.22
TQF 070 1_5	70	100	180	3000	6000	5'	3'	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



50C2 ... 130A

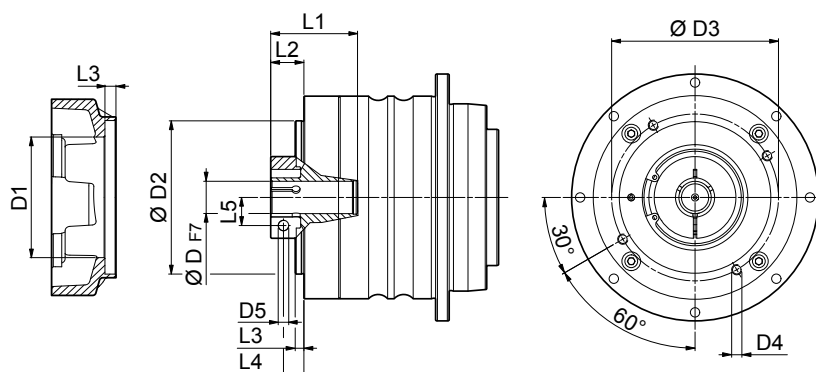


							N	N1	N2	N3	N4	N5	L _{max}
TQF 090 1													
60A4	11	14	19	-	-	-	60	75	100	6.5	M5x14	28	60
80A3	11	14	19	-	-	-	80	100	100	6.5	M6x16	28	60
95A2	11	14	19	24	28	-	95	115	100	6.5	M8x18	28	60
110A2	11	14	19	24	-	-	110	130	115	6.5	M8x18	28	60
110B1	11	14	19	24	-	-	110	145	120	6.5	M8x20	38	60
130A1	11	14	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



TQF

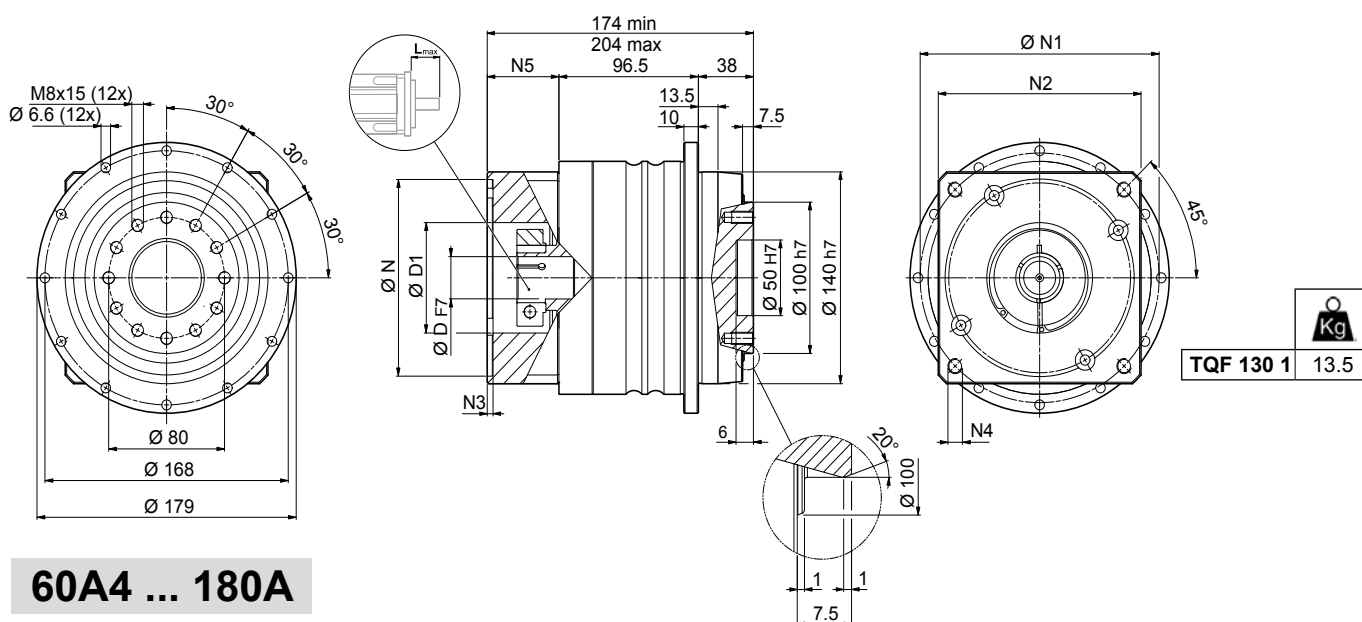
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 090 1										
11	49	90	98	M6x12	M6	50	17	4	9.5	12.5
14	51	90	98	M6x12	M6	50	17	4	9.5	14.5
19	51	90	98	M6x12	M6	50	17	4	9.5	16.5
24	60	90	98	M6x12	M6	51.5	18.5	4	9.5	19
28	72	90	98	M6x12	M8	51.5	18.5	4	9.5	22.5
32	72	90	98	M6x12	M8	51.5	21	5	12	24.5
TQF 090 2										
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

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]				
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\leq$	$\frac{Nm}{arcmin}$	[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	-	-

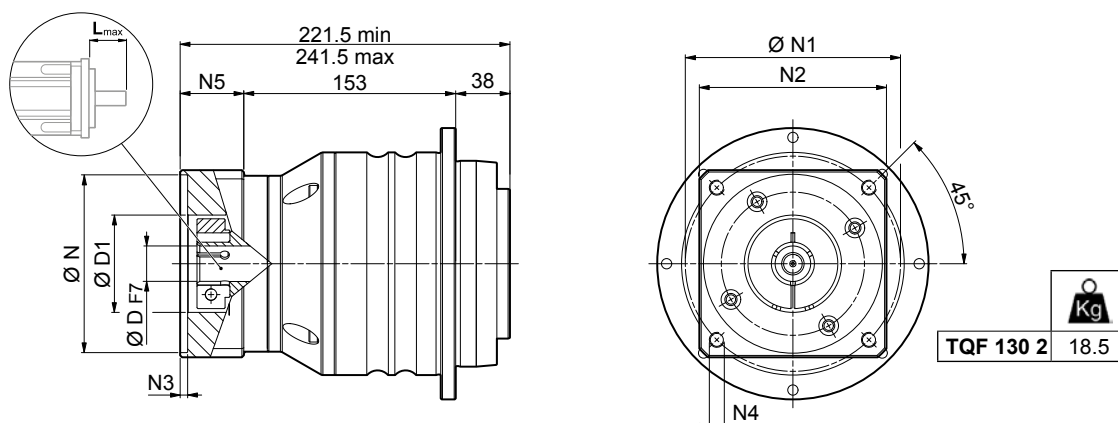


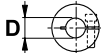
TQF 130

80A3 ... 180A1



60A4 ... 180A

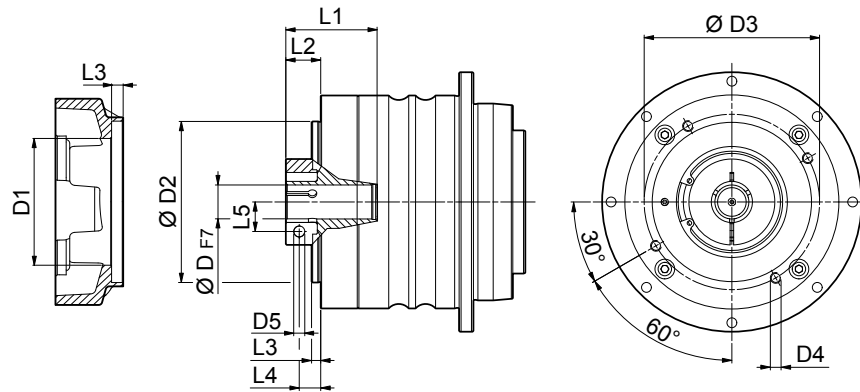


							N	N1	N2	N3	N4	N5	L _{max}
TQF 130 1													
80A3	14	19	-	-	-	-	80	100	130	4	M6x15	39.5	60
95A2	14	19	24	28	-	-	95	115	130	6.5	M8x20	39.5	60
110A2	14	19	24	-	-	-	110	130	130	4	M8x20	39.5	60
110B1	14	19	24	-	-	-	110	145	130	6.5	M8x20	49.5	60
130A1	14	19	24	28	32	-	130	165	140	4	M10x20	39	60
180A	14	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



TQF

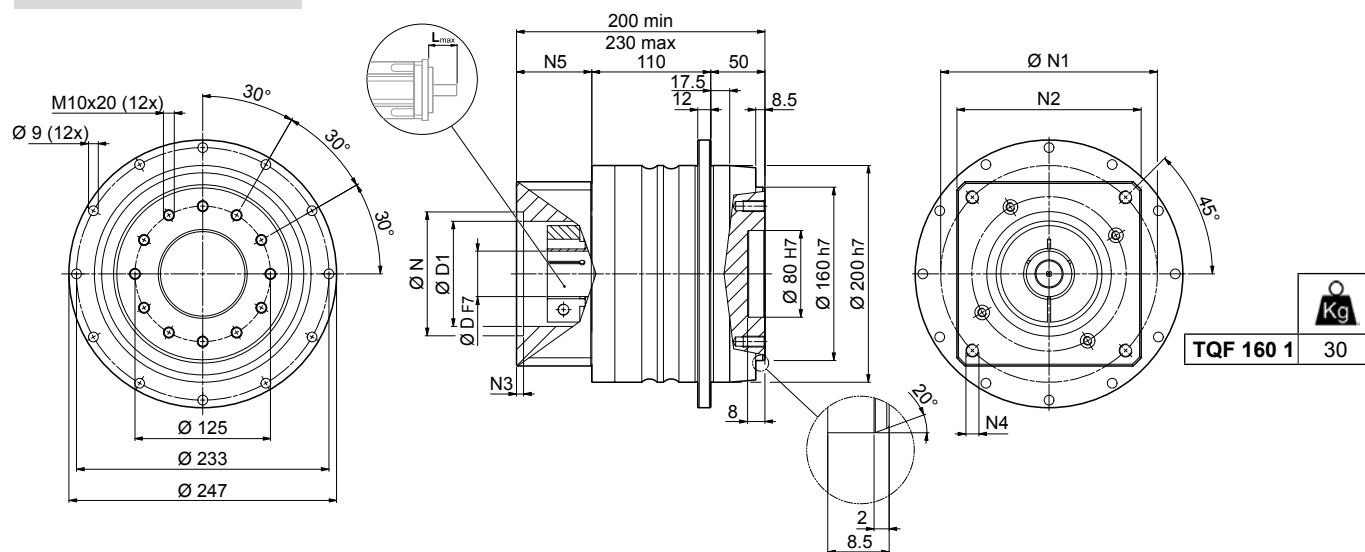
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 130 1										
14	51	113	125.5	M8x16	M6	50	27.5	5	23	14.5
19	54	113	125.5	M8x16	M6	50	27.5	5	20	16.5
24	70	113	125.5	M8x16	M6	51.5	29	5	20	19
28	70	113	125.5	M8x16	M8	51.5	29	5	20	22.5
32	72	113	125.5	M8x16	M8	51.5	29	5	20	24.5
38	100	113	125.5	M8x16	M8	54	31.5	5	20	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

	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%				
												14	19 - 24	28 - 32	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	-

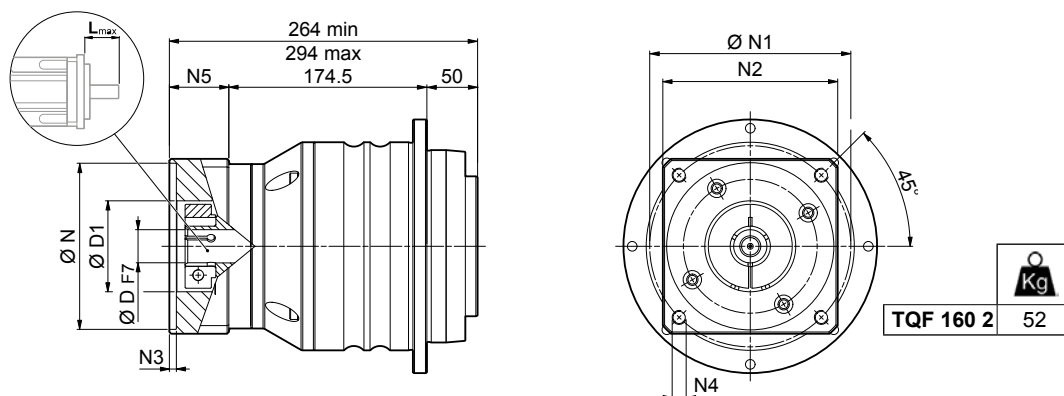


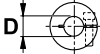
TQF 160

95A2 ... 180A1



80A3 ... 180A1

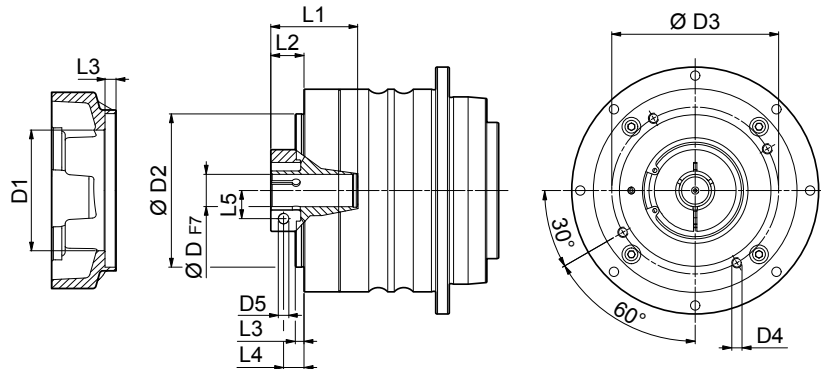


							N	N1	N2	N3	N4	N5	L _{max}
TQF 160 1													
95A2	19	24	28	-	-		95	115	140	6.5	M8x20	39.5	60
110A2	19	24	-	-	-		110	130	140	5	M8x20	39.5	60
130A1	19	24	28	32	-		130	165	140	5	M10x20	39.5	60
180A	-	24	28	32	-		180	215	190	6.5	M14x25	49.5	60
180A1	19	24	28	32	38		180	215	190	6.5	M14x25	69.5	80
TQF 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



TQF

	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

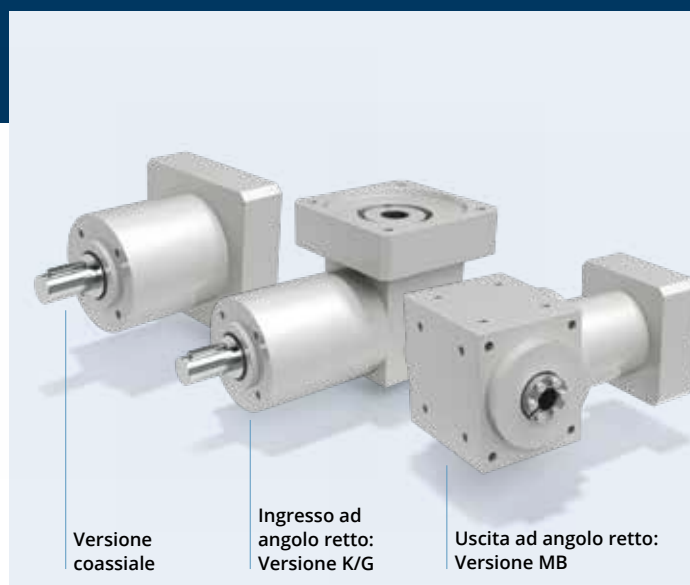
	M_{N2}	M_{a2}	M_{p2}	n_1	$n_1 \max$	φ_S	φ_R	C_t	$R_2 \max$	$A_2 \max$	η	$J_G \text{ [kgcm}^2\text{]}$		
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\leq$	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	19	24 - 28	32 - 38
TQF 160 1_4	800	1200	2000	1500	3500	5'	3'	500	29000	16000	97	-	27,10	27.51
TQF 160 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

RIDUTTORI EPICICLOIDALI DI PRECISIONE IN LINEA E AD ANGOLO RETTO

Serie TR

Oltre a prestazioni ottimali, gioco estremamente ridotto, elevata capacità di sovraccarico e facilità d'installazione, la serie TR è una gamma consolidata e affidabile, che offre il miglior rapporto qualità/prezzo nelle applicazioni di precisione.

Grazie a un'eccellente modularità, la serie TR propone molteplici configurazioni costruttive e un'ampia gamma di rapporti di riduzione.



Versione coassiale

Ingresso ad angolo retto: Versione K/G

Uscita ad angolo retto: Versione MB

TR

VANTAGGI PRINCIPALI

- Soluzione economica per applicazioni che richiedono gioco minimo e dinamica media
- Massima flessibilità grazie all'ampia scelta di rapporti di riduzione e configurazioni costruttive
- Grande varietà di configurazioni lato ingresso e lato uscita
- Adatta a diversi ambienti grazie al suo grado di protezione IP65

OPZIONI PRINCIPALI

Forme costruttive



Tipo di servizio



Versioni ingresso



Lubrificazione



Versioni alberi lenti



Cuscinetti



DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto [arcmin]	Standard		
053	20	3-1000	-	5	1	16
060	30	3-1000	3	5	3	23
080	70	3-1000	3	5	8	155
105	170	3-1000	3	5	24	278
130	450	3-1000	3	5	45	515
160	700	3-1000	3	5	90	739
190	1000	3-1000	3	5	130	1683

¹⁾ Valore migliore disponibile per ciascuna taglia.

5 CARATTERISTICHE DELLA SERIE TR

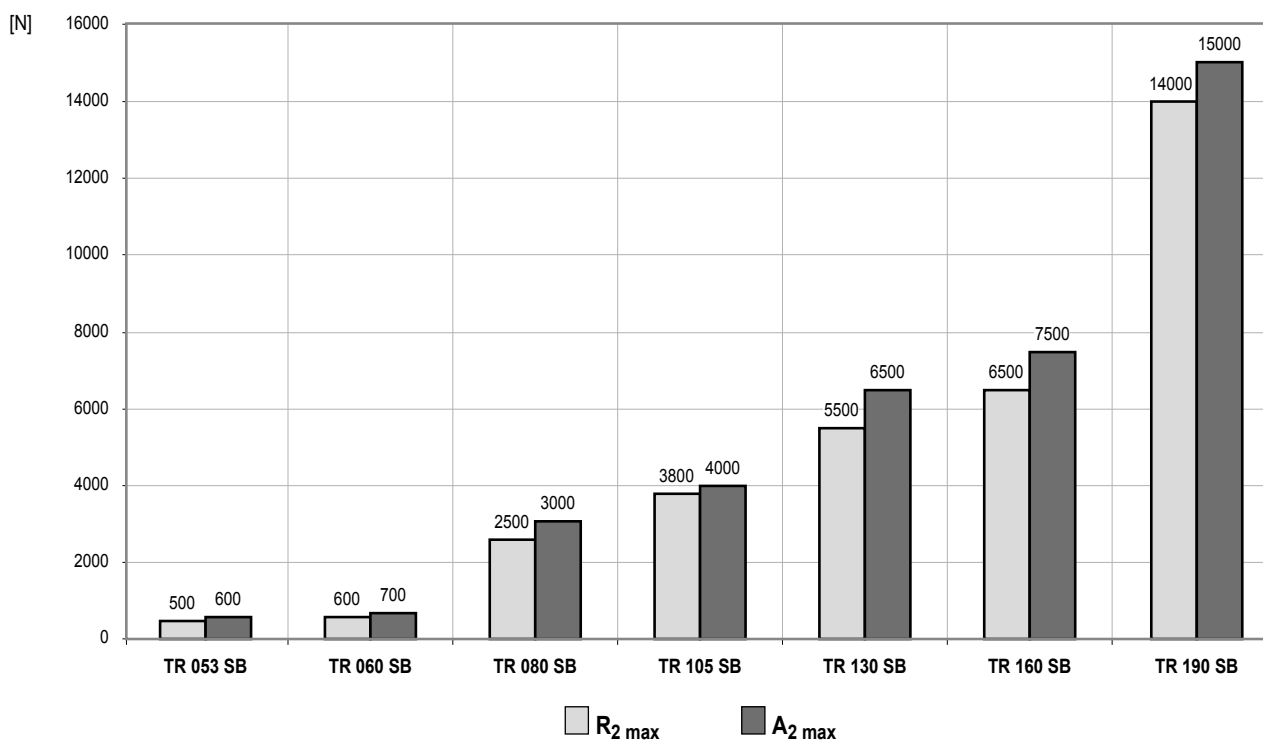
I riduttori epicicloidali a gioco ridotto della serie TR costituiscono una gamma assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio senza la richiesta 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..

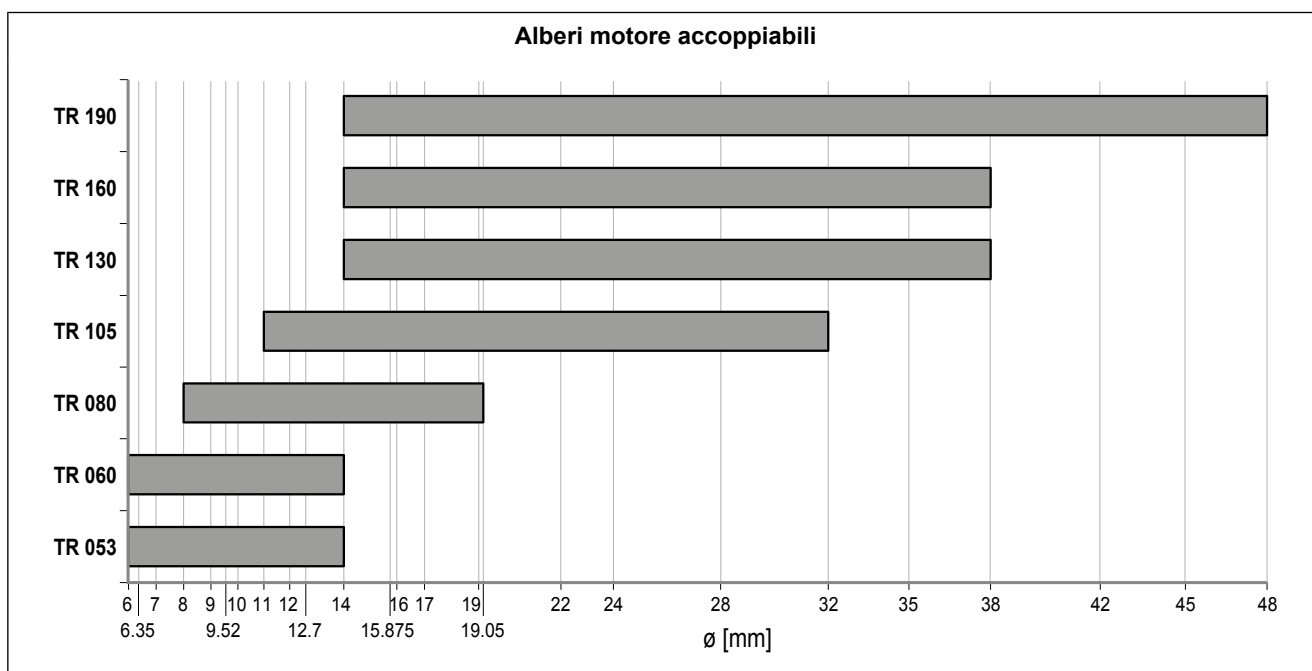
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
 1 stadio di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 3'$
 2 stadi di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 3'$
 3 stadi di riduzione (solo G e MB): standard $\varphi_R \leq 5'$; 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 dotate di mescola in fluoro-elastomero fornite per il ciclo intermittente S1.
- 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							

Carichi massimi applicabili sull' albero lento



- 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.

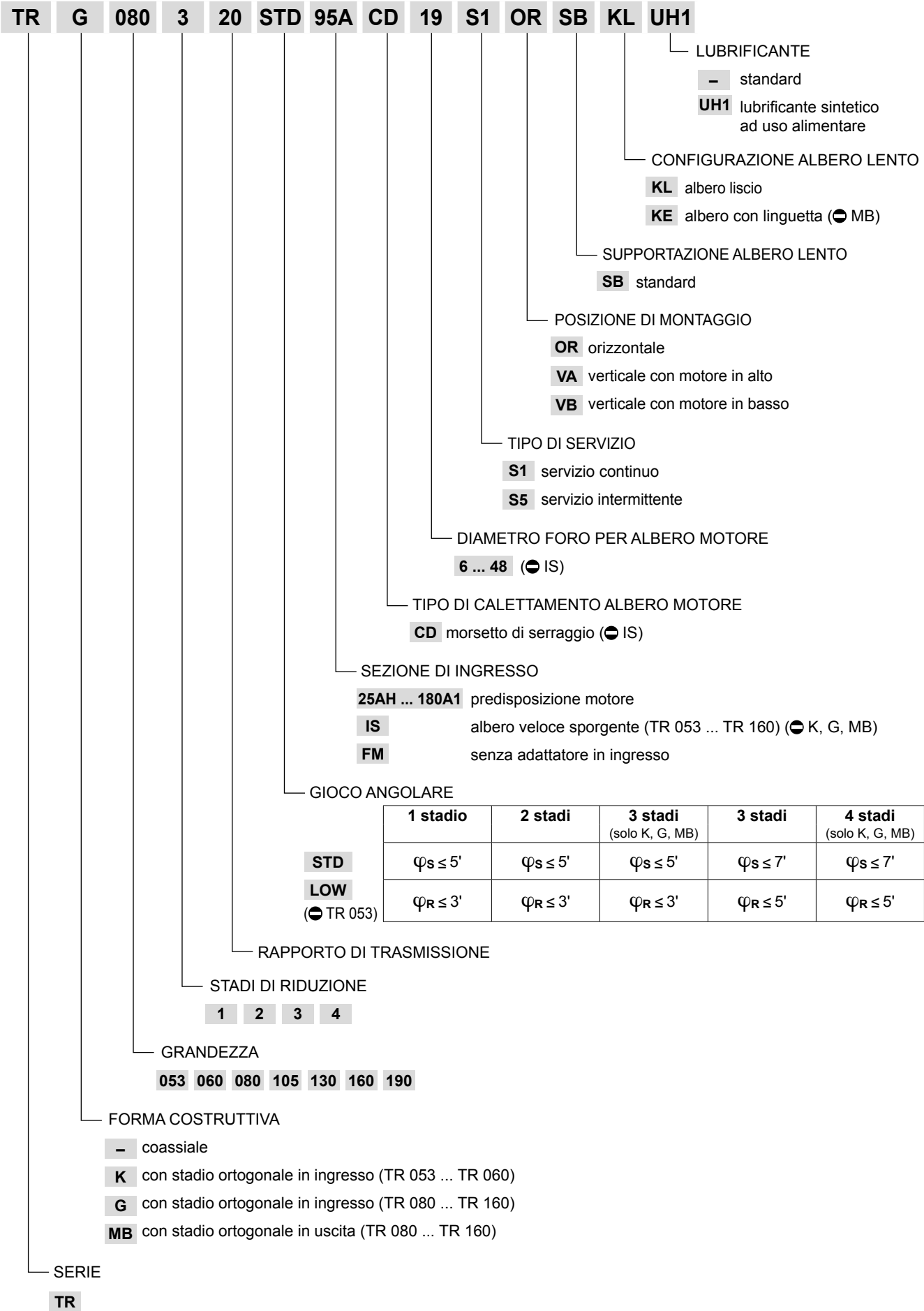
tipo di servizio	TR 053 - TR 060	TR 080 ... TR 190	anelli di tenuta
S1 (continuo)	NLGI grasso con grado di consistenza 00	Olio sintetico viscosità ISO VG 220	Fluoro-elastomero
S5 (intermittente)		NLGI grasso con grado di consistenza 00	NBR

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

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	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	–	12	–	
TR 060		18	–	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	–	40	
TR 105		100	–	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	–	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



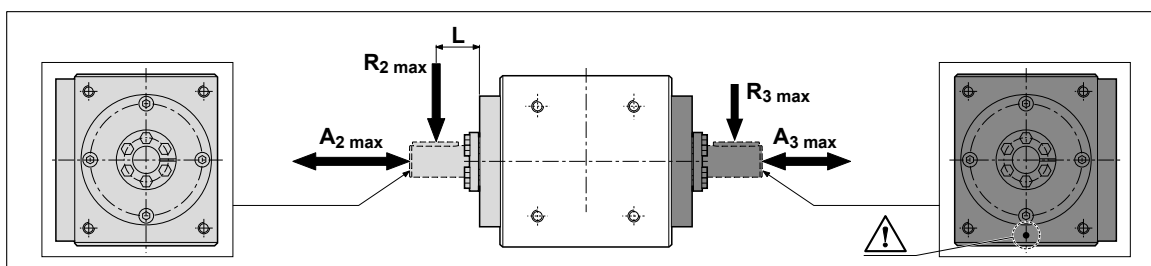
5.1.1 FORME COSTRUTTIVE E CONFIGURAZIONI DI INGRESSO

		FORMA COSTRUTTIVA		
		coassiale (—)	con stadio ortogonale in ingresso (K - G)	con stadio ortogonale in uscita (MB)
SEZIONE DI INGRESSO	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



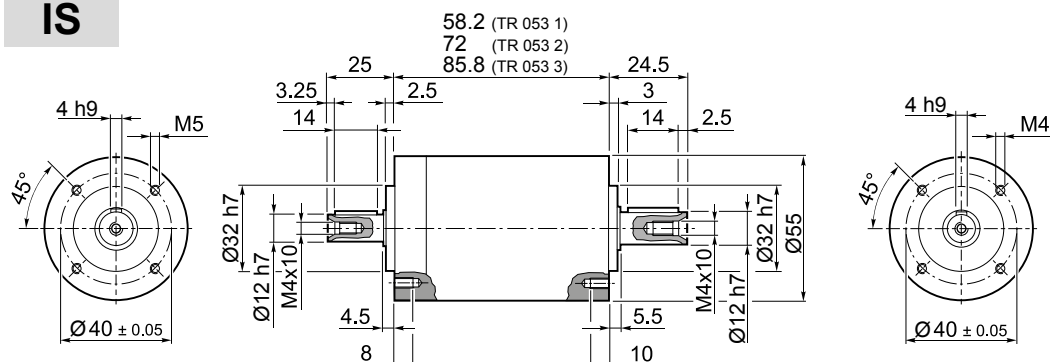
	R ₂ max [N]	A ₂ max [N]	L [mm]	R ₃ max [N]	A ₃ max [N]
TR MB 080	6000	5000	60	5500	5000
TR MB 105	9000	7500	80	7500	7500
TR MB 130	13500	11500	100	11000	11500
TR MB 160*	15000	11500	100	12500	11500

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

5.3 DIMENSIONI E DATI TECNICI

TR 053

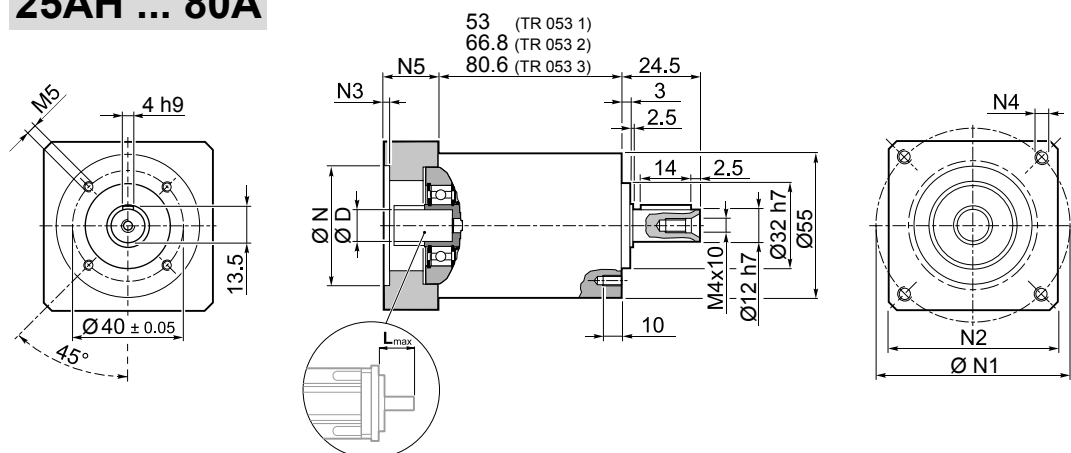
IS



	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

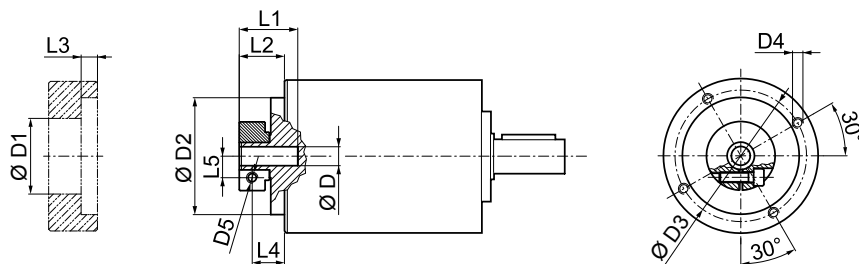
	D											N	N1		N2	N3	N4	N5	Lmax
													min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	36	48					
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	36	48					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	36	48					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	36	48					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	38	48	55	3.5	4.5	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.



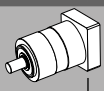
TR 053

FM



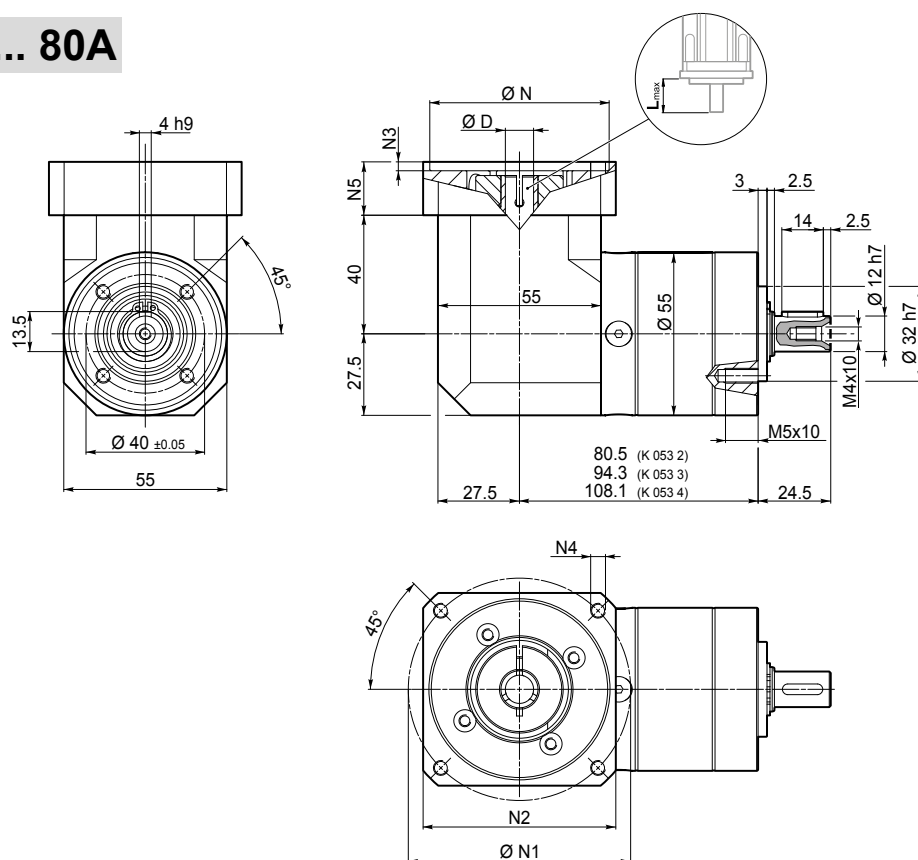
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

TR

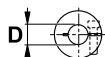
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _s	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	[N]	%	6 ... 9.52	10 ... 14
TR 053 1_3	12	22	40	3300	4000	5'	1.0	200	500	600	97	0.06	0.08
TR 053 1_4	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_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



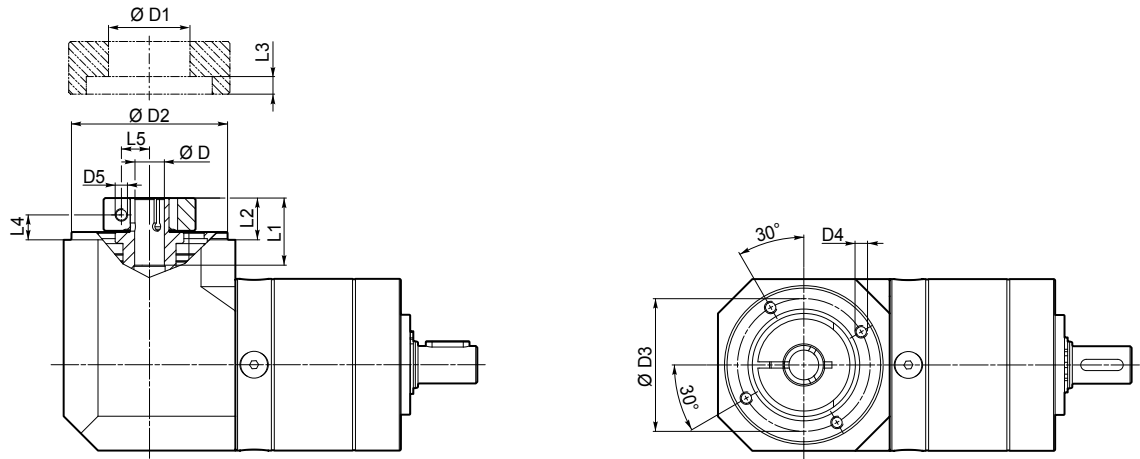
	
TR K 053 2	1.3
TR K 053 3	1.5
TR K 053 4	1.8

												N		N1		N2	N3	N4	N5	L _{max}
														min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25		36	48	55	3.5	4.5	25	25
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					
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.

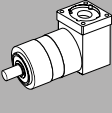
TR K 053

FM



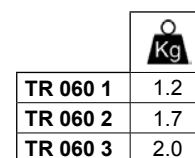
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

TR

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	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_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

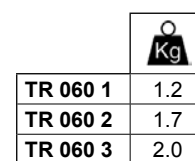
TR 060

IS



TR

25AH ... 80A

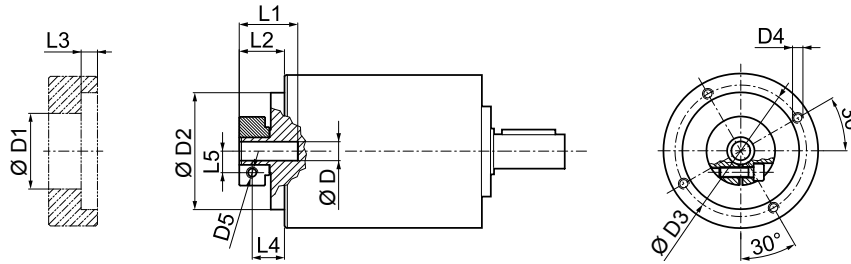


												N	N1		N2	N3	N4	N5	L _{max}
	min		max																
25AH	6	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH	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

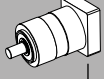
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

TR 060

FM

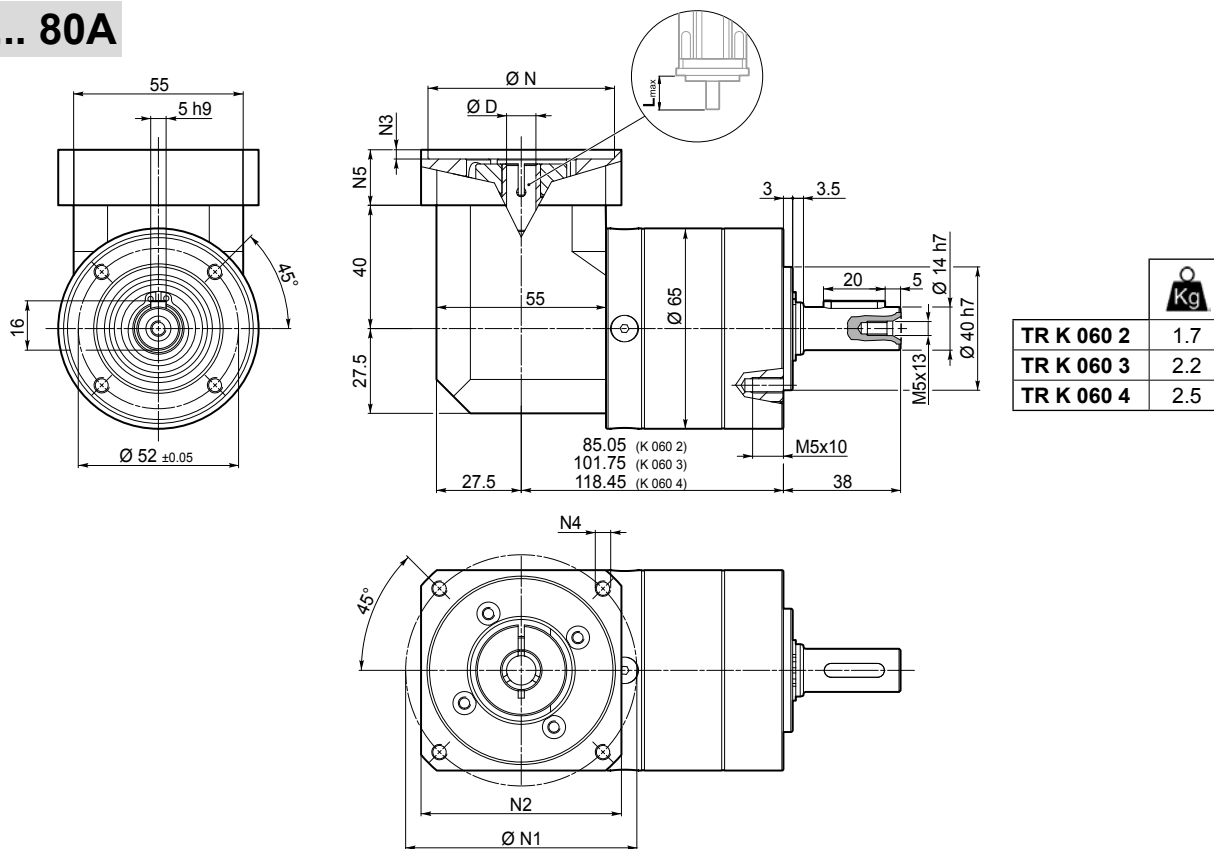


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	[N]	%	6 ... 9.52	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_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



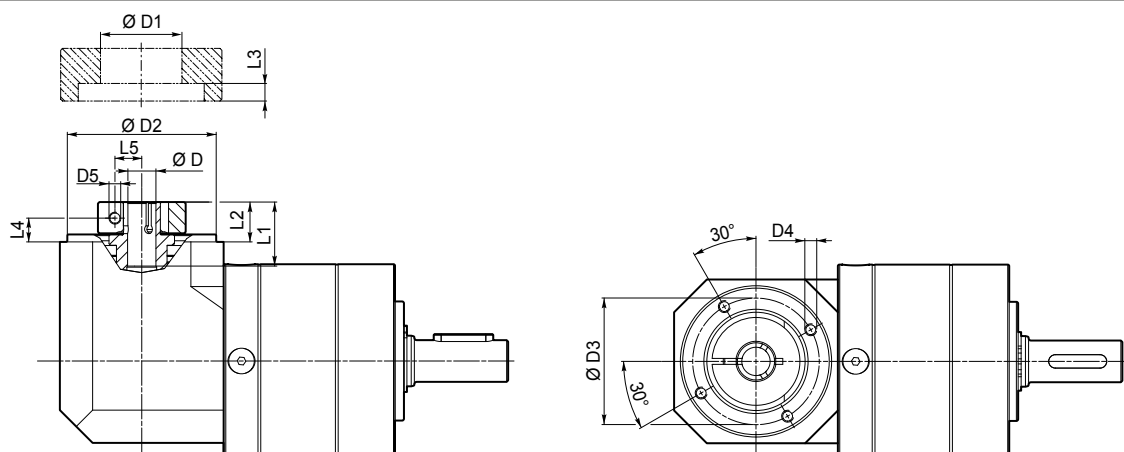
	D											N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56					
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

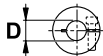
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



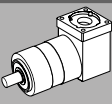
TR K 060

FM



				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

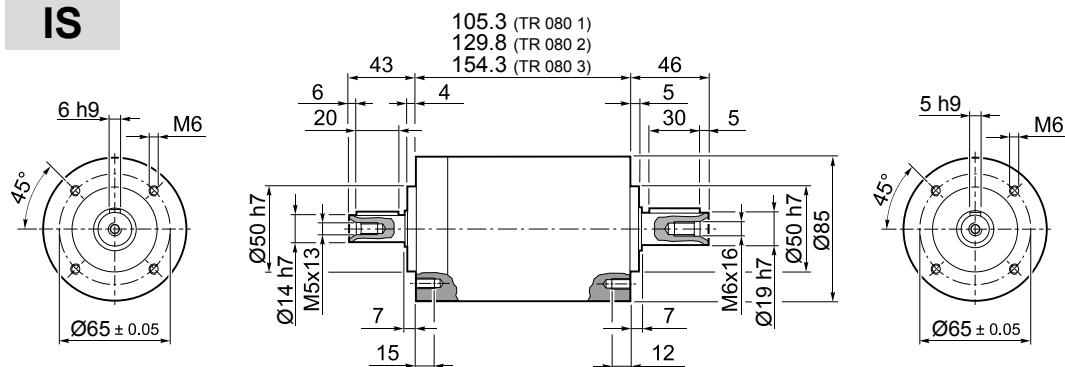
TR

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	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_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

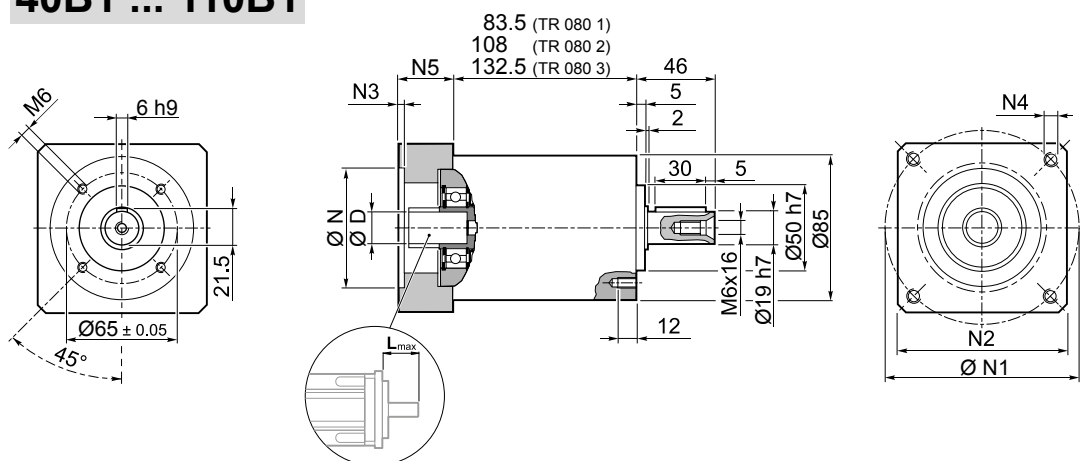
IS



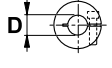
	
TR 080 1	4.0
TR 080 2	4.6
TR 080 3	5.2

TR

40B1 ... 110B1



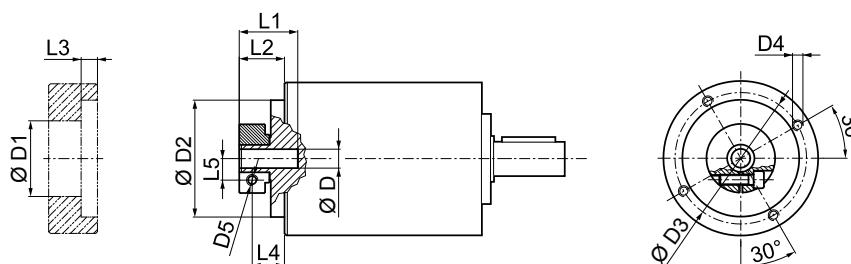
	
TR 080 1	4.0
TR 080 2	4.6
TR 080 3	5.2

													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



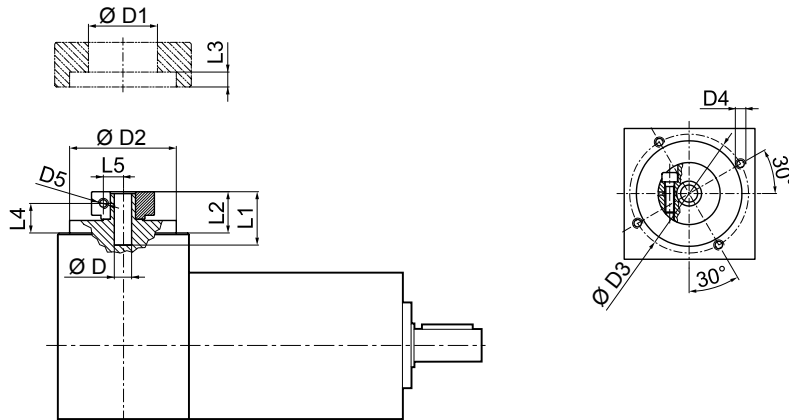
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52		38	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	10.5
11	12	12.7		43	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	12.5
14	15.875	16	17	48	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	14.5
19	19.05			51	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	16.5

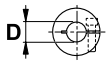
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	[N]	[N]	[N]	%	8 ... 12.7	14 ... 19.05
TR 080 1_3		40	80	180	2900	3500	5'	3'	8.0	400	2500	3000	97	0.50	0.59
TR 080 1_4		50	80	200	3100	4500	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_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

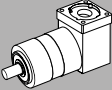
TR G 080

FM



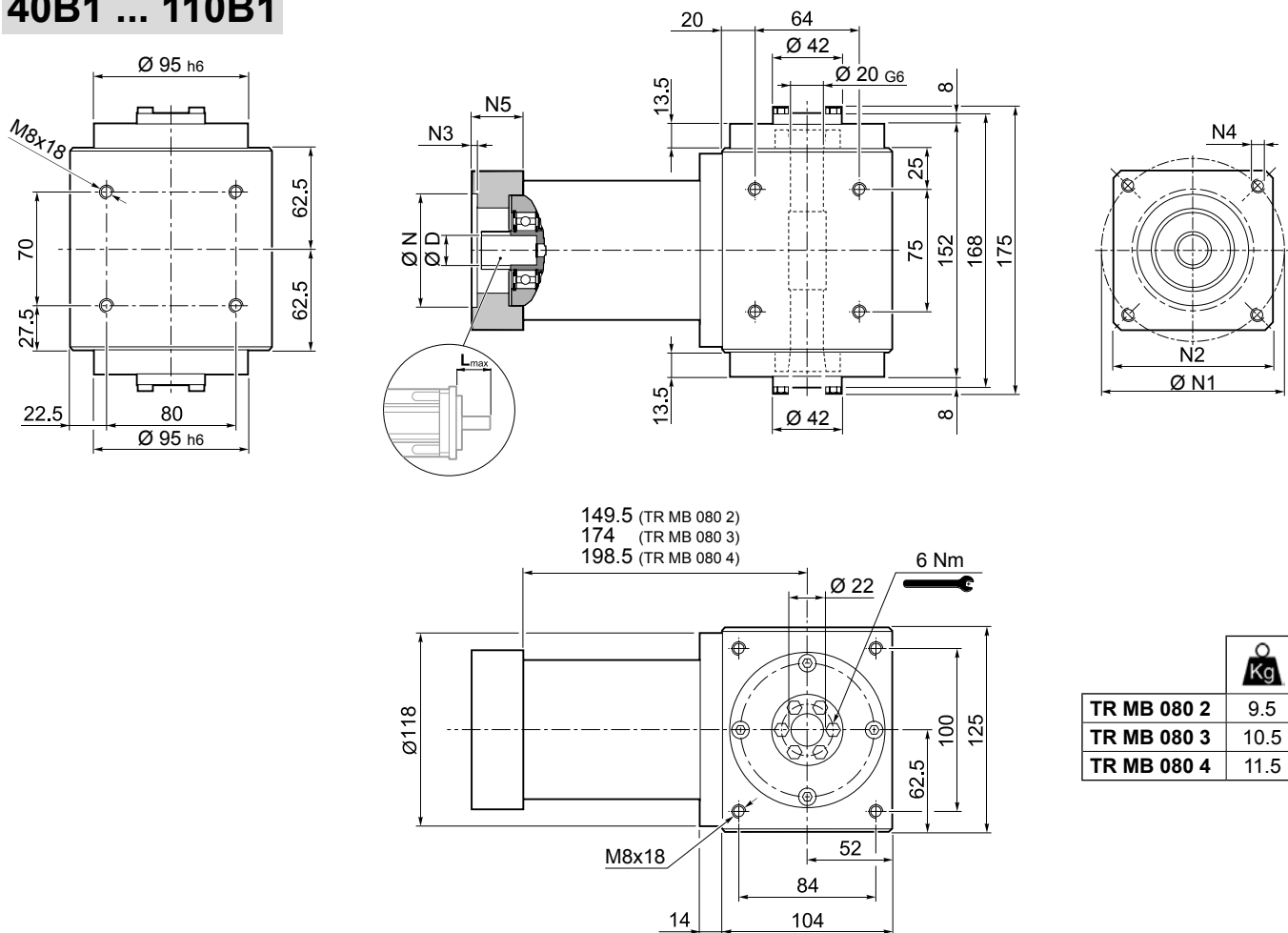
			D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52	38	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	10.5
11	12	12.7	43	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	12.5
14	15.875	16	48	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	14.5
19	19.05		51	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	16.5

TR

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	[N]	[N]	%	8 ... 12.7	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_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



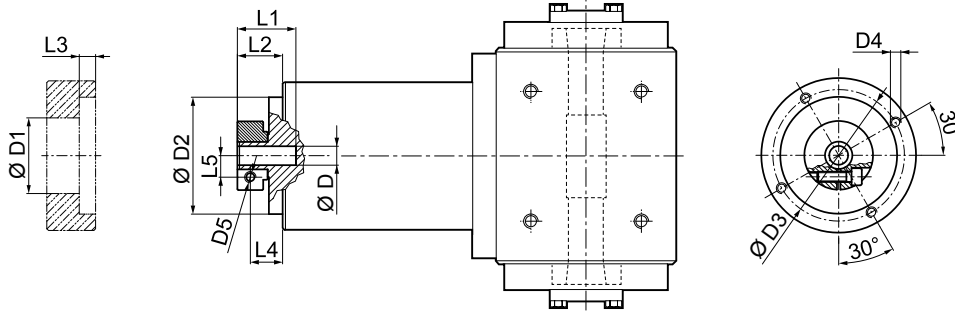
TR MB 080 2	9.5
TR MB 080 3	10.5
TR MB 080 4	11.5

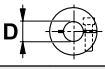
												N	N1	N2	N3	N4	N5	Lmax
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	70	80	4	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	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	70	85	80	4	M6x20	34	40
70AH1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	70	85	90	4	6.5	34	40
70B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	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	80	100	90	4	M6x16	34	40
95A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	115	100	4	M8x20	34	40
95B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	130	115	4	M8x20	34	40
110A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	130	115	4	M8x20	34	40
110B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	44	50
110B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	54	60

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

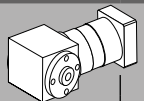
TR MB 080

FM



				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

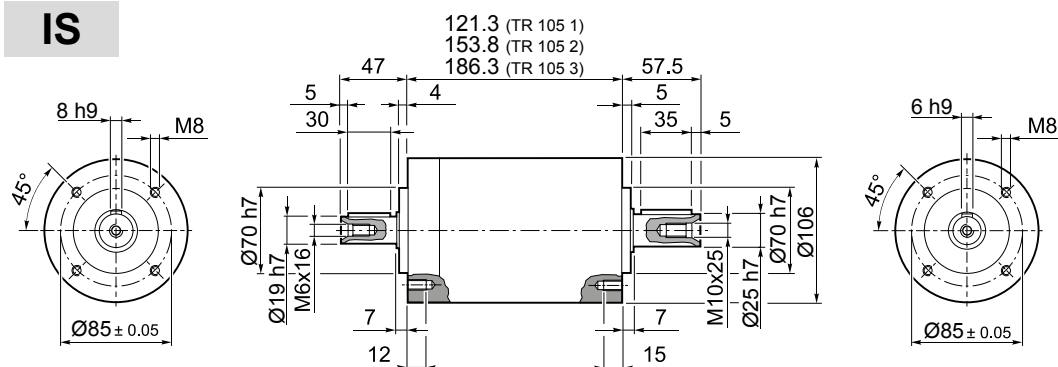
TR

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	%	8 ... 12.7	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_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

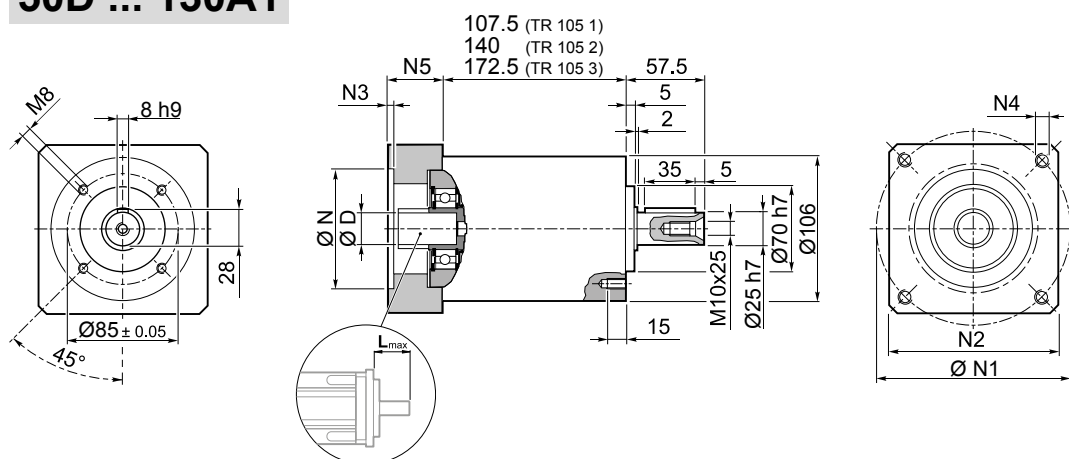
IS



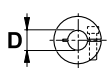
	
TR 105 1	6.5
TR 105 2	8.5
TR 105 3	10.5

TR

50D ... 130A1



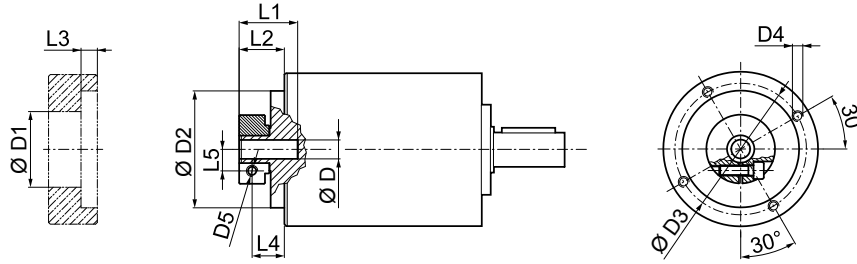
	
TR 105 1	6.5
TR 105 2	8.5
TR 105 3	10.5

													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

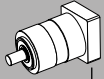
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

TR 105

FM

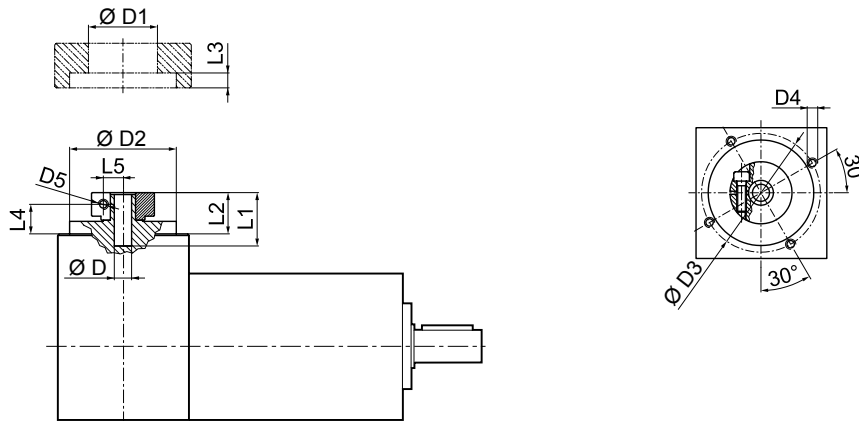


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6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

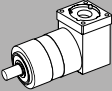
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%	11 ... 12.7	14 ... 19	22 - 24	28 - 32
TR 105 1_3		100	180	360	2500	3500	5'	3'	24.0	600	3800	4000	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_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

FM

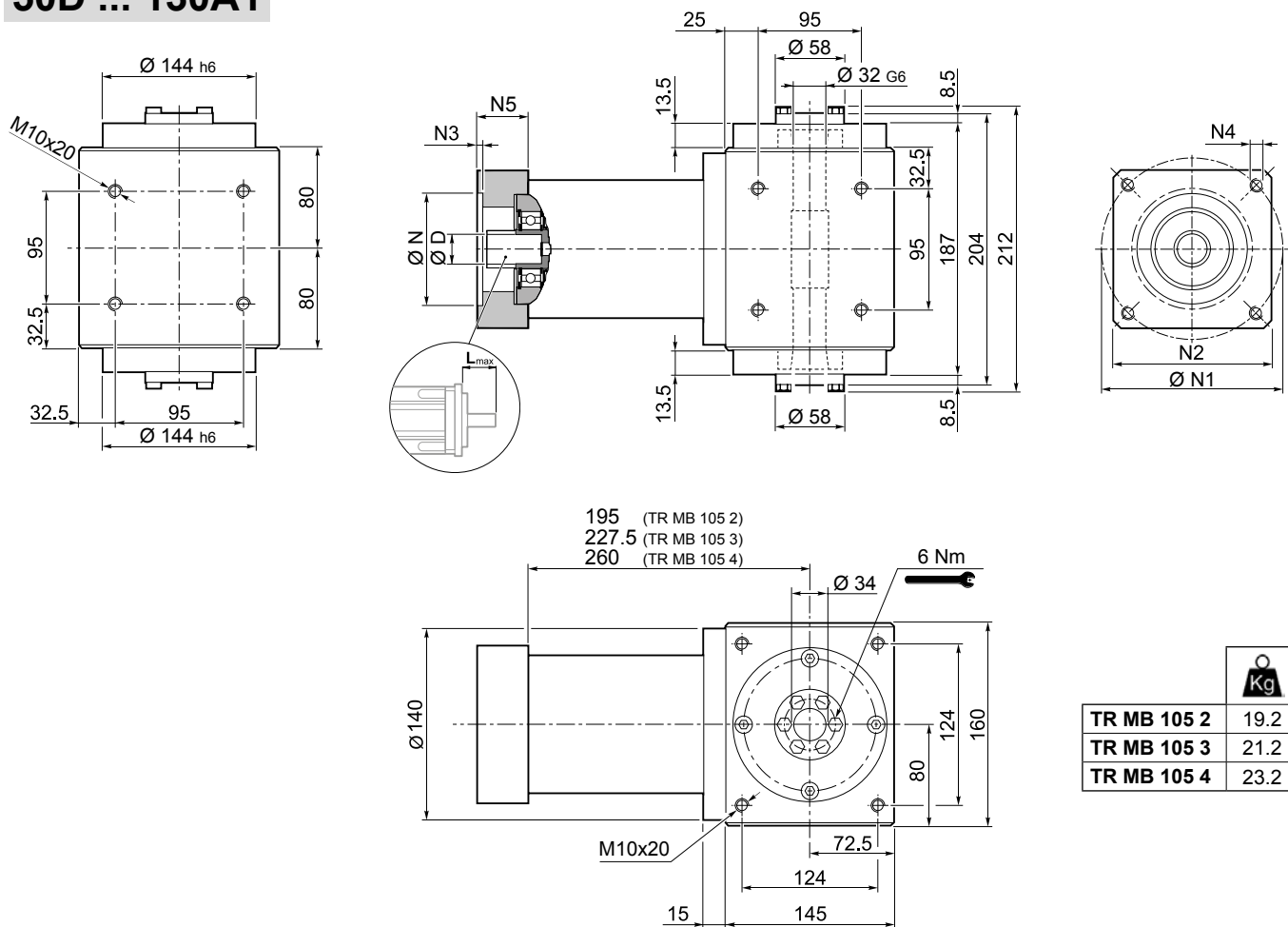


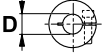
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6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

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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_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

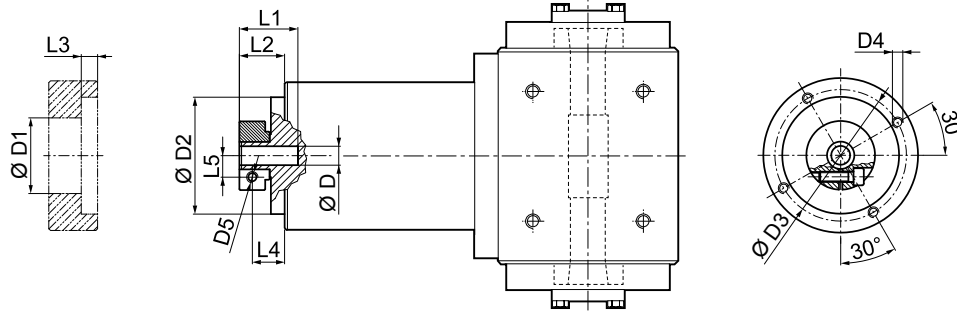


													N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	4	6.5	33	40
60B1	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.

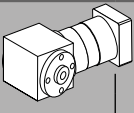
TR MB 105

FM



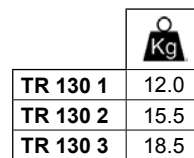
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6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

TR

	i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Ψ _S [arcmin]	Ψ _R [arcmin]	C _t [Nm arcmin]	η %	J _G [kgcm ²]			
														
											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_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

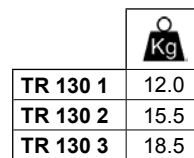
TR 130

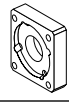
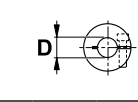
IS



TR

55A1 ... 180A1

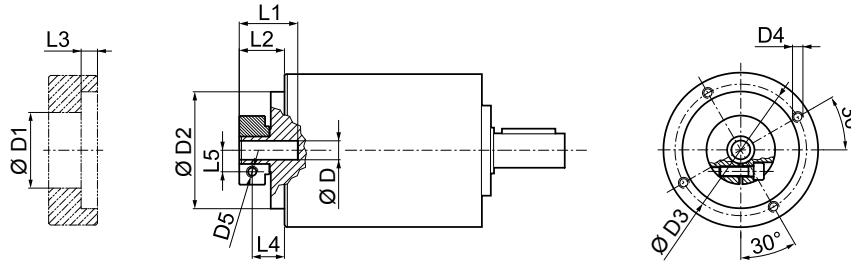


											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	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

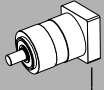
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

TR 130

FM

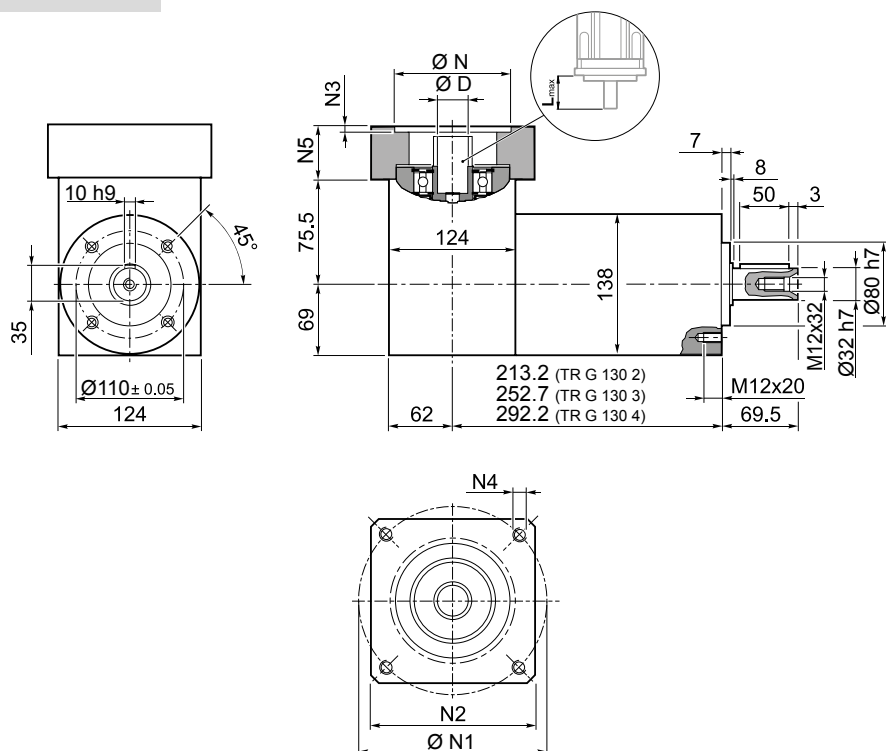


	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25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

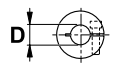
	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{1max}	R_{2max}	A_{2max}	η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{aromin} \right]$	[N]	[N]	[N]	%	14 ... 19	22 - 24	28 - 32	35 - 38
TR 130 1_3	215	400	800	2100	3000	5'	3'	45.0	800	5500	6500	97	5.25	5.46	5.81	7.16
TR 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_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



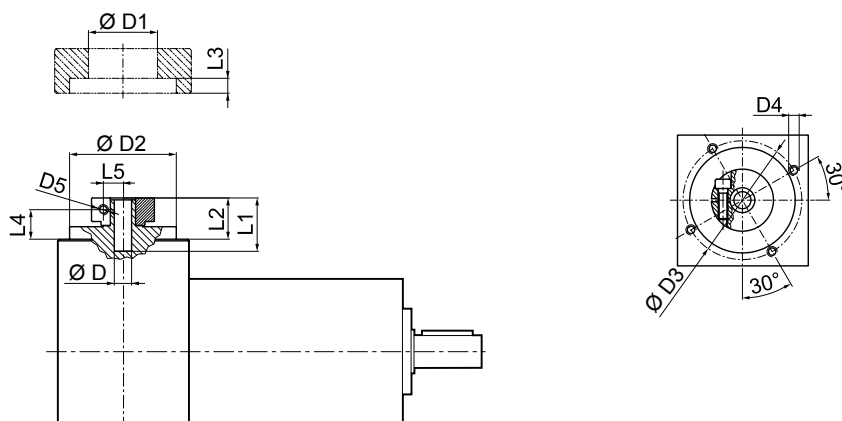
	
TR G 130 2	16.0
TR G 130 3	19.5
TR G 130 4	22.5

											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.

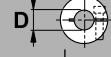
TR G 130

FM



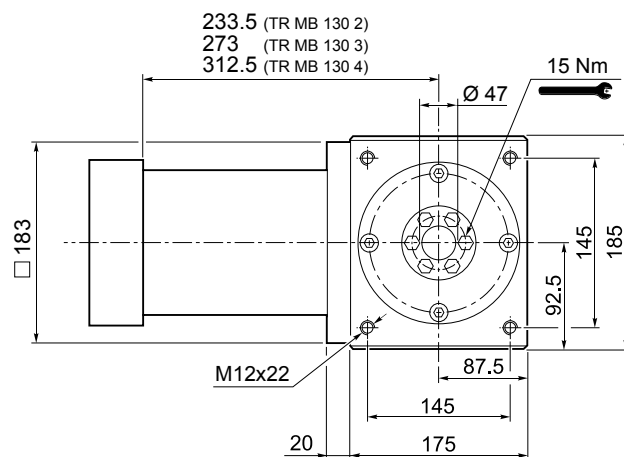
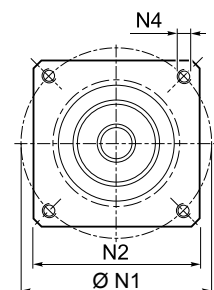
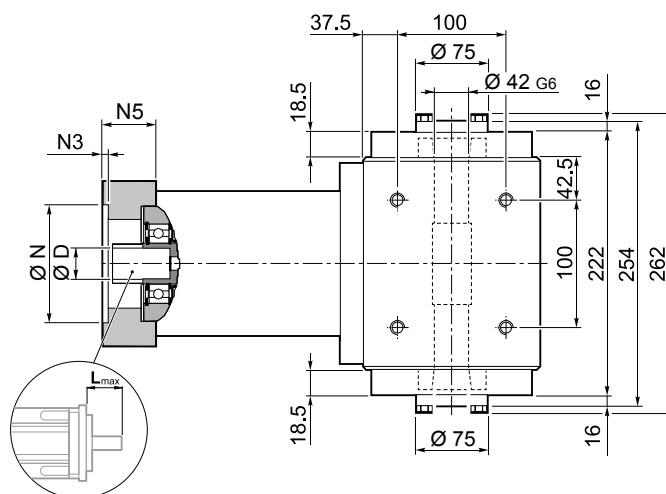
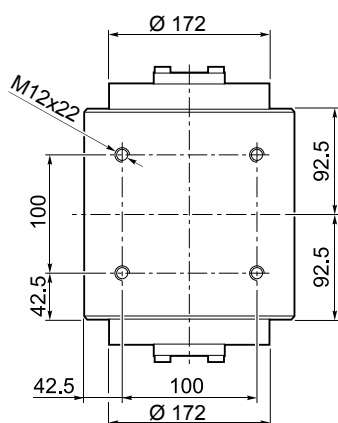
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25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

TR

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[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_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



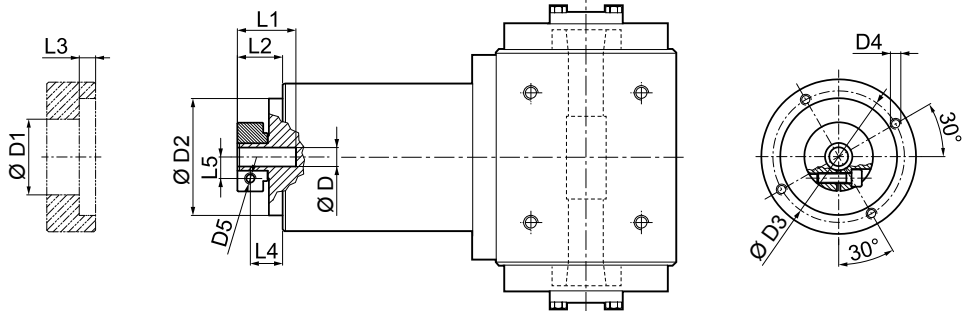
TR MB 130 2	54
TR MB 130 3	58
TR MB 130 4	61

											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.

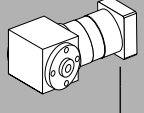
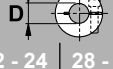
TR MB 130

FM



	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

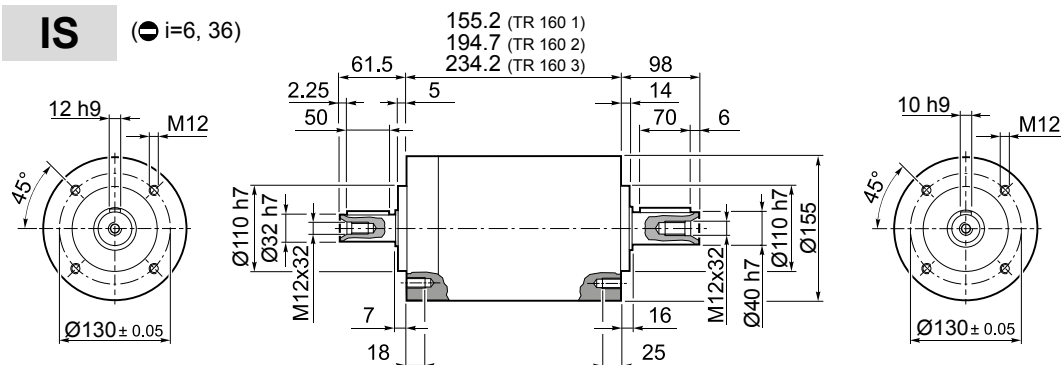
TR

	M_n	M_a	M_p	n_1	$n_{1 \max}$	Ψ_s	Ψ_R	C_t	η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	%				
										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_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

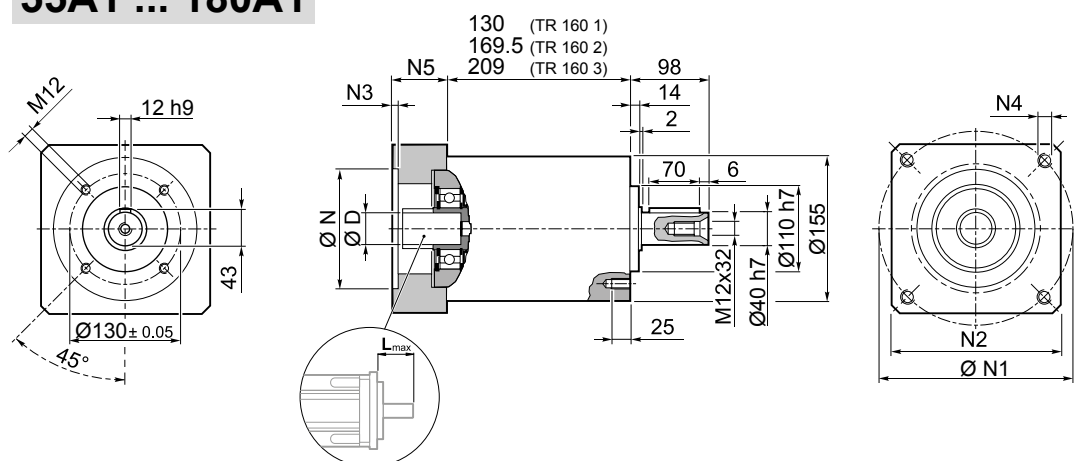
($\ominus$ i=6, 36)



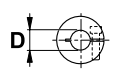
	
TR 160 1	17.0
TR 160 2	21
TR 160 3	28

TR

55A1 ... 180A1



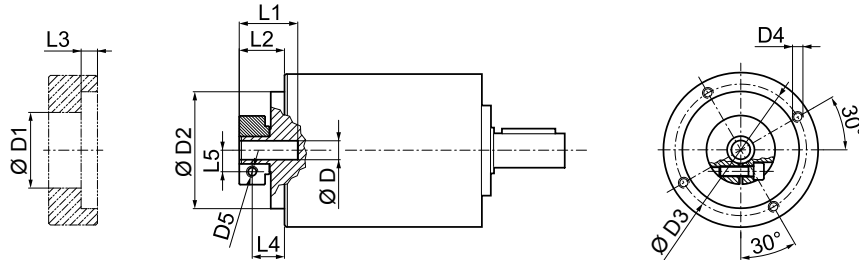
	
TR 160 1	17.0
TR 160 2	21
TR 160 3	28

											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	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 160

FM



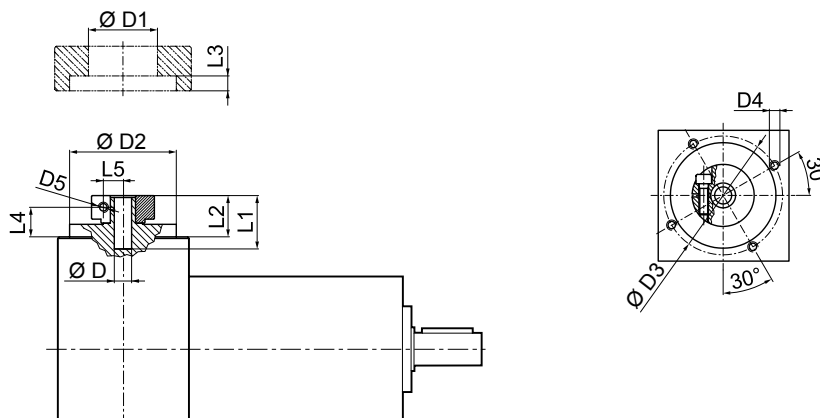
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	130	142.5	M8x16	M6	40	27.5	6	20	14.5
19	51	130	142.5	M8x16	M6	40	27.5	6	20	16.5
22 24	56.5	130	142.5	M8x16	M6	41	28.5	6	19.5	19
28	67	130	142.5	M8x16	M8	41	28.5	6	19.5	22.5
32	71	130	142.5	M8x16	M8	41	28.5	6	19.5	24.5
35	73	130	142.5	M8x16	M8	50	37.5	11.25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

TR

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[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

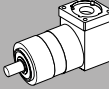
TR G 160

FM



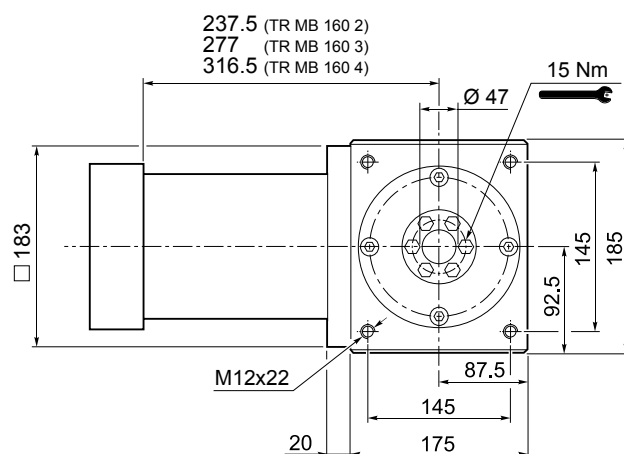
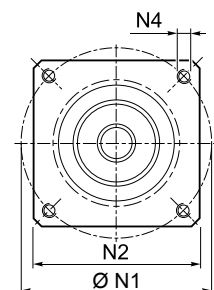
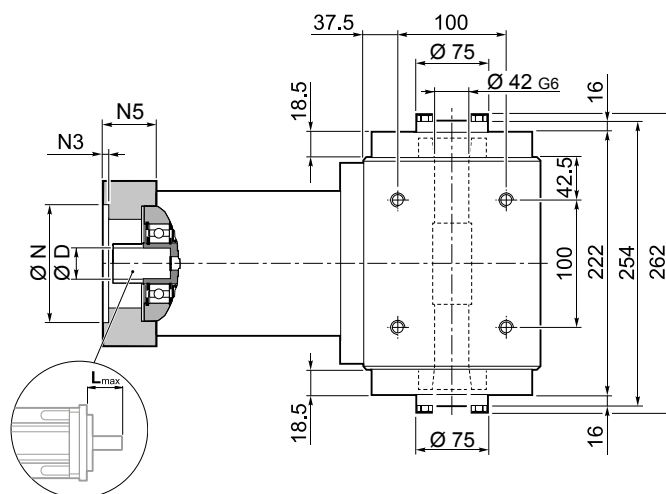
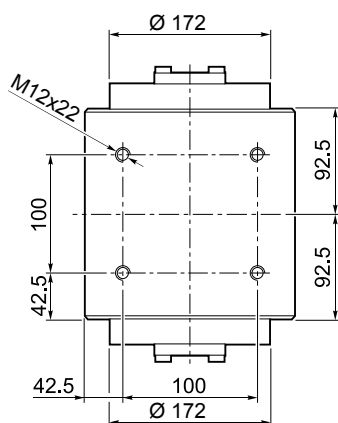
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25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

TR

		M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
	i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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_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_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



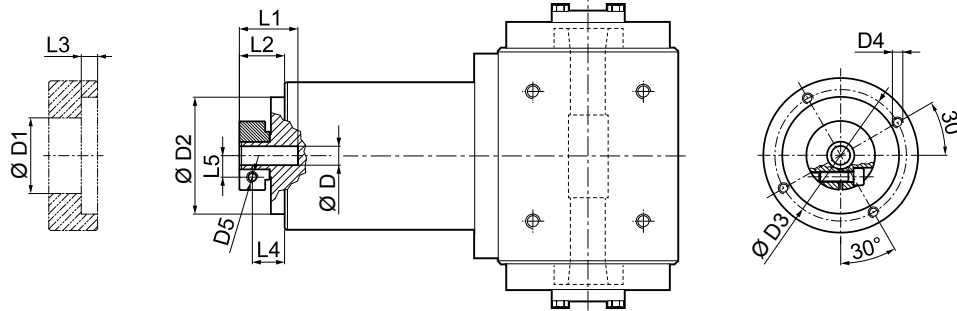
TR MB 160 2	59
TR MB 160 3	63.5
TR MB 160 4	70.5

											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	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.

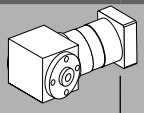
TR MB 160

FM



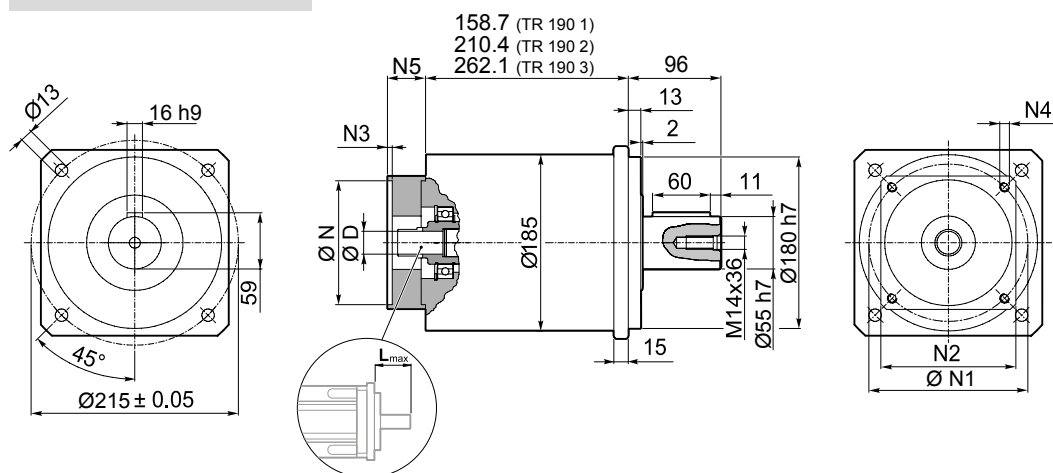
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	130	142.5	M8x16	M6	40	27.5	6	20	14.5
19	51	130	142.5	M8x16	M6	40	27.5	6	20	16.5
22 24	56.5	130	142.5	M8x16	M6	41	28.5	6	19.5	19
28	67	130	142.5	M8x16	M8	41	28.5	6	19.5	22.5
32	71	130	142.5	M8x16	M8	41	28.5	6	19.5	24.5
35	73	130	142.5	M8x16	M8	50	37.5	11.25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

TR

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	η	J_G [kgcm ²]			
i	[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

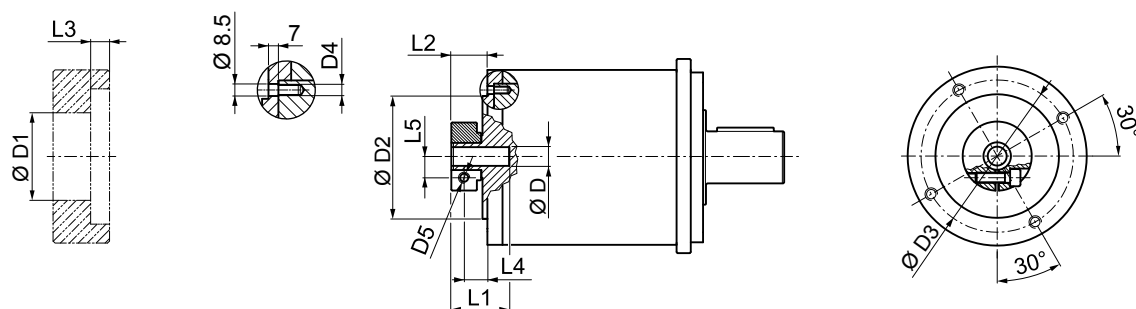


TR 190 1	25
TR 190 2	29
TR 190 3	34

													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	5.5	M14x25	49.5	60
180A1	14	16	19	22	24	28	32	35	38	42	45	48	180	215	190	5.5	M14x25	69.5	80

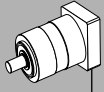
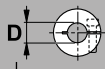
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

FM



	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 24	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 24	67	130	142.5	M8x14	M8	47	29	6	20	22.5
32 24	71	130	142.5	M8x14	M8	47	29	6	20	24.5
35 24	73	130	142.5	M8x14	M8	54.5	36.5	6	25	26
38 24	77.5	130	142.5	M8x14	M8	54.5	36.5	6	25	28
42 24	92	130	142.5	M8x14	M10	60.5	40	6	25	33
45 24	95	130	142.5	M8x14	M10	60.5	40	6	25	33
48 24	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}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	 J_G [kgcm²]				
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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

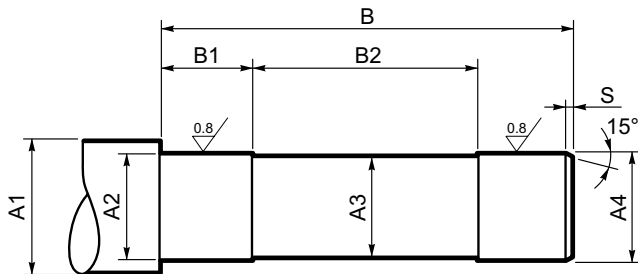
TR



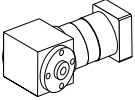
5.3.1 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE

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



TR

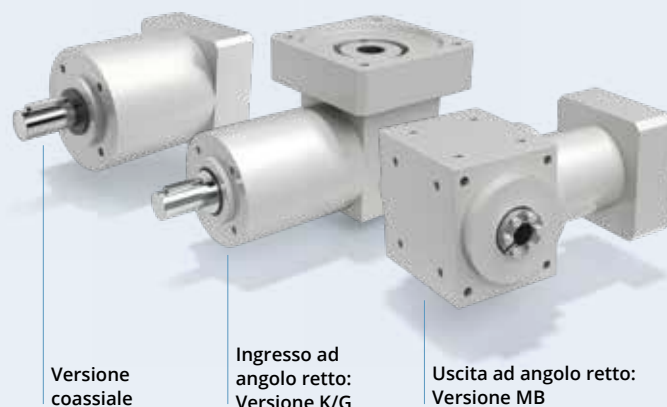
	A1	A2	A3	A4	B	B1	B2	S
TR MB 080	≥ 25	20 h7	18	20 h7	178	50	90	1
TR MB 105	≥ 40	32 h7	30	32 h7	205	60	115	
TR MB 130/160	≥ 50	42 h7	40	42 h7	259	70	140	



RIDUTTORI EPICICLOIDALI DI PRECISIONE IN LINEA E AD ANGOLO RETTO

Serie MP

La serie MP si distingue per l'ampio range di coppia disponibile su più taglie, l'eccezionale modularità garantita da numerose configurazioni costruttive, l'ampia gamma di rapporti di riduzione e il sistema di lubrificazione ottimizzato. Queste caratteristiche assicurano massima affidabilità e rendono la serie MP la soluzione ideale per una vasta gamma di applicazioni di precisione.



VANTAGGI PRINCIPALI

- Soluzione economica per applicazioni che richiedono gioco minimo e dinamica media
- Massima flessibilità grazie all'ampia scelta di rapporti di riduzione e configurazioni costruttive
- Grande varietà di configurazioni lato ingresso e lato uscita
- Adatta a diversi ambienti grazie al suo grado di protezione IP65

OPZIONI PRINCIPALI

Forme costruttive



Tipo di servizio



Versioni ingresso



Lubrificazione



Versioni alberi lenti



Versioni cuscinetti



DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto	Standard		
053	20	3-1000	10	15	1	16
060	30	3-1000	10	15	3	23
080	70	3-1000	10	15	8	155 ⁽²⁾
105	170	3-1000	10	15	24	278 ⁽²⁾
130	450	3-1000	10	15	45	515
160	700	3-1000	10	15	90	739
190	1000	3-1000	10	15	130	1683

1) Valore migliore disponibile per il riduttore a 1 stadio.

2) Valido per la versione "Cuscinetti rinforzati".

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.

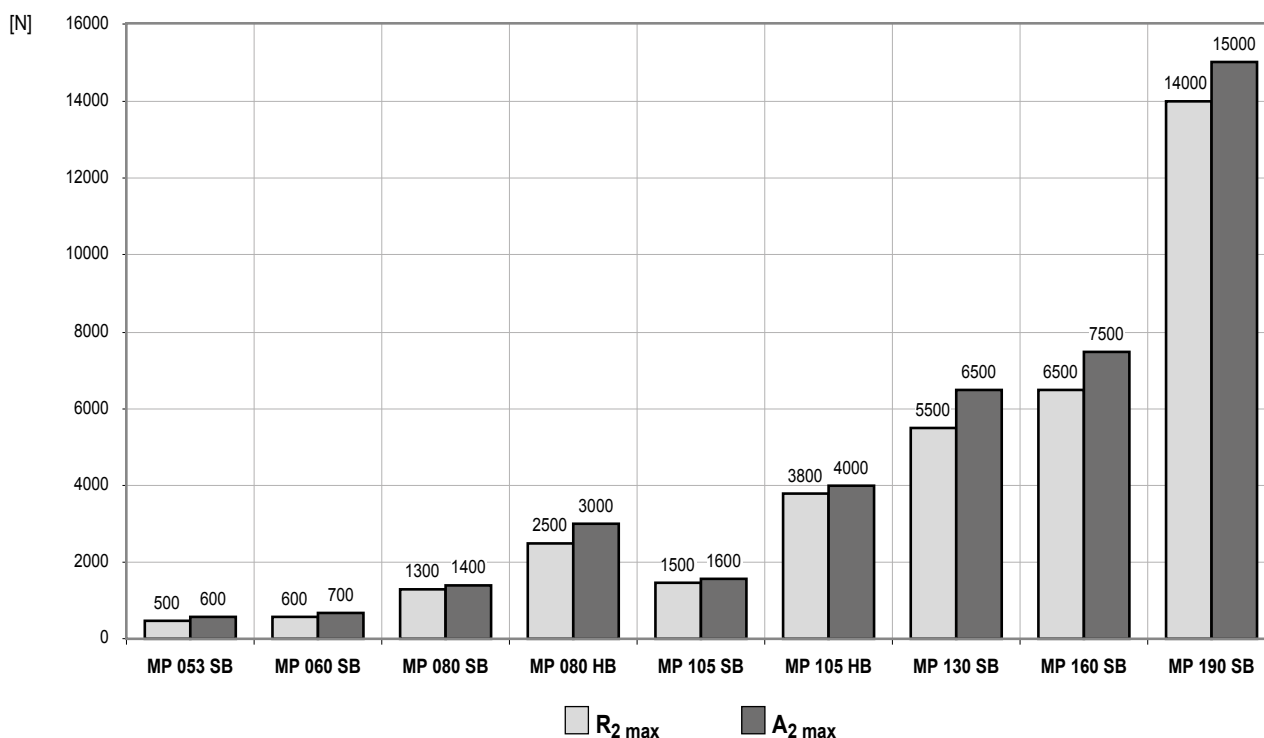
L'accoppiamento al motore è operazione che non richiede alcuna attrezzatura specifica, se non quella normalmente reperibile in un'officina.

- 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 $\varphi_S \leq 15'$; 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 dotate di mescola in fluoro-elastomero fornite per il ciclo intermittente S1.
- 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.

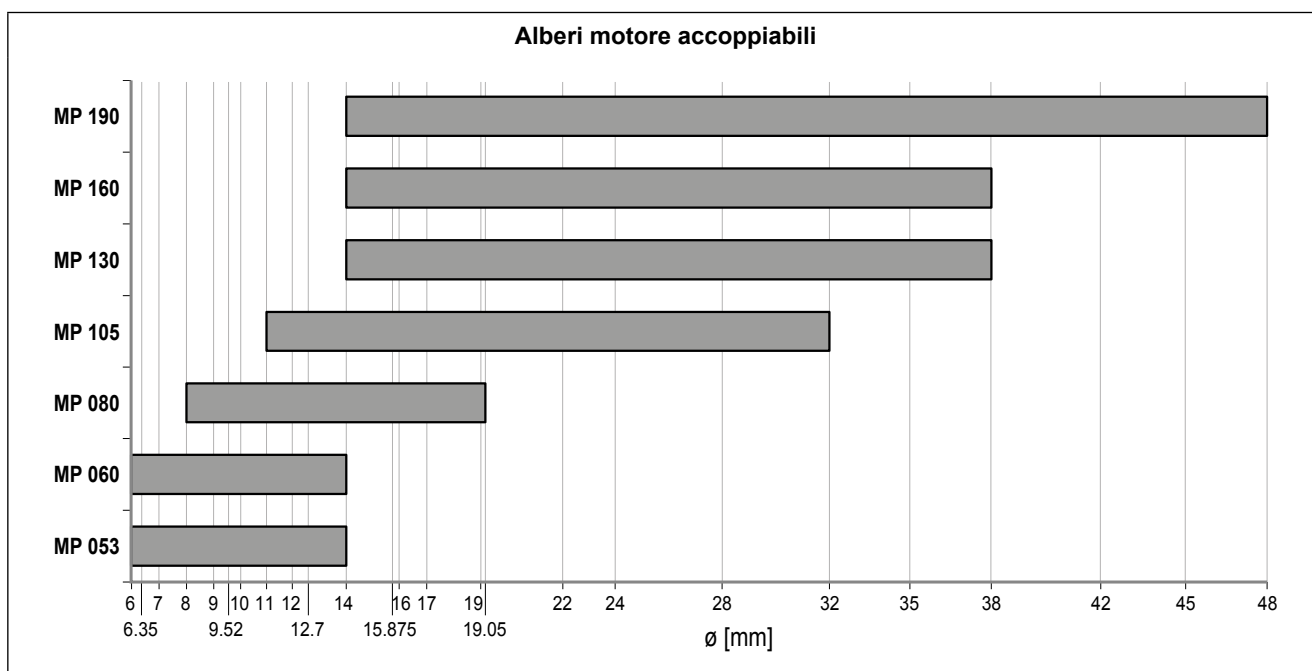
MP

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

Carichi massimi applicabili sull'albero lento



- 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.

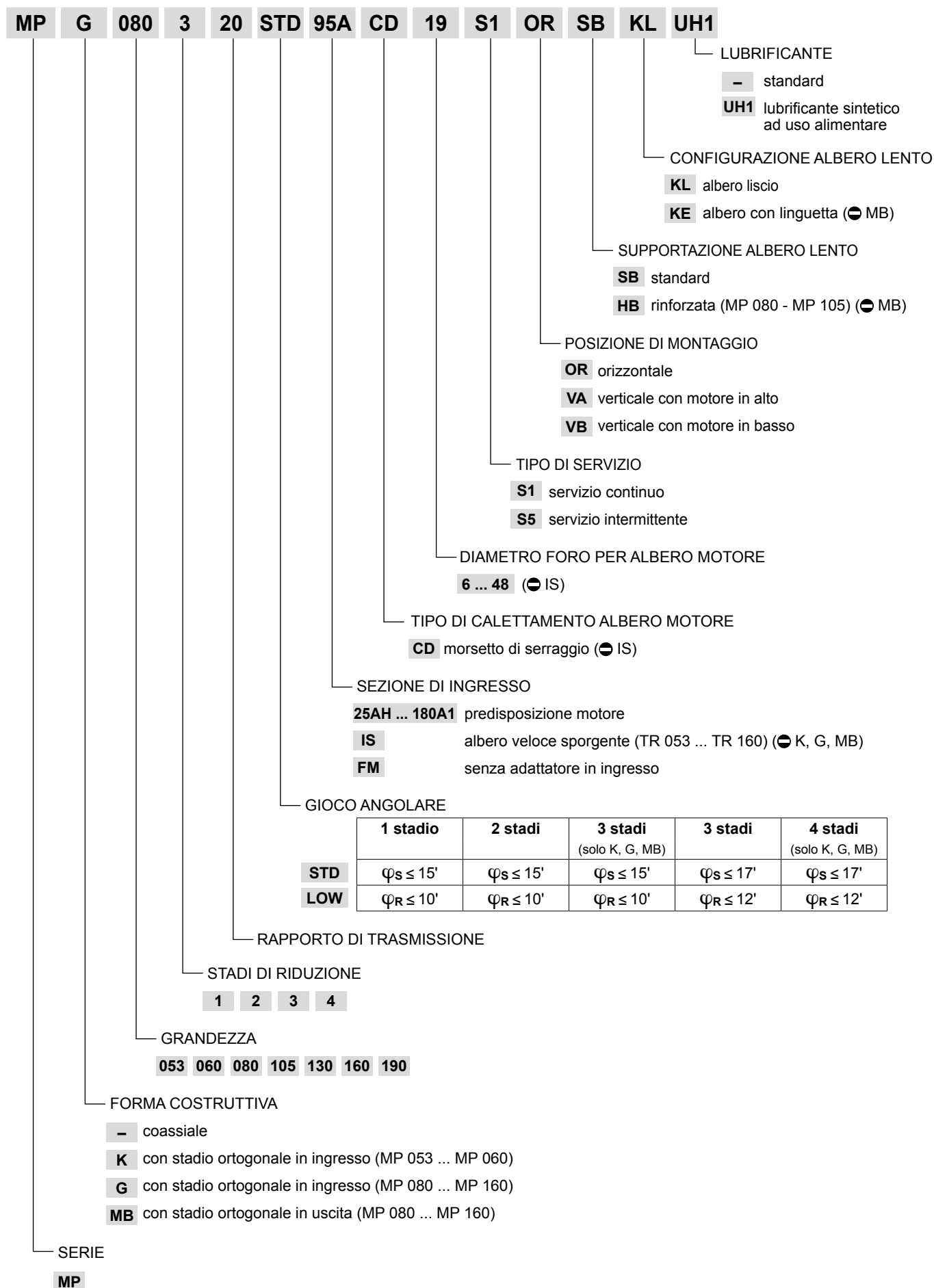
tipo di servizio	MP 053 - MP 060	MP 080 ... MP 190	anelli di tenuta
S1 (continuo)	NLGI grasso con grado di consistenza 00	Olio sintetico viscosità ISO VG 220	Fluoro-elastomero
S5 (intermittente)		NLGI grasso con grado di consistenza 00	NBR

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

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



6.1.1 FORME COSTRUTTIVE E CONFIGURAZIONI DI INGRESSO

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

6.1.2 POSIZIONI DI MONTAGGIO

	OR	VA	VB
—			
K - G			
MB			

MP

6.2 CARICHI RADIALI ED ASSIALI AMMISSIBILI PER LA FORMA COSTRUTTIVA MB

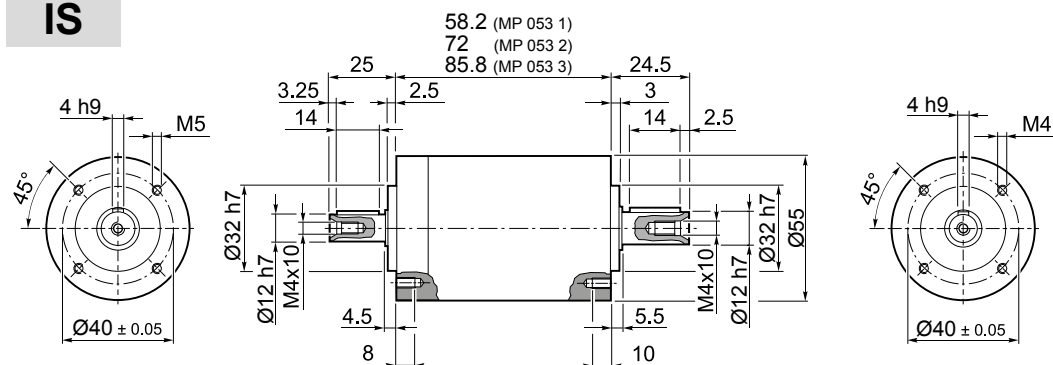
	R2 max [N]	A2 max [N]	L [mm]	R3 max [N]	A3 max [N]
MP MB 080	6000	5000	60	5500	5000
MP MB 105	9000	7500	80	7500	7500
MP MB 130	13500	11500	100	11000	11500
MP MB 160*	15000	11500	100	12500	11500

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

6.3 DIMENSIONI E DATI TECNICI

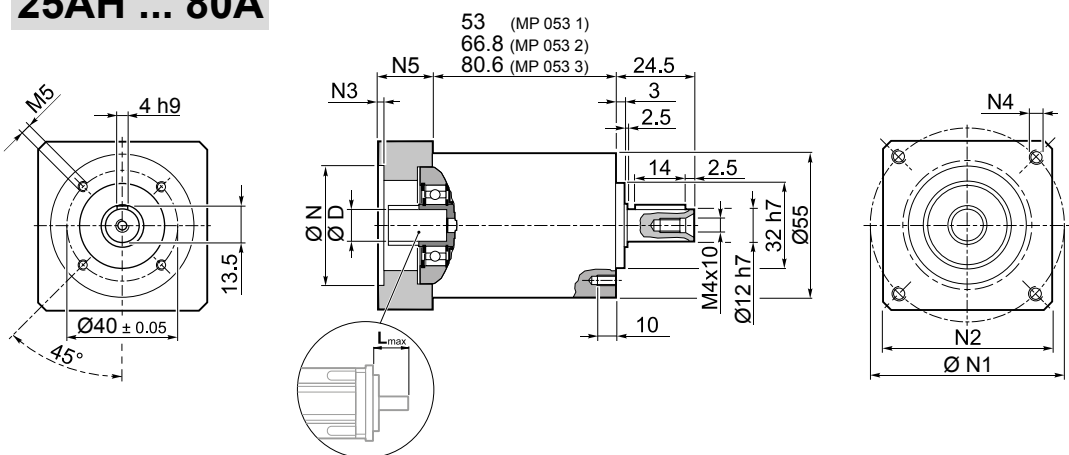
MP 053

IS



25AH ... 80A

MP



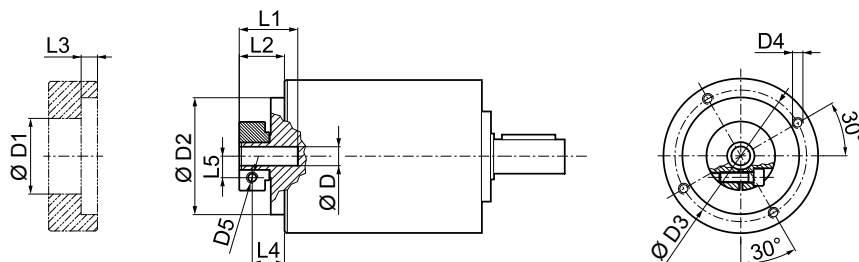
	D										N	N1		N2	N3	N4	N5	L _{max}
	6	6.35	7	8	9	9.52	10	11	12	12.7		min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	26	36	48					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	28	36	48					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	30	36	48					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	32	38	48					
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	50	65		60	3	M5x12	23	30
50BH	6	6.35	7	8	9	9.52	10	11	12	12.7	50	65		60	4	5.5	23	30
50C	6	6.35	7	8	9	9.52	10	11	12	12.7	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	60	75		65	3	M5x12	23	30
60AH1	6	6.35	7	8	9	9.52	10	11	12	12.7	60	75		65	3	5.5	23	30
60B	6	6.35	7	8	9	9.52	10	11	12	12.7	60	85		75	3	M5x12	23	30
60C	6	6.35	7	8	9	9.52	10	11	12	12.7	60	90		75	3	M5x12	23	30
70A	6	6.35	7	8	9	9.52	10	11	12	12.7	70	85		75	3	M6x15	23	30
70B	6	6.35	7	8	9	9.52	10	11	12	12.7	70	90		75	5	M5x12	23	30
73A	6	6.35	7	8	9	9.52	10	11	12	12.7	73	98.4		85	3	M5x12	25	32
80A	6	6.35	7	8	9	9.52	10	11	12	12.7	80	100		85	3	M6x15	23	30

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

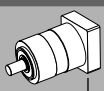


MP 053

FM



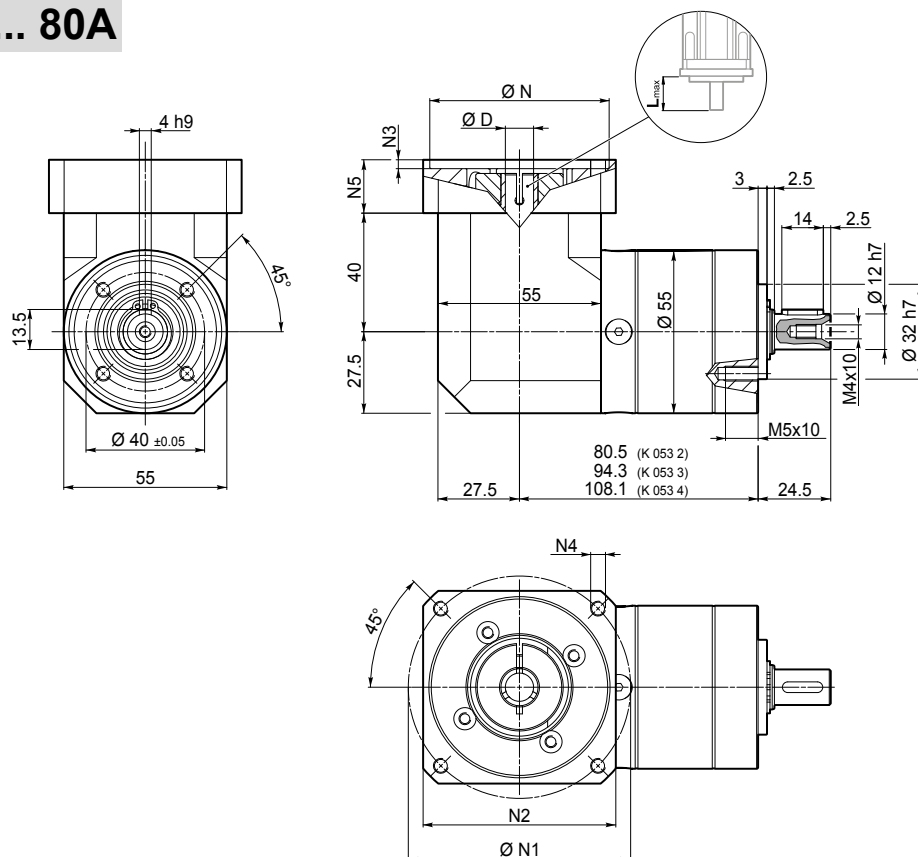
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _s	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	[Nm/arcmin]	[N]	[N]	[N]	%	6 ... 9.52	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_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

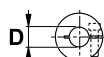
MP K 053

25AH ... 80A



	
MP K 053 2	1.3
MP K 053 3	1.5
MP K 053 4	1.8

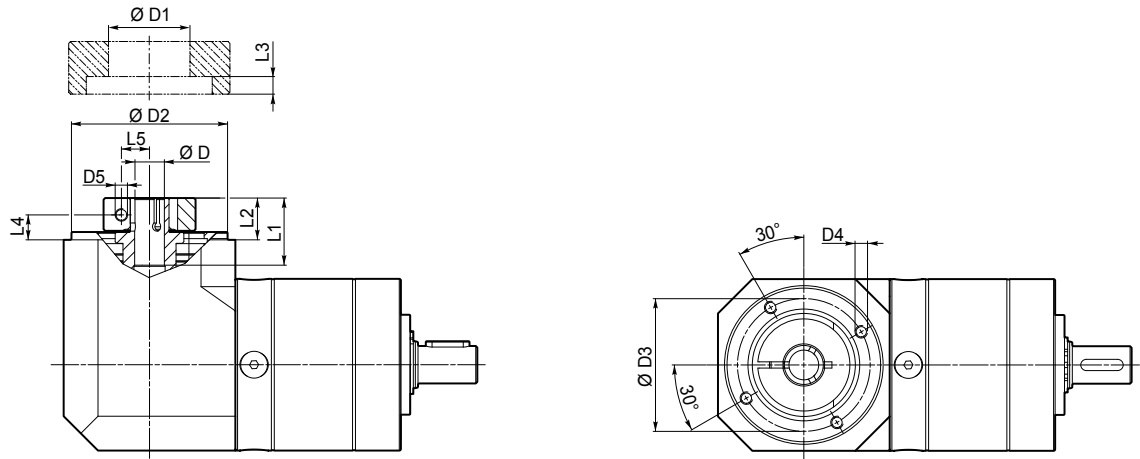
MP

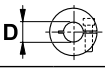
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	—	—	—	—	—	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	—	—	—	—	—	26	36	48					
28AH	6	6.35	7	8	9	9.52	—	—	—	—	—	28	36	48					
30AH	6	6.35	7	8	9	9.52	—	—	—	—	—	30	36	48					
32AH	6	6.35	7	8	9	9.52	—	—	—	—	—	32	38	48					
34AH	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

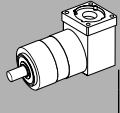
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP K 053

FM



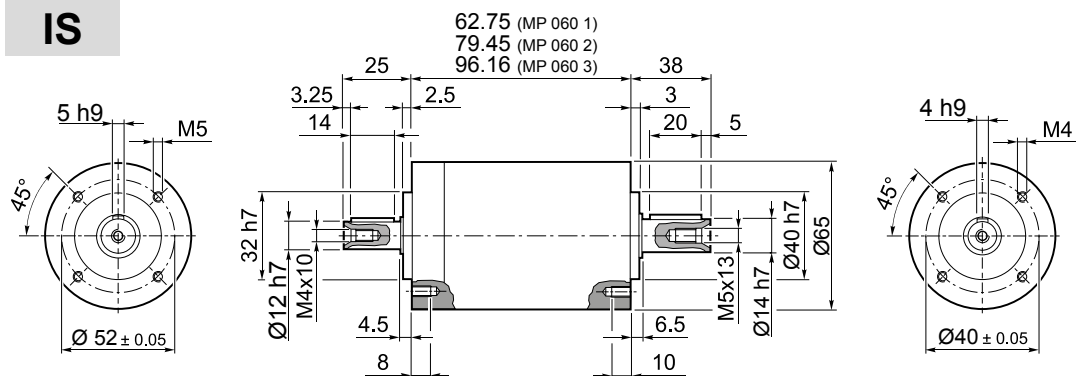
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	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_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

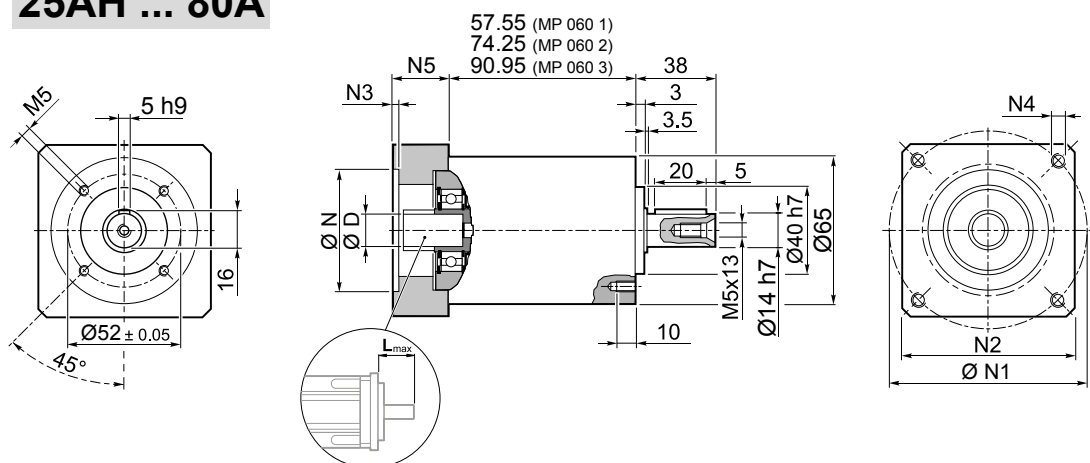
MP 060

IS



	Kg
MP 060 1	1.2
MP 060 2	1.7
MP 060 3	2.0

25AH ... 80A



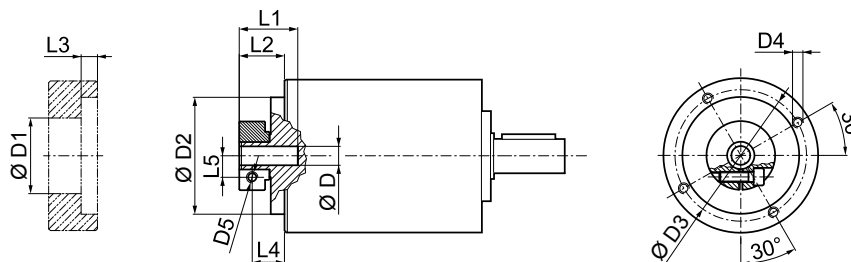
	Kg
MP 060 1	1.2
MP 060 2	1.7
MP 060 3	2.0

	D											N	N1		N2	N3	N4	N5	Lmax
													min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
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					
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

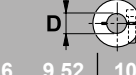
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP 060

FM



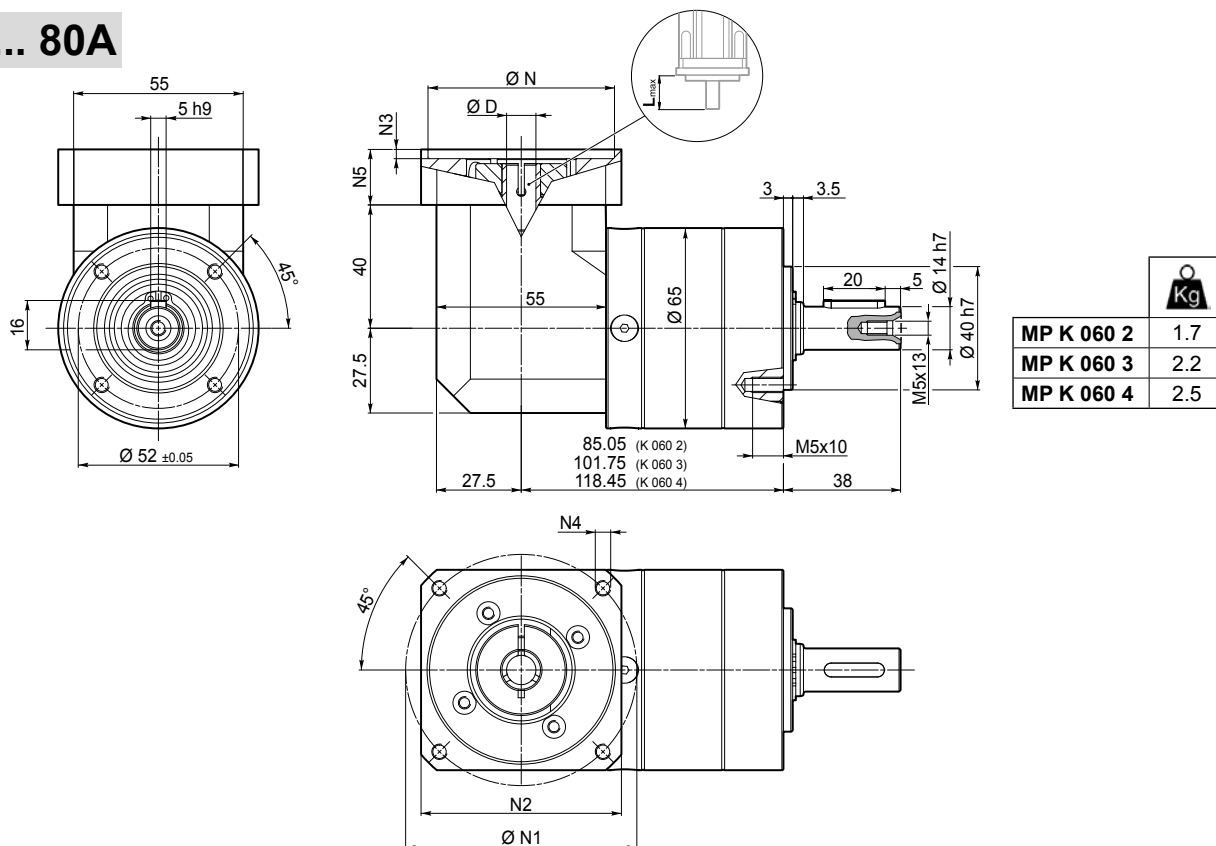
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}}\right]$	[N]	[N]	[N]	%		6 ... 9.52	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_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

MP K 060

25AH ... 80A

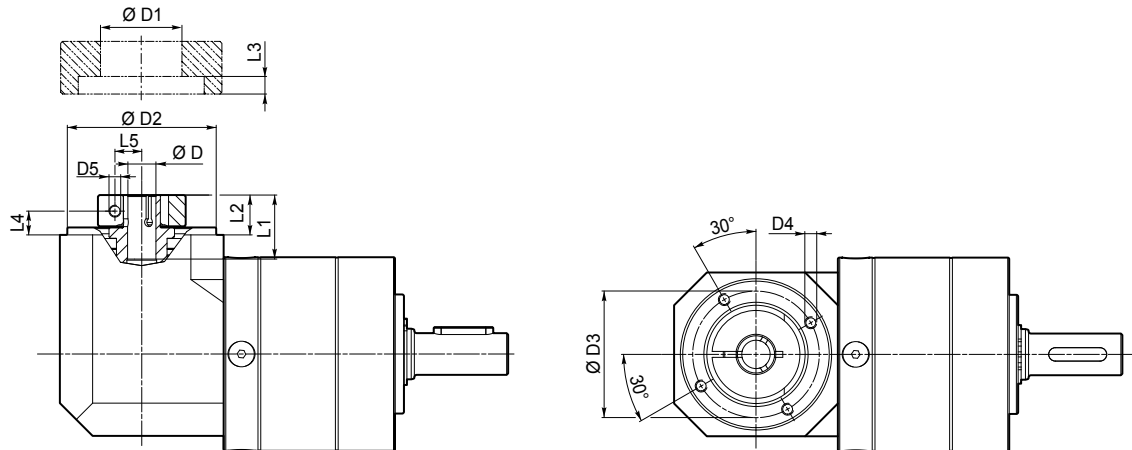


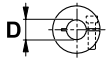
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	–	–	–	–	–	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	–	–	–	–	–	26	39	56					
28AH	6	6.35	7	8	9	9.52	–	–	–	–	–	28	39	56					
30AH	6	6.35	7	8	9	9.52	–	–	–	–	–	30	39	56					
32AH	6	6.35	7	8	9	9.52	–	–	–	–	–	32	39	56					
34AH	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

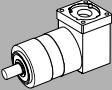
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP K 060

FM



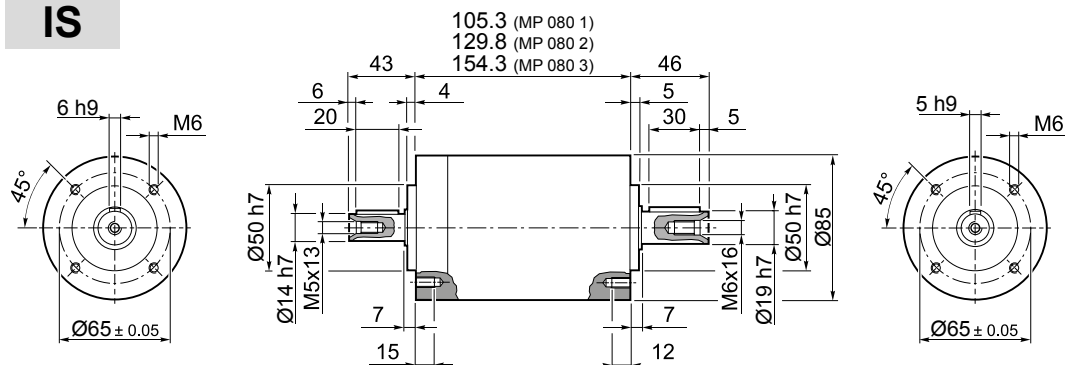
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	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_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

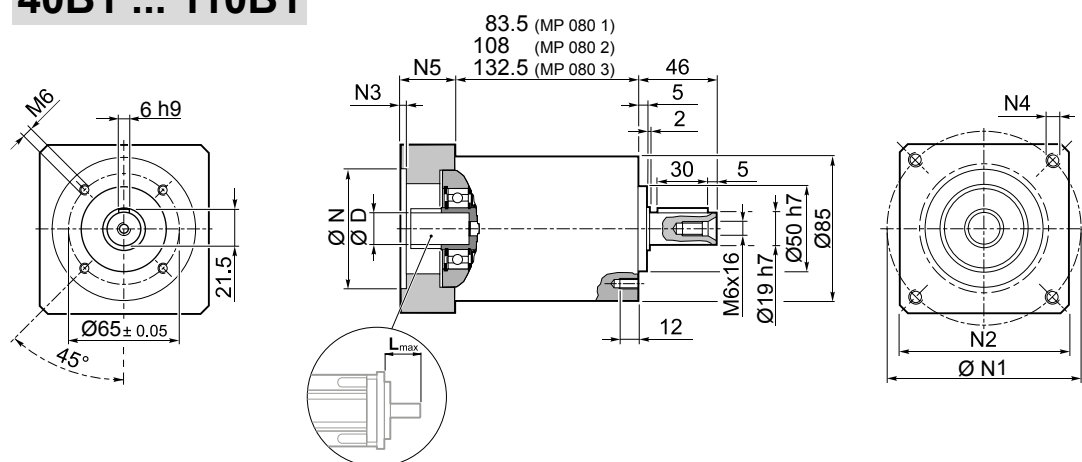
MP 080

IS



	Kg
MP 080 1	4.0
MP 080 2	4.6
MP 080 3	5.2

40B1 ... 110B1



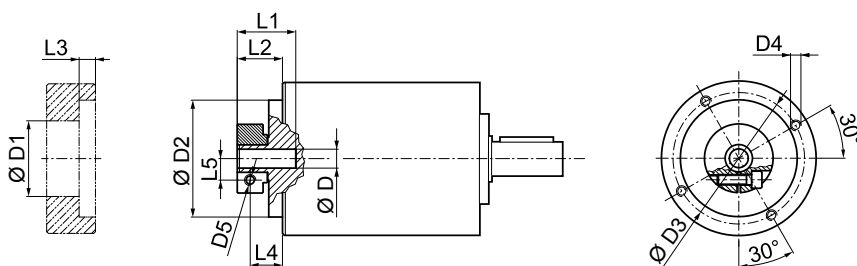
	Kg
MP 080 1	4.0
MP 080 2	4.6
MP 080 3	5.2

	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	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	70	85	80	4	M6x20	34	40
70AH1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	70	85	90	4	6.5	34	40
70B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	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	80	100	90	4	M6x16	34	40
95A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	115	100	4	M8x20	34	40
95B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	130	115	4	M8x20	34	40
110A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	130	115	4	M8x20	34	40
110B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	44	50
110B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	54	60

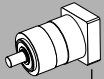
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP 080

FM



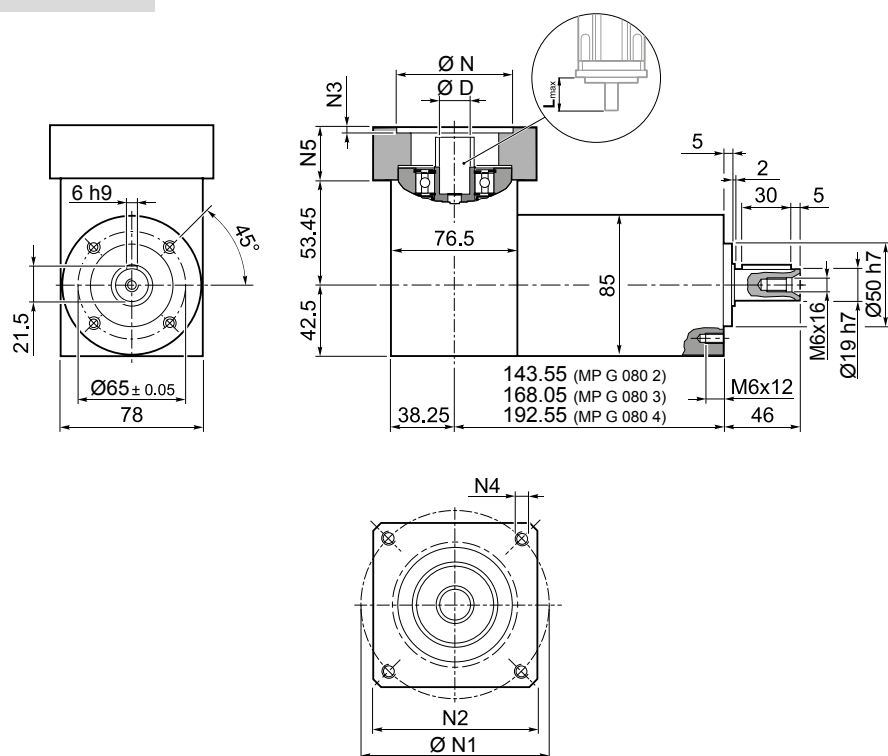
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52		38	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	10.5
11	12	12.7		43	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	12.5
14	15.875	16	17	48	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	14.5
19	19.05			51	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	16.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\frac{Nm}{arcmin}$	[N]	[N]	[N]	[N]	[N]	%	8 ... 12.7	14 ... 19.05
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_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

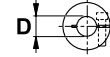
MP G 080

40B1 ... 110B1



	Kg
MP G 080 2	5.2
MP G 080 3	5.8
MP G 080 4	6.4

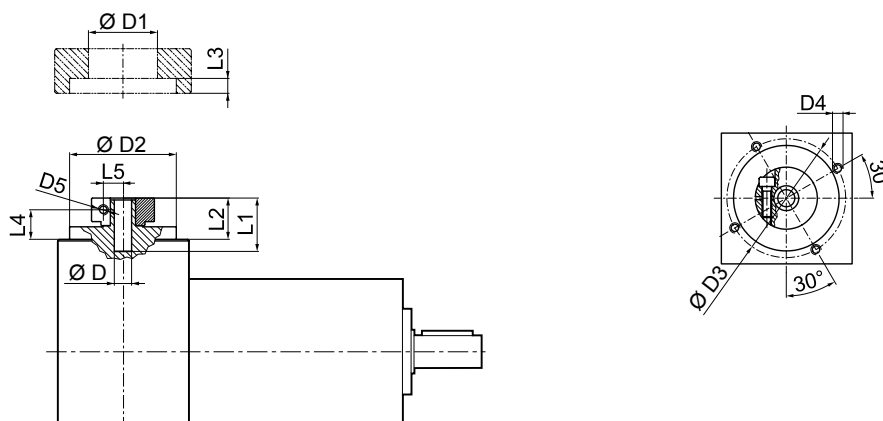
MP

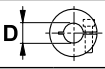
													N	N1	N2	N3	N4	N5	L _{max}
40B1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	40	63	80	4	M4x12	34	40
45A	8	9	9.52	11	12	12.7	—	—	—	—	—	—	45	63	80	4	M4x12	34	40
50B1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	5.5	34	40
50C1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	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

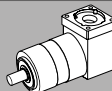
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP G 080

FM



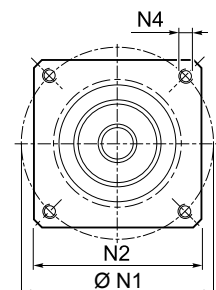
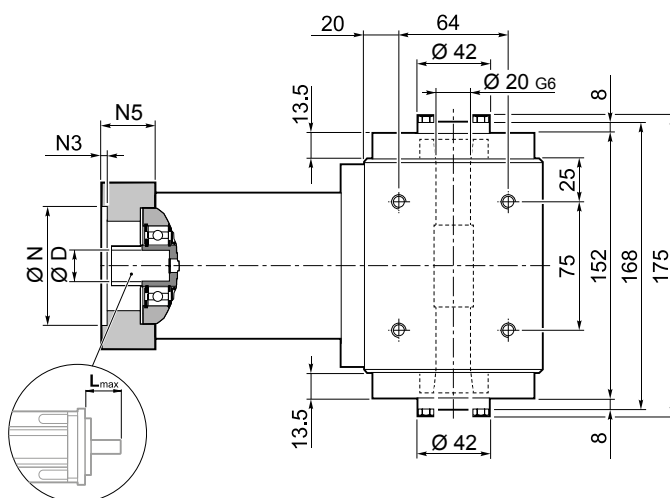
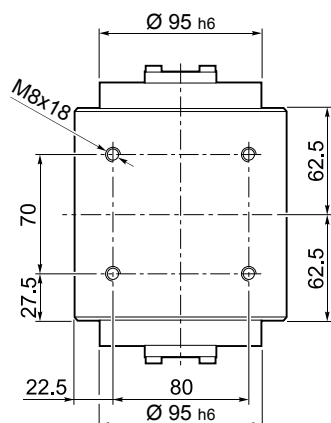
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52		38	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	10.5
11	12	12.7		43	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	12.5
14	15.875	16	17	48	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	14.5
19	19.05			51	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	16.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	SB		HB		η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	%	8 ... 12.7	14 ... 19.05
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_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

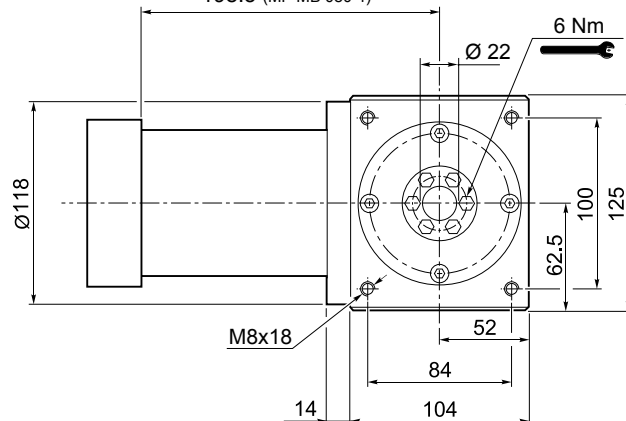
MP

MP MB 080

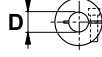
40B1 ... 110B1



149.5 (MP MB 080 2)
174 (MP MB 080 3)
198.5 (MP MB 080 4)



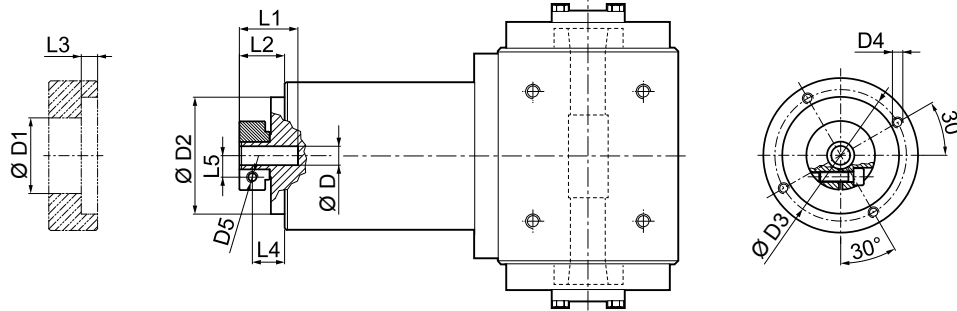
	
MP MB 080 2	9.5
MP MB 080 3	10.5
MP MB 080 4	11.5

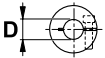
													N	N1	N2	N3	N4	N5	L _{max}
40B1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	40	63	80	4	M4x12	34	40
45A	8	9	9.52	11	12	12.7	—	—	—	—	—	—	45	63	80	4	M4x12	34	40
50B1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	5.5	34	40
50C1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	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

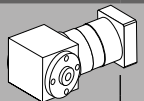
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP MB 080

FM



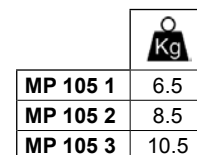
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52		38	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	10.5
11	12	12.7		43	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	12.5
14	15.875	16	17	48	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	14.5
19	19.05			51	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	16.5

	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	ψ _s	ψ _R	C _t	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	%	8 ... 12.7	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_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

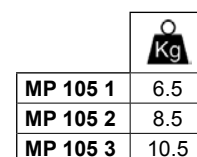
MP

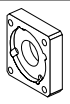
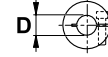
MP 105

IS



50D ... 130A1

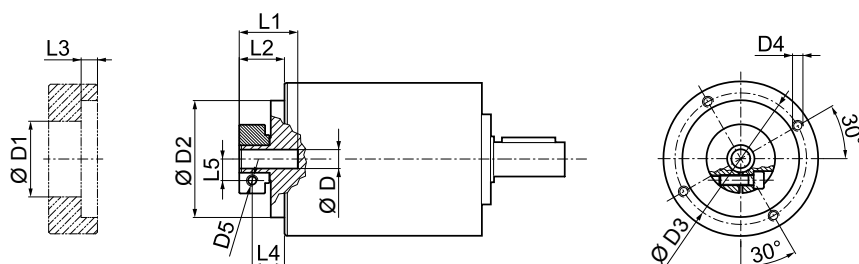


													N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	—	—	—	—	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	—	—	—	—	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	—	—	—	—	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	—	—	—	—	60	75	100	4	6.5	33	40
60B1	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



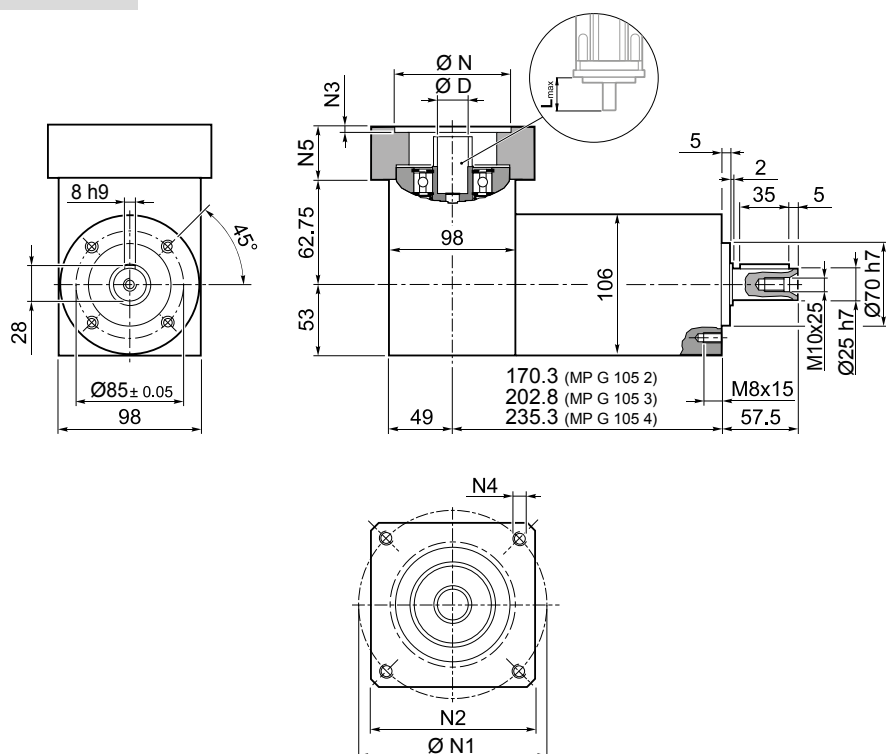
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6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

	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	[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_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

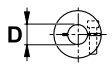
MP G 105

50D ... 130A1



	
MP G 105 2	8.5
MP G 105 3	10.5
MP G 105 4	12.5

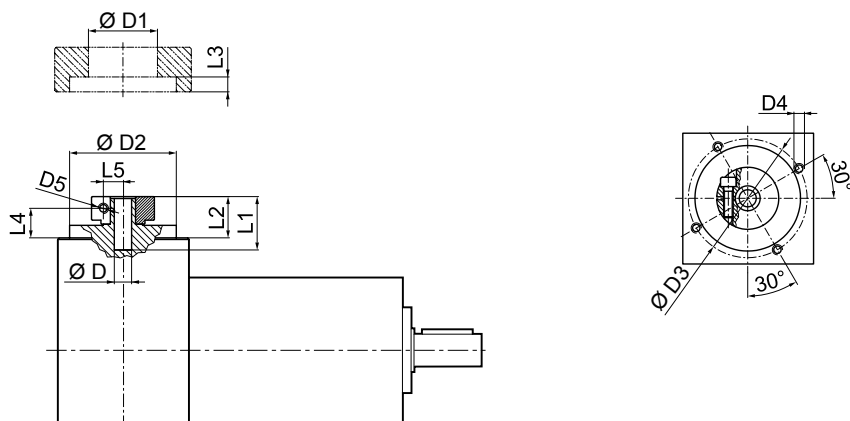
MP

												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	130	165	140	6.5	M10x25	48	60

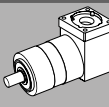
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP G 105

FM



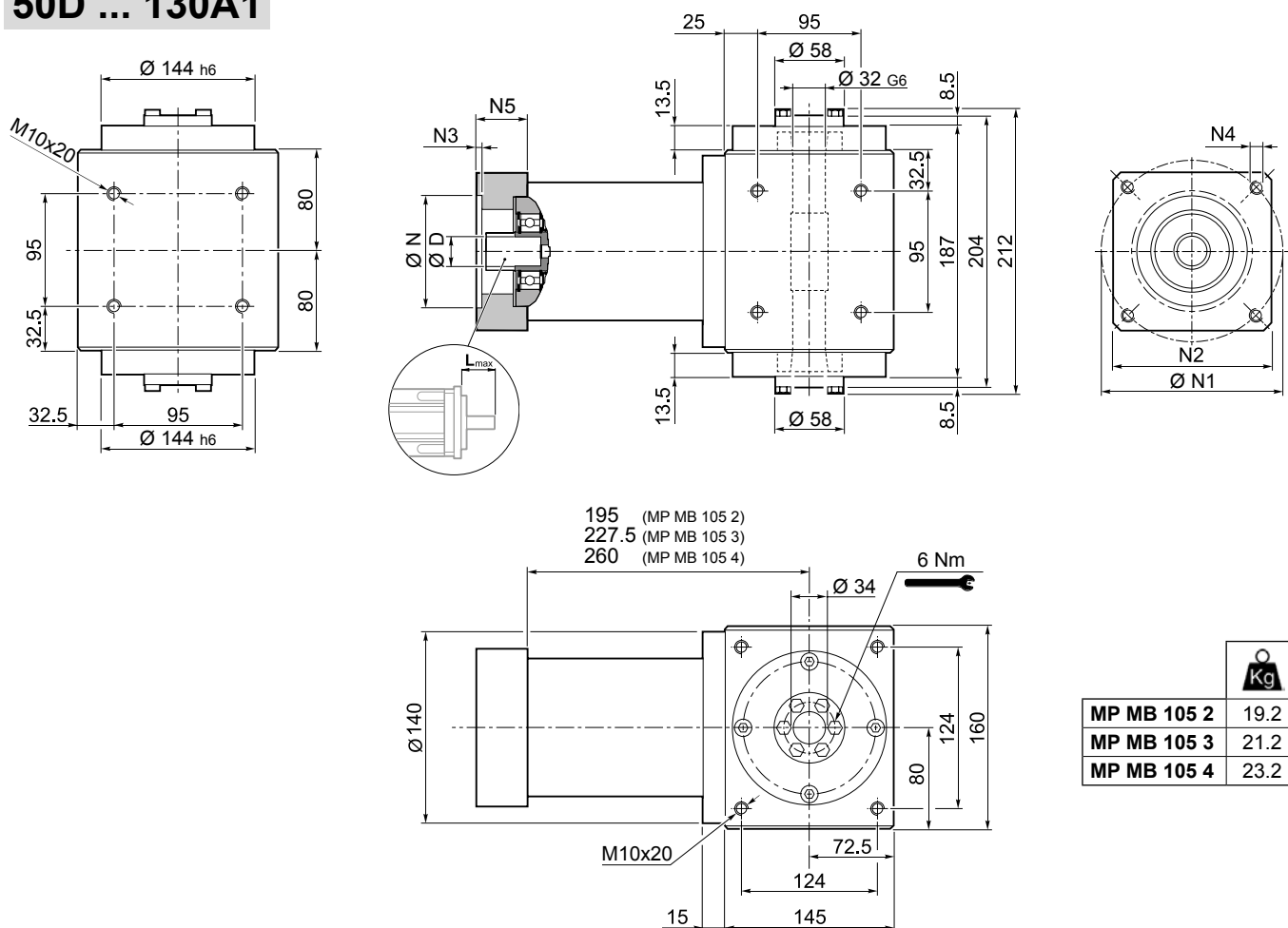
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6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

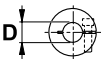
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	SB		HB		η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}}\right]$	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	%				
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}}\right]$	[N]	[N]	[N]	[N]	%	11 ... 12.7	14 ... 19	22 - 24	28 - 32
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_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

MP MB 105

50D ... 130A1

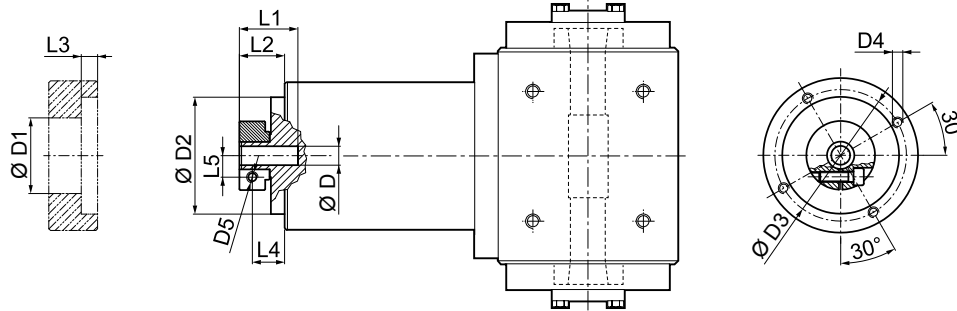


													N	N1	N2	N3	N4	N5	Lmax
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	4	6.5	33	40
60B1	11	12	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

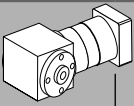
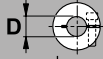
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP MB 105

FM



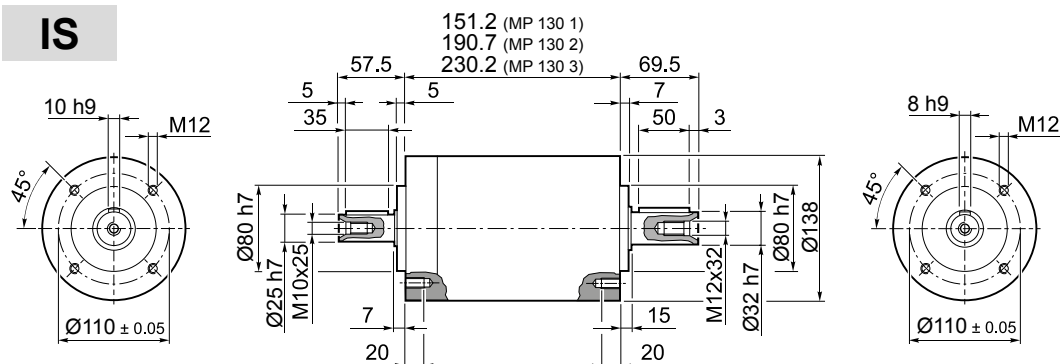
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6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

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	[Nm/arcmin]	%				
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_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

MP 130

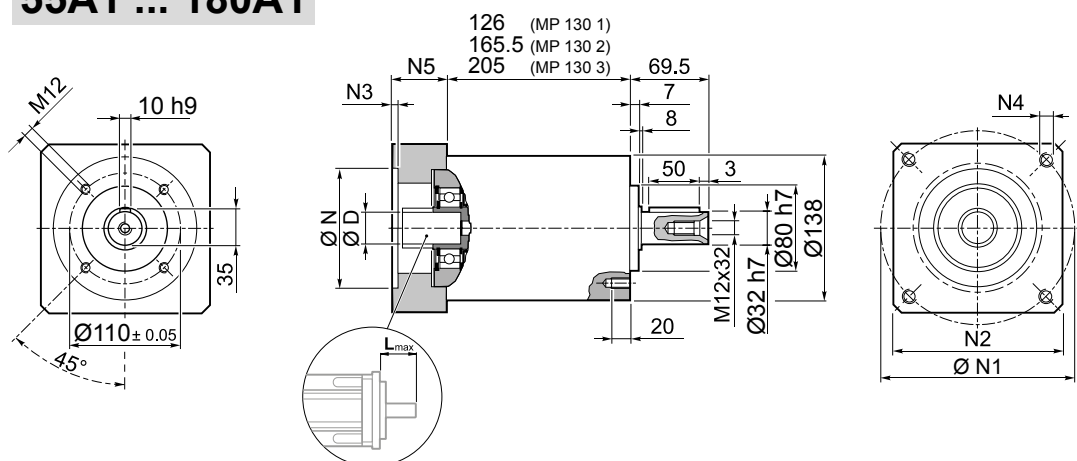
IS



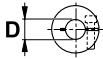
	Kg
MP 130 1	12.0
MP 130 2	15.5
MP 130 3	18.5

MP

55A1 ... 180A1



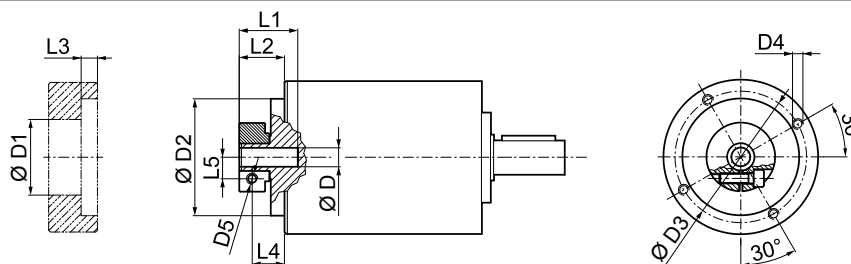
	Kg
MP 130 1	12.0
MP 130 2	15.5
MP 130 3	18.5

	 										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

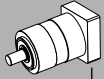
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP 130

FM



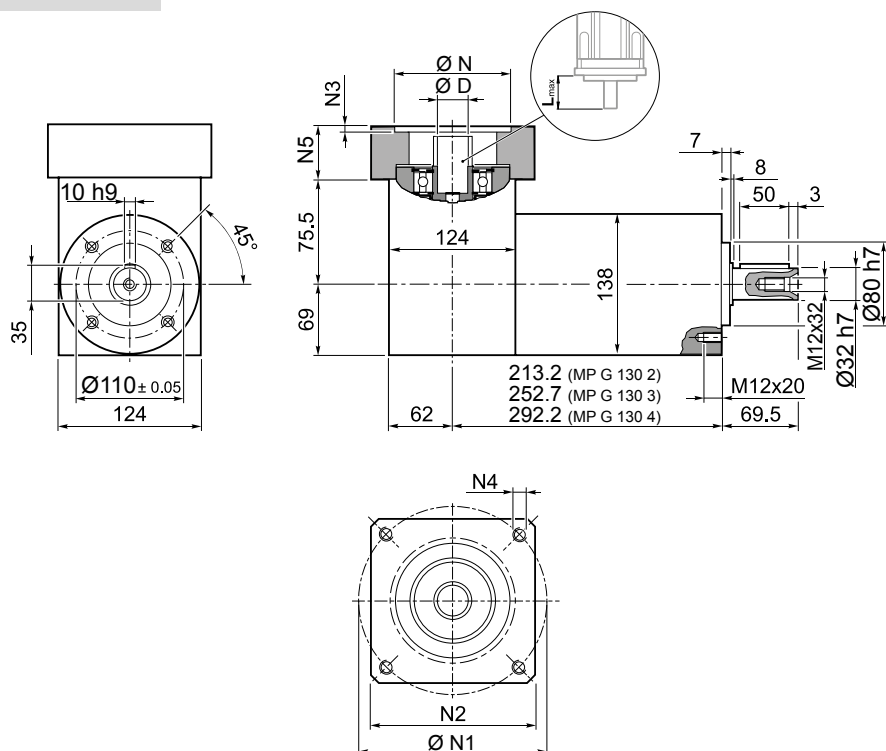
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25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

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{1max}	R_{2max}	A_{2max}	η	J_G [kgcm ²]				
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%		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_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

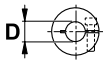
MP G 130

55A1 ... 180A1



	Kg
MP G 130 2	16.0
MP G 130 3	19.5
MP G 130 4	22.5

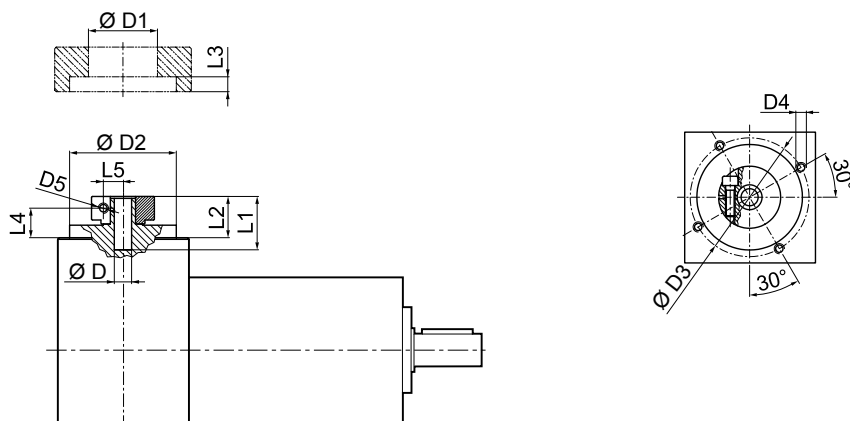
MP

	 										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

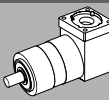
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP G 130

FM



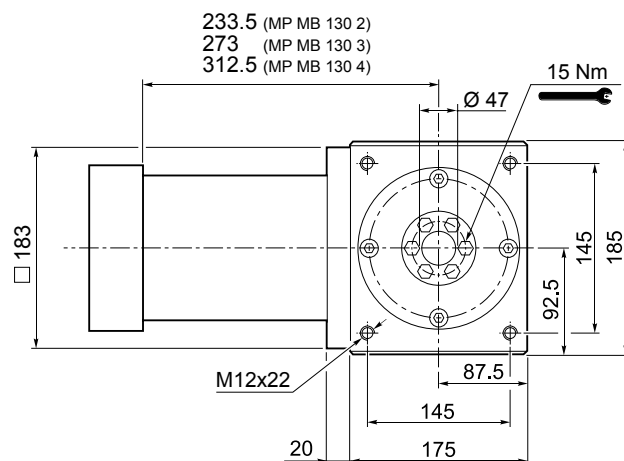
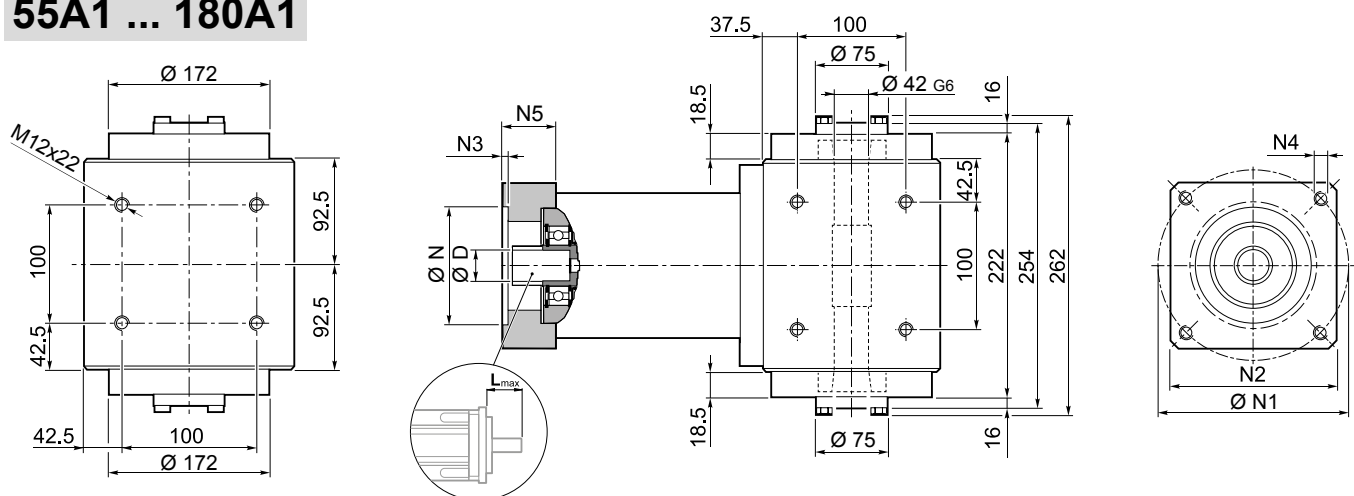
			D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15.875	16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19			51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22	24		56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28			67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32			71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35			73	113	125.5	M8x15	M8	50	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}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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_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

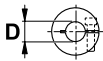
MP

MP MB 130

55A1 ... 180A1



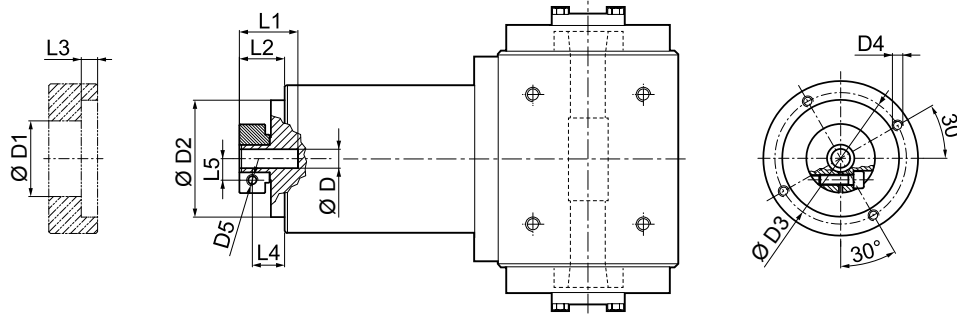
	Kg
MP MB 130 2	54
MP MB 130 3	58
MP MB 130 4	61

	 										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

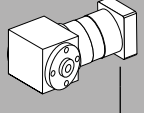
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP MB 130

FM



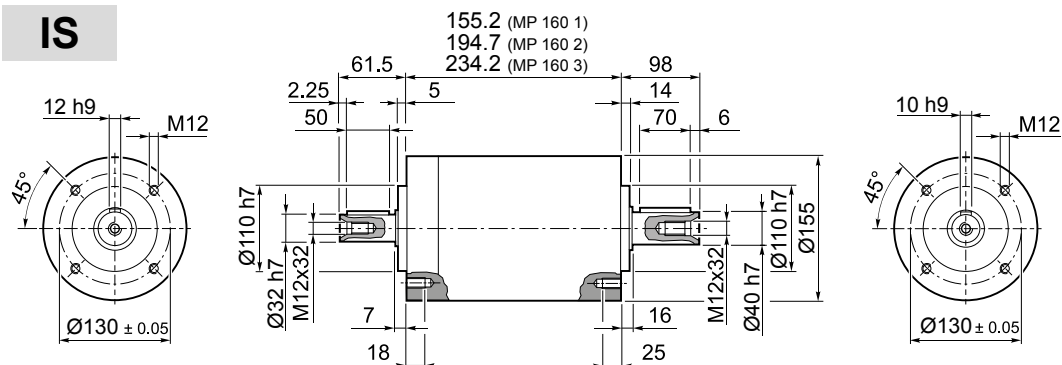
			D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15.875	16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19			51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22	24		56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28			67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32			71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35			73	113	125.5	M8x15	M8	50	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}	Ψ _S	Ψ _R	C _t	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	%	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_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

MP 160

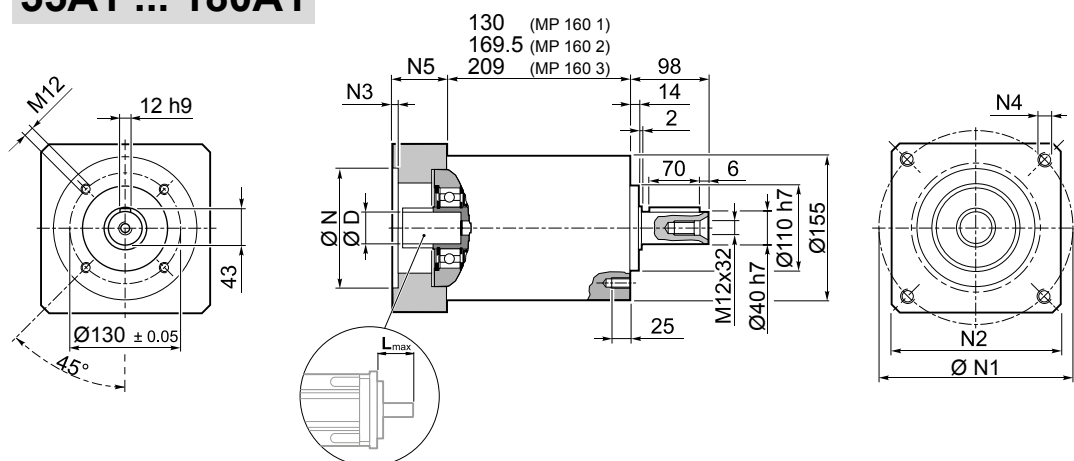
IS



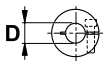
	Kg
MP 160 1	17.0
MP 160 2	21
MP 160 3	28

MP

55A1 ... 180A1



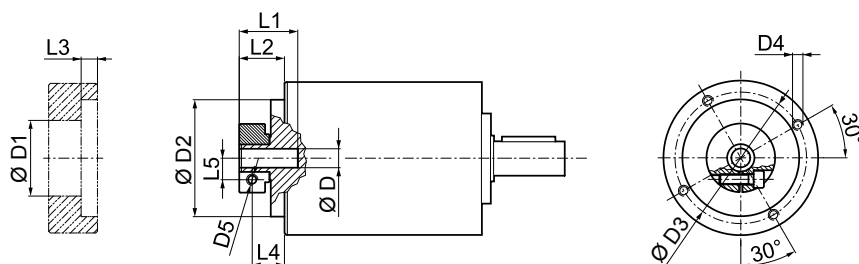
	Kg
MP 160 1	17.0
MP 160 2	21
MP 160 3	28

											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	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

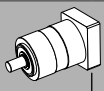
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP 160

FM



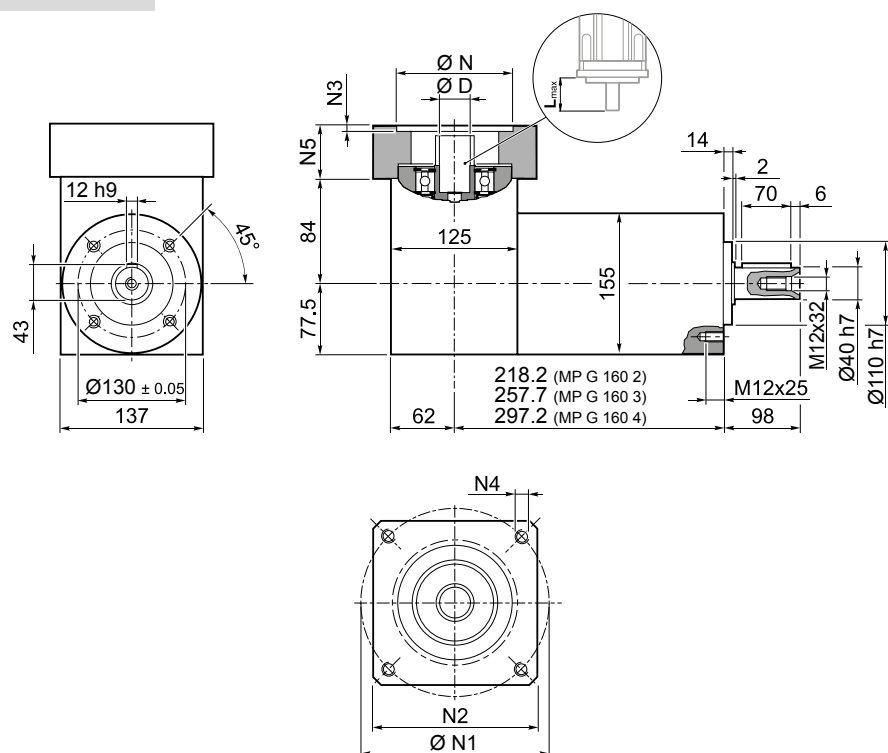
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	130	142.5	M8x16	M6	40	27.5	6	20	14.5
19	51	130	142.5	M8x16	M6	40	27.5	6	20	16.5
22 24	56.5	130	142.5	M8x16	M6	41	28.5	6	19.5	19
28	67	130	142.5	M8x16	M8	41	28.5	6	19.5	22.5
32	71	130	142.5	M8x16	M8	41	28.5	6	19.5	24.5
35	73	130	142.5	M8x16	M8	50	37.5	11.25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

	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	ψ_S	ψ_R	C_t	R_{1max}	R_{2max}	A_{2max}	η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\frac{Nm}{arcmin}$	[N]	[N]	[N]	%	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

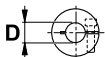
MP G 160

55A1 ... 180A1



	Kg
MP G 160 2	24
MP G 160 3	28
MP G 160 4	34

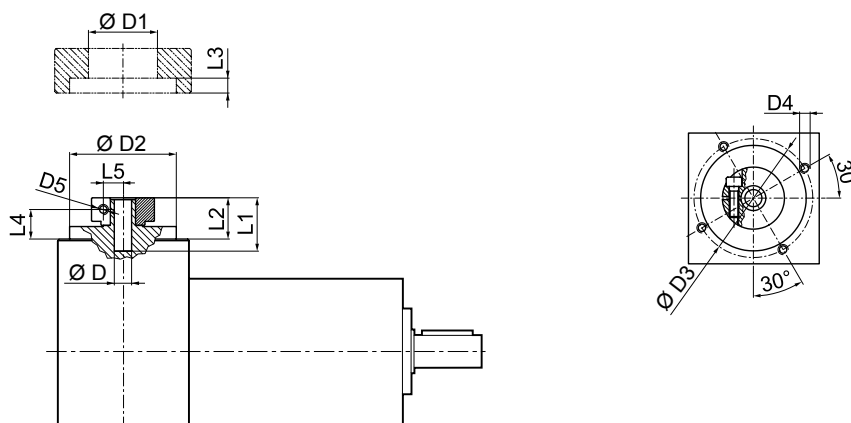
MP

											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	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.

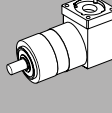
MP G 160

FM



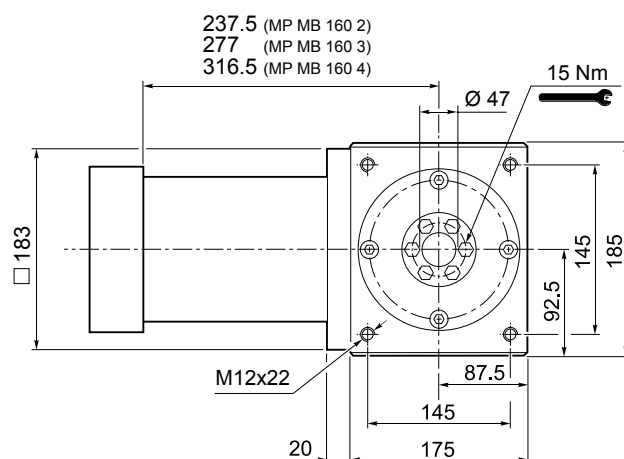
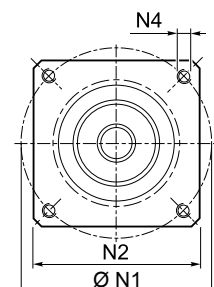
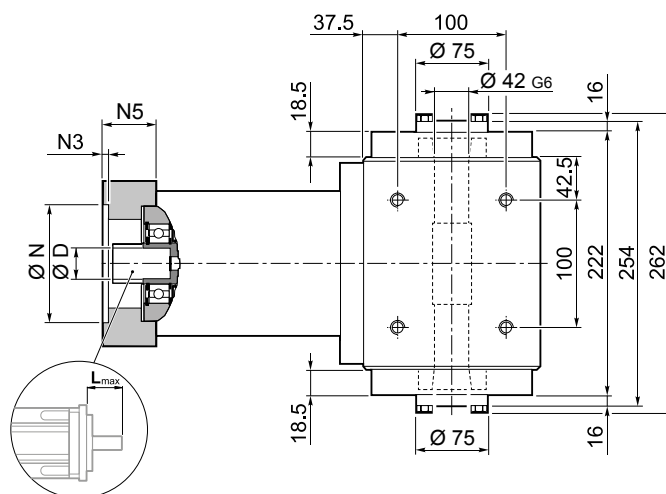
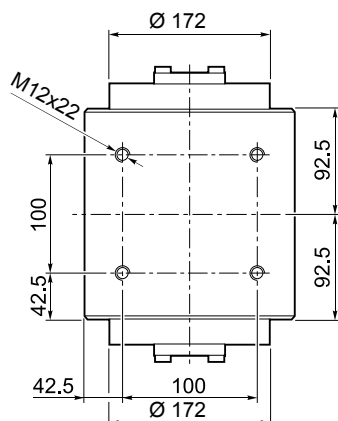
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25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

MP

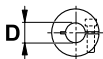
	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_s	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm [arcmin]	[N]	[N]	%				
												14 ... 19	22 - 24	28 - 32	35 - 38
MP G 160 2_3	350	660	1200	1900	3000	15'	10'	90	6500	7500	94	10.23	10.42	10.80	13.51
MP G 160 2_4	500	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_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_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



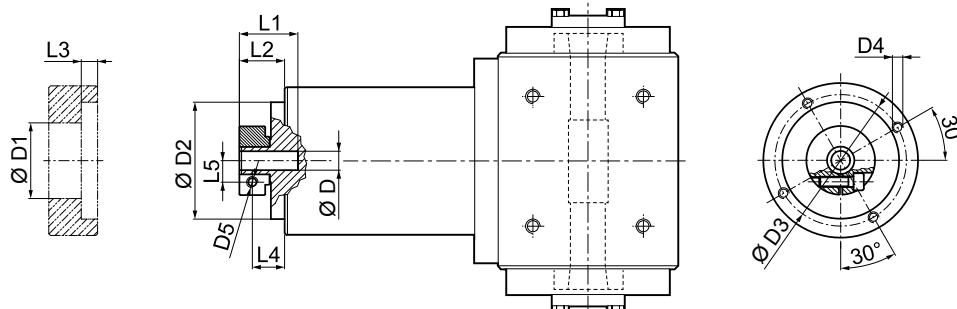
	Kg
MP MB 160 2	59
MP MB 160 3	63.5
MP MB 160 4	70.5

	 										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	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

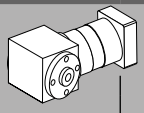
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MP MB 160

FM



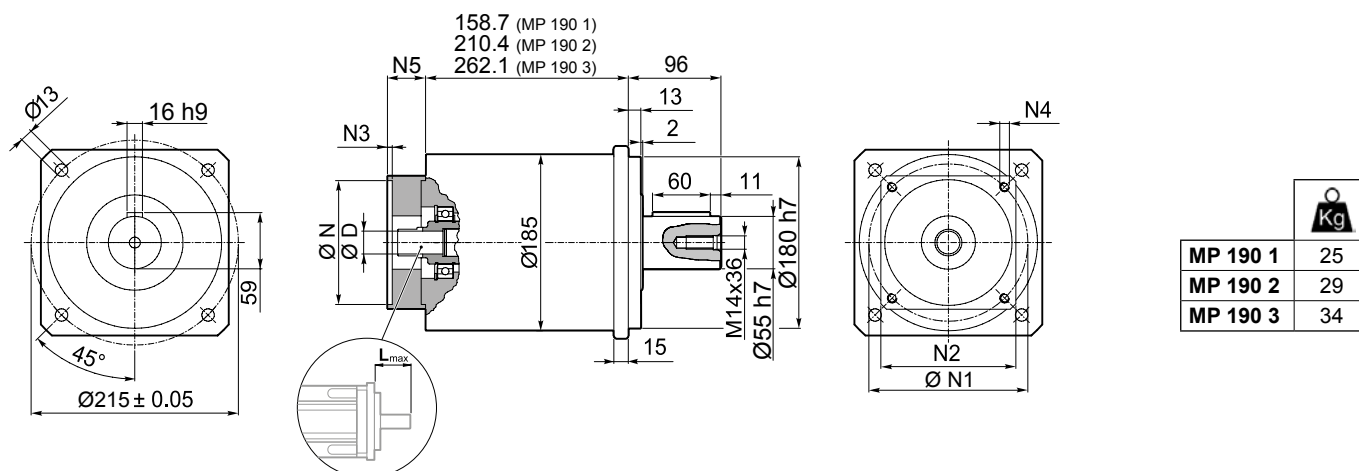
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	130	142.5	M8x16	M6	40	27.5	6	20	14.5
19	51	130	142.5	M8x16	M6	40	27.5	6	20	16.5
22 24	56.5	130	142.5	M8x16	M6	41	28.5	6	19.5	19
28	67	130	142.5	M8x16	M8	41	28.5	6	19.5	22.5
32	71	130	142.5	M8x16	M8	41	28.5	6	19.5	24.5
35	73	130	142.5	M8x16	M8	50	37.5	11.25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

	M_n 2	M_a 2	M_p 2	n_1	n_1 max	φ_S	φ_R	C_t	η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	%				
										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

MP 190

55A1 ... 180A1

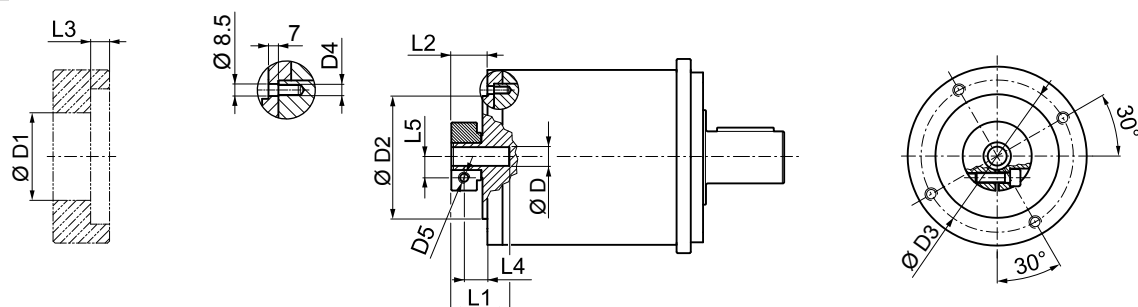


MP

													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	5.5	M14x25	49.5	60
180A1	14	16	19	22	24	28	32	35	38	42	45	48	180	215	190	5.5	M14x25	69.5	80

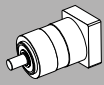
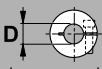
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

FM



	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_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²] 				
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	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

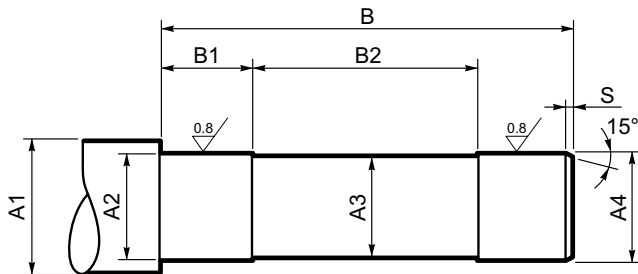
MP

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. Sugeriamo 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



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

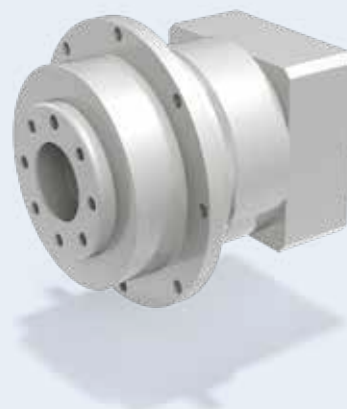


RIDUTTORI EPICICLOIDALI DI PRECISIONE IN LINEA

(E)

Serie TQFE

La serie TQFE combina con successo elevata compattezza a un'interfaccia flangiata standardizzata, semplificando l'installazione e rendendola adatta a un'ampia gamma di applicazioni. All'interno della nostra gamma più efficiente, la serie TQFE si distingue per la capacità di seguire con precisione traiettorie dinamiche, grazie all'elevata rigidità torsionale. La TQFE rappresenta il giusto equilibrio tra prestazioni, precisione e costo, garantendo così un valore aggiunto per le macchine dei clienti.



VANTAGGI PRINCIPALI

- L'elevata rigidità torsionale assicura prestazioni stabili anche in cicli di carico impegnativi
- Design altamente compatto
- Installazione robusta grazie all'interfaccia flangiata di uscita standardizzata, compatibile con gli standard di mercato

OPZIONI PRINCIPALI

Versioni ingresso



Lubrificazione



TQFE

DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto [arcmin]	Standard		
060	30	3-100	5	10	6,5	12
070	65	3-100	5	10	26	50
090	155	3-100	5	10	60	110

1) Valore migliore disponibile per ciascuna taglia.

7 CARATTERISTICHE DELLA SERIE TQFE

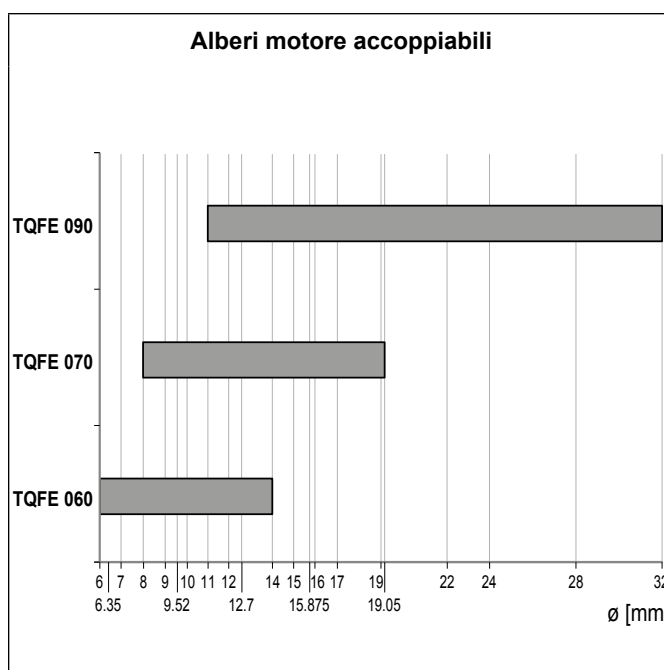
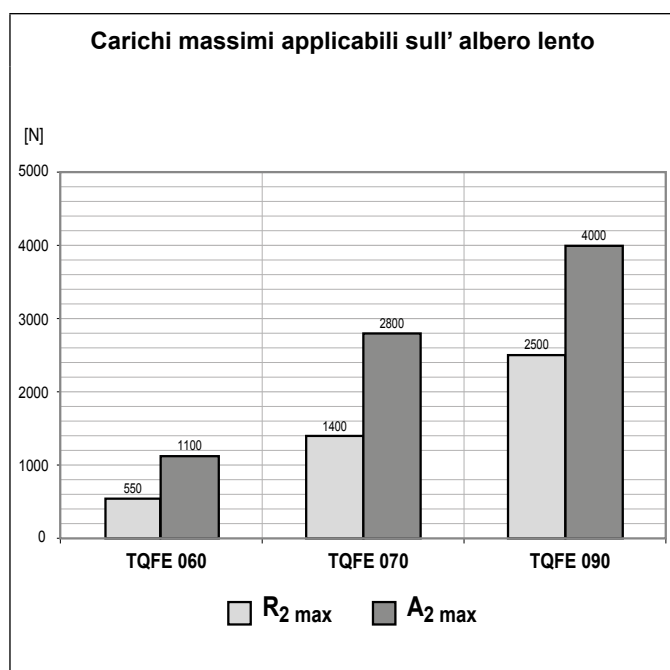
La serie TQFE rappresenta la risposta per le applicazioni che richiedono soluzioni compatte e salvaspazio. La sua flangia standardizzata garantisce un'elevata compatibilità mentre il suo design proporzionato consente un funzionamento silenzioso e una lunga durata senza necessità di manutenzione.

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.

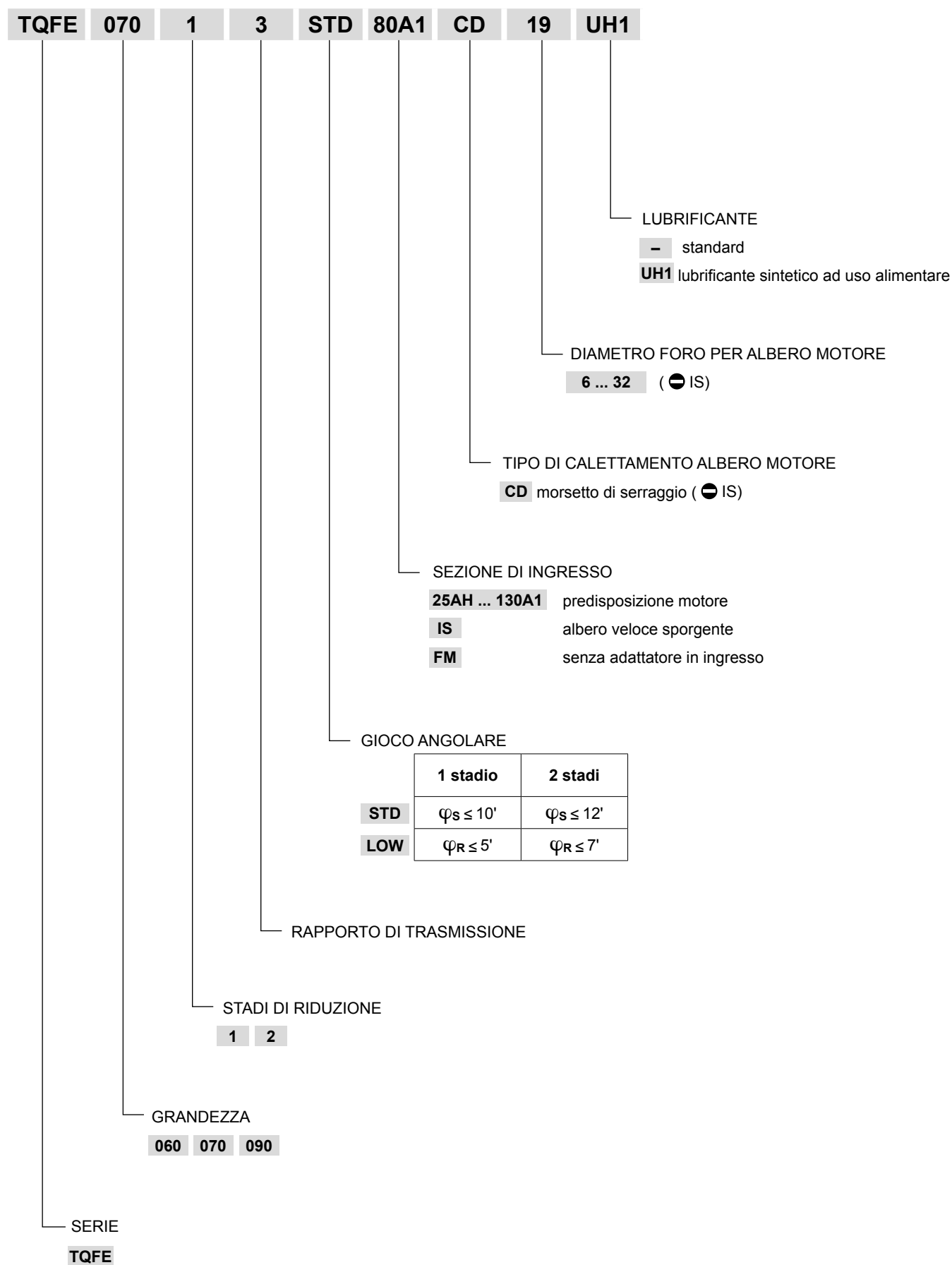
- Disponibile con gioco standard (STD) o ridotto (LOW):
Unità a 1 stadio: standard $\varphi_S \leq 10'$; ridotto $\varphi_R \leq 5'$
Unità a 2 stadi: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 7'$
- La sua classe di protezione IP54 fornisce protezione contro polvere e spruzzi di liquidi.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

TQFE

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					

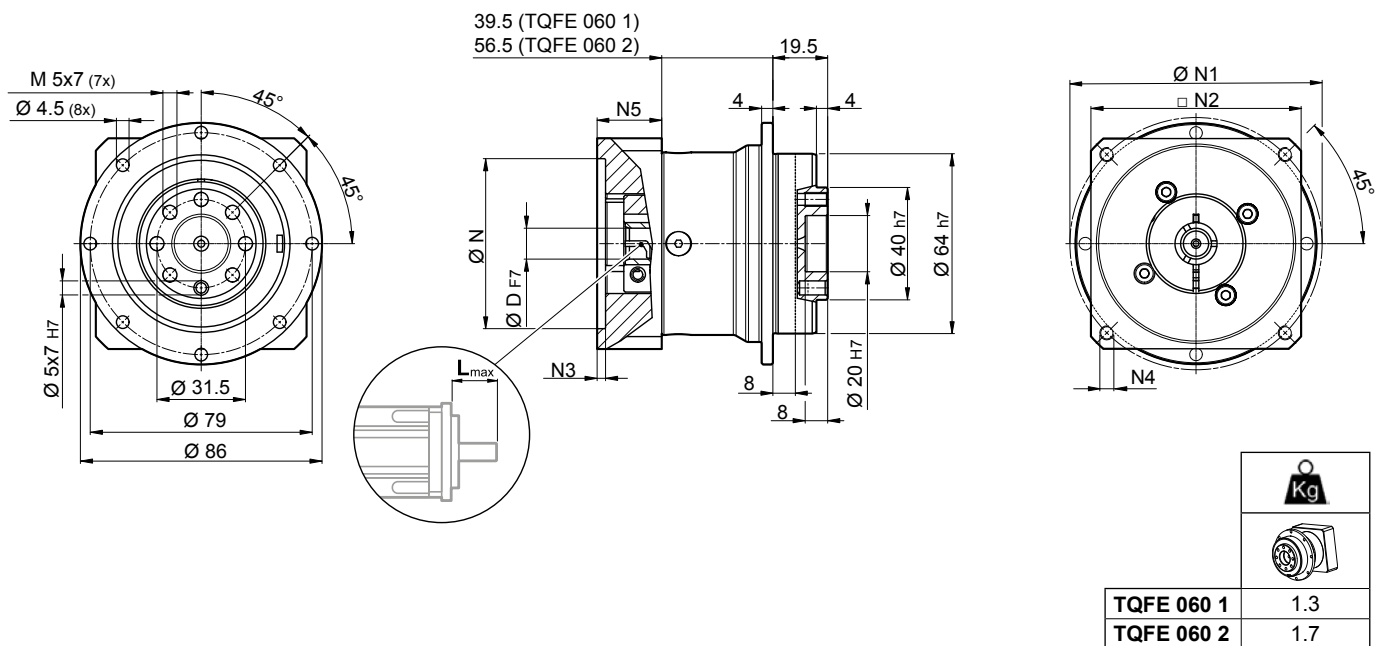


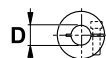
7.1 CODICE ORDINATIVO



7.2 DIMENSIONI E DATI TECNICI

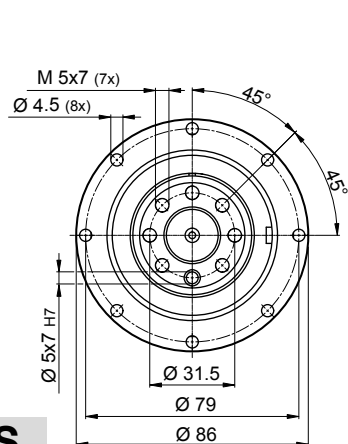
TQFE 060



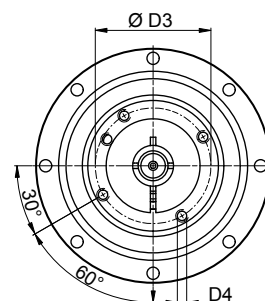
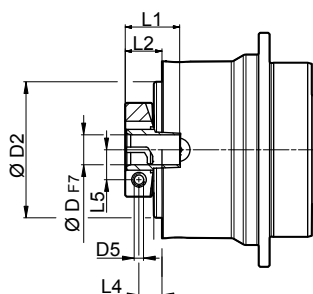
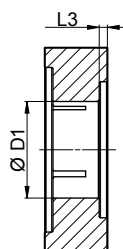
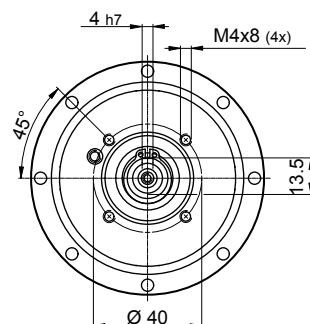
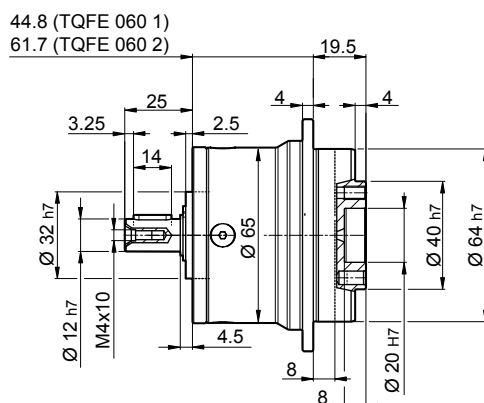
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	–	–	–	–	–	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	–	–	–	–	–	26	39	56					
28AH	6	6.35	7	8	9	9.52	–	–	–	–	–	28	39	56					
30AH	6	6.35	7	8	9	9.52	–	–	–	–	–	30	39	56					
32AH	6	6.35	7	8	9	9.52	–	–	–	–	–	32	39	56					
34AH	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



TQFE

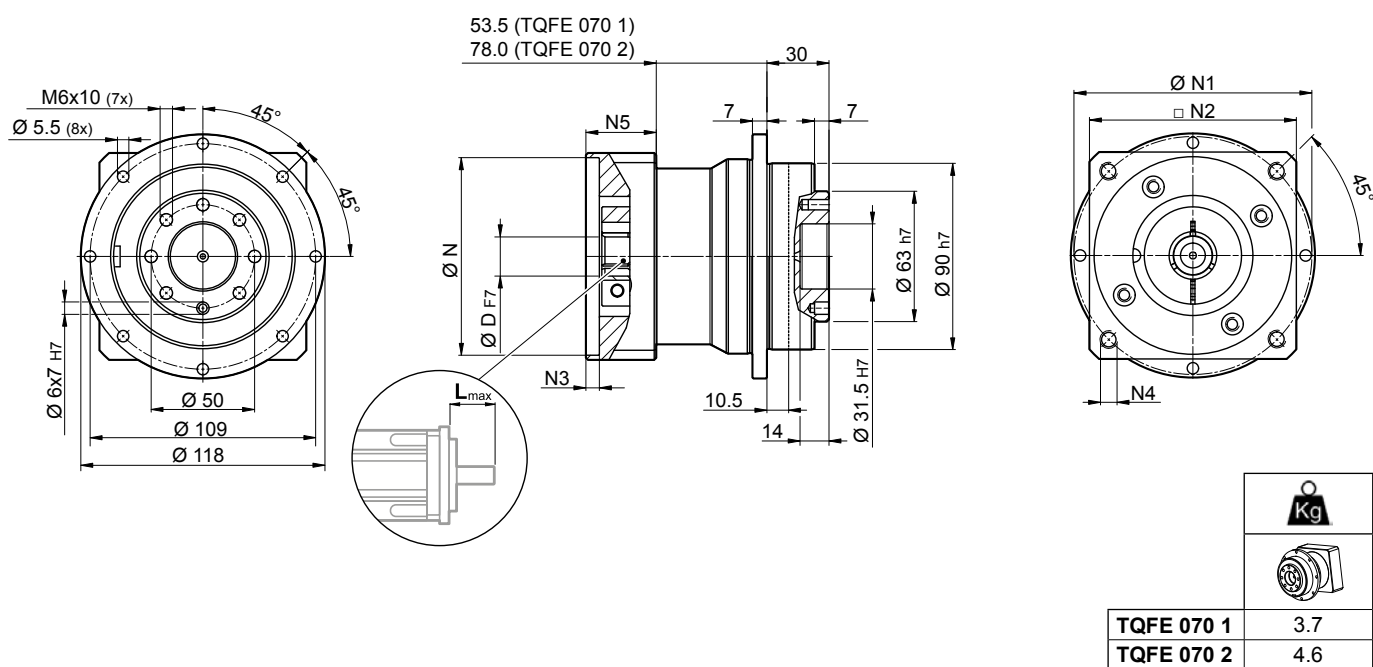
FM

				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}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	[Nm/arcmin]	[N]	[N]	[N]	%	6 ... 10	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	550	1100	94	0.17	0.21
TQFE 060 2_15		29	55	70	3300	4000	12'	7'	6	200	550	1100	94	0.17	0.20
TQFE 060 2_16		30	45	70	3500	5000	12'	7'	6	200	550	1100	94	0.13	0.15
TQFE 060 2_20		30	45	70	3500	5000	12'	7'	6	200	550	1100	94	0.13	0.14
TQFE 060 2_25		30	45	70	3500	5000	12'	7'	6	200	550	1100	94	0.12	0.14
TQFE 060 2_28		30	45	70	4000	6000	12'	7'	6	200	550	1100	94	0.11	0.13
TQFE 060 2_30		29	55	60	4000	6000	12'	7'	6	200	550	1100	94	0.10	0.12
TQFE 060 2_35		30	45	70	4000	6000	12'	7'	6	200	550	1100	94	0.08	0.11
TQFE 060 2_40		30	45	70	4000	6000	12'	7'	6	200	550	1100	94	0.08	0.09
TQFE 060 2_50		30	45	70	4000	6000	12'	7'	6	200	550	1100	94	0.07	0.09
TQFE 060 2_70		30	45	70	4000	6000	12'	7'	6	200	550	1100	94	0.06	0.09
TQFE 060 2_100		18	30	60	4000	6000	12'	7'	6	200	550	1100	94	0.06	0.09



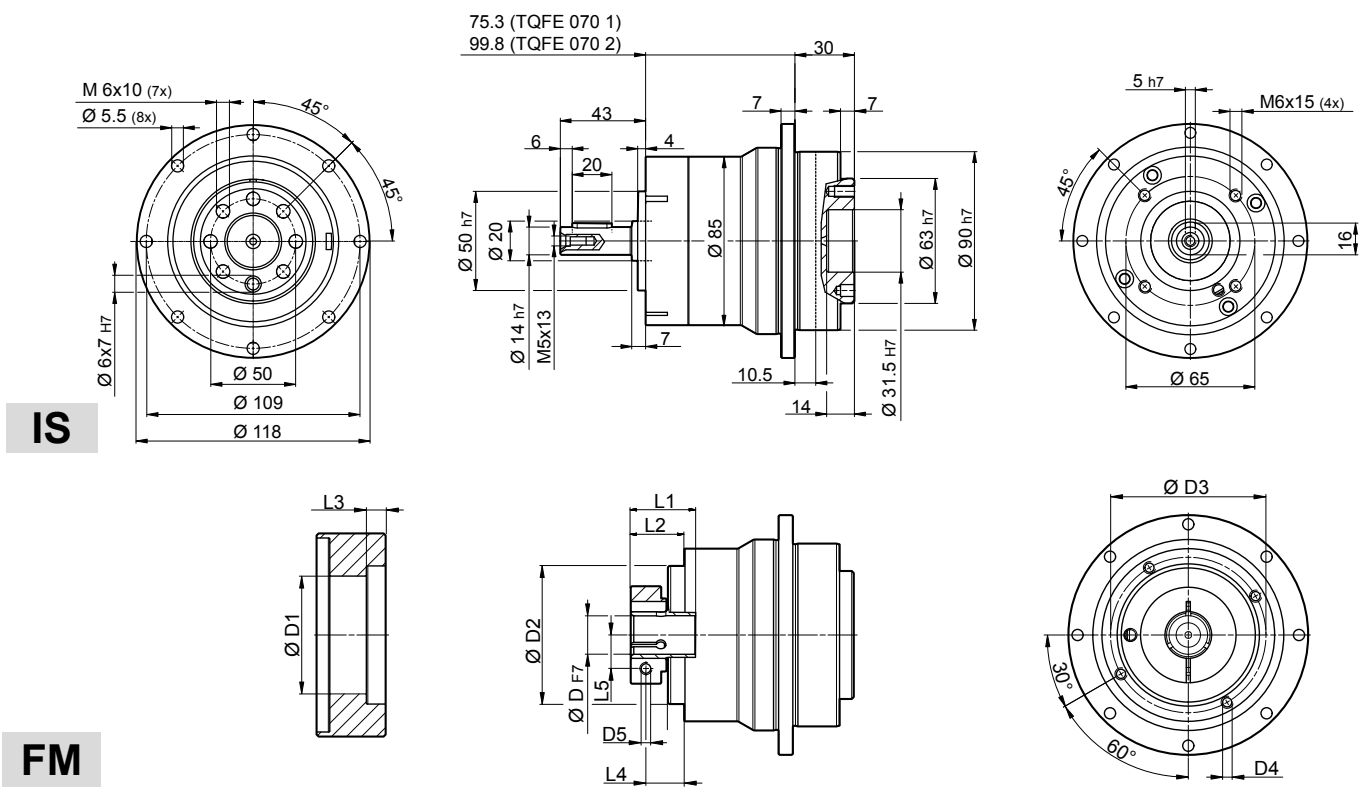
TQFE 070



												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	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	70	85	80	4	M6x20	34	40
70AH1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	70	85	90	4	6.5	34	40
70B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	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	80	100	90	4	M6x16	34	40
95A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	115	100	4	M8x20	34	40
95B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	130	115	4	M8x20	34	40
110A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	130	115	4	M8x20	34	40
110B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	44	50
110B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	54	60

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

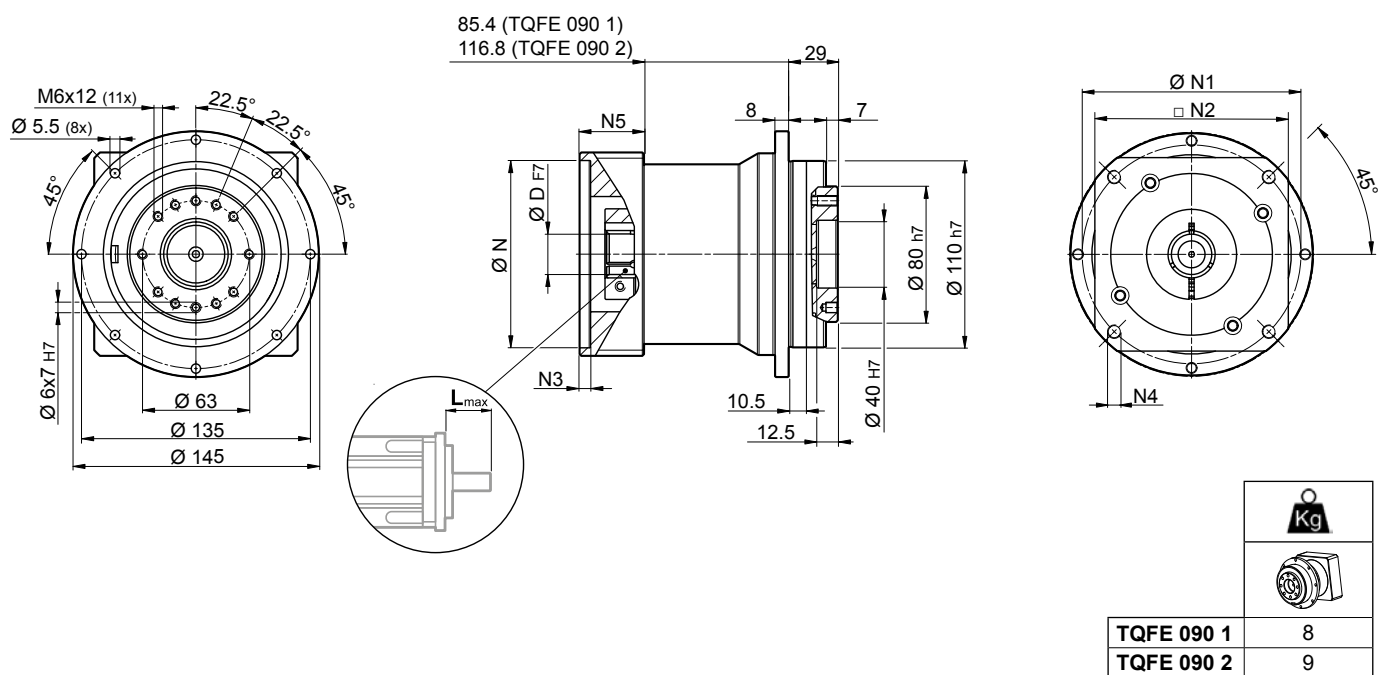
TQFE 070

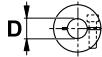


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52		38	68	76.5	M6x10	M6	34	26.8	9.5	18.8	10.5
11	12	12.7		52	68	76.5	M6x10	M6	34	26.8	9.5	18.8	12.5
14	15.875	16	17	48	68	76.5	M6x10	M6	34	26.8	9.5	18.8	14.5
19	19.05			51	68	76.5	M6x10	M6	34	26.3	9.5	18.8	16.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\frac{Nm}{arcmin}$	[N]	[N]	[N]	%	8 ... 12.7	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	4000	12'	7'	23	400	1400	2800	94	0.67	0.81
TQFE 070 2_12		65	120	160	3500	4000	12'	7'	23	400	1400	2800	94	0.65	0.75
TQFE 070 2_15		65	120	160	3500	4000	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

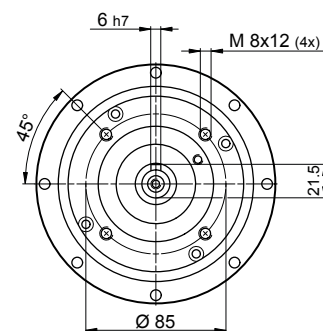
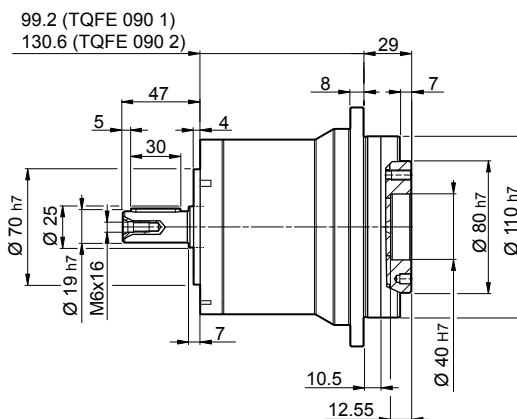
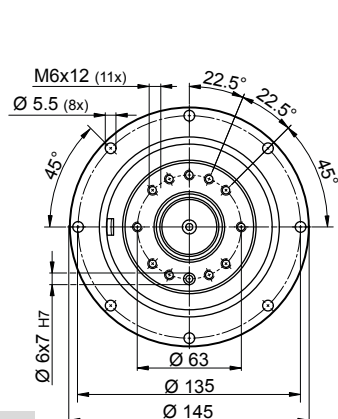
TQFE 090



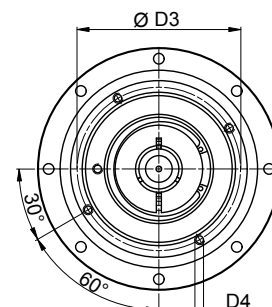
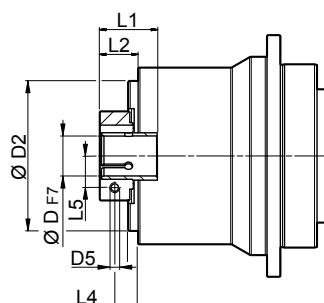
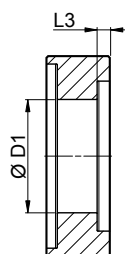
													N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	–	–	–	–	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	–	–	–	–	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	–	–	–	–	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	–	–	–	–	60	75	100	4	6.5	33	40
60B1	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

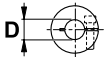


IS



FM

TQFE

				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}	ψ _S	ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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



RIDUTTORI EPICICLOIDALI DI PRECISIONE AD ANGOLO RETTO

Serie TQFEK

La serie TQFEK offre prestazioni e funzionalità ottimizzate a un eccellente rapporto qualità-prezzo. Grazie a un'interfaccia flangiata standardizzata ed estremamente compatta, unita a un'elevata precisione di posizionamento, è adatta a un'ampia gamma di applicazioni industriali.

Il suo design ad angolo retto consente un ingombro ridotto, ideale per layout compatti.



VANTAGGI PRINCIPALI

- L'elevata rigidità torsionale assicura prestazioni stabili anche in cicli di carico impegnativi
- Installazione robusta grazie all'interfaccia flangiata di uscita standardizzata, compatibile con gli standard di mercato
- Design compatto per layout a ingombro ridotto

OPZIONI PRINCIPALI

Versioni ingresso



Lubrificazione



DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto [arcmin]	Standard		
060	30	3-100	7	12	6,5	12
070	65	3-100	7	12	26	50
090	155	3-100	7	12	60	110

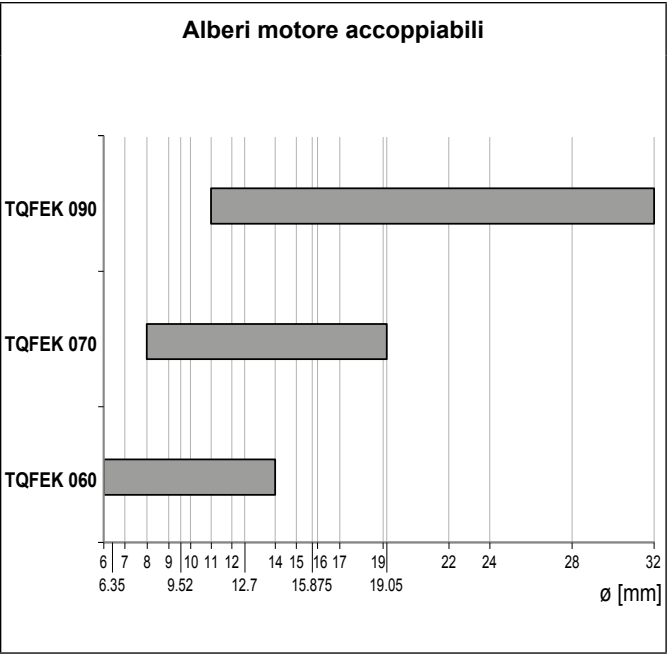
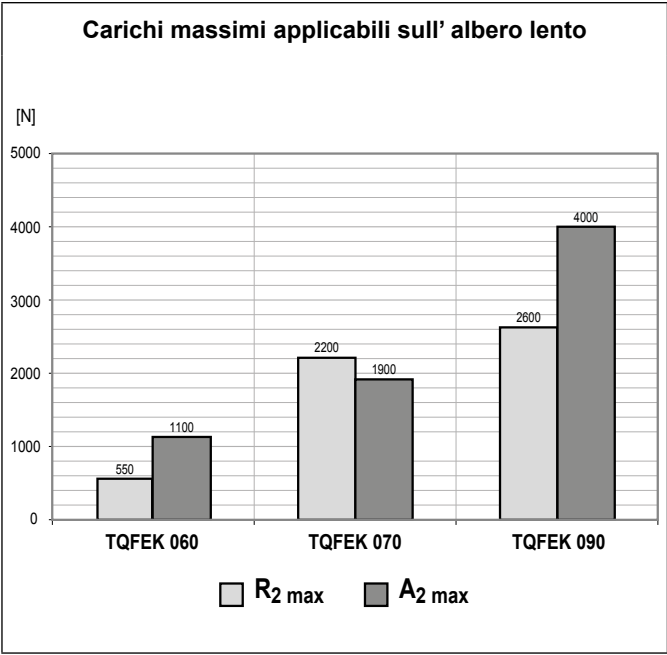
1) Valore migliore disponibile per ciascuna taglia.

8 CARATTERISTICHE DELLA SERIE TQFEK

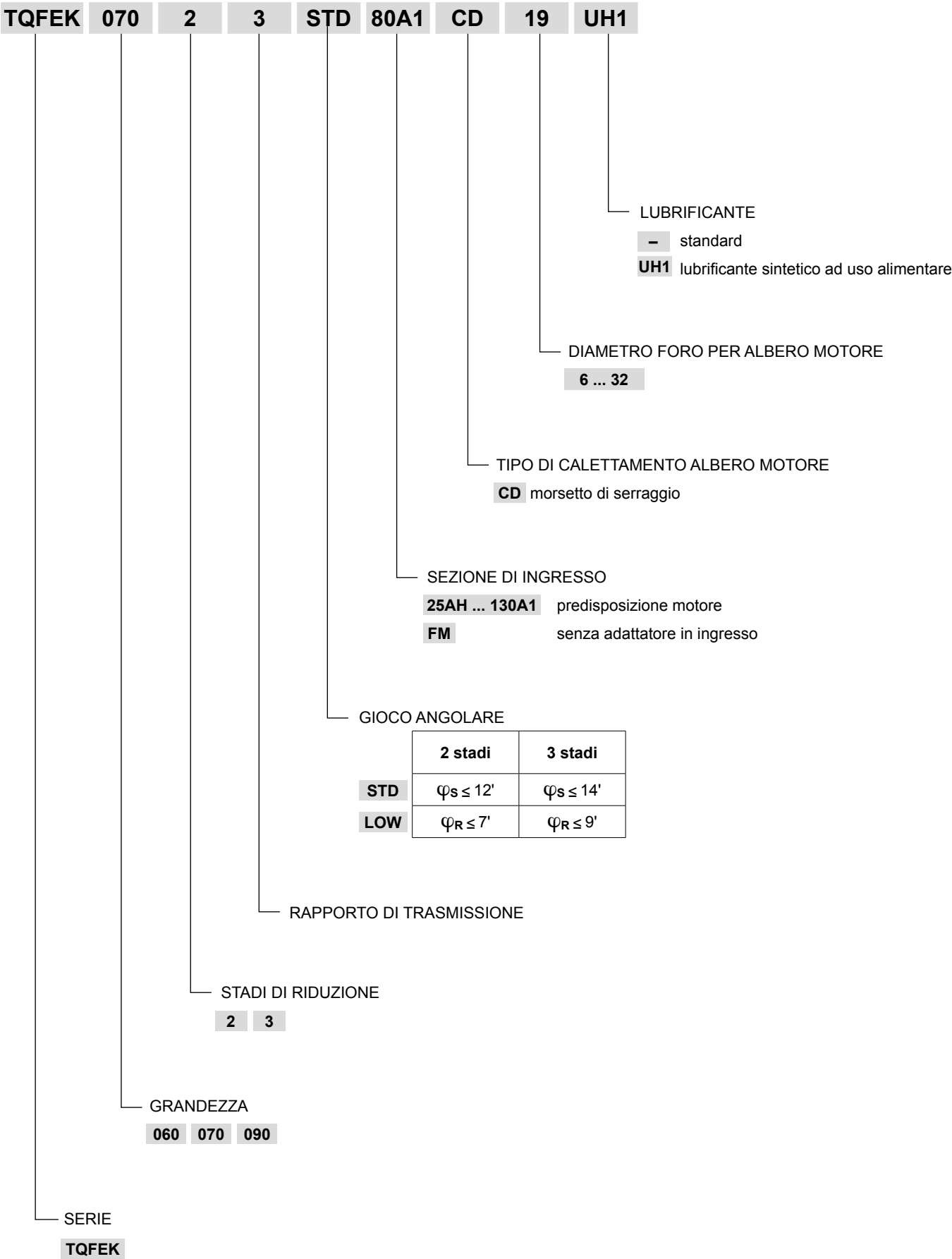
Il design ad angolo retto della serie TQFEK rappresenta la risposta per le applicazioni che richiedono soluzioni compatte e salvaspazio. La sua flangia standardizzata garantisce un'elevata compatibilità mentre il suo design proporzionato consente un funzionamento silenzioso e una lunga durata senza necessità 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 $LP \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico una velocità di ingresso di $n_1 = 3000 \text{ min}^{-1}$; $i=10$.
- 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 $+30^\circ\text{C}$. Per temperature superiori a 30°C considerare il fattore di declassamento f_T .
- La temperatura dell'alloggiamento non deve superare $T_{\text{max}} = 90^\circ\text{C}$.

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



8.1 CODICE ORDINATIVO

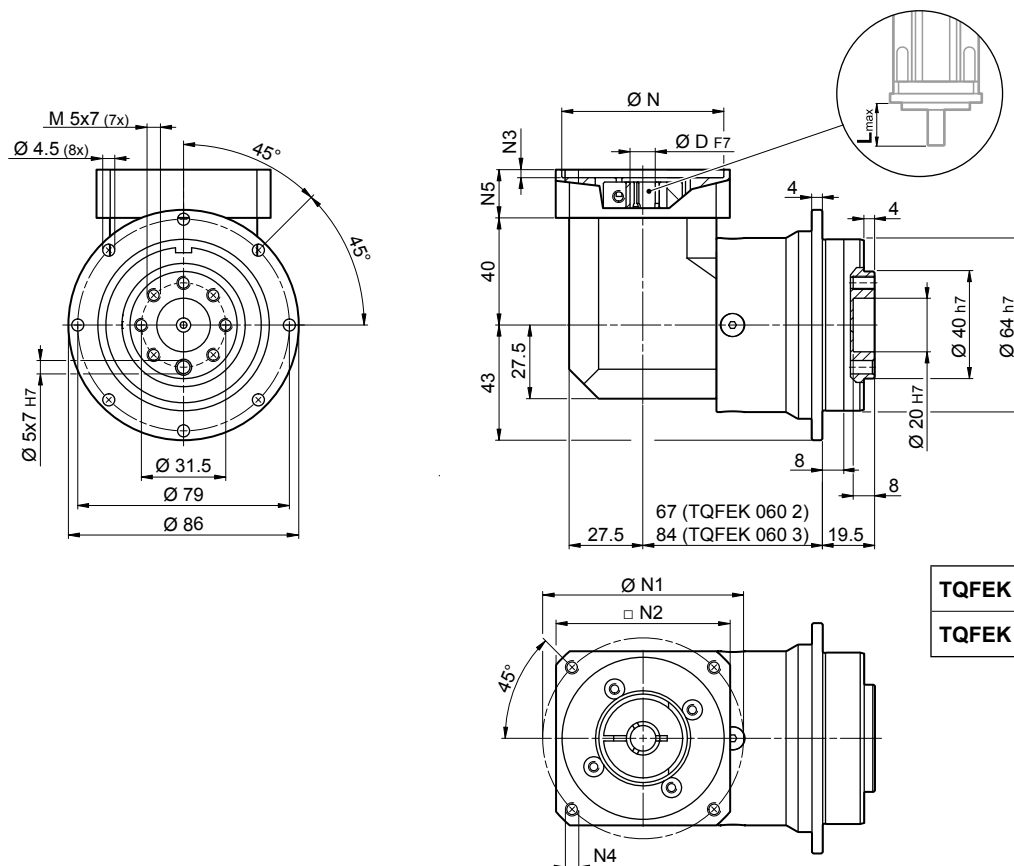


TQFEK

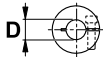


8.2 DIMENSIONI E DATI TECNICI

TQFEK 060



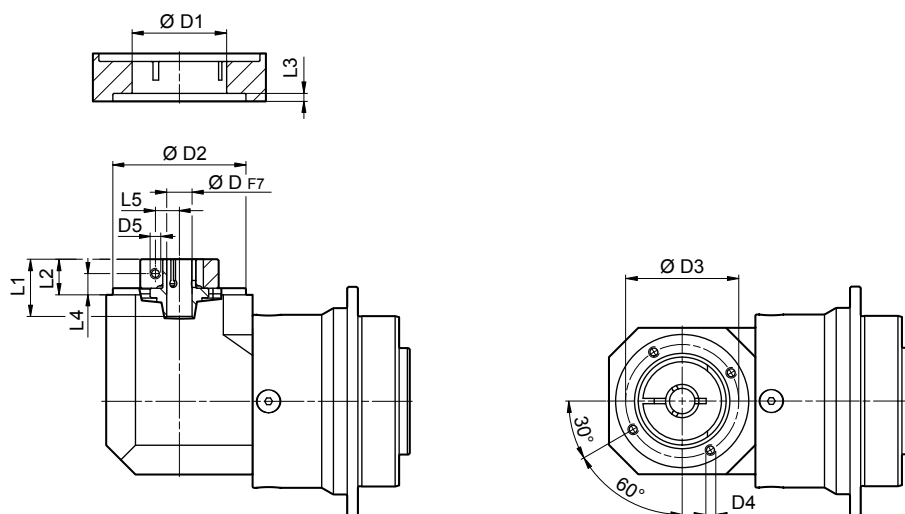
TQFEK 060 2	1.8
TQFEK 060 3	2.2

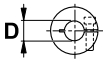
												N	N1		N2	N3	N4	N5	L _{max}
	min	max																	
25AH	6	6.35	7	8	9	9.52	–	–	–	–	–	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	–	–	–	–	–	26	39	56					
28AH	6	6.35	7	8	9	9.52	–	–	–	–	–	28	39	56					
30AH	6	6.35	7	8	9	9.52	–	–	–	–	–	30	39	56					
32AH	6	6.35	7	8	9	9.52	–	–	–	–	–	32	39	56					
34AH	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

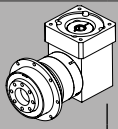
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

TQFEK 060

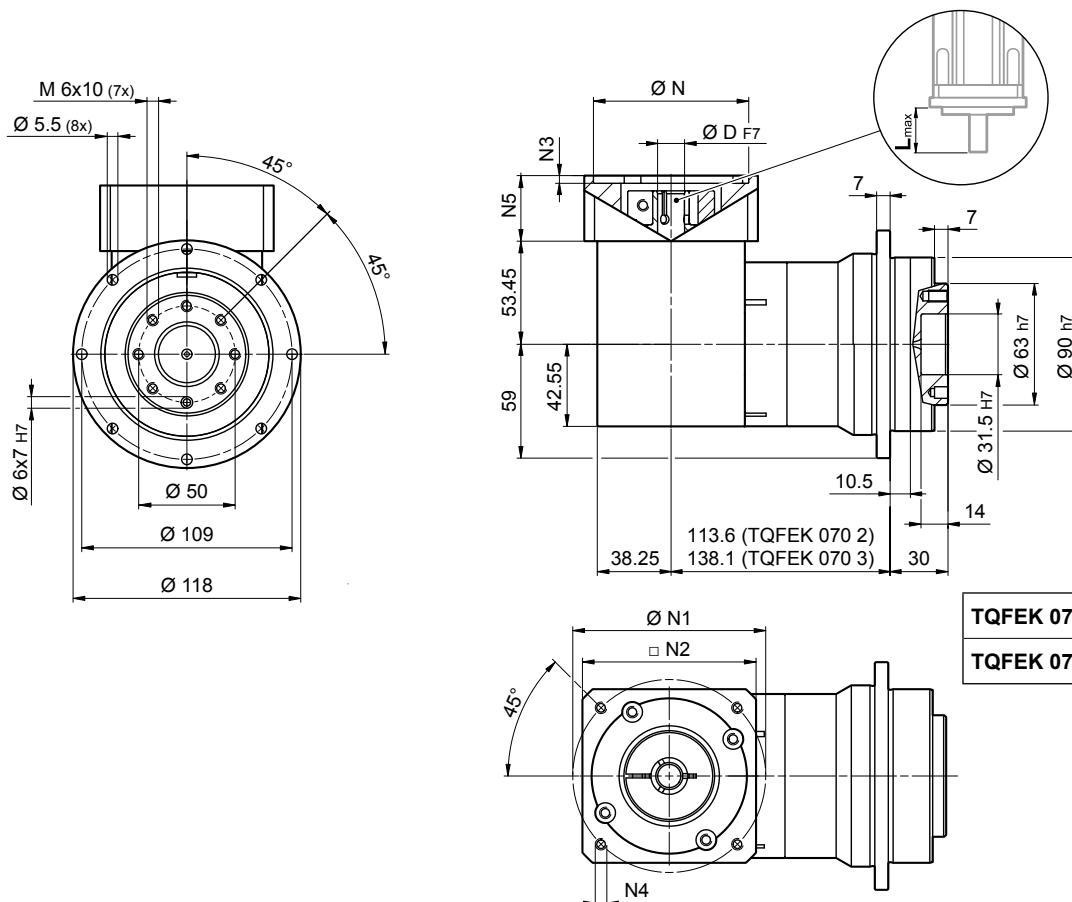
FM



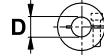
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	[Nm/arcmin]	[N]	[N]	[N]	%	6 ... 10	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	550	1100	91	0.28	0.31
TQFEK 060 3_15		29	55	70	3300	4000	14'	9'	6	200	550	1100	91	0.27	0.30
TQFEK 060 3_16		30	45	70	3500	5000	14'	9'	6	200	550	1100	91	0.25	0.27
TQFEK 060 3_20		30	45	70	3500	5000	14'	9'	6	200	550	1100	91	0.25	0.27
TQFEK 060 3_25		30	45	70	3500	5000	14'	9'	6	200	550	1100	91	0.25	0.27
TQFEK 060 3_28		30	45	70	4000	6000	14'	9'	6	200	550	1100	91	0.24	0.26
TQFEK 060 3_30		29	55	60	4000	6000	14'	9'	6	200	550	1100	91	0.23	0.25
TQFEK 060 3_35		30	45	70	4000	6000	14'	9'	6	200	550	1100	91	0.23	0.25
TQFEK 060 3_40		30	45	70	4000	6000	14'	9'	6	200	550	1100	91	0.23	0.25
TQFEK 060 3_50		30	45	70	4000	6000	14'	9'	6	200	550	1100	91	0.20	0.22
TQFEK 060 3_70		30	45	70	4000	6000	14'	9'	6	200	550	1100	91	0.20	0.22
TQFEK 060 3_100		18	30	60	4000	6000	14'	9'	6	200	550	1100	91	0.20	0.22

TQFEK 070



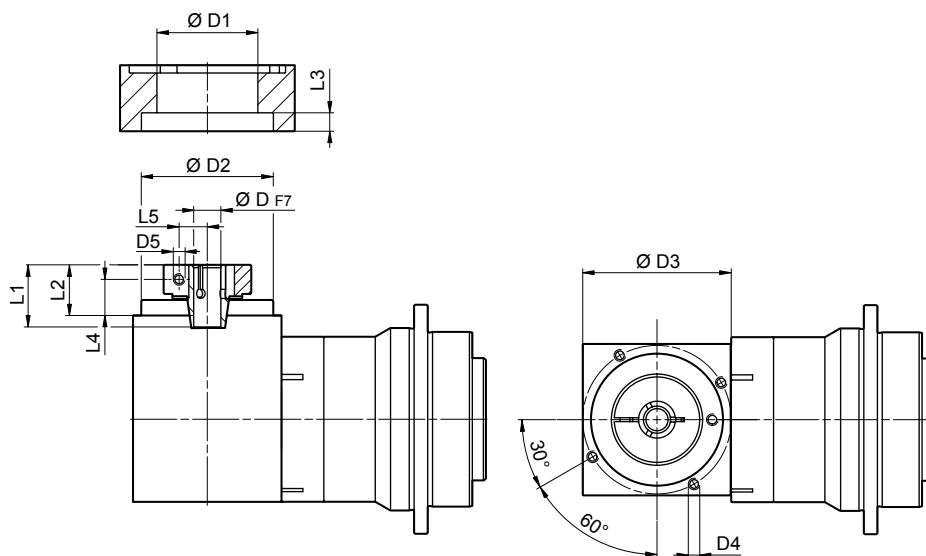
TQFEK 070 2	4.2
TQFEK 070 3	5.1

													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

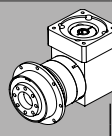
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

TQFEK 070

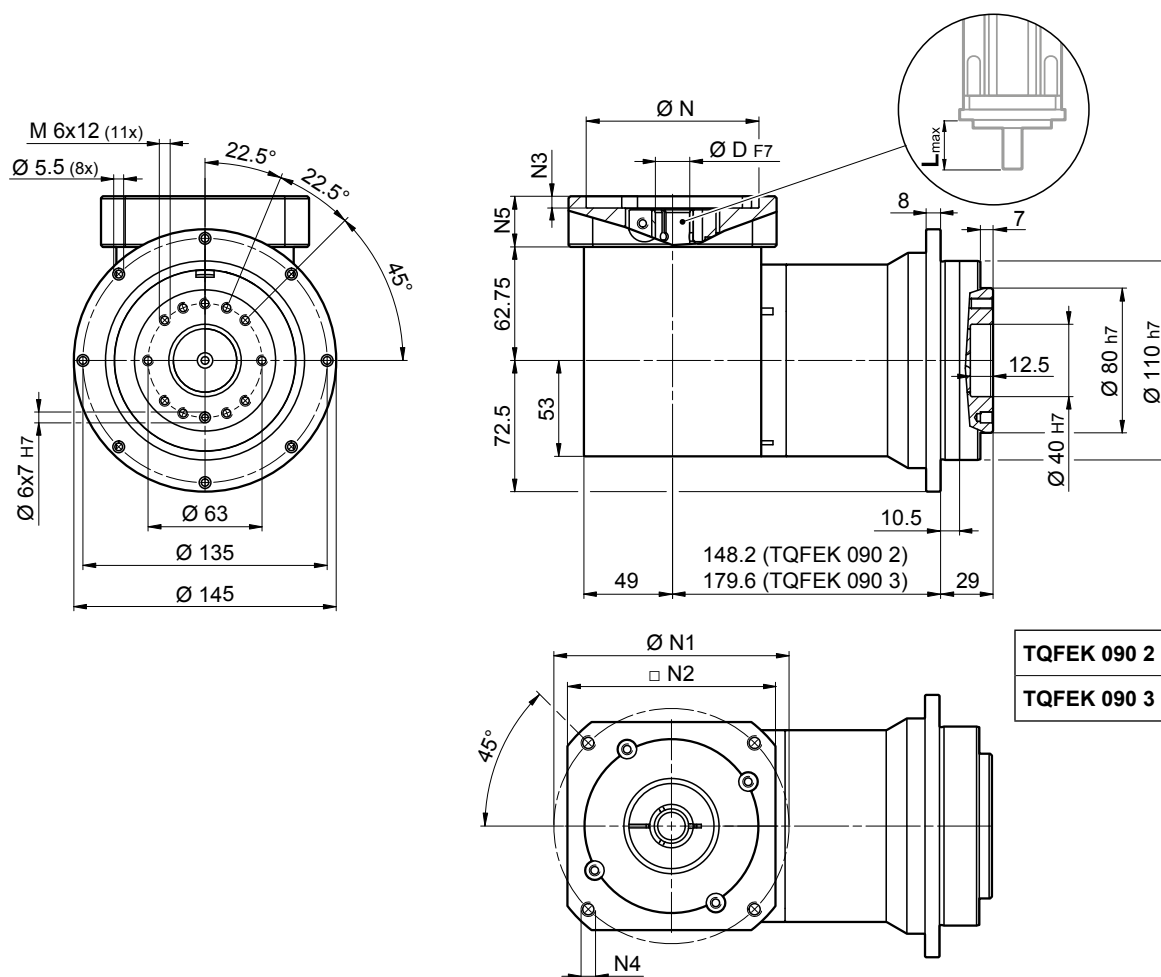
FM



				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}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	[N]	%	8 ... 12.7	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



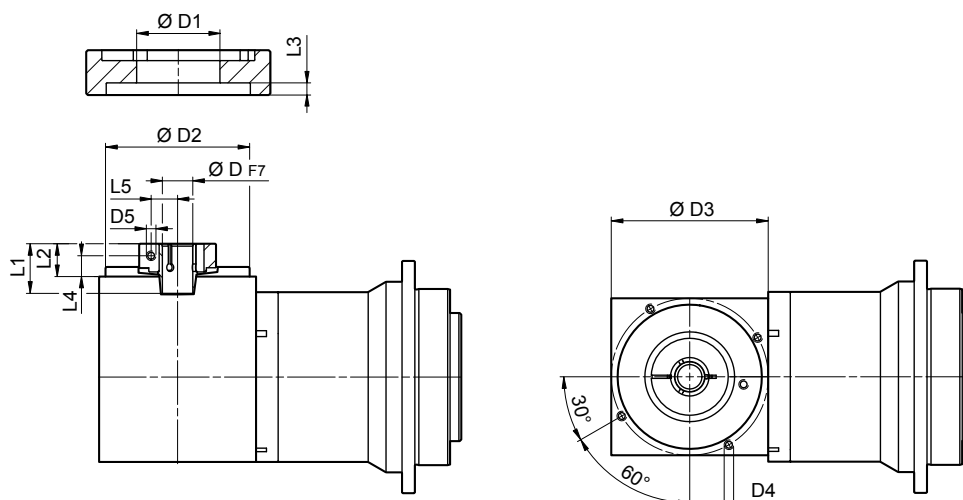
TQFEK 090 2	8.5
TQFEK 090 3	9.5

													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

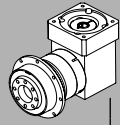
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

TQFEK 090

FM



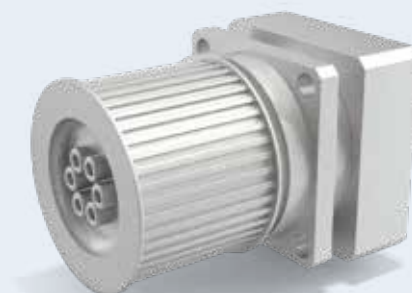
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	33.5	20	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	33.5	20	7.6	12.5	14.5
19				51	90	98	M6x15	M6	33.5	20	7.6	12.5	16.5
22	24			56.5	90	98	M6x15	M6	36.5	23	7.6	14	19
28				70	90	98	M6x15	M8	36.5	23	7.6	14	22.5
32				71	90	98	M6x15	M8	38	24.5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

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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

RIDUTTORI EPICICLOIDALI DI PRECISIONE IN LINEA

Serie SL

La serie SL rappresenta la base ideale per la realizzazione di sistemi di trasmissione a cinghia dentata estremamente compatti. È la soluzione più indicata per servoazionamenti a cinghia, nastri trasportatori di precisione e tutte le applicazioni che richiedono accuratezza, design ultra-compatto e elevata capacità di carico radiale. Ovunque il carico radiale costituisca il primo limite nella scelta del riduttore, la serie SL è la scelta ideale.



VANTAGGI PRINCIPALI

- Ottimizzata per sistemi di trasmissione con puleggia con cinghia dentata, grazie al design mirato e alla possibilità di integrare pulegge (opzionale)
- Design estremamente compatto
- Ottima precisione di posizionamento

OPZIONI PRINCIPALI

Versioni ingresso



Lubrificazione



Versioni alberi lenti



Versione ad alta potenza (opzione P)



DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto [arcmin]	Standard		
070	30	3-100	6	12	6,5	54
090	65	3-100	6	12	12	105
120	155	3-100	6	12	45	238

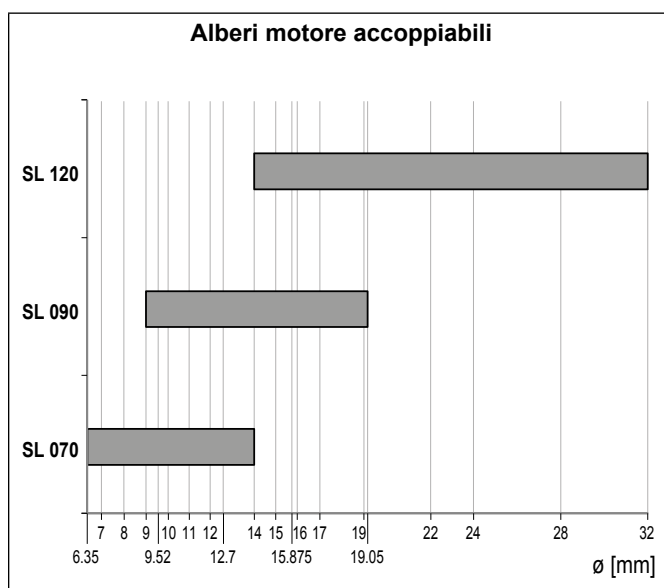
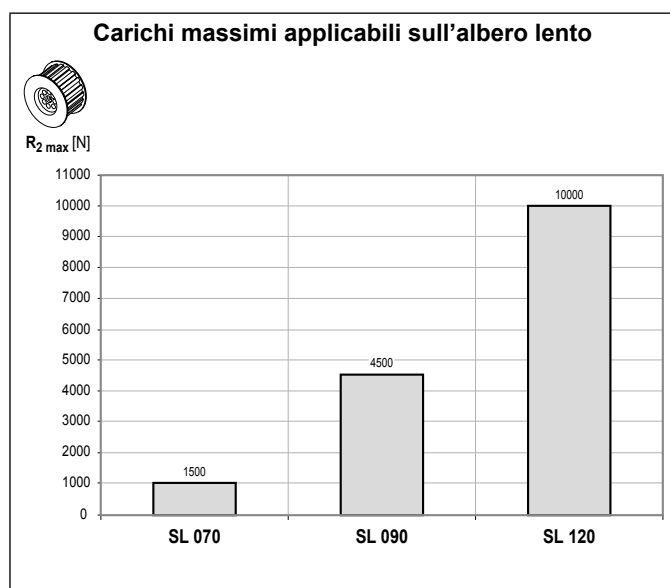
1) Valore migliore disponibile per ciascuna taglia.

9 CARATTERISTICHE DELLA SERIE SL

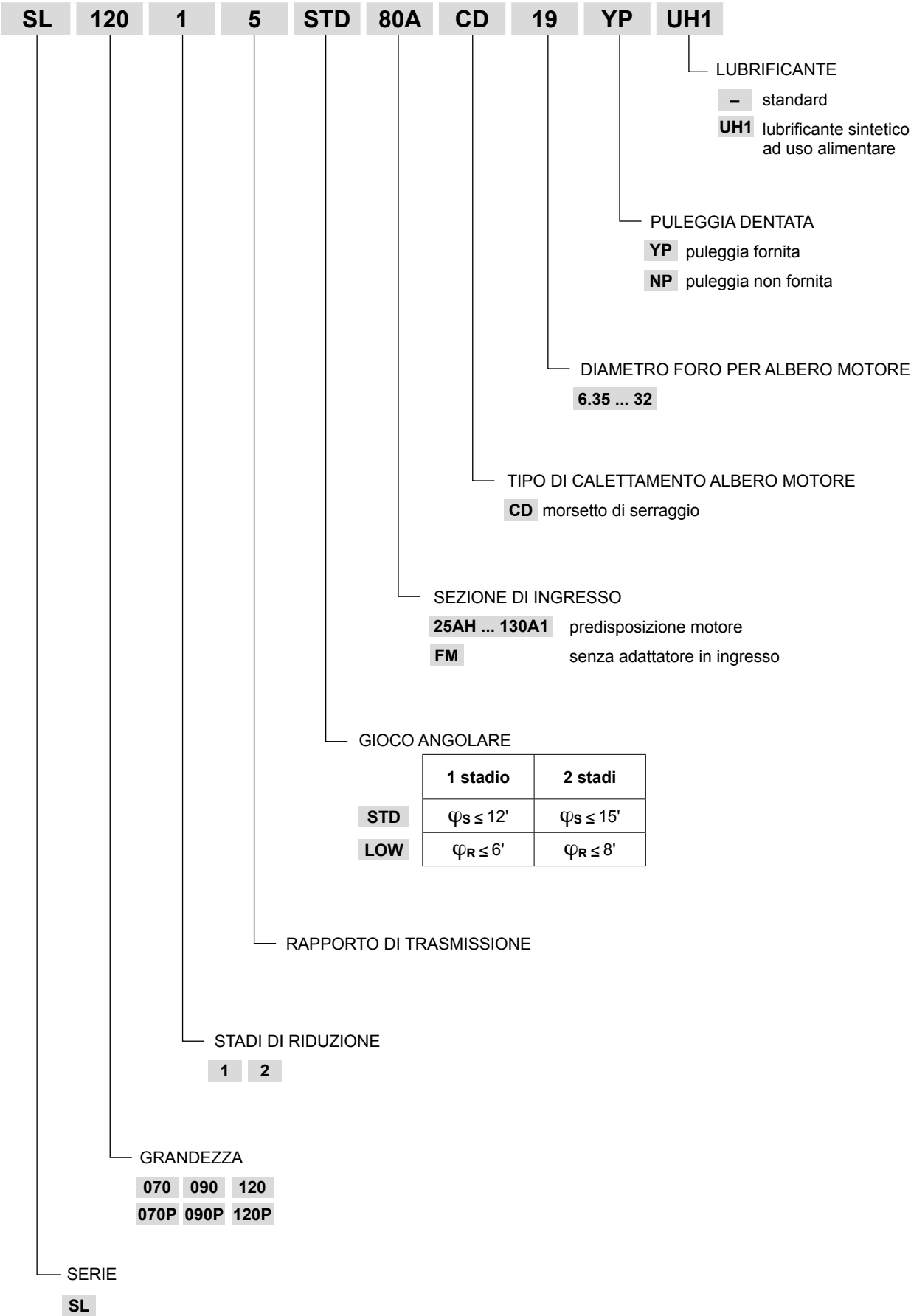
La serie SL è la soluzione più compatta, efficace ed ottimizzata per le trasmissioni con puleggia dentata. I gruppi SL a gioco ridotto si offrono quindi come ideale complemento dei servo-azionamenti di nastri trasportatori, o di altre applicazioni che coniugano la precisione con la massima compattezza 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 $n_1=3000 \text{ min}^{-1}$; $i=10$.
- 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 $+30^\circ\text{C}$. Per temperature superiori a 30°C deve essere considerato il fattore temico f_T .
- La temperatura sulla cassa non deve superare $T_{\text{max}} = 90^\circ\text{C}$.
- 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	28	28	29	20	29	29	30	30	30	30	29	30	30	30	30	20
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

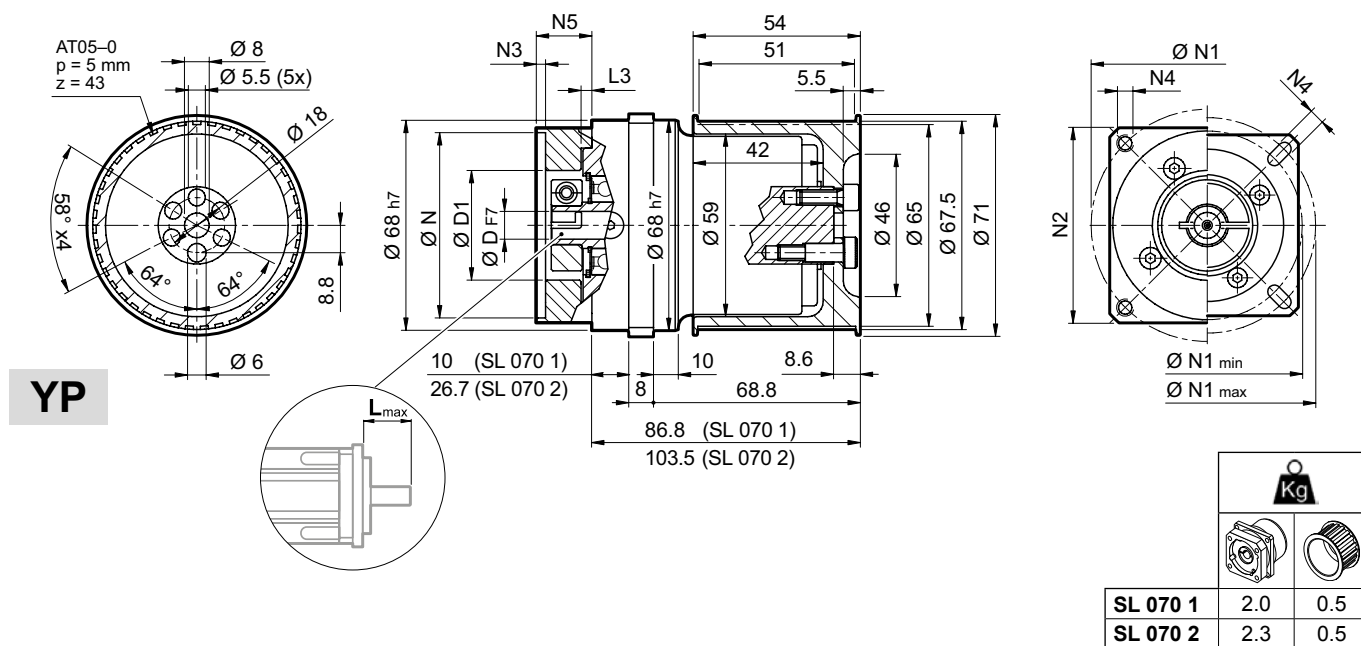


9.1 CODICE ORDINATIVO



9.2 DIMENSIONI E DATI TECNICI

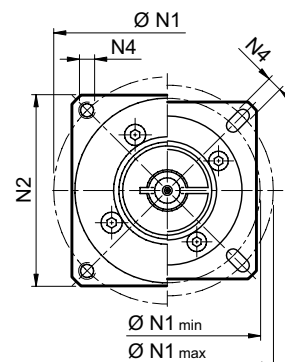
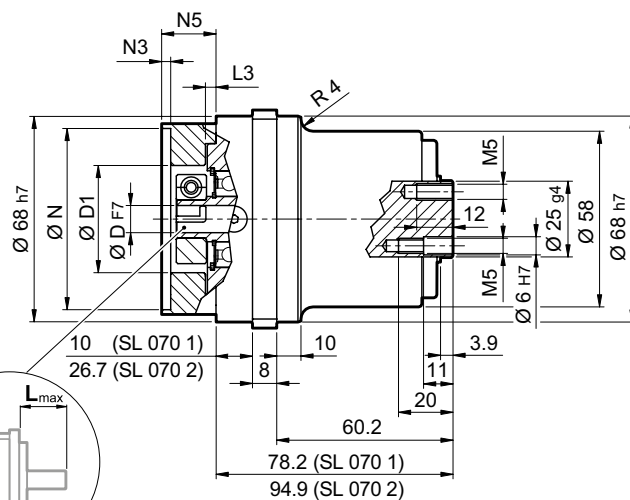
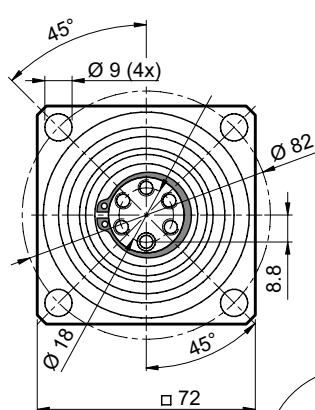
SL 070



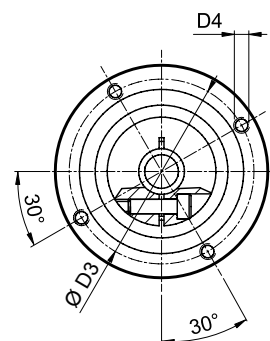
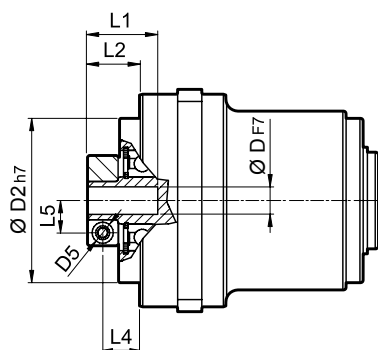
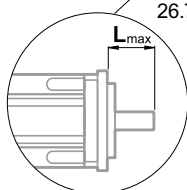
											N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH	6.35	7	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.

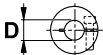
SL 070



NP



FM

				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

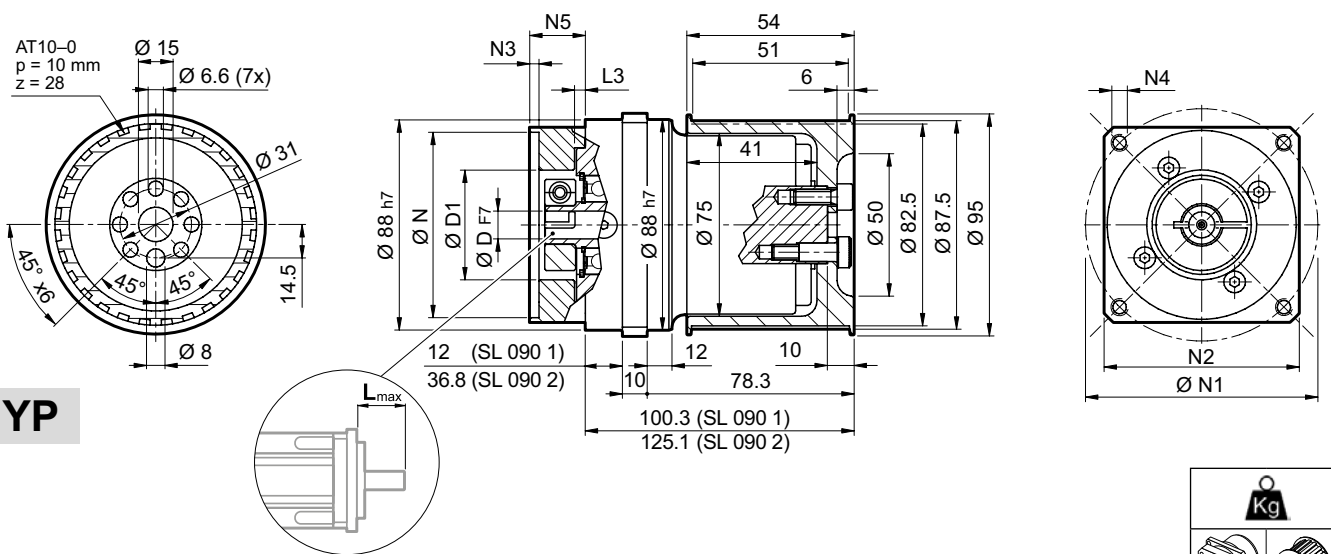
TS

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	R _{2 max} *	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[$\frac{Nm}{arcmin}$]	[N]	[N]	%	6 ... 9.52	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



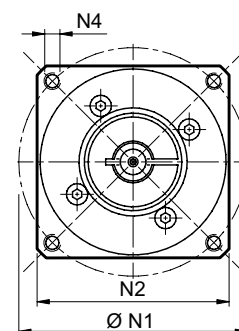
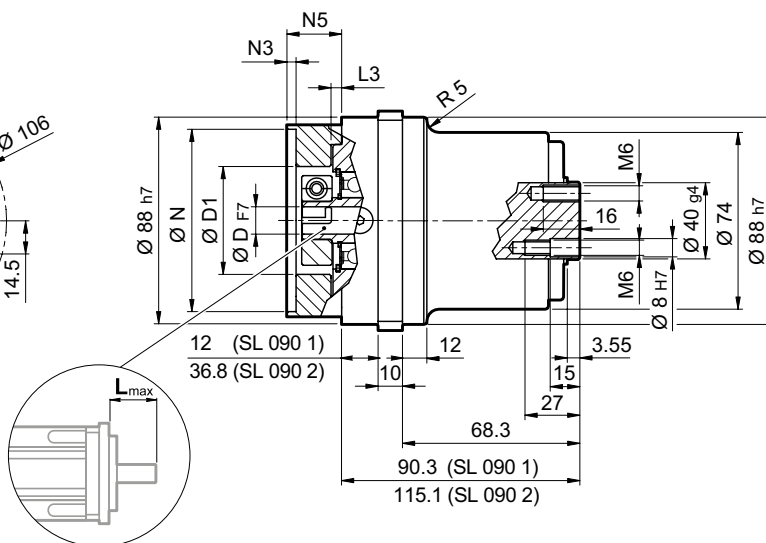
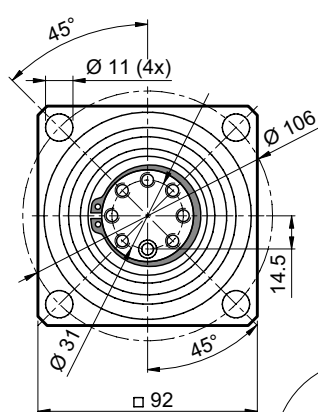
YP

	Kg	
		
SL 090 1	3.6	0.8
SL 090 2	4.7	0.8

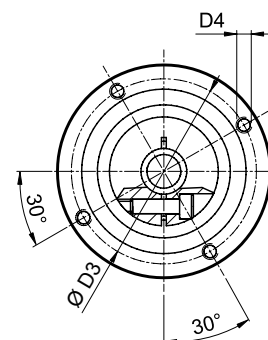
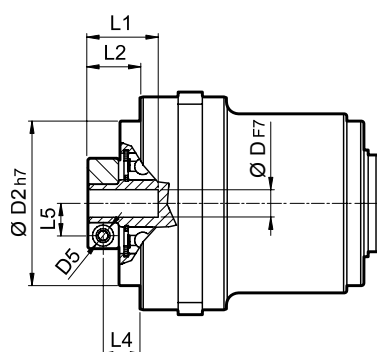
	D											N	N1	N2	N3	N4	N5	L _{max}
																		
40B1	9	9.52	11	12	12.7	14	—	—	—	—	—	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	—	—	—	—	—	—	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	5.5	34	40
50C1	9	9.52	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

					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

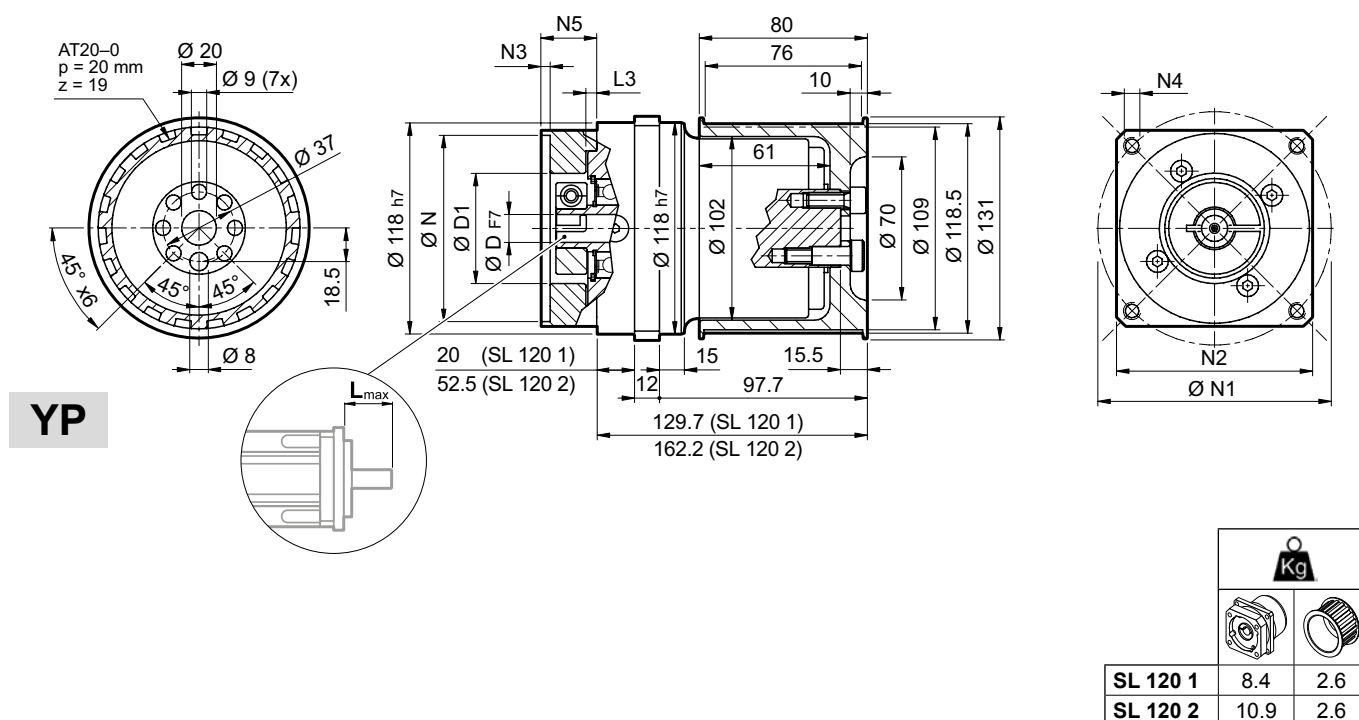
TS

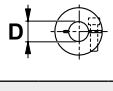
	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max} *	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[Nm / arcmin]	[N]	[N]	[N]	%	9 ... 12.7	14 ... 19		
SL 090 1_3		37	70	150	2900	3500	12'	6'	12	4500	2000	97	0.72	0.81	10.95	
SL 090 1_4		43	80	160	3100	4500	12'	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



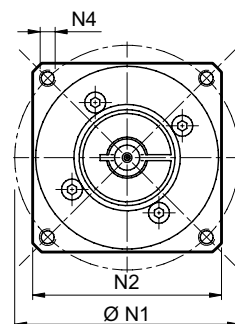
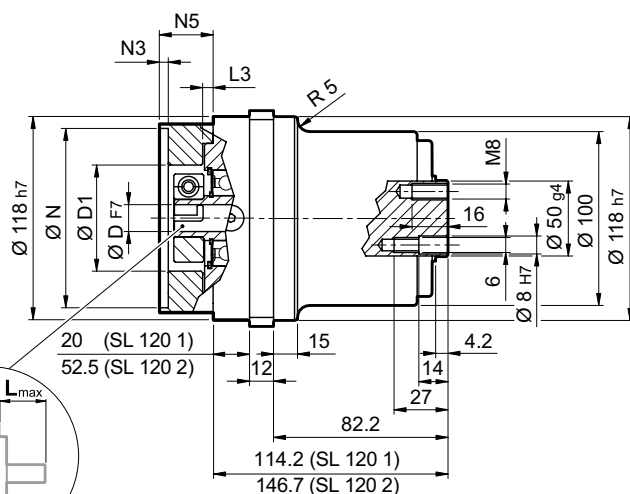
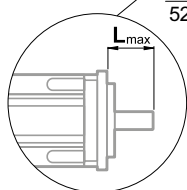
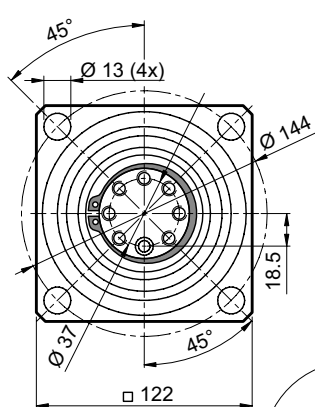
SL 120



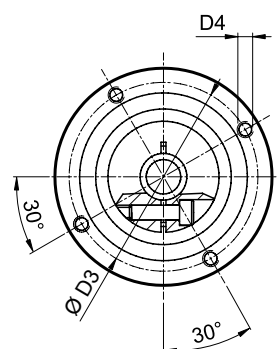
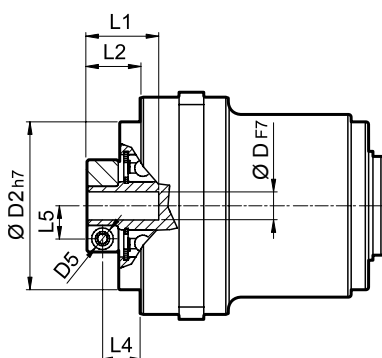
											N	N1	N2	N3	N4	N5	L _{max}
50D	14	15	15.875	16	19	-	-	-	-	-	50	95	100	5	M6x14	28	40
55A	14	15	15.875	16	19	-	-	-	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	14	15	15.875	16	19	-	-	-	-	-	60	75	100	5	M5x14	28	40
60AH2	14	15	15.875	16	19	-	-	-	-	-	60	75	100	5	6.5	33	40
60B1	14	15	15.875	16	19	-	-	-	-	-	60	85	100	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

				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

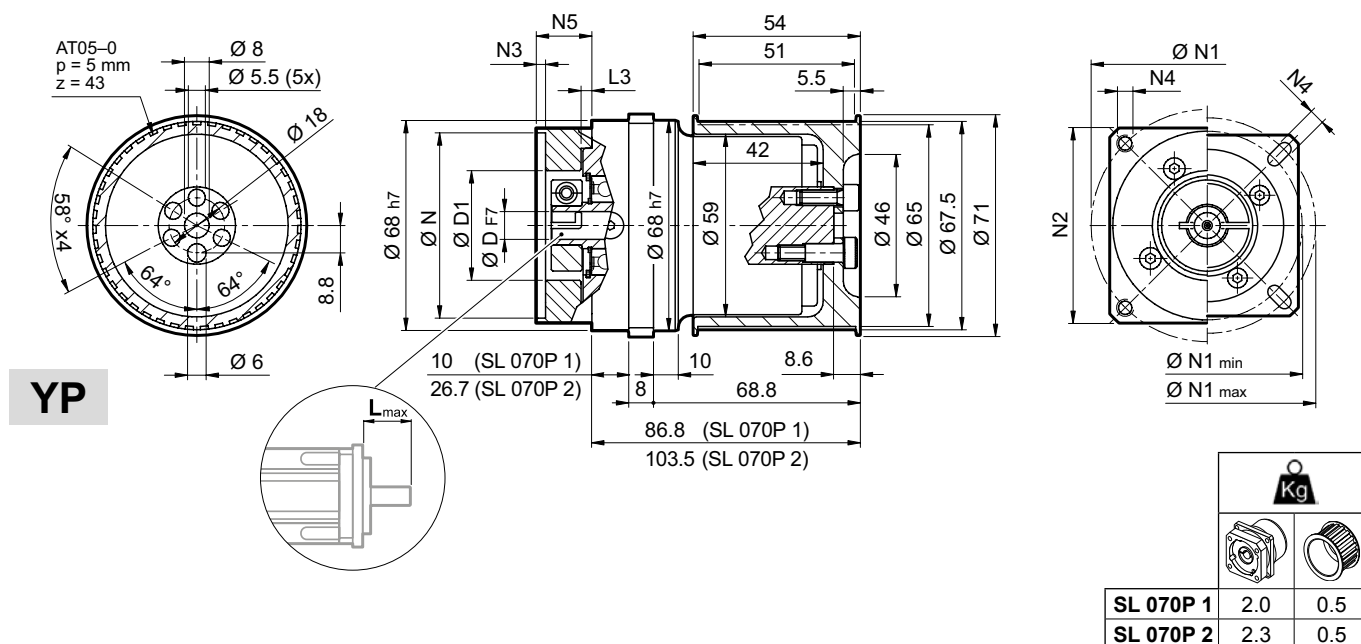
TS

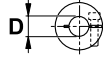
	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max} *	A _{2 max}	η	J _G [kgcm ²]				
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[Nm / arcmin]	[N]	[N]	%	%	14 ... 19	22 ; 24	28 ; 32		
SL 120 1_3		95	160	300	2500	3500	12'	6'	45	10000	4500	97	2.18	2.81	3.25	50.62	
SL 120 1_4		110	190	360	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



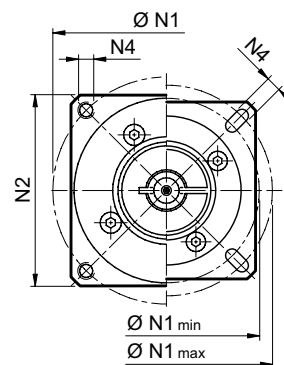
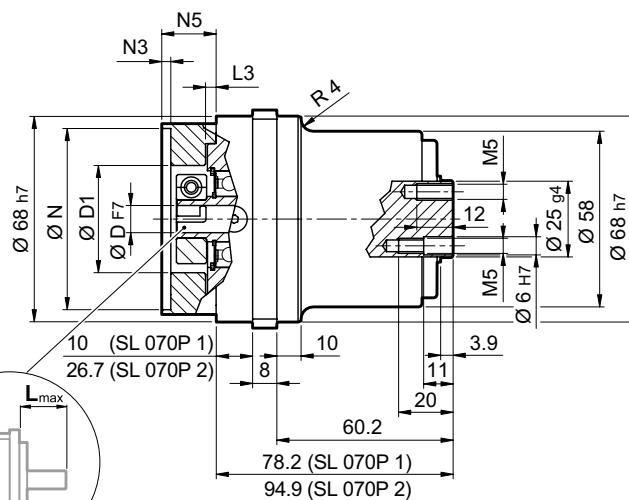
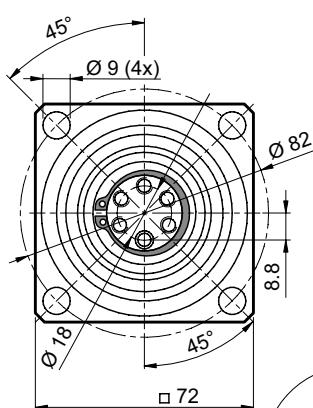
SL 070P



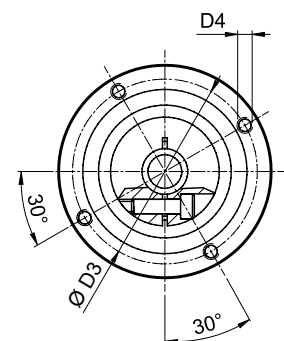
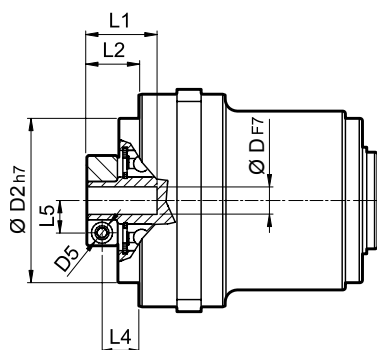
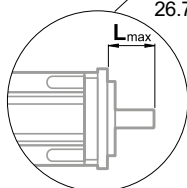
											N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH	6.35	7	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.

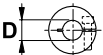
SL 070P



NP



FM

				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

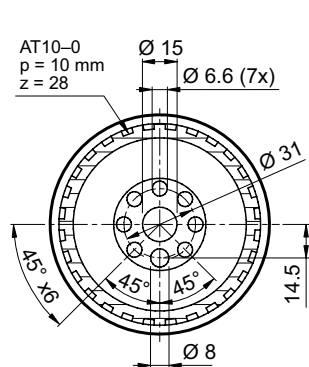
TS

	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	R _{2 max} *	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	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		28	40	70	3500	5000	12'	6'	6.5	3500	1600	97	0.07	0.09	
SL 070P 1_7		28	40	70	4000	5000	12'	6'	6.5	3500	1600	97	0.05	0.07	
SL 070P 1_10		20	33	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		20	33	60	4000	6000	15'	8'	6	3500	1600	94	0.04	0.06	

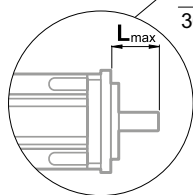
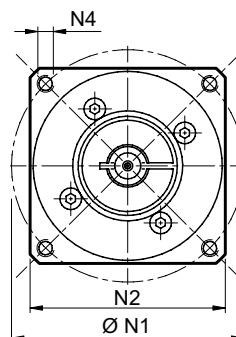
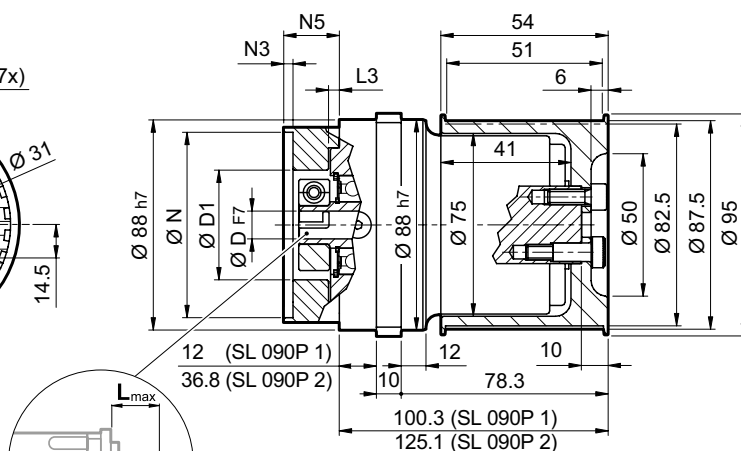
* Applicabile nell'uso con puleggia dentata



SL 090P



YP



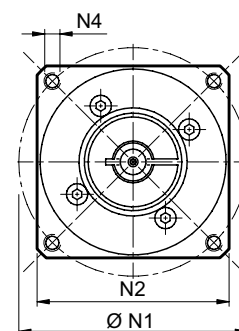
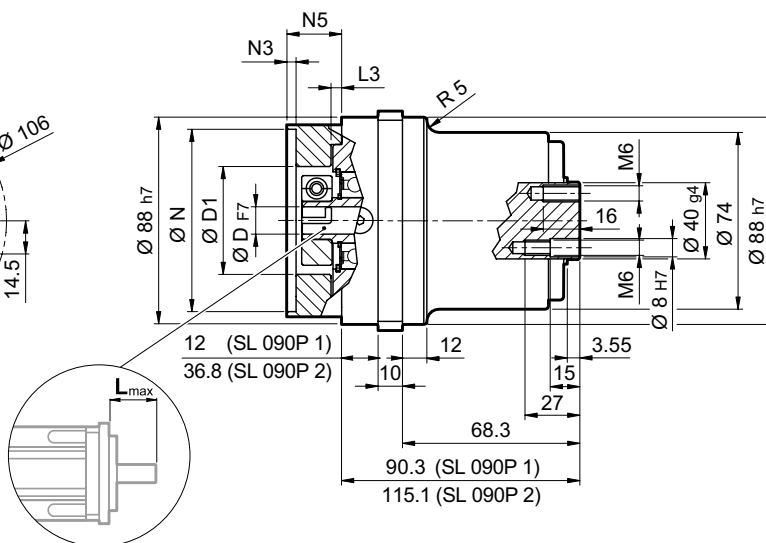
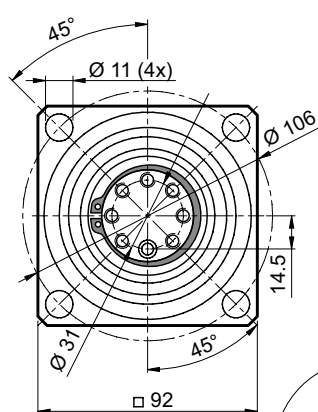
	Kg	
SL 090P 1	3.6	0.8
SL 090P 2	4.7	0.8

SL 090P 1	3.6	0.8
SL 090P 2	4.7	0.8

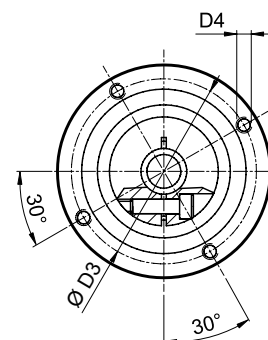
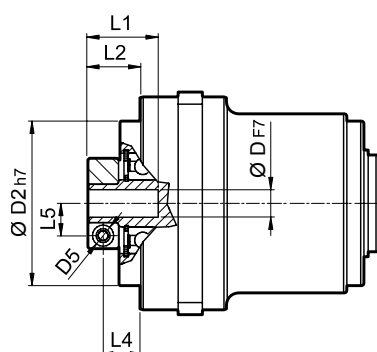
	D											N	N1	N2	N3	N4	N5	L _{max}
40B1	9	9.52	11	12	12.7	14	—	—	—	—	—	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	—	—	—	—	—	—	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	5.5	34	40
50C1	9	9.52	11	12	12.7	14	—	—	—	—	—	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

					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

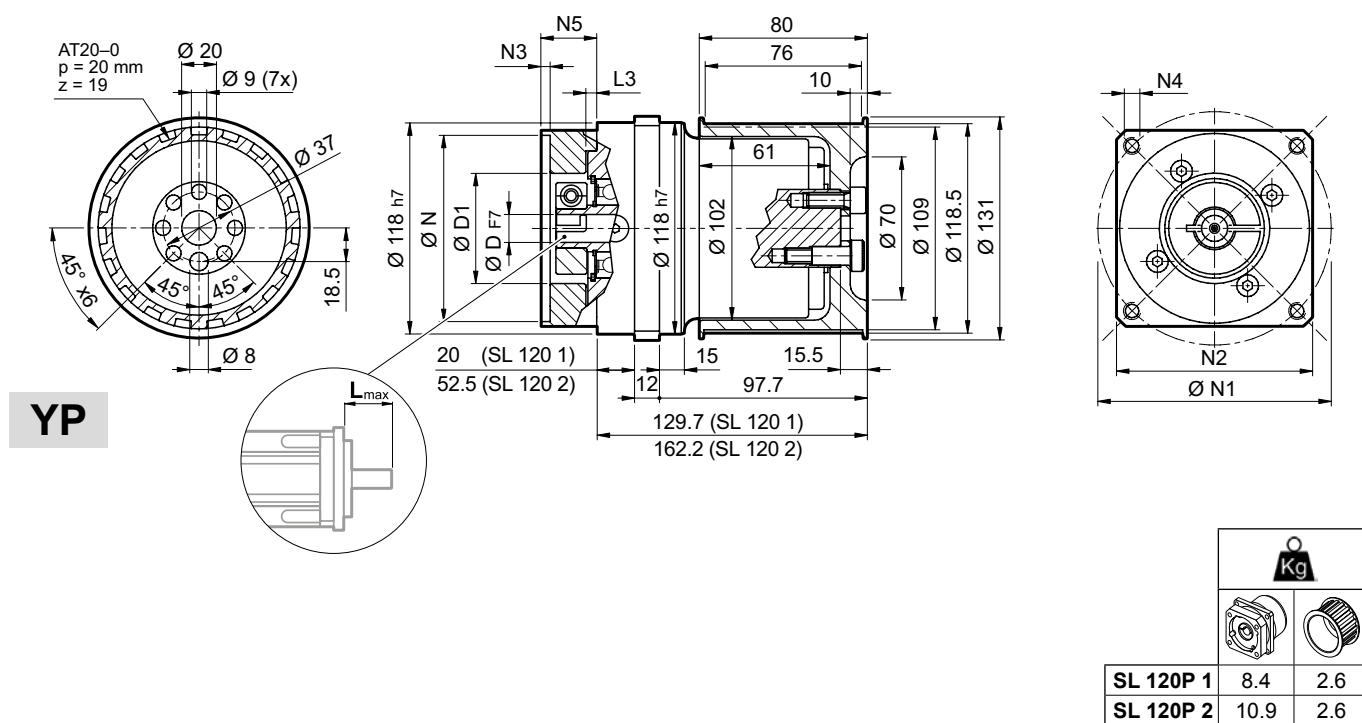
TS

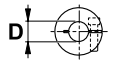
	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max} *	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[Nm/arcmin]	[N]	[N]	[N]	%	9 ... 12.7	14 ... 19	
SL 090P 1_3		65	120	150	3500	4000	12'	6'	12	4500	2000	97	0.72	0.81	10.95
SL 090P 1_4		60	110	160	3500	4000	12'	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	75	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	75	150	4000	6000	15'	8'	11.5	4500	2000	94	0.19	0.34	

* Applicabile nell'uso con puleggia dentata



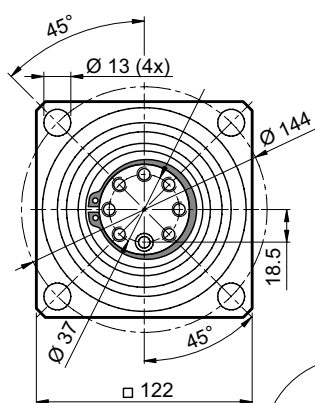
SL 120P



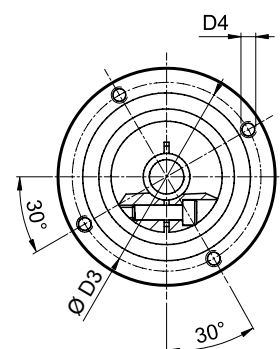
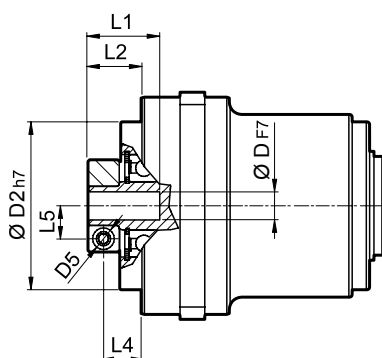
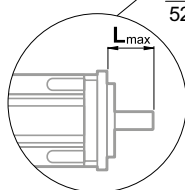
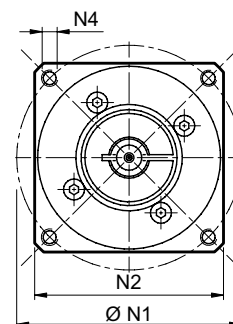
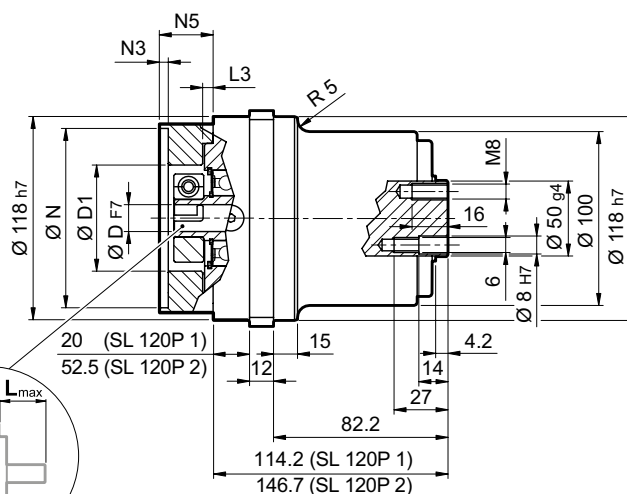
										N	N1	N2	N3	N4	N5	L _{max}
50D	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	14	15	15.875	16	19	-	-	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	M5x14	28	40
60AH2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	6.5	33	40
60B1	14	15	15.875	16	19	-	-	-	-	60	85	100	6.5	M5x14	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.

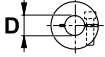
SL 120P



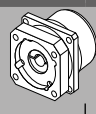
NP



FM

				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

TS

	i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _S [arcmin]	φ _R [arcmin]	C _t [Nm arcmin]	R _{2 max} * [N]	A _{2 max} [N]	η %	J _G [kgcm ²] 			
													14 ... 19	22 ; 24	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	165	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	165	300	3500	5000	15'	8'	40	10000	4500	94	0.42	1.02	1.38	

* Applicabile nell'uso con puleggia dentata



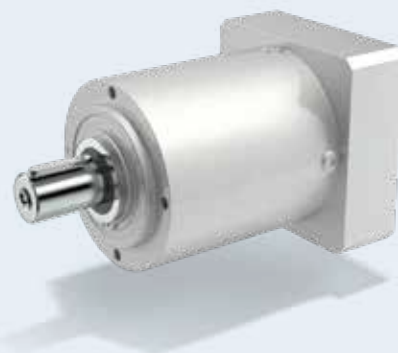
RIDUTTORI EPICICLOIDALI DI PRECISIONE IN LINEA

(E)

Serie LC

I riduttori epicicloidali di precisione LC rappresentano una soluzione flessibile e una valida alternativa con livelli ottimali di prestazioni e affidabilità.

Il design lato uscita conforme agli standard di mercato garantisce un'elevata compatibilità per retrofit agevoli e un'ampia libertà nello sviluppo dei progetti.



VANTAGGI PRINCIPALI

- Soluzione economica ma efficiente
- Elevata affidabilità
- Elevata compatibilità per retrofit più semplici

OPZIONI PRINCIPALI

Versioni ingresso



Lubrificazione



Versioni alberi lenti



Versione ad alta potenza (opzione P)



VERSIONE
AD ALTA
POTENZA

DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto [arcmin]	Standard		
050	12	3-100	6	12	0,9	15
070	30	3-100	6	12	3	54
090	65	3-100	6	12	12	105
120	155	3-100	6	12	30	238
155	400	3-100	6	12	50	522

1) Valore migliore disponibile per ciascuna taglia.

10 CARATTERISTICHE DELLA SERIE LC

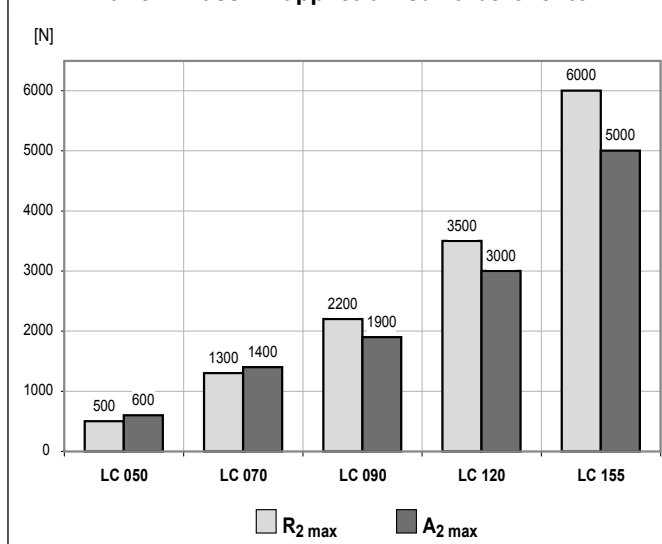
I riduttori epicicloidali a gioco ridotto della serie LC costituiscono una gamma di trasmissioni assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio 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.

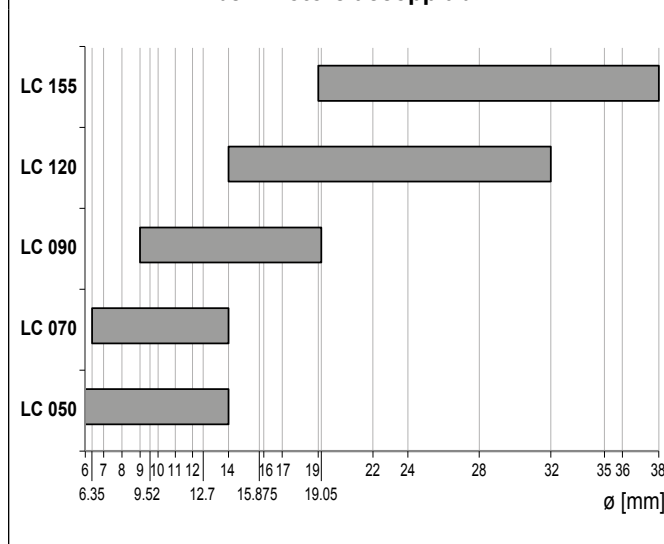
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW)
1 stadio di riduzione: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 6'$
1 stadio di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 8'$
- Protezione contro la penetrazione di polvere o liquidi dall'esterno (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 $n_1=3000 \text{ min}^{-1}$; $i=10$.
- 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 $+30^\circ\text{C}$. Per temperature superiori a 30°C deve essere considerato il fattore termico f_T .
- La temperatura sulla cassa non deve superare $T_{\text{max}} = 90^\circ\text{C}$.
- 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	28	28	29	20	29	29	30	30	30	30	29	30	–	30	–	30	30	–	20
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

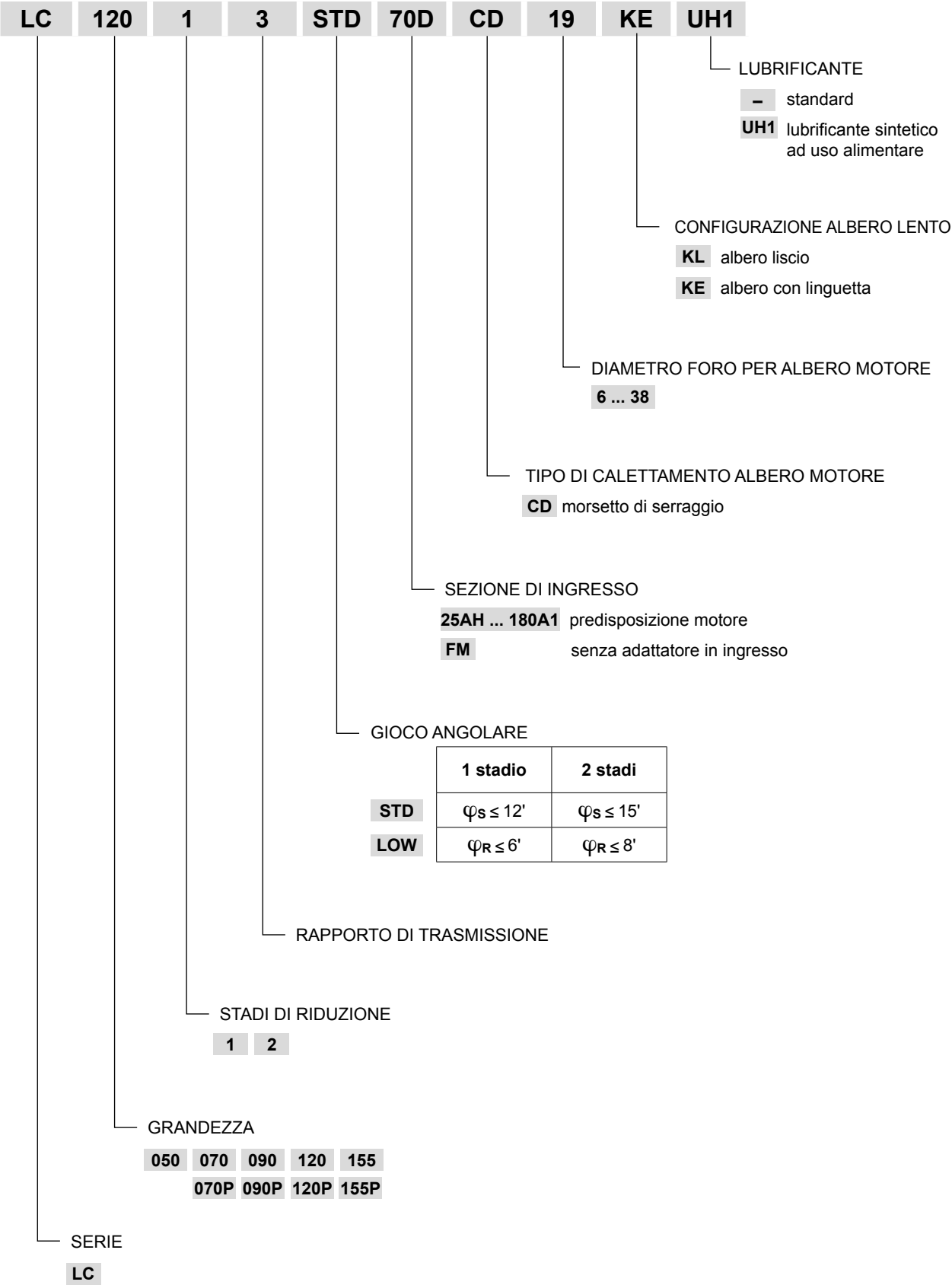
Carichi massimi applicabili sull'albero lento



Alberi motore accoppiabili



10.1 CODICE ORDINATIVO

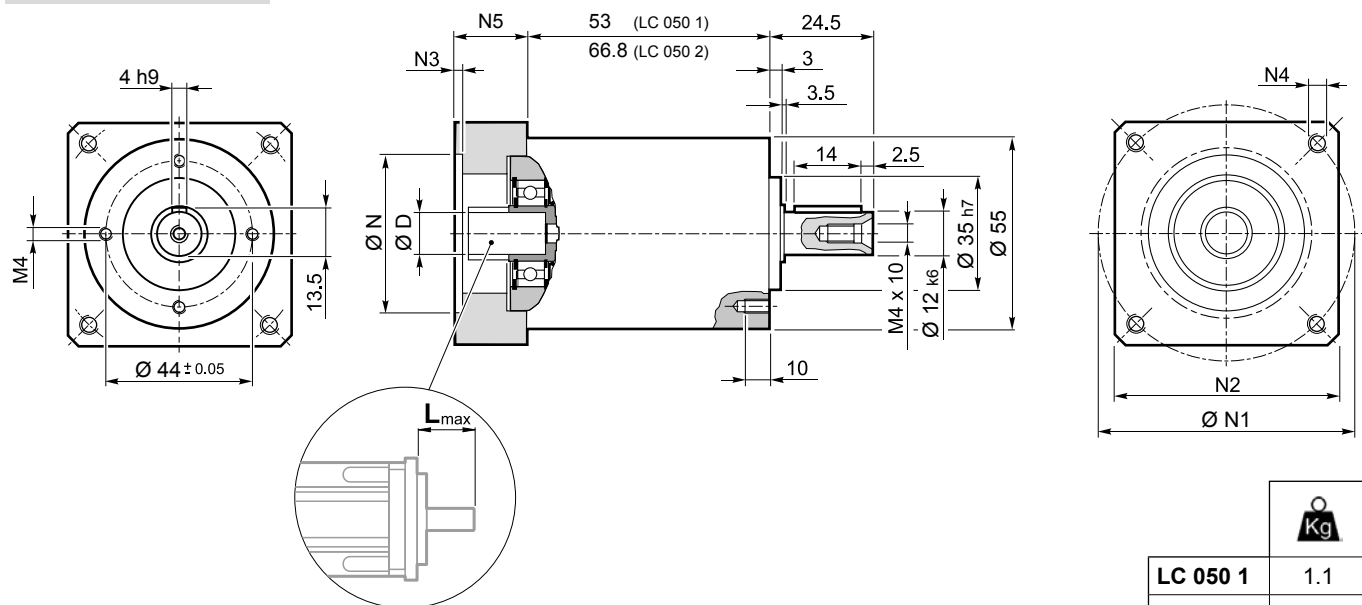


17

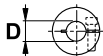


LC 050

25AH ... 80A



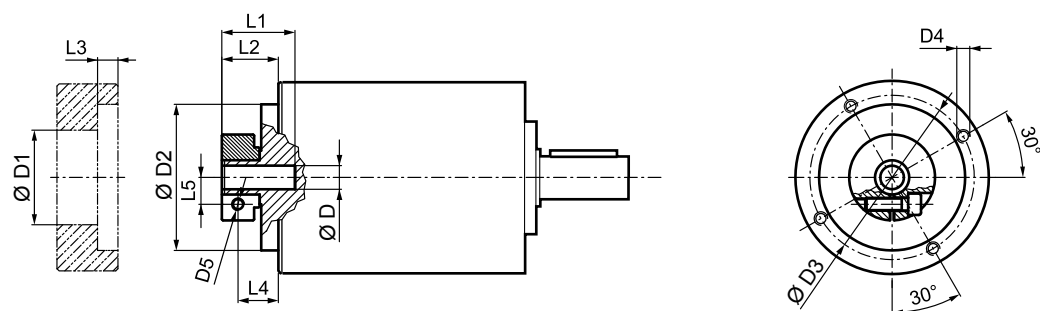
LC 050 1	1.1
LC 050 2	1.3

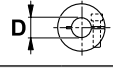
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	—	—	—	—	—	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	—	—	—	—	—	26	36	48					
28AH	6	6.35	7	8	9	9.52	—	—	—	—	—	28	36	48					
30AH	6	6.35	7	8	9	9.52	—	—	—	—	—	30	36	48					
32AH	6	6.35	7	8	9	9.52	—	—	—	—	—	32	38	48					
34AH	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

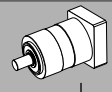
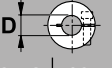
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LC 050

FM

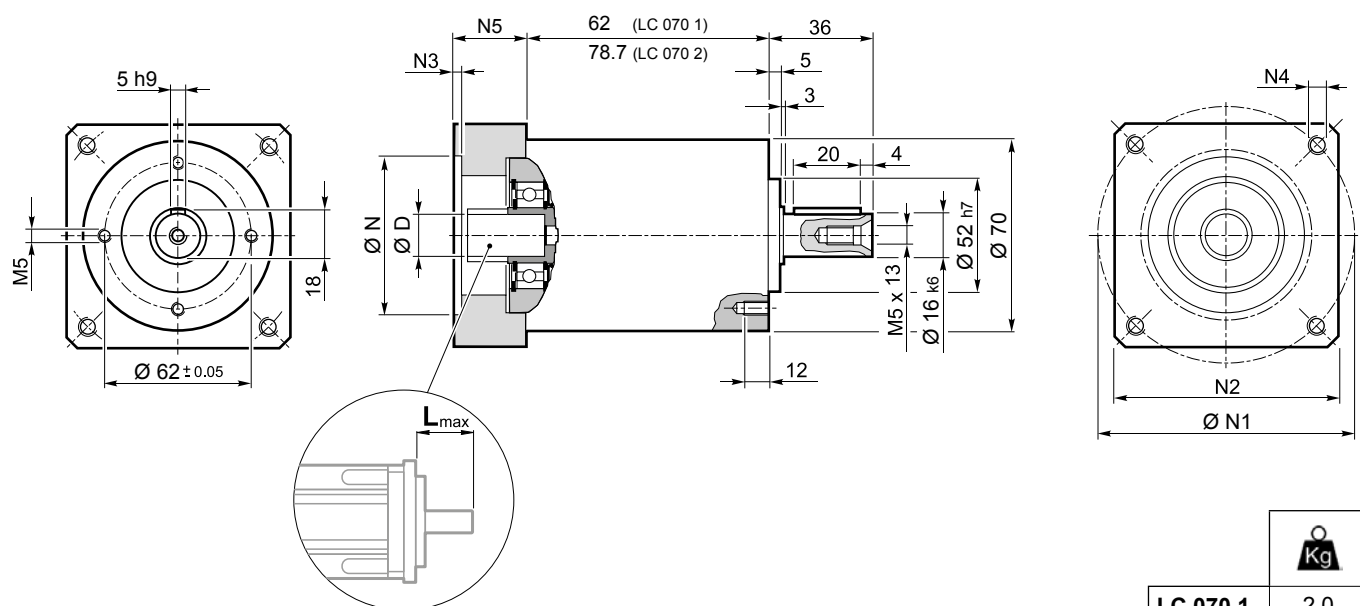


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5

 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	 J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	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



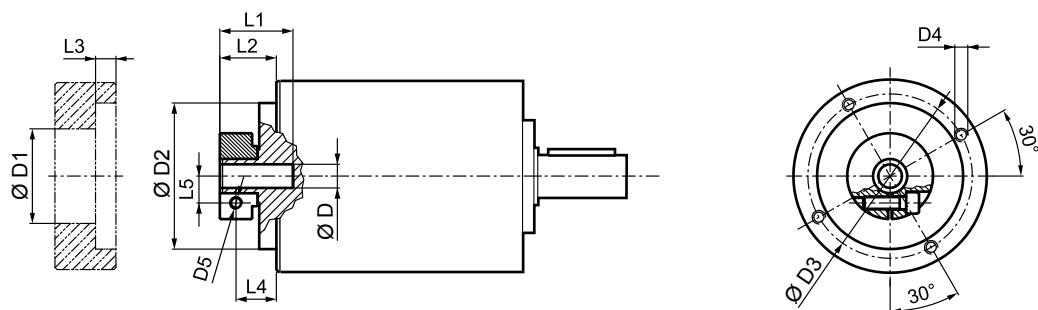
LC 070 1	2.0
LC 070 2	2.3

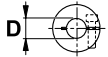
											N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH	6.35	7	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

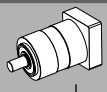
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LC 070

FM

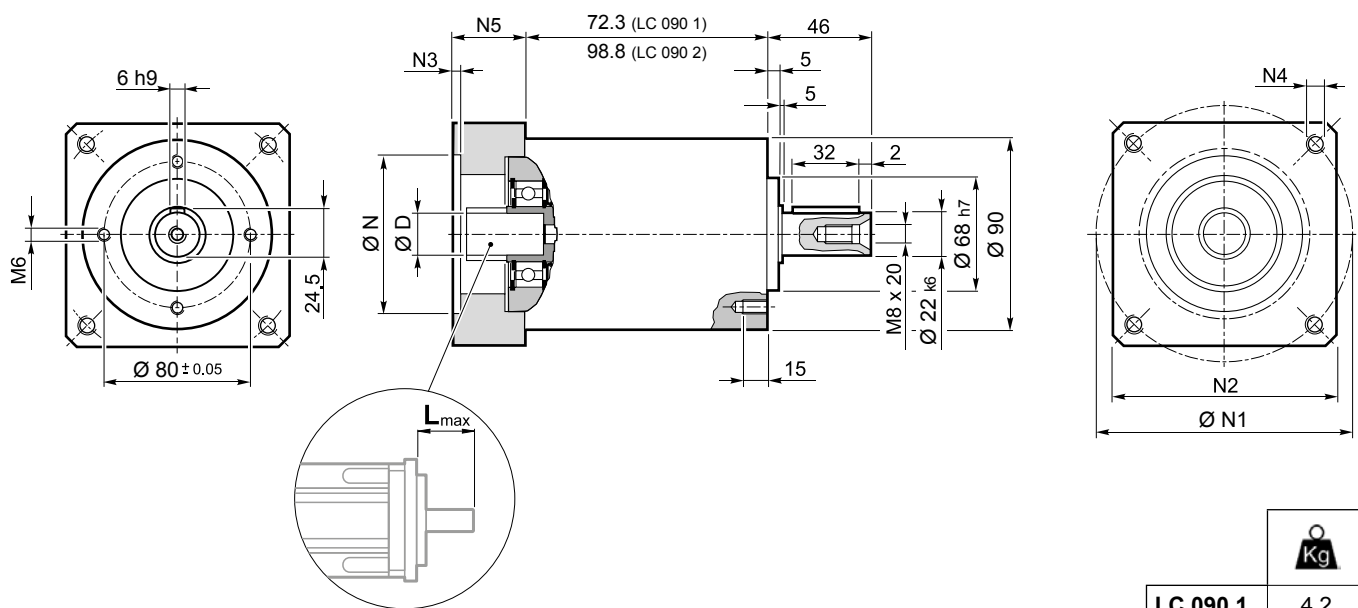


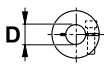
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6.35	7			32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5

 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6.35 ... 9.52	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

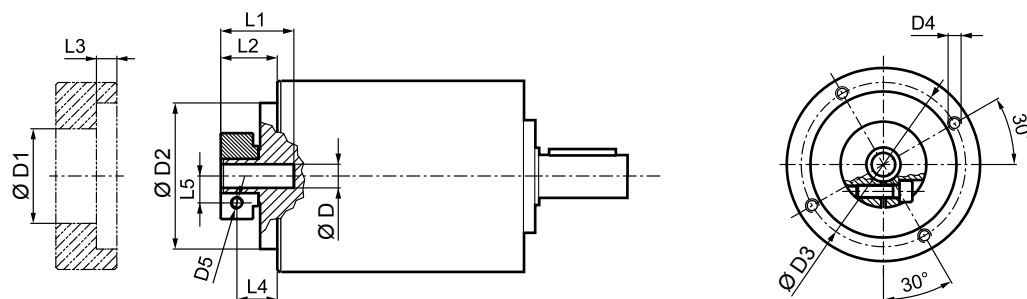


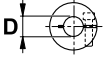
												N	N1	N2	N3	N4	N5	L _{max}
40B1	9	9.52	11	12	12.7	14	-	-	-	-	-	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	-	-	-	-	-	-	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	5.5	34	40
50C1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	70	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

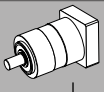
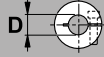
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LC 090

FM

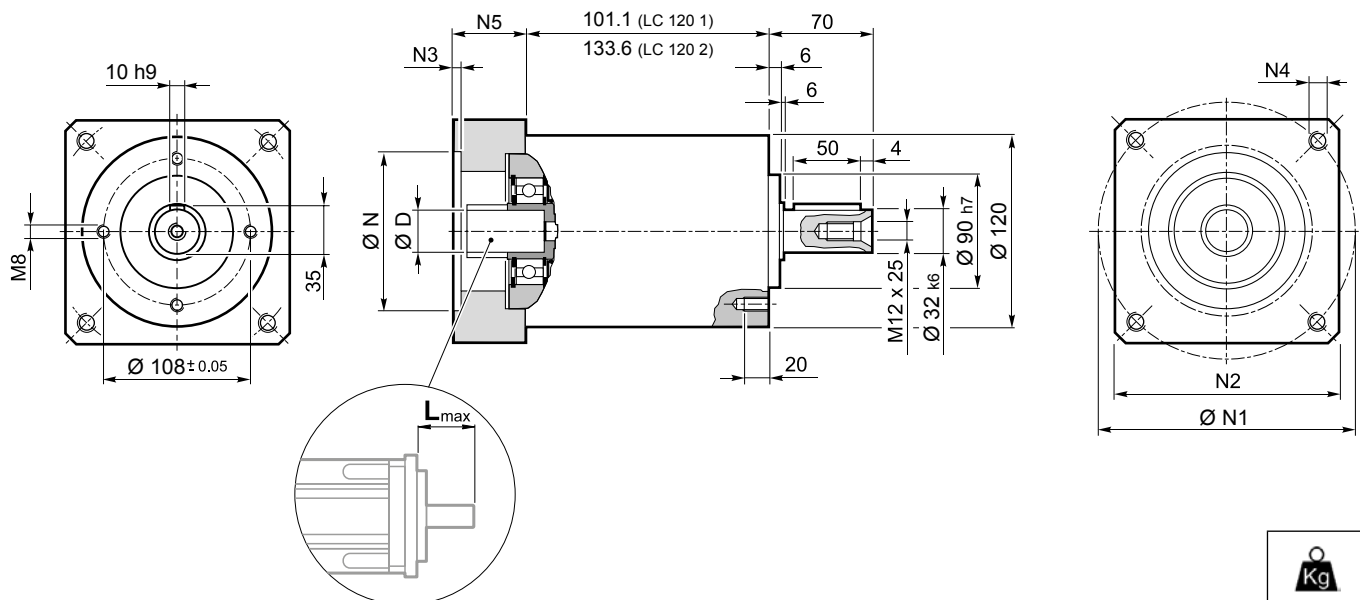


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
9	9.52			38	68	76.5	M6x10	M6	34	26.8	9.5	18.8	10.5
11	12	12.7		43	68	76.5	M6x10	M6	34	26.8	9.5	18.8	12.5
14	15.875	16	17	48	68	76.5	M6x10	M6	34	26.8	9.5	18.8	14.5
19	19.05			51	68	76.5	M6x10	M6	34	26.3	9.5	18.8	16.5

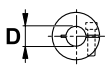
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	 9 ... 12.7	14 ... 19.05
LC 090 1_3	37	70	150	2900	3500	12'	6'	9	2200	1900	97	0.62	0.77
LC 090 1_4	43	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



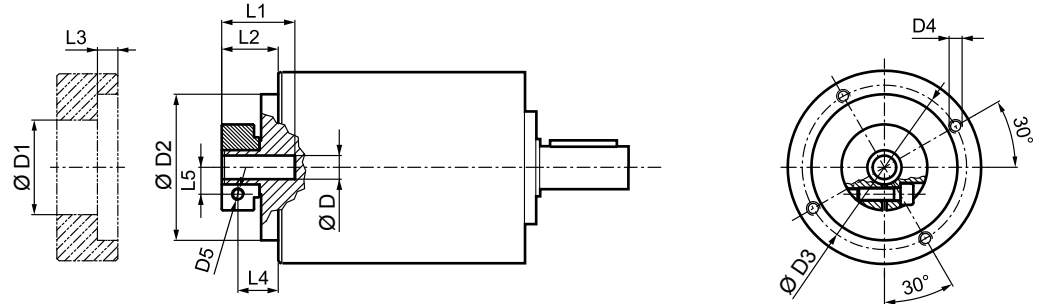
	
LC 120 1	9.6
LC 120 2	12.1

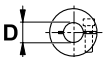
										N	N1	N2	N3	N4	N5	L _{max}
50D	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	14	15	15.875	16	19	-	-	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	M5x14	28	40
60AH2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	6.5	33	40
60B1	14	15	15.875	16	19	-	-	-	-	60	85	100	6.5	M5x14	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

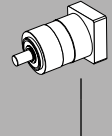
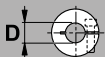
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LC 120

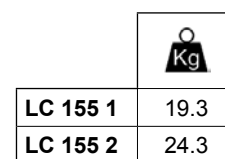
FM

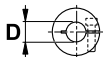


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15	15.875	16	48	90	98	M6x15	M6	33.5	20	7.6	12.5	14.5
19				51	90	98	M6x15	M6	33.5	20	7.6	12.5	16.5
22	24			56.5	90	98	M6x15	M6	36.5	23	7.6	14	19
28				67	90	98	M6x15	M8	36.5	23	7.6	14	22.5
32				71	90	98	M6x15	M8	38	24.5	7.6	15.5	24.5

 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]  D		
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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

55A1 ... 180A1



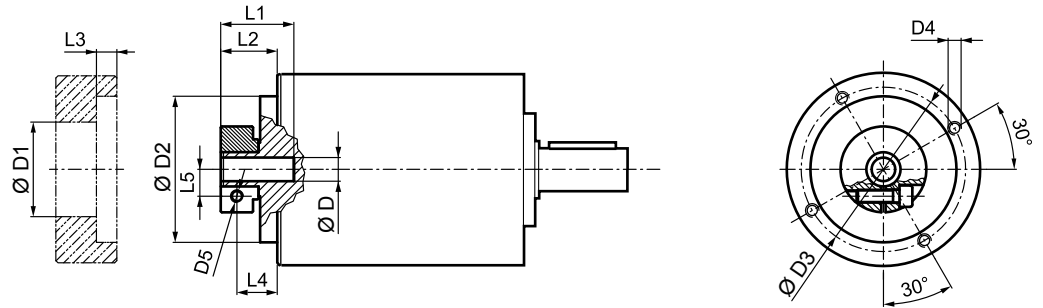
								N	N1	N2	N3	N4	N5	L _{max}
55A1	19	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	19	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	19	22	24	—	—	—	—	95	115	130	4	M8x20	39.5	50
110A1	19	22	24	—	—	—	—	110	130	130	4	M8x20	39.5	50
110B1	19	22	24	—	—	—	—	110	145	130	6.5	M8x20	49.5	60
114A	19	22	24	28	32	35	38	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

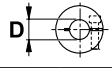
190 |

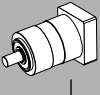
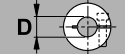


LC 155

FM

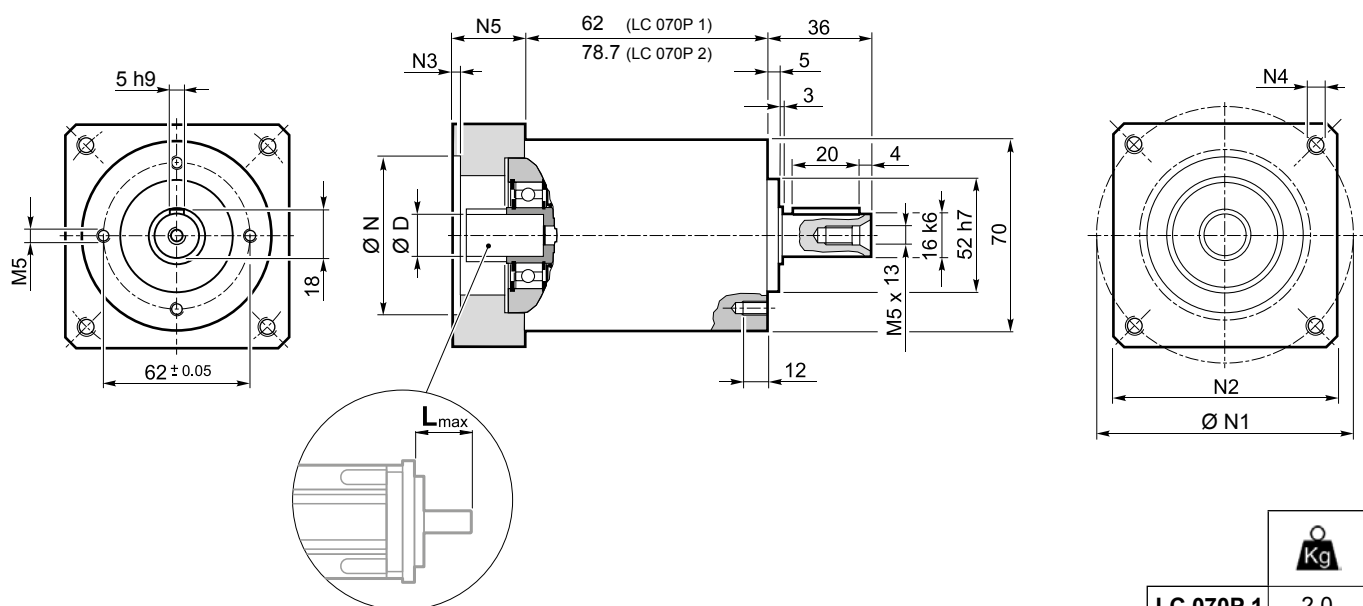


	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	18.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25	26	26
38	77.5	113	125.5	M8x15	M8	50	37.5	11.25	26	28

	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
	i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{Nm}{arcmin}\right]$	[N]	[N]	%				
		19	22 ; 24	28 ; 32	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



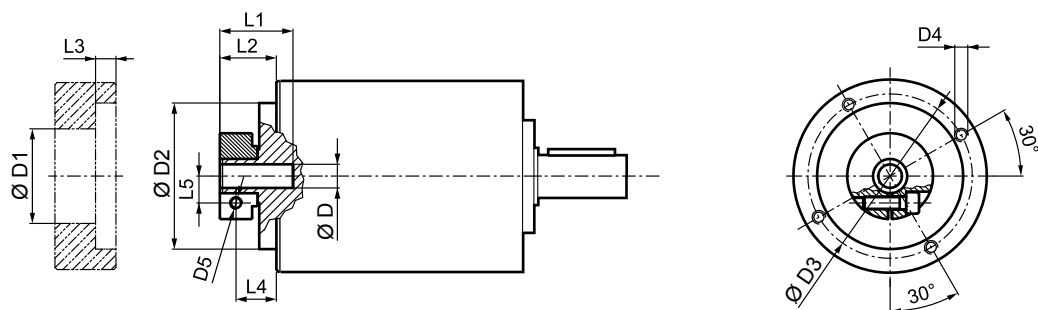
LC 070P 1	2.0
LC 070P 2	2.3

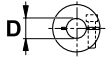
											N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH	6.35	7	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	

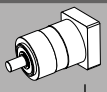
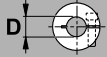
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LC 070P

FM

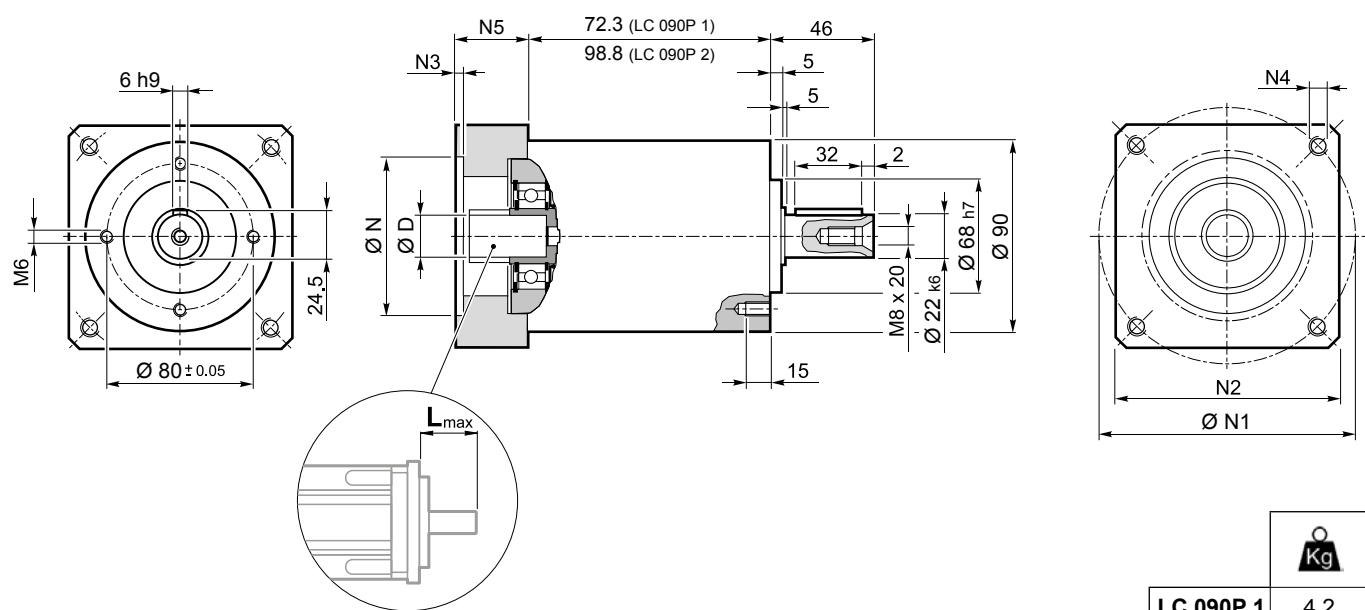


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6.35	7			32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5

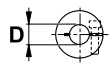
	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%		
LC 070P 1_3	29	55	60	3300	4000	12'	6'	3	1300	1400	97	6 ... 9.52	11 ... 14
LC 070P 1_4	30	45	70	3500	5000	12'	6'	3	1300	1400	97	0.08	0.10
LC 070P 1_5	28	40	70	3500	5000	12'	6'	3	1300	1400	97	0.06	0.09
LC 070P 1_7	28	40	70	4000	5000	12'	6'	3	1300	1400	97	0.05	0.07
LC 070P 1_10	20	33	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	20	33	60	4000	6000	15'	8'	2.5	1300	1400	94	0.04	0.06

LC 090P

40B1 ... 110B1



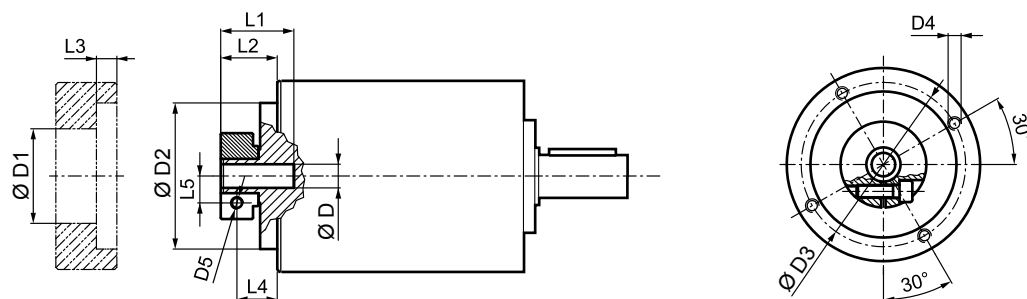
	
LC 090P 1	4.2
LC 090P 2	5.3

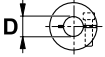
												N	N1	N2	N3	N4	N5	L _{max}
40B1	9	9.52	11	12	12.7	14	-	-	-	-	-	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	-	-	-	-	-	-	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	5.5	34	40
50C1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	70	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

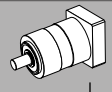
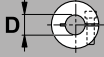
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LC 090P

FM

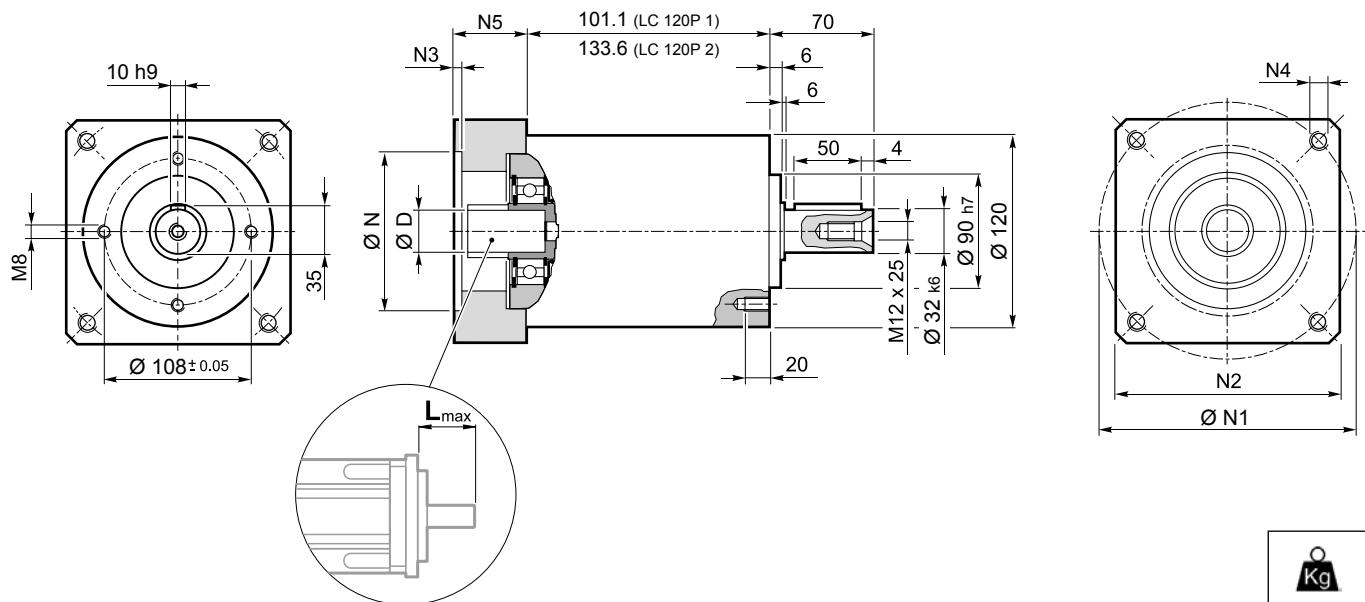


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
9	9.52			38	68	76.5	M6x10	M6	34	26.8	9.5	18.8	10.5
11	12	12.7		43	68	76.5	M6x10	M6	34	26.8	9.5	18.8	12.5
14	15.875	16	17	48	68	76.5	M6x10	M6	34	26.8	9.5	18.8	14.5
19	19.05			51	68	76.5	M6x10	M6	34	26.8	9.5	18.8	16.5

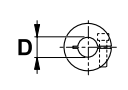
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	[N]	[N]	%		
LC 090P 1_3		65	120	150	3500	4000	12'	6'	12	2200	1900	97	8 ... 12.7	14 ... 19
LC 090P 1_4		60	110	160	3500	4000	12'	6'	12	2200	1900	97	0.62	0.77
LC 090P 1_5		50	100	160	3200	4500	12'	6'	9	2200	1900	97	0.41	0.55
LC 090P 1_7		50	100	160	4000	6000	12'	6'	9	2200	1900	97	0.33	0.47
LC 090P 1_10		40	75	150	4000	6000	12'	6'	9	2200	1900	97	0.26	0.40
LC 090P 2_9		65	120	150	3500	4000	15'	8'	12	2200	1900	94	0.21	0.35
LC 090P 2_12		65	120	160	3500	4000	15'	8'	12	2200	1900	94	0.47	0.61
LC 090P 2_15		65	120	160	3500	4000	15'	8'	12	2200	1900	94	0.44	0.58
LC 090P 2_16		60	110	160	3500	4500	15'	8'	12	2200	1900	94	0.43	0.57
LC 090P 2_20		60	110	160	3500	4500	15'	8'	12	2200	1900	94	0.31	0.45
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	0.26	0.40
LC 090P 2_30		65	120	150	4000	6000	15'	8'	12	2200	1900	94	0.22	0.36
LC 090P 2_35		50	100	160	4000	6000	15'	8'	9	2200	1900	94	0.20	0.34
LC 090P 2_40		50	100	160	4000	6000	15'	8'	9	2200	1900	94	0.22	0.36
LC 090P 2_50		60	110	160	4000	6000	15'	8'	12	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	75	150	4000	6000	15'	8'	9	2200	1900	94	0.20	0.34

LC 120P

50D ... 130A1



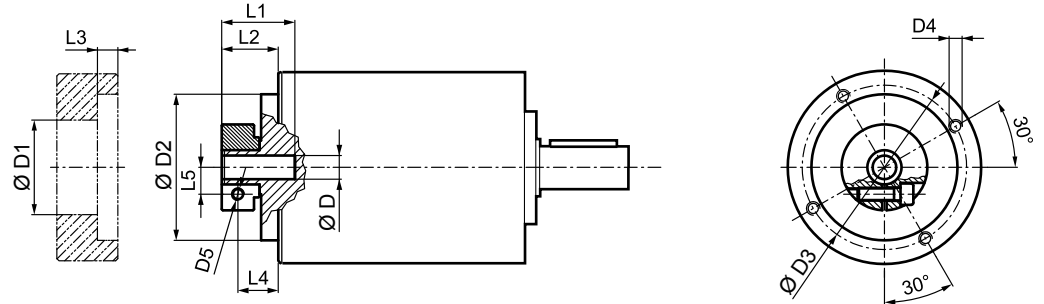
	
LC 120P 1	9.6
LC 120P 2	12.1

										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

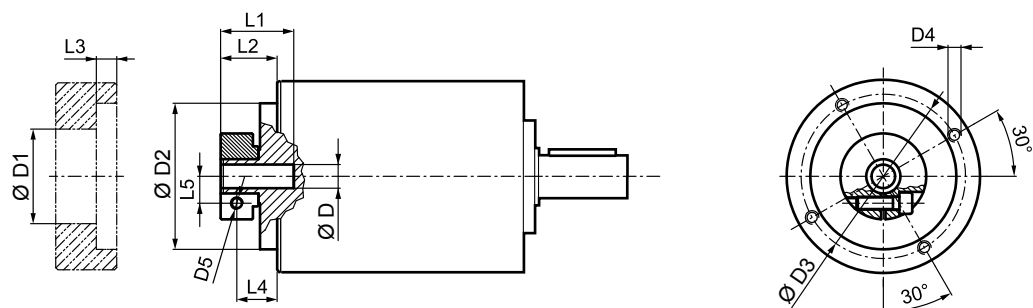


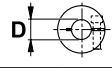
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15	15.875	16	48	90	98	M6x15	M6	33.5	20	7.6	12.5	14.5
19				51	90	98	M6x15	M6	33.5	20	7.6	12.5	16.5
22	24			56.5	90	98	M6x15	M6	36.5	23	7.6	14	19
28				67	90	98	M6x15	M8	36.5	23	7.6	14	22.5
32				71	90	98	M6x15	M8	38	24.5	7.6	15.5	24.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[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	165	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	165	300	3500	5000	15'	8'	22.5	3500	3000	94	0.42	1.02	1.38

LC 155P

FM



	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

		M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²] 			
	i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	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

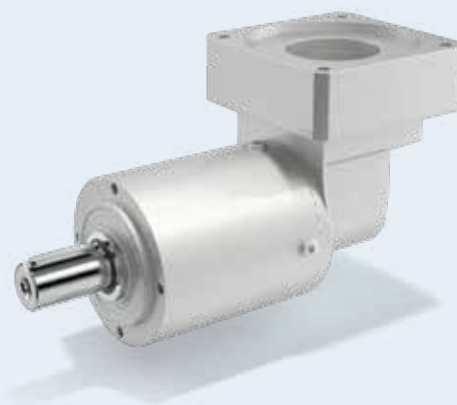


RIDUTTORI EPICICLOIDALI DI PRECISIONE AD ANGOLO RETTO

Serie LCK

I riduttori epicicloidali di precisione ad angolo retto LCK rappresentano una soluzione flessibile, affidabile ed economica per macchinari che richiedono un layout estremamente compatto.

Il design lato uscita conforme agli standard di mercato garantisce un'elevata compatibilità per retrofit agevoli e un'ampia libertà nello sviluppo dei progetti.



VANTAGGI PRINCIPALI

- Soluzione economica ma efficiente
- Elevata compatibilità per retrofit più semplici
- Design ad angolo retto a funzionamento silenzioso, ideale per layout macchina compatti

OPZIONI PRINCIPALI

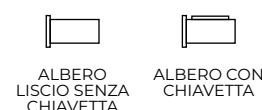
Versioni ingresso



Lubrificazione



Versioni alberi lenti



Versione ad alta potenza (opzione P)



VERSIONE
AD ALTA
POTENZA

DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾	Intervallo del rapporto di riduzione	Gioco torsionale ⁽¹⁾ Standard	Rigidità torsionale	Momento max di ribaltamento
	[Nm]	i	[arcmin]	[Nm/arcmin]	[Nm]
050	12	6-100	6	0,9	15
070	30	6-100	6	2,8	54
090	60	6-100	6	11	105
120	155	6-100	6	28,4	238
155	450	6-100	6	47,9	522

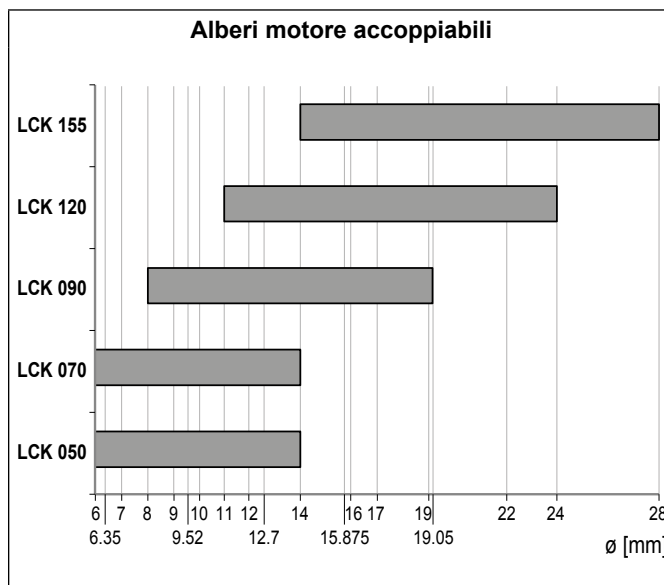
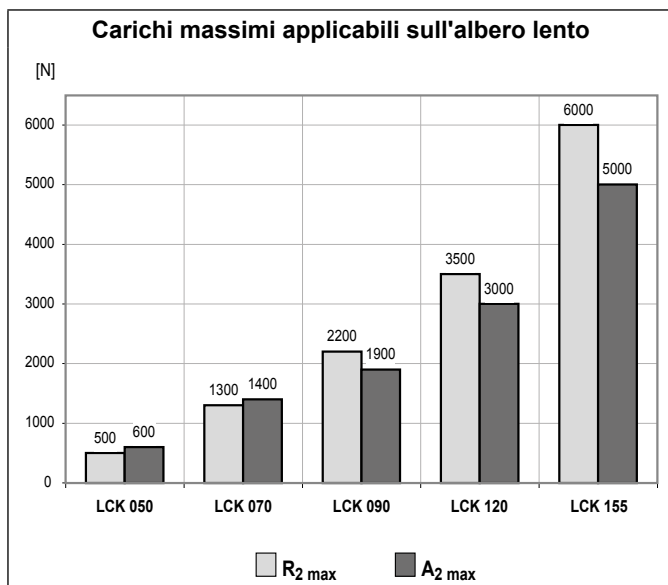
1) Valore migliore disponibile per ciascuna taglia.

11 CARATTERISTICHE DELLA SERIE LCK

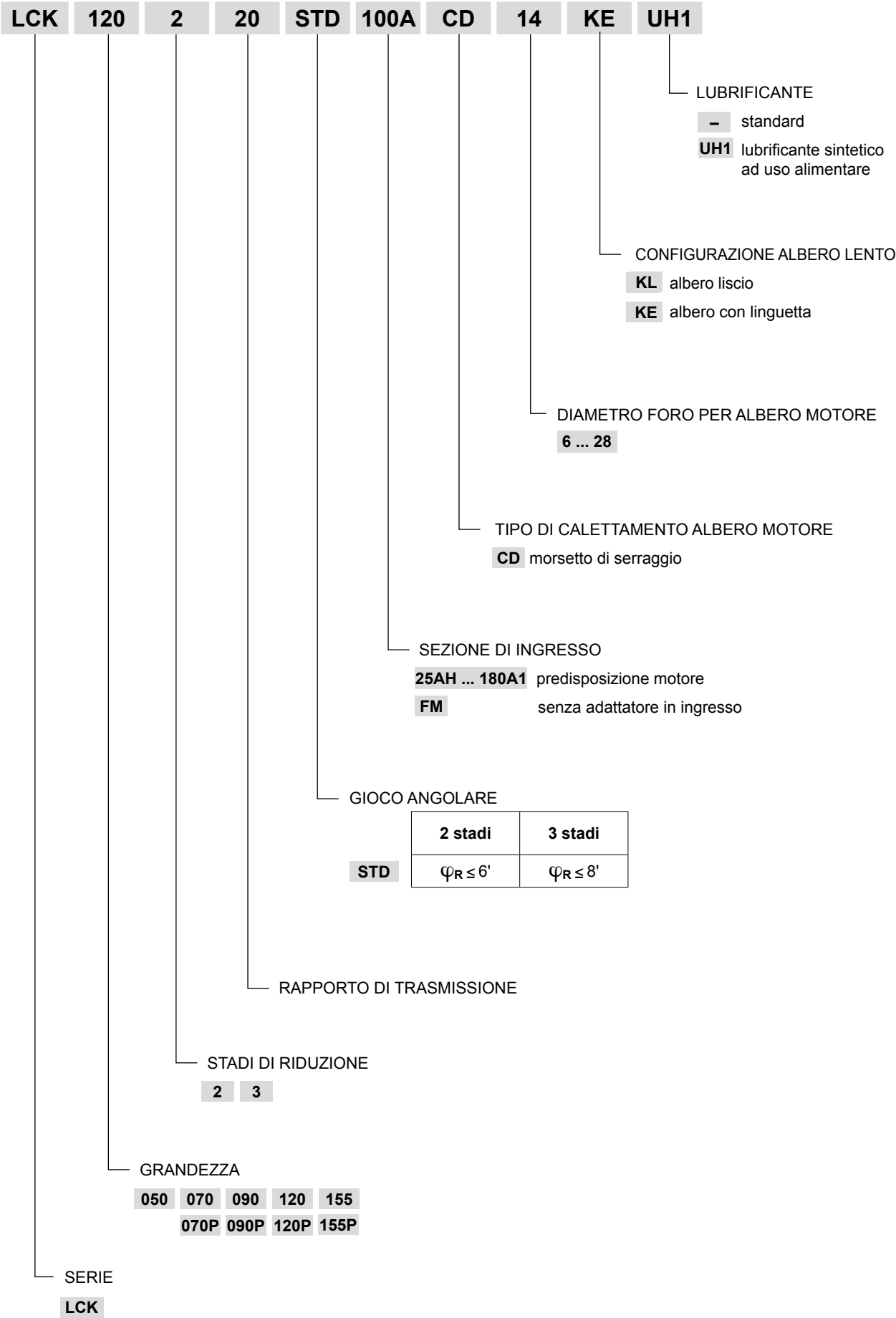
I riduttori della serie LCK trasferiscono nella configurazione angolare le brillanti caratteristiche funzionali che sono proprie della serie coassiale LC, ed a questa aggiungono doti di più facile alloggiamento in spazi ristretti.

- 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 termico f_T .
- La temperatura sulla cassa non deve superare $T_{max} = 90^\circ\text{C}$..
- 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	28	28	20	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



11.1 CODICE ORDINATIVO

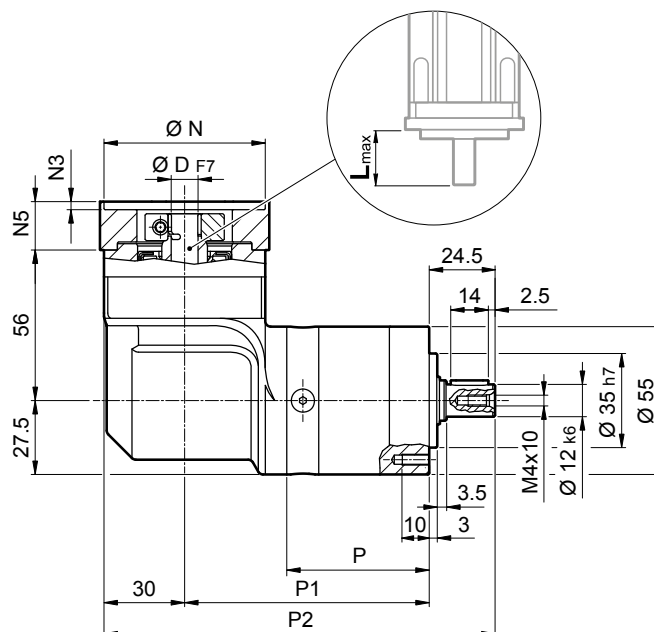
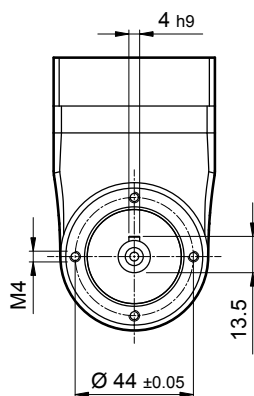


LCK

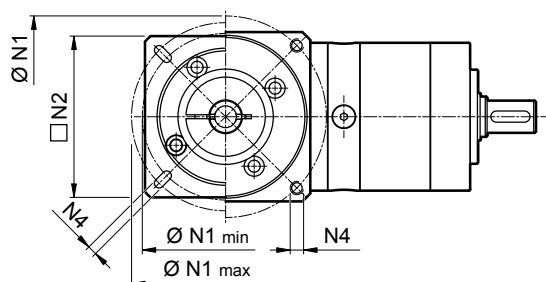


LCK 050

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

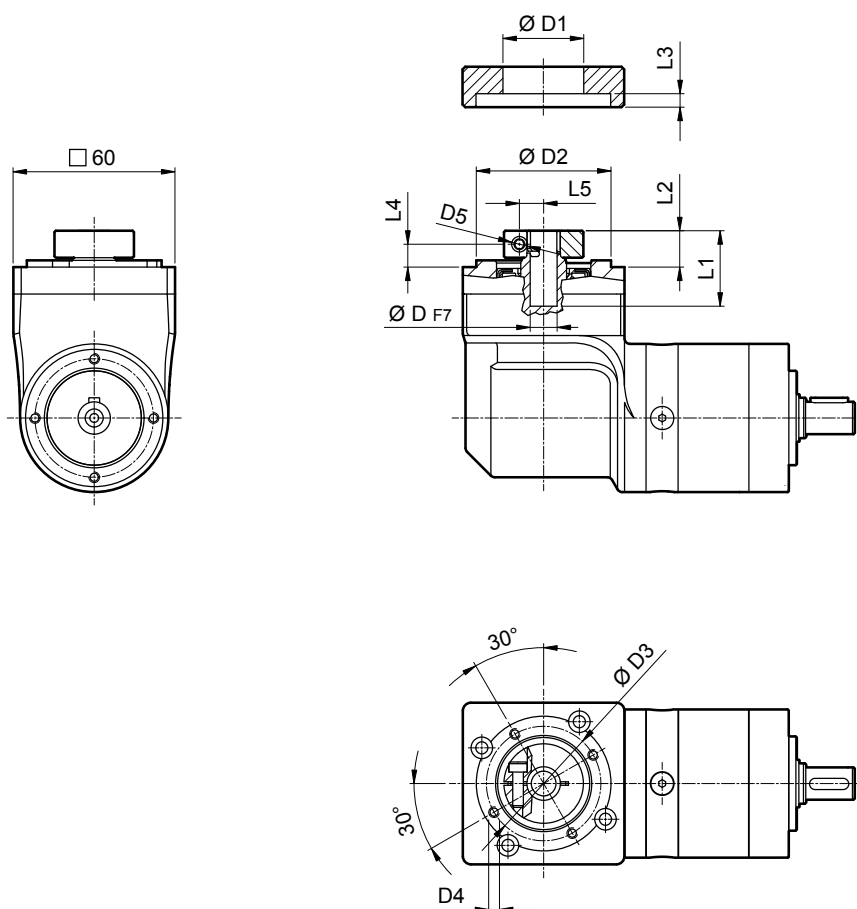


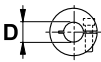
	D											N	N1		N2	N3	N4	N5	L _{max}
													min	max					
																			
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8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

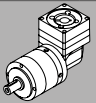
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK 050

FM



				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

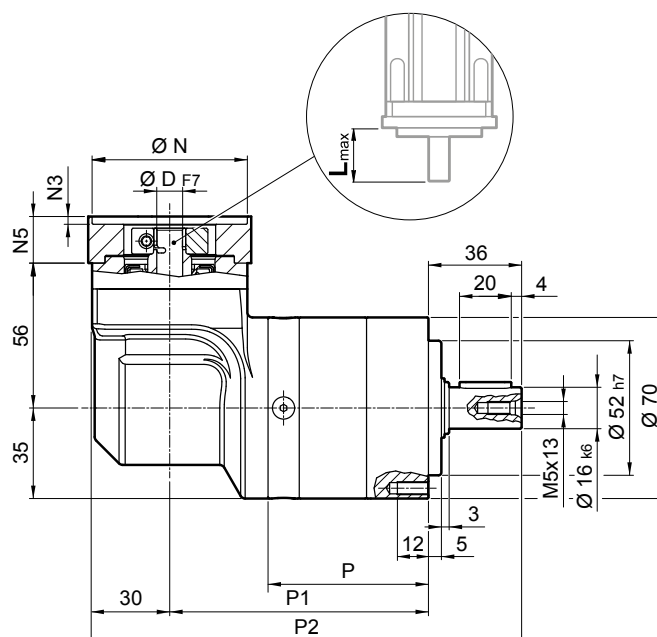
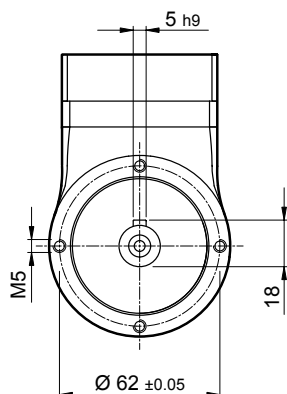
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	10 ... 14
LCK 050 2_6		10	16	28	2500	5000	6'	0.9	500	600	94	0.23	0.25
LCK 050 2_8		12	20	30	2500	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

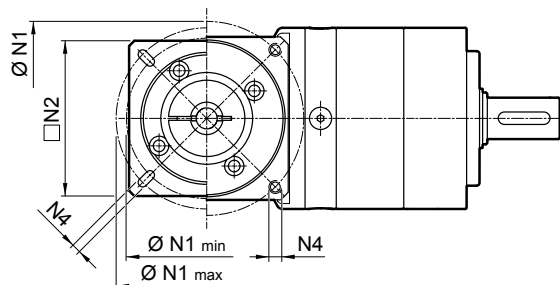


LCK 070

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

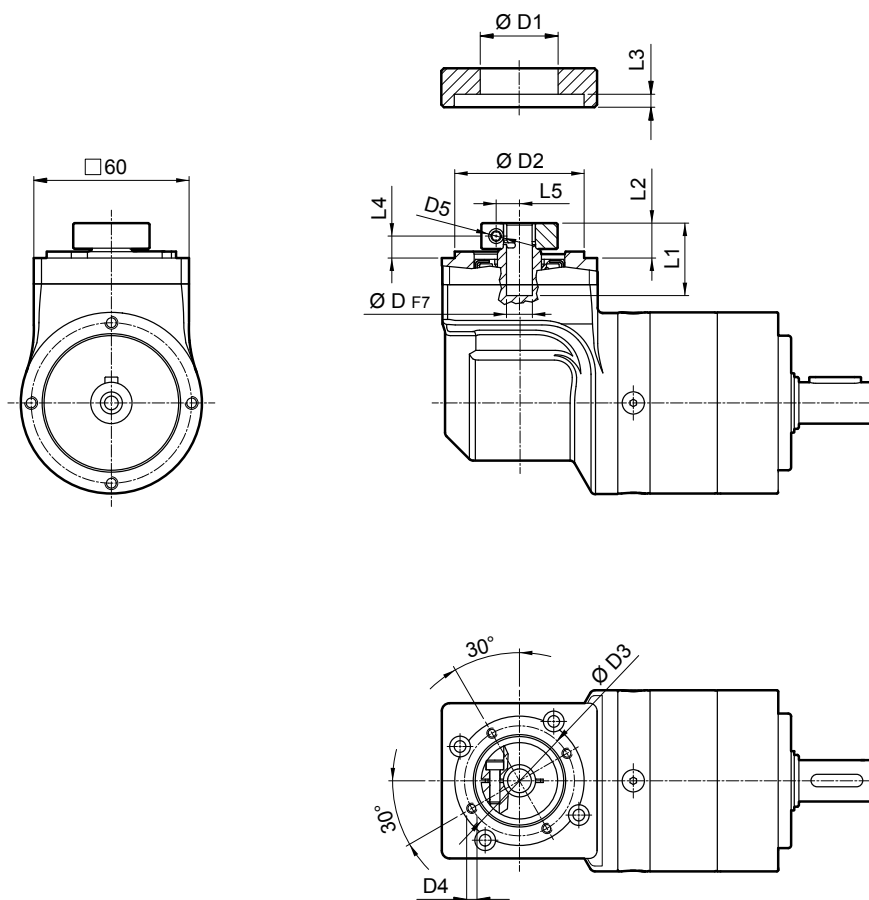


	D											N	N1		N2	N3	N4	N5	L _{max}
													min	max					
																			
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56					
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

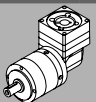
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK 070

FM



				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

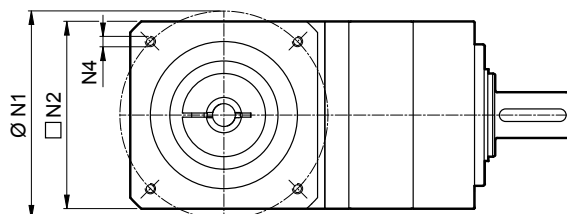
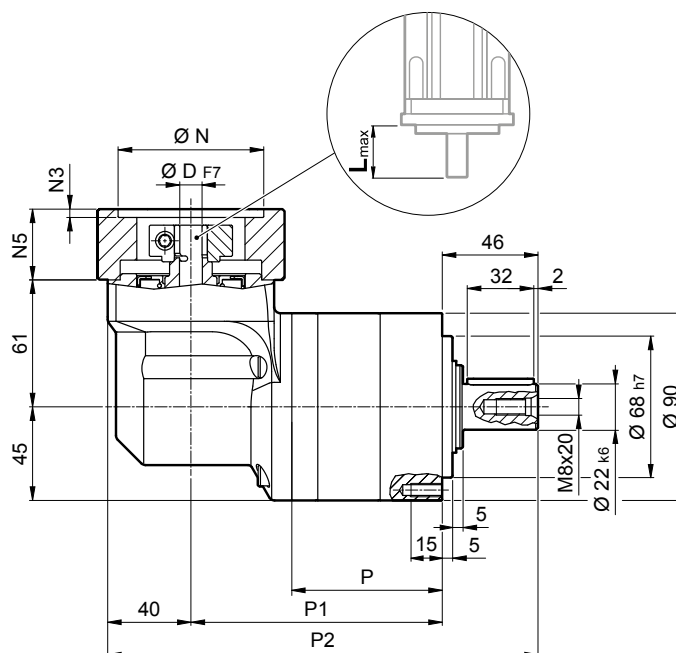
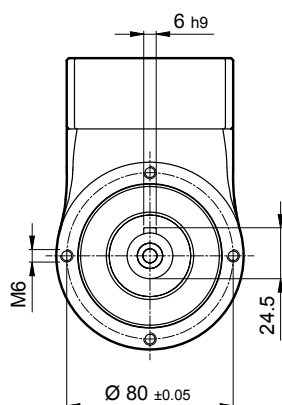
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	10 ... 14
LCK 070 2_6		18	30	45	2500	5000	6'	2.8	1300	1400	94	0.25	0.26
LCK 070 2_8		25	35	60	2500	5000	6'	2.8	1300	1400	94	0.24	0.25
LCK 070 2_10		28	40	70	2500	5000	6'	2.8	1300	1400	94	0.23	0.25
LCK 070 2_14		28	40	70	2500	5000	6'	2.8	1300	1400	94	0.23	0.24
LCK 070 2_20		20	33	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

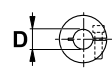


LCK 090

40B1 ... 110B1



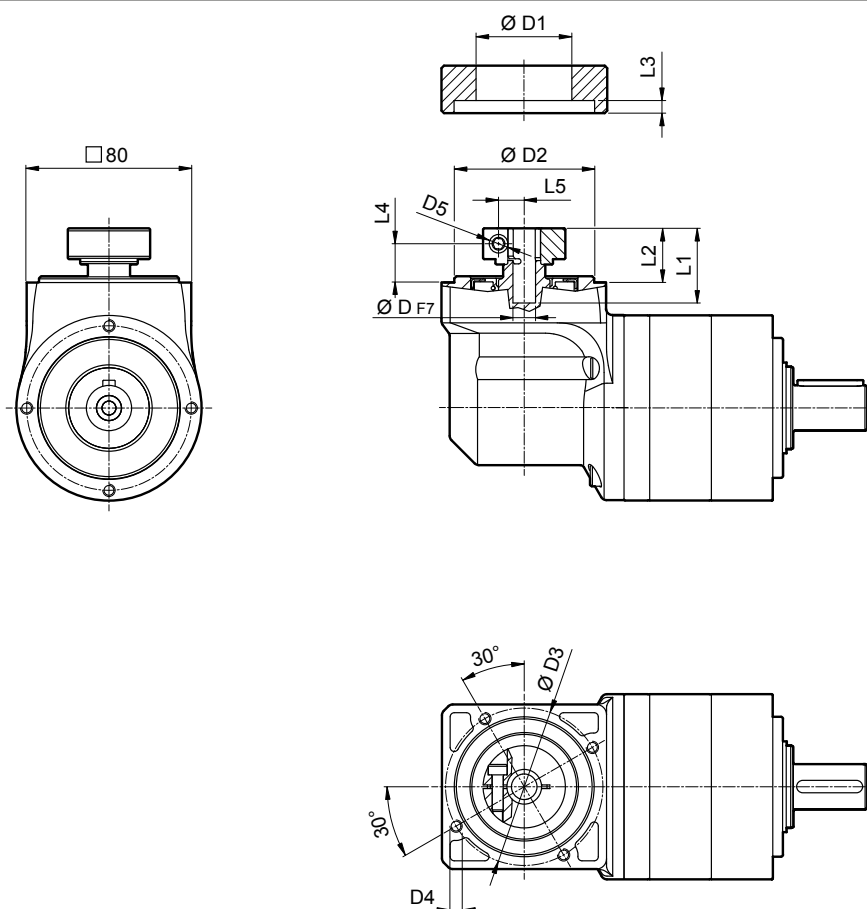
	P	P1	P2	Kg
LCK 090 2	72.3	120.8	206.8	5.2
LCK 090 3	98.8	147.3	233.3	6.3

												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

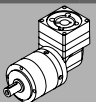
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK 090

FM



				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

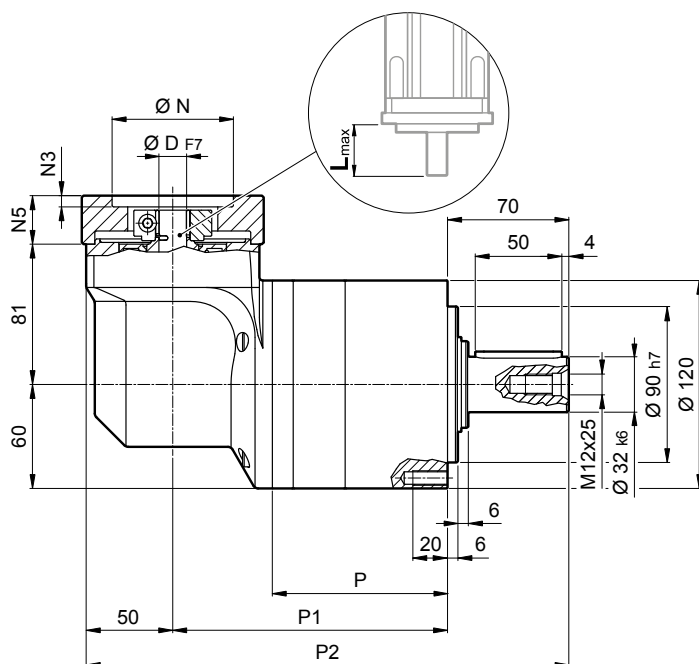
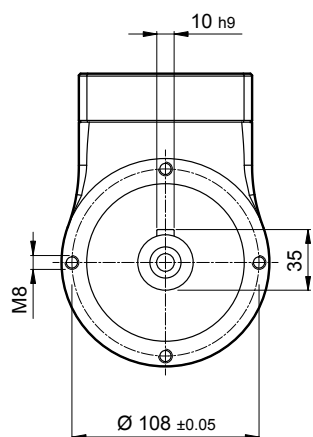
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	8 ... 12.7	14 ... 19.05
LCK 090 2_6		37	63	90	2500	5000	6'	8	2200	1900	94	0.85	1.03
LCK 090 2_8		43	80	120	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		40	75	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

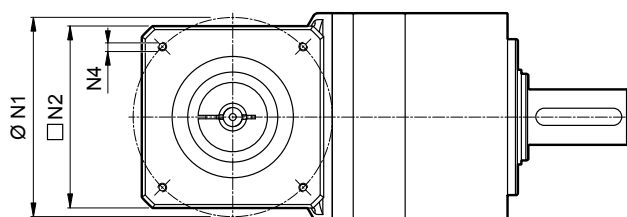


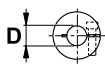
LCK 120

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

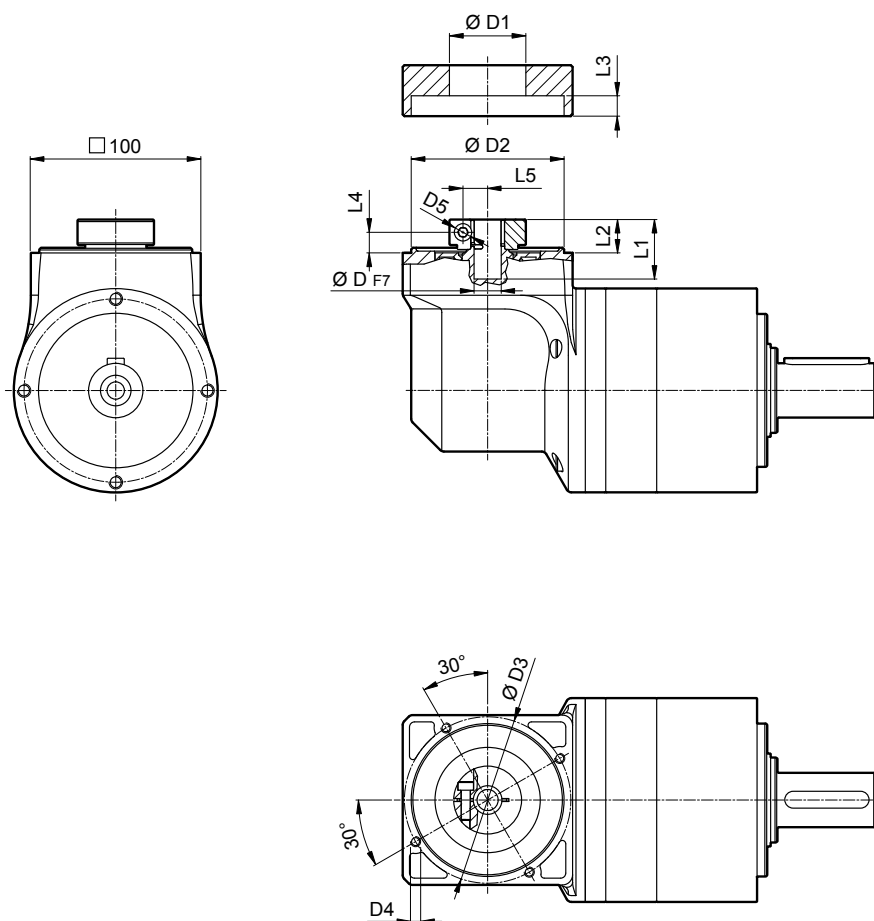


	 										N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	—	—	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	—	—	55.5	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	—	—	60	75	100	5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	—	—	60	75	100	5	6.5	33	40
60B1	11	12	12.7	14	15	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

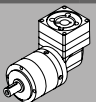
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK 120

FM



				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

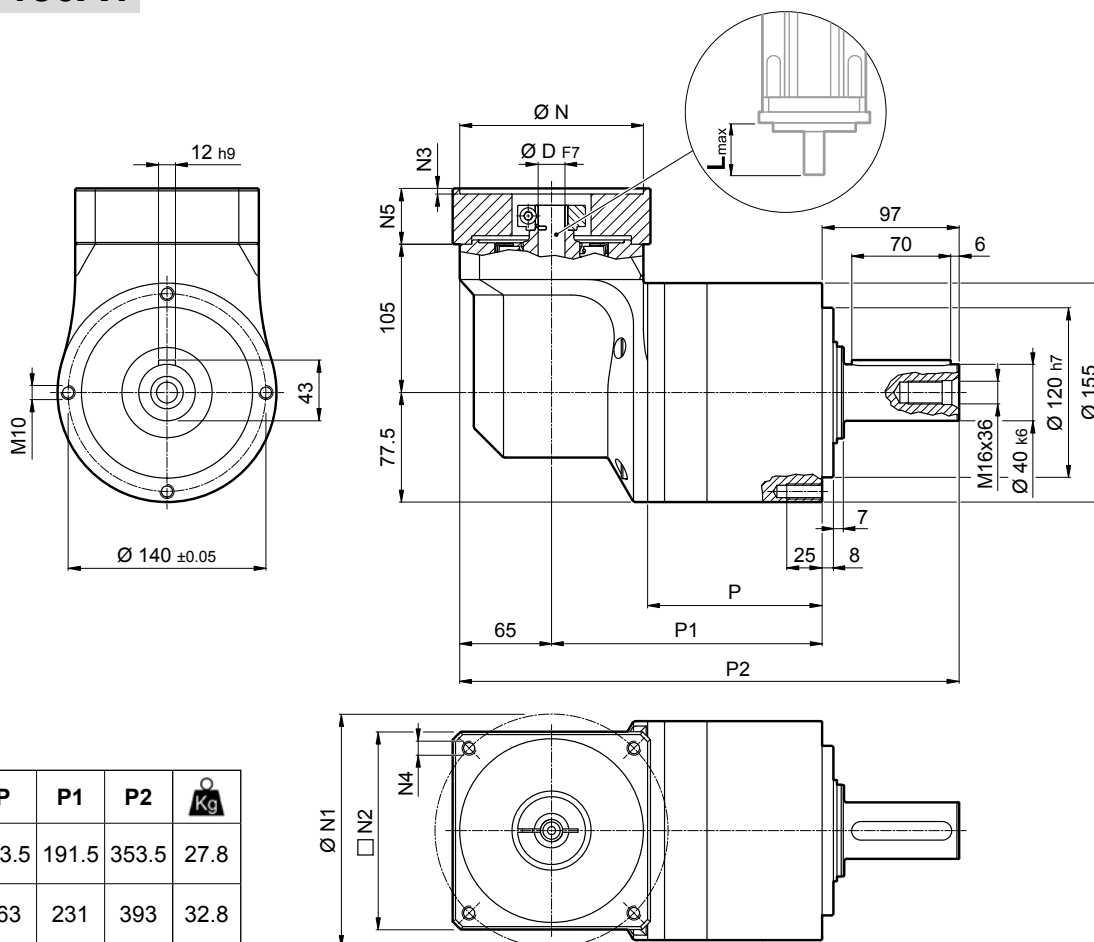
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	11 ... 12.7	14 ... 19	22 ; 24
LCK 120 2_6		95	160	225	2000	4500	6'	23.4	3500	3000	94	1.74	1.82	2.01
LCK 120 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		100	165	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

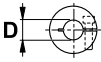


LCK 155

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

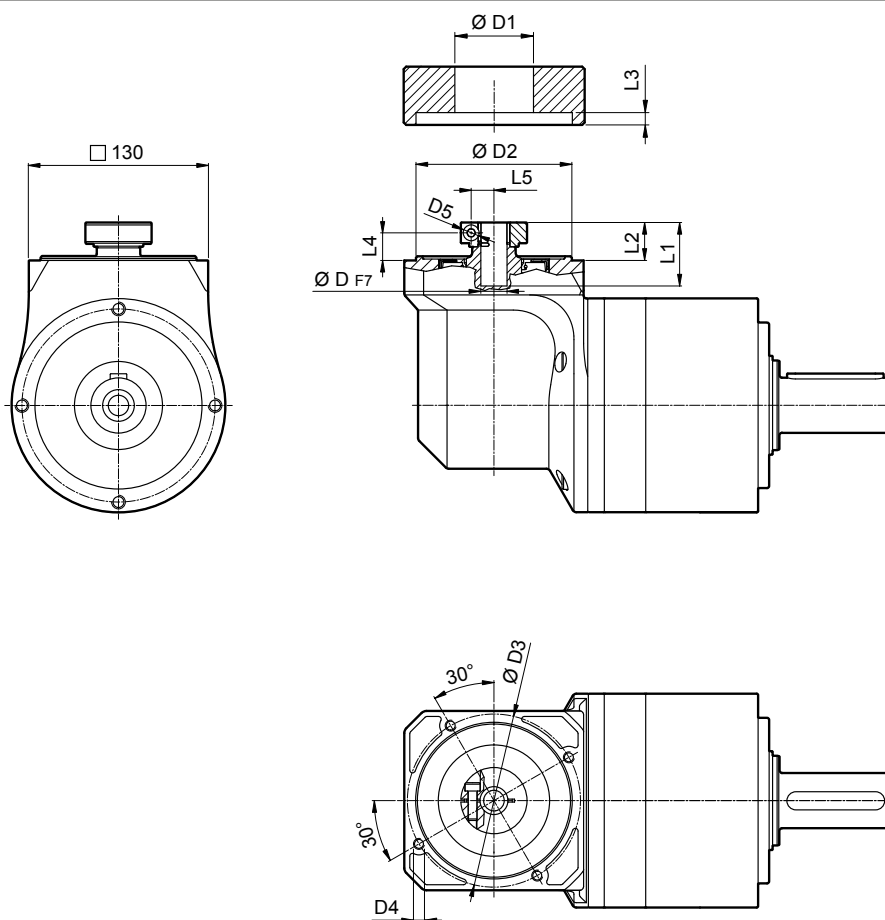
								N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24	—	110	145	130	6.5	M8x20	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.

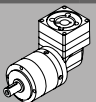


LCK 155

FM



			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

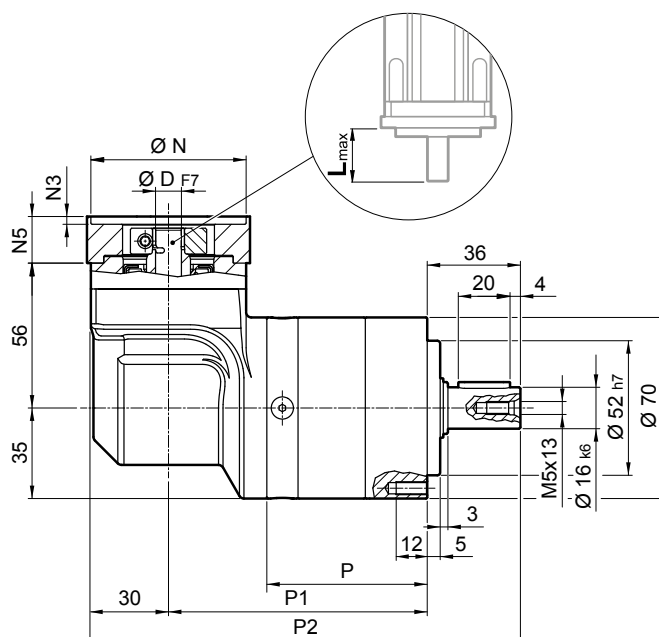
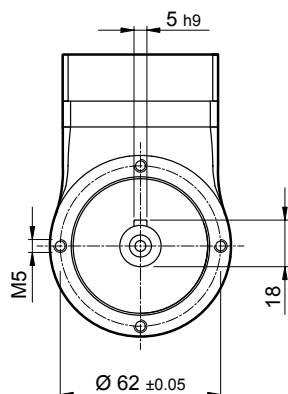
		M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]		
i		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	14 ... 19	22 ; 24	28
LCK 155 2_6		250	360	510	2000	4500	6'	40.7	6000	5000	94	7.94	8.13	8.53
LCK 155 2_8		300	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

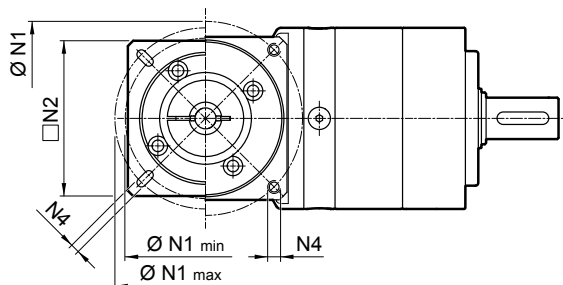


LCK 070P

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

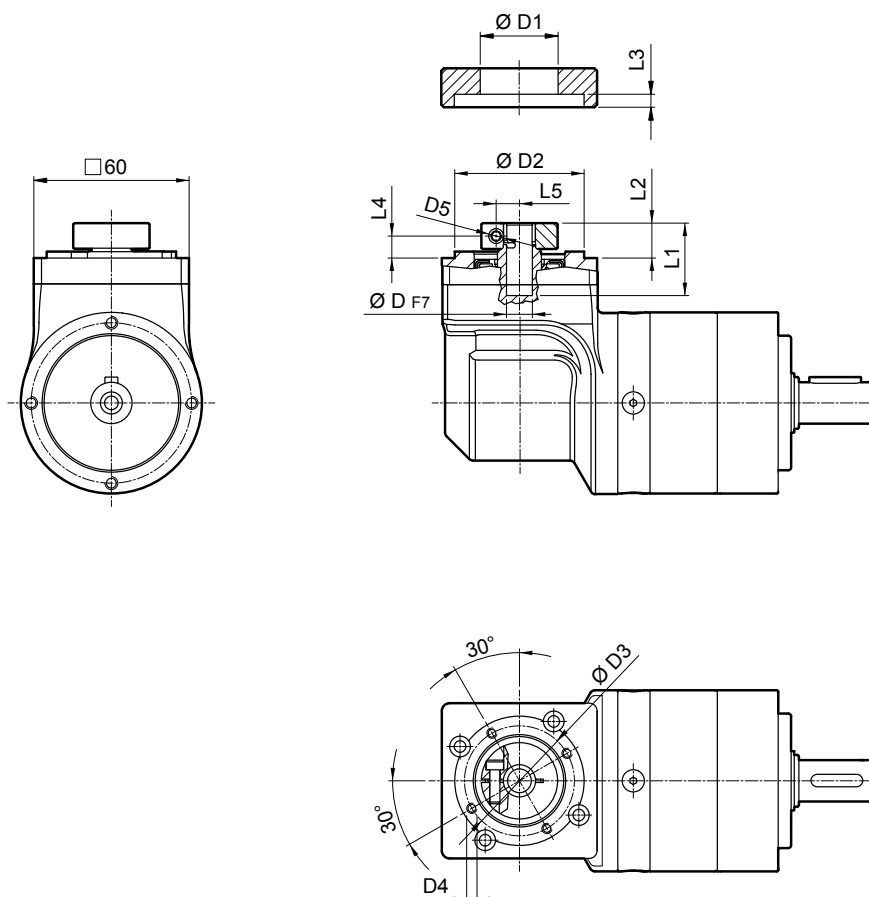


	D											N	N1		N2	N3	N4	N5	Lmax
													min	max					
																			
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56					
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	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

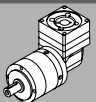
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK 070P

FM



				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

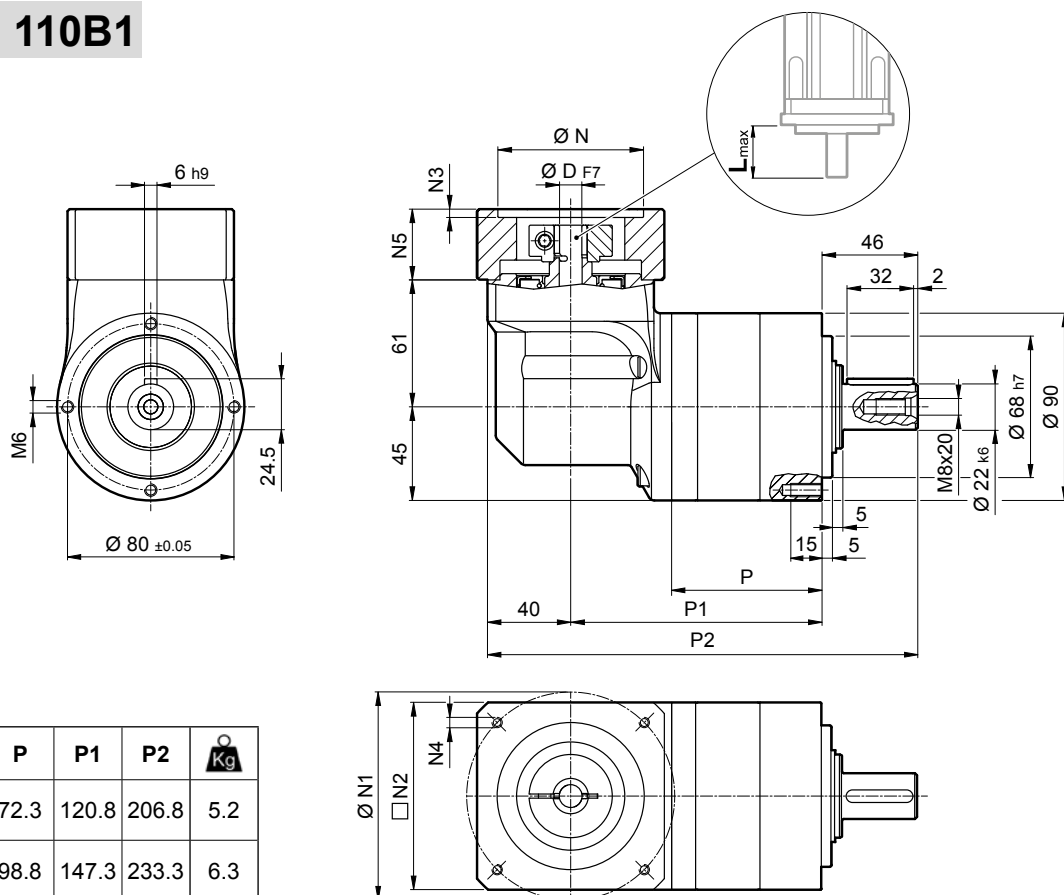
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%		
												6 ... 9.52	11 ... 14
LCK 070P 2_6		25	38	45	2500	5000	6'	2.8	1300	1400	94	0.25	0.26
LCK 070P 2_8		30	40	60	2500	5000	6'	2.8	1300	1400	94	0.24	0.25
LCK 070P 2_10		28	40	70	2500	5000	6'	2.8	1300	1400	94	0.23	0.25
LCK 070P 2_14		28	40	70	2500	5000	6'	2.8	1300	1400	94	0.23	0.24
LCK 070P 2_20		28	39	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

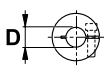


LCK 090P

40B1 ... 110B1



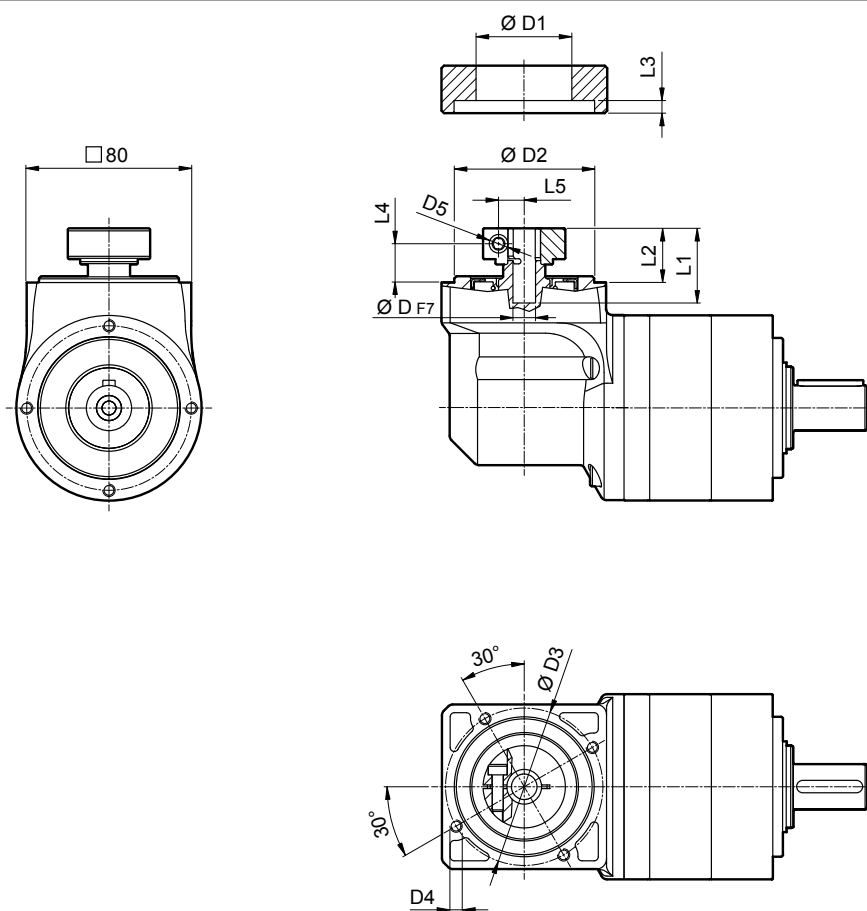
	P	P1	P2	Kg
LCK 090P 2	72.3	120.8	206.8	5.2
LCK 090P 3	98.8	147.3	233.3	6.3

	 												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

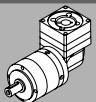
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK 090P

FM



				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

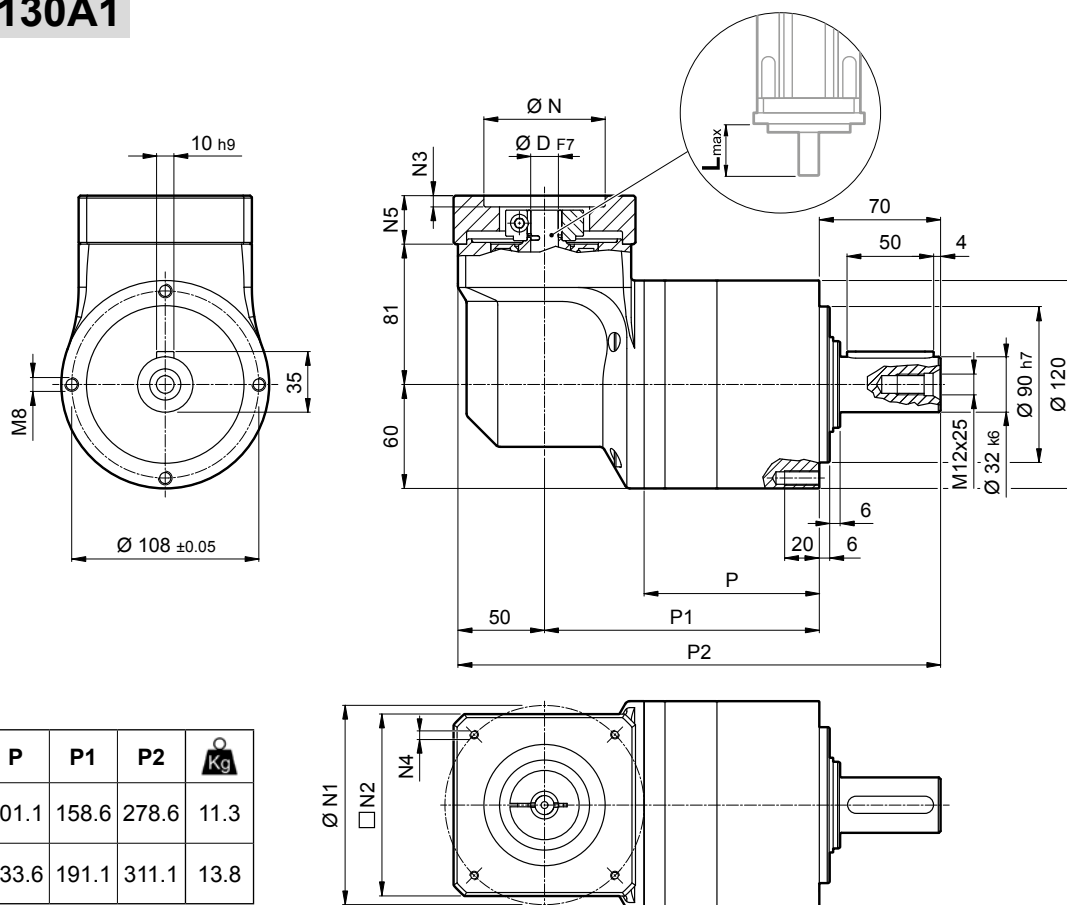
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	8 ... 12.7	14 ... 19
LCK 090P 2_6		45	70	90	2500	5000	6'	11	2200	1900	94	0.85	1.03
LCK 090P 2_8		60	90	120	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	75	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

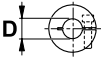


LCK 120P

50D ... 130A1



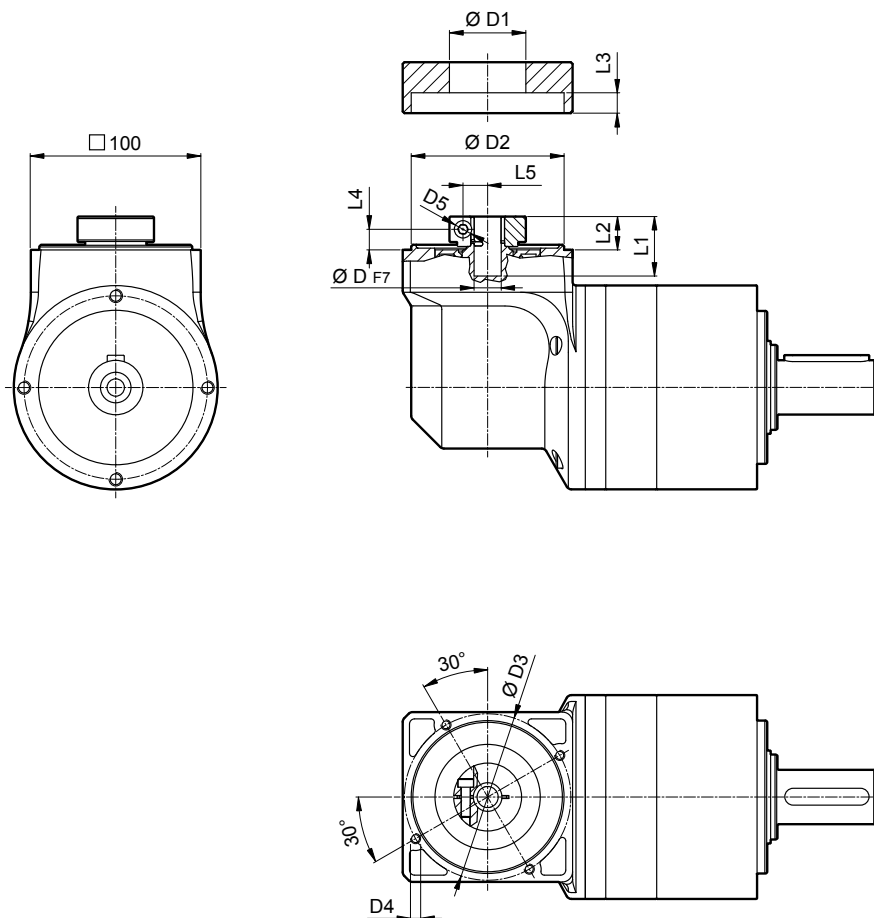
	P	P1	P2	Kg
LCK 120P 2	101.1	158.6	278.6	11.3
LCK 120P 3	133.6	191.1	311.1	13.8

											N	N1	N2	N3	N4	N5	Lmax
																	
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

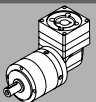
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK 120P

FM



				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

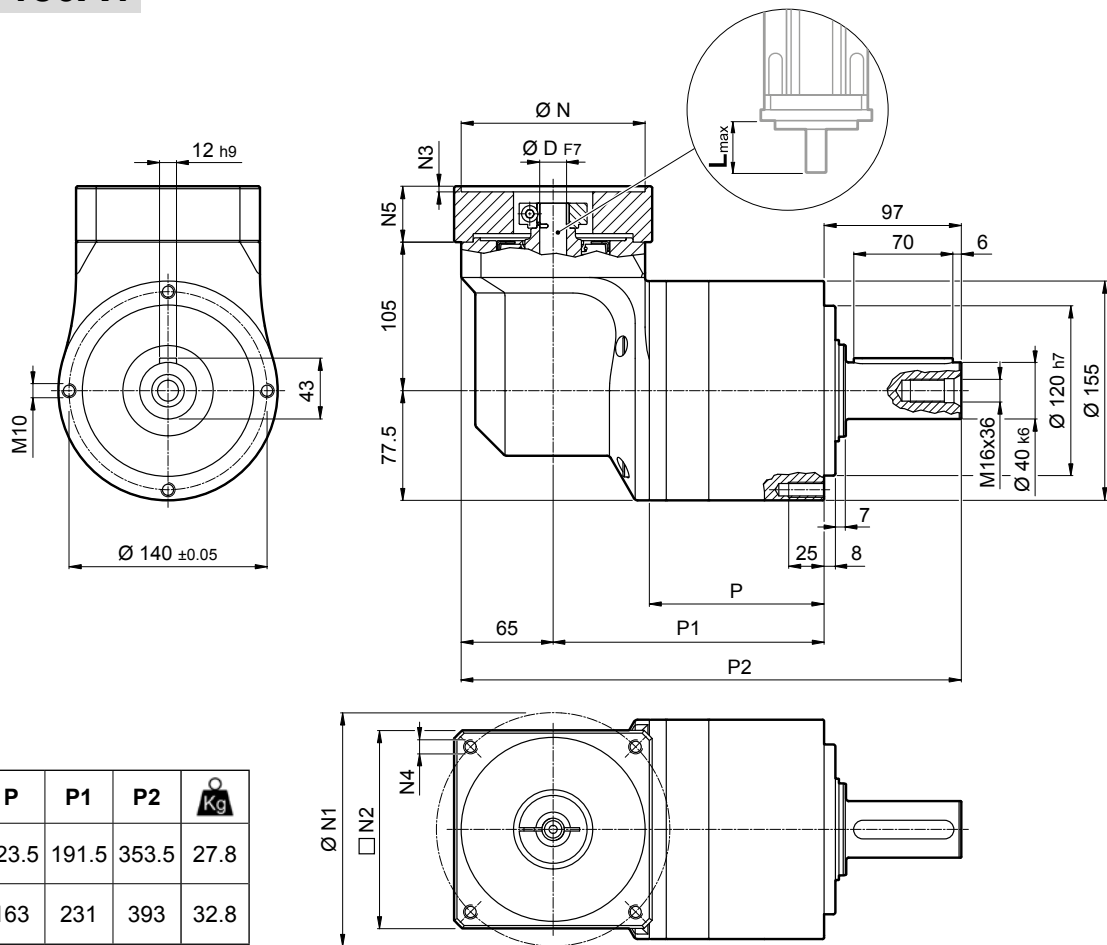
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²] 		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	14 ... 19	22 ; 24	28 ; 32
LCK 120P 2_6		110	160	225	2000	4500	6'	28.4	3500	3000	94	1.74	1.82	2.01
LCK 120P 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	165	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



LCK 155P

55A1 ... 180A1

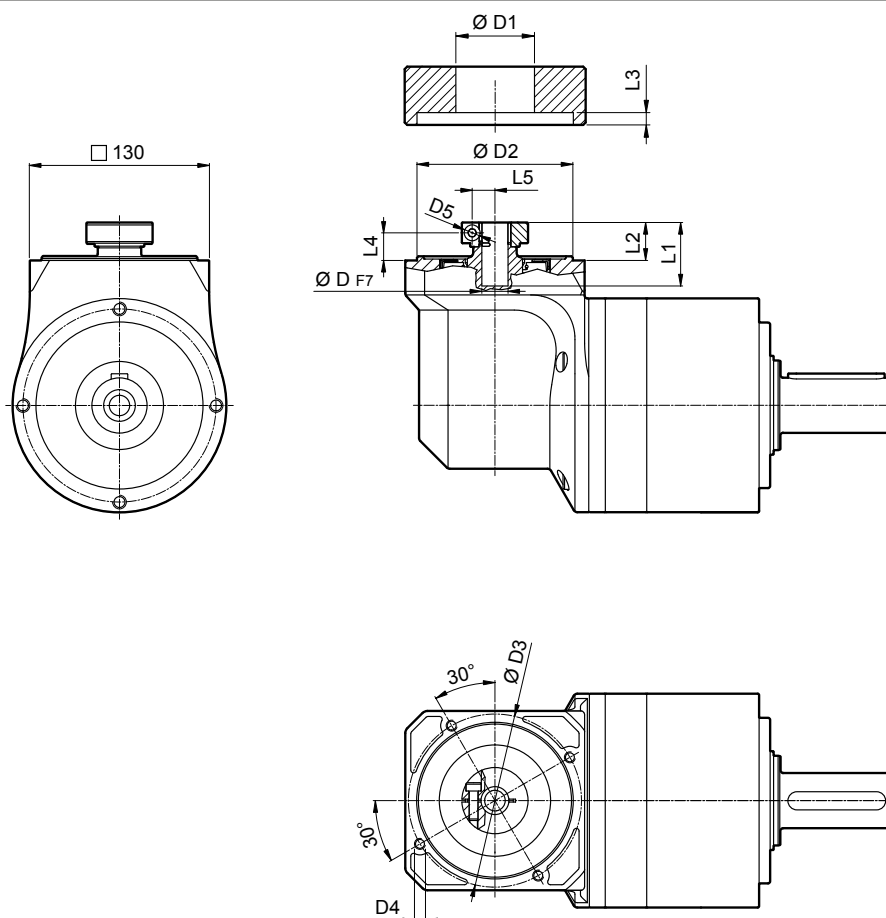


	P	P1	P2	Kg
LCK 155P 2	123.5	191.5	353.5	27.8
LCK 155P 3	163	231	393	32.8

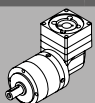
	 							N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24	—	110	145	130	6.5	M8x20	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

LCK 155P

FM



	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

	$M_{n\ 2}$	$M_{a\ 2}$	$M_{p\ 2}$	n_1	$n_{1\ max}$	φ_S	C_t	$R_{2\ max}$	$A_{2\ max}$	η	$J_G\ [kgcm^2]$			
	i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{Nm}{arcmin}\right]$	[N]	[N]	%		14 ... 19	22 ; 24
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

LCK

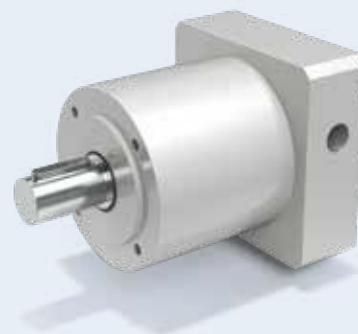




RIDUTTORI EPICICLOIDALI DI PRECISIONE IN LINEA

Serie MPE

La serie MPE offre una soluzione economica per applicazioni che richiedono livelli medi di precisione di posizionamento. Garantisce un'elevata flessibilità in termini di dimensione, rapporto di riduzione e configurazione di montaggio, adattandosi a una vasta gamma di requisiti di applicazione. Il design lato uscita conforme agli standard di mercato garantisce un'elevata compatibilità per retrofit agevoli e un'ampia libertà nello sviluppo dei progetti.



VANTAGGI PRINCIPALI

- Ottimo rapporto qualità-prezzo
- Elevata compatibilità per retrofit più semplici
- Adatta a molteplici applicazioni grazie all'elevata flessibilità del design

OPZIONI PRINCIPALI

Versioni ingresso



Lubrificazione



Versioni alberi lenti



DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto [arcmin]	Standard		
040	12	3-100	6	12	0,9	15
060	30	3-100	6	12	3	54
080	65	3-100	6	12	12	105
120	155	3-100	6	12	30	238

1) Valore migliore disponibile per ciascuna taglia.

12 CARATTERISTICHE DELLA SERIE MPE

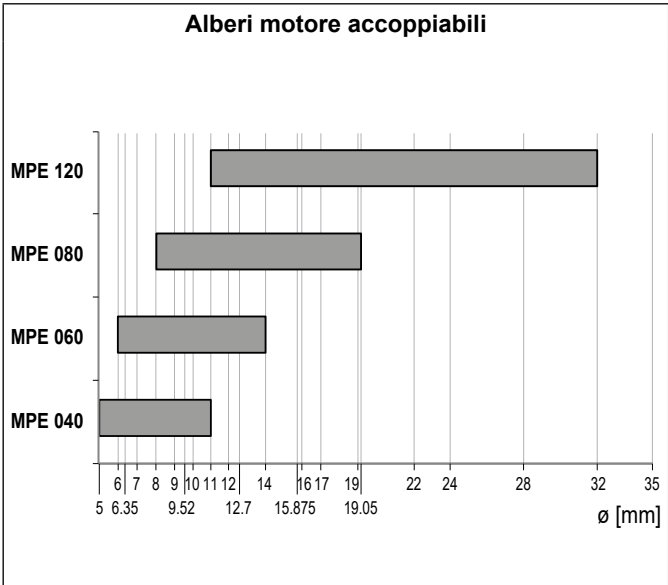
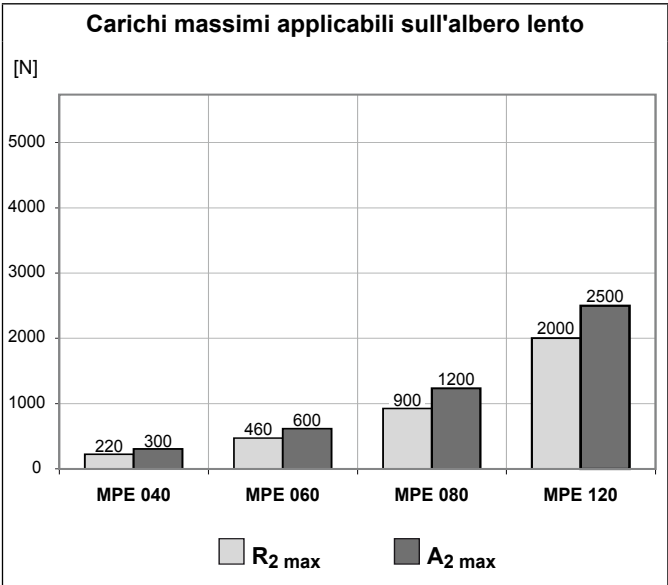
La serie MPE soddisfa un'ampia gamma di requisiti di applicazioni grazie alla sua flessibilità elevata in termini di dimensioni, rapporti e configurazioni di montaggio.

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 $LP \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico una velocità di ingresso di $n_1 = 3000 \text{ min}^{-1}$; $i=10$.
- 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 $+30^\circ\text{C}$. Per temperature superiori a 30°C considerare il fattore di declassamento f_T .
- La temperatura dell'alloggiamento non deve superare $T_{\text{max}} = 90^\circ\text{C}$.

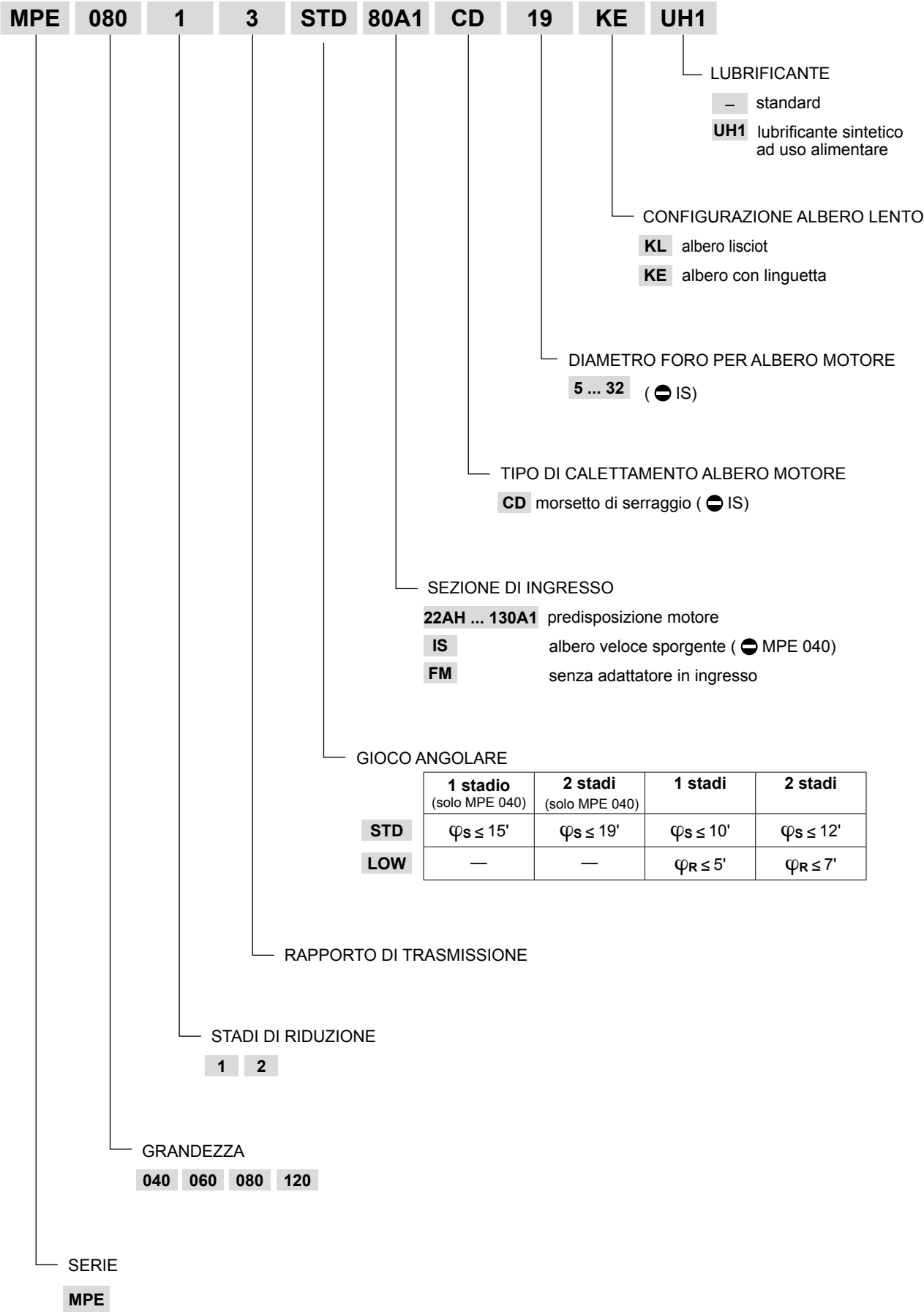
Distribuzione di coppia nominale M _{n2} [Nm]																		
↙ [i]	3	4	5	7	9	10	12	15	16	20	25	28	30	35	40	50	70	100
MPE 040	12	12	12	8	12	5	12	12	12	12	12	12	12	12	12	12	8	5
MPE 060	29	30	25	25	29	18	29	29	30	30	30	30	29	30	30	30	30	18
MPE 080	65	60	50	50	65	40	65	65	60	60	50	50	65	50	60	50	50	40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



*non disponibile per la dimensione 040



12.1 CODICE ORDINATIVO

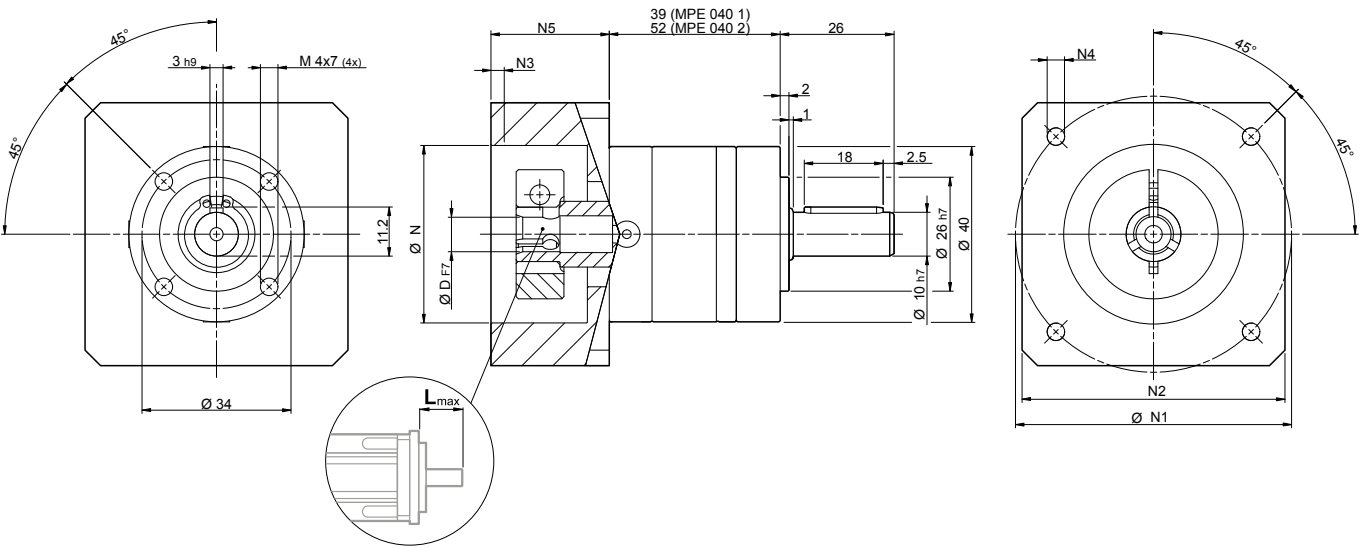


MPE

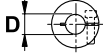


MPE 040

22AH ... 50C0



	
MPE 040 1	0.5
MPE 040 2	0.8

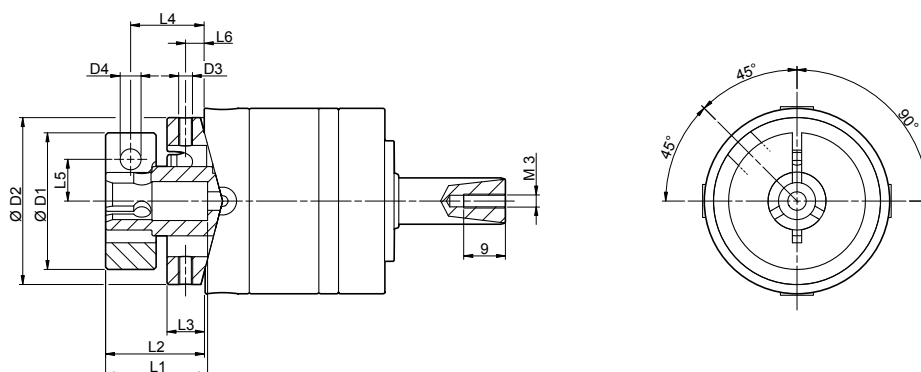
						N	N1	N2	N3	N4	N5	L _{max}
22AH	5	6.35	—	—	—	22	43.84	42	6	3.5	20	22
30A0	—	—	8	9	—	30	46	50	4	M4x12	27	26
30B0	—	—	8	9	—	30	45	50	4	M3x8	27	26
36A	5	6.35	—	—	—	36	57.98	60	10	M4x12	30	32
38B	5	6.35	—	—	—	38.1	66.66	60	10	M4x12	25	26
40B	—	—	8	9	11	40	63	60	4	M4x12	27	26
50C0	—	—	8	9	11	50	70	60	4	M4x12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

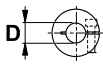
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

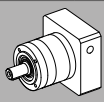


MPE 040

FM



					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

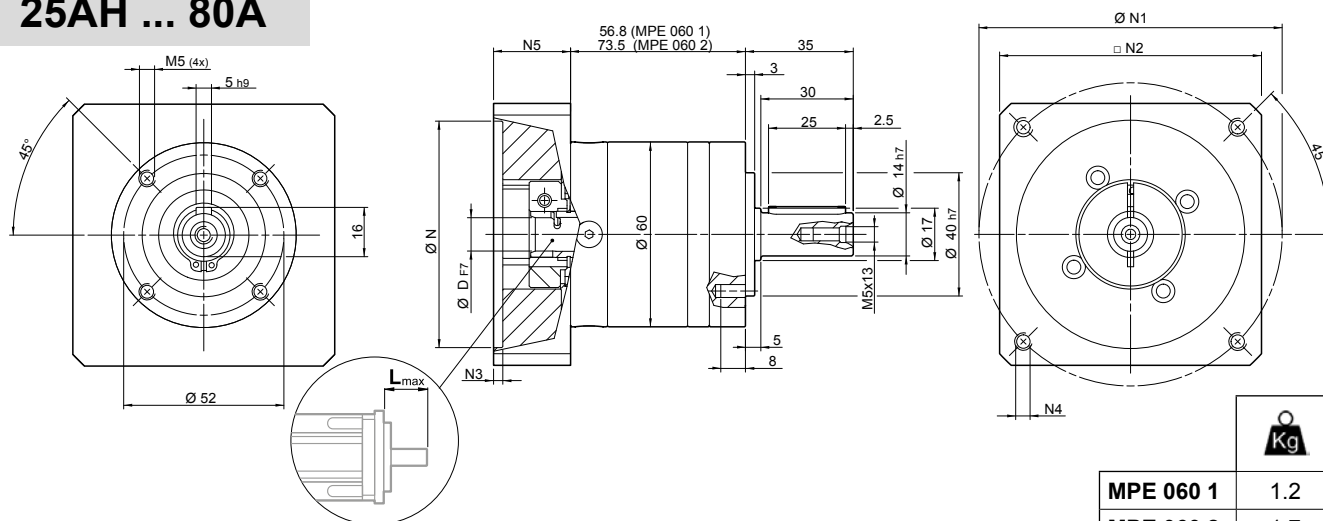
 i	M _{n 2}	M _{a 2}	M _{p 2}	n _{1N}	n _{1 max}	φ _s	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[rpm]	[rpm]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	5 ... 6.35	8 ... 11
MPE 040 1_3	12	15	21	3500	5000	15'	0.8	220	300	97	0.05	0.09
MPE 040 1_4	12	15	21	3500	5000	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

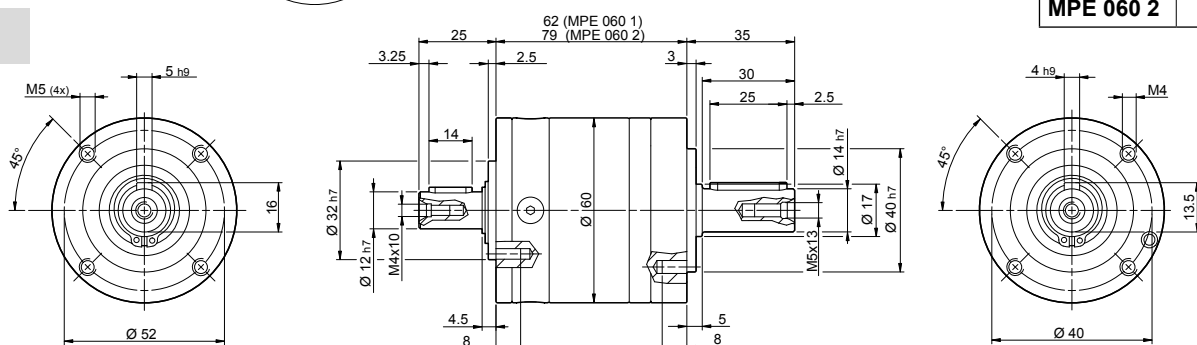


MPE 060

25AH ... 80A



IS

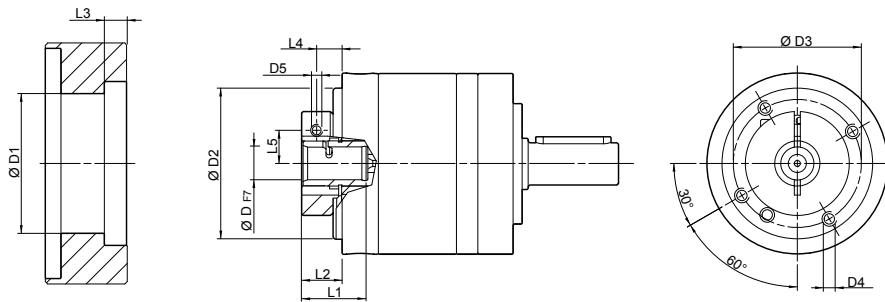


	D											N	N1		N2	N3	N4	N5	Lmax
													min	max					
	25AH	6	6.35	7	8	9	9.52	-	-	-	-	25	39	56	65	3.5	4.5	25	25
	26AH	6	6.35	7	8	9	9.52	-	-	-	-	26	39	56					
	28AH	6	6.35	7	8	9	9.52	-	-	-	-	28	39	56					
	30AH	6	6.35	7	8	9	9.52	-	-	-	-	30	39	56					
	32AH	6	6.35	7	8	9	9.52	-	-	-	-	32	39	56					
	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					
MPE	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

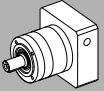
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MPE 060

FM



				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

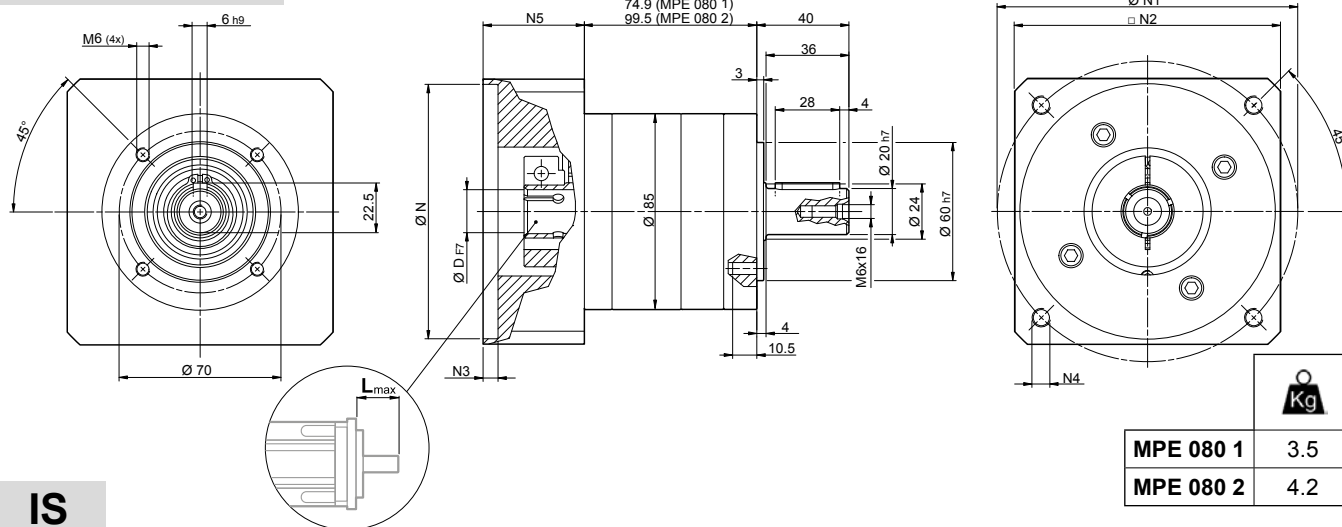
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[rpm]	[rpm]	[arcmin]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	[N]	%	6 ... 10	11 ... 14
MPE 060 1_3		29	55	60	3300	4000	10'	5'	3	200	460	600	97	0.12	0.14
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

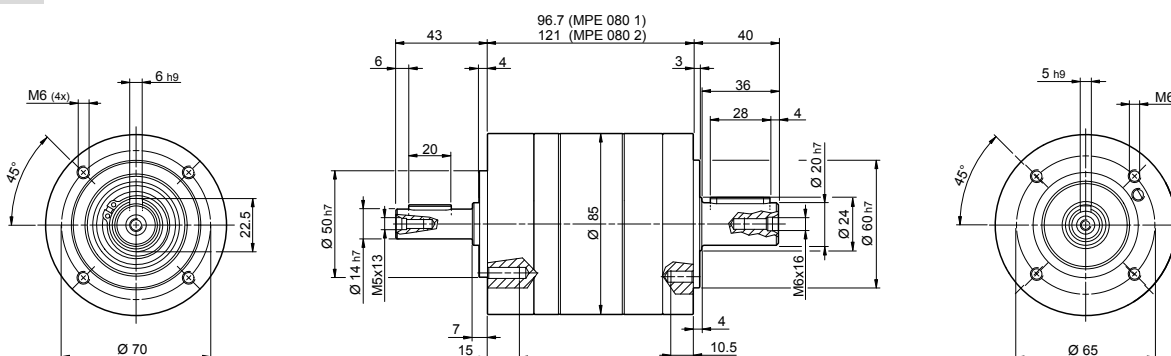


MPE 080

40B1 ... 110B1



IS

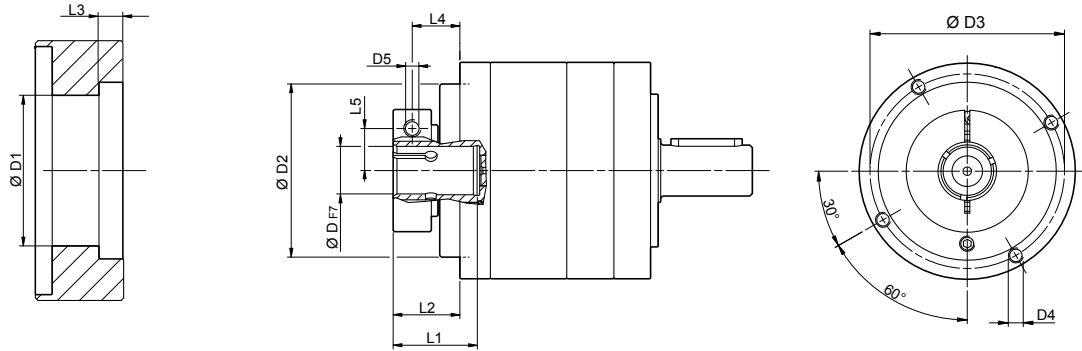


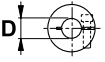
	D											N	N1	N2	N3	N4	N5	L _{max}
	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	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	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	70	85	80	4	M6x20	34	40
70AH1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	70	85	90	4	6.5	34	40
70B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	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	80	100	90	4	M6x16	34	40
95A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	115	100	4	M8x20	34	40
95B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	130	115	4	M8x20	34	40
110A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	130	115	4	M8x20	34	40
110B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	44	50
110B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	54	60

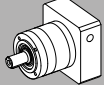
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MPE 080

FM



				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

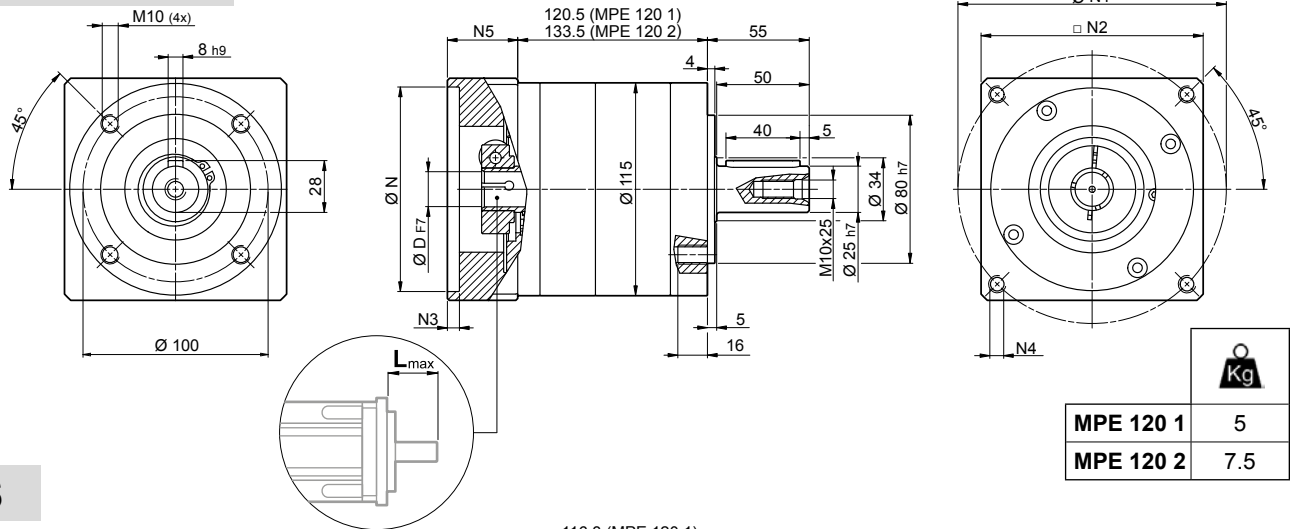
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[rpm]	[rpm]	[arcmin]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	[N]	%	8 ... 12.7	14 ... 19.05
MPE 080 1_3		65	120	150	3500	4000	10'	5'	12	400	900	1200	97	0.50	0.59
MPE 080 1_4		60	110	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	4000	12'	7'	12	400	900	1200	94	0.49	0.58
MPE 080 2_12		65	120	160	3500	4000	12'	7'	12	400	900	1200	94	0.47	0.56
MPE 080 2_15		65	120	160	3500	4000	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

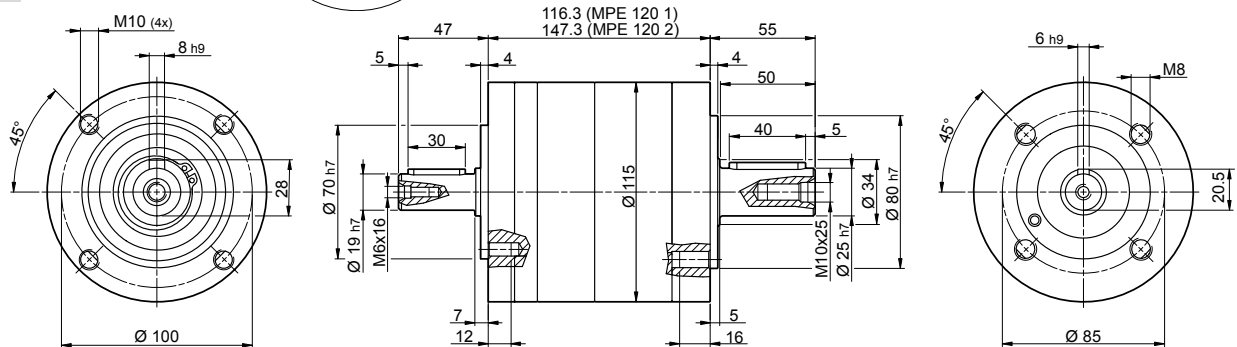


MPE 120

50D ... 130A1



IS



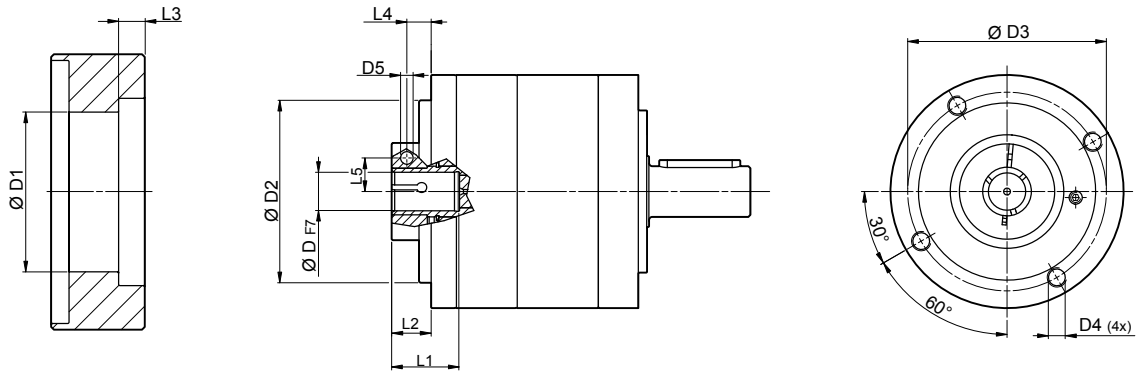
	D												N	N1	N2	N3	N4	N5	L _{max}
	11	12	12.7	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	-	55	125.7	105	5	M6x16	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	6.5	M5x14	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	4	6.5	33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

MPE

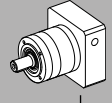


MPE 120

FM



				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}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[rpm]	[rpm]	[arcmin]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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

MPE

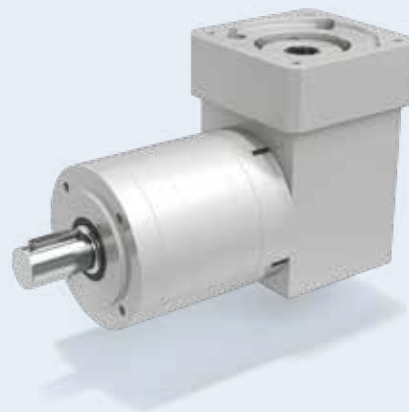


RIDUTTORI EPICICLOIDALI DI PRECISIONE AD ANGOLO RETTO

(E)

Serie MPEK

La serie MPEK offre prestazioni e precisione di posizionamento di livello medio a un rapporto qualità-prezzo competitivo. Il design lato uscita conforme agli standard di mercato garantisce un'elevata compatibilità per retrofit agevoli e un'ampia libertà nello sviluppo dei progetti. Il suo design ad angolo retto consente un ingombro ridotto, ideale per layout compatti.



VANTAGGI PRINCIPALI

- Ottimo rapporto qualità-prezzo
- Elevata compatibilità per retrofit più semplici
- Adatta a molteplici applicazioni grazie all'elevata flessibilità del design
- Design compatto per layout a ingombro ridotto

OPZIONI PRINCIPALI

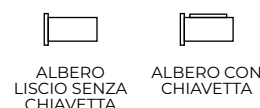
Versioni ingresso



Lubrificazione



Versioni alberi lenti



DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾ [Nm]	Intervallo del rapporto di riduzione i	Gioco torsionale ⁽¹⁾		Rigidità torsionale [Nm/arcmin]	Momento max di ribaltamento [Nm]
			Ridotto	Standard		
060	30	3-100	7	12	2,5	18
080	65	3-100	7	12	11	49
120	155	3-100	7	12	23,4	129

1) Valore migliore disponibile per ciascuna taglia.

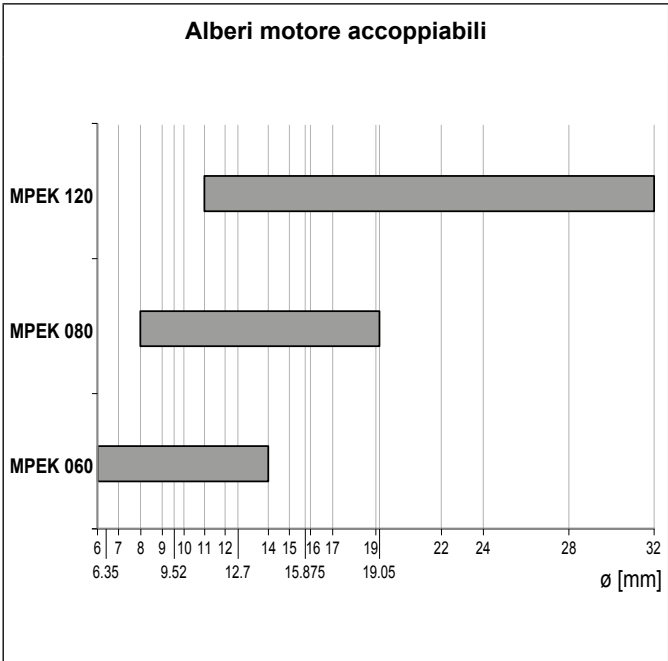
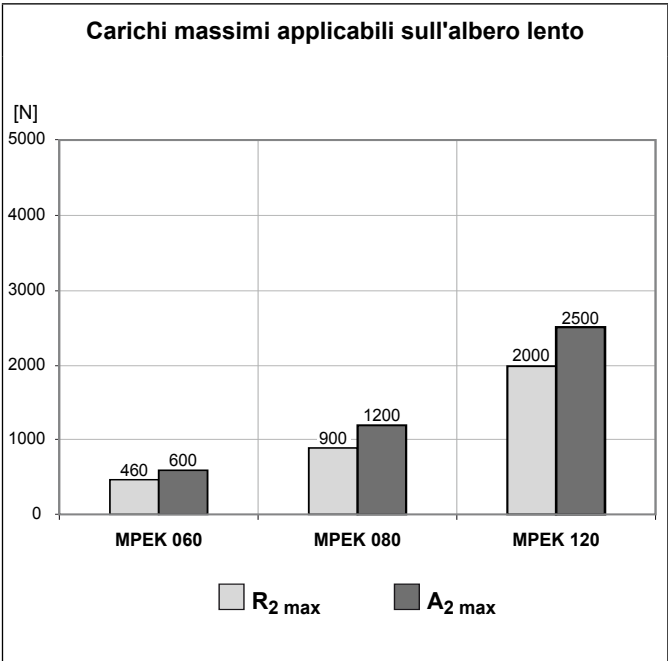
MPEK

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 $LP \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico una velocità di ingresso di $n_1 = 3000 \text{ min}^{-1}$; $i=10$.
- 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 $+30^\circ\text{C}$. Per temperature superiori a 30°C considerare il fattore di declassamento f_T .
- La temperatura dell'alloggiamento non deve superare $T_{\text{max}} = 90^\circ\text{C}$.

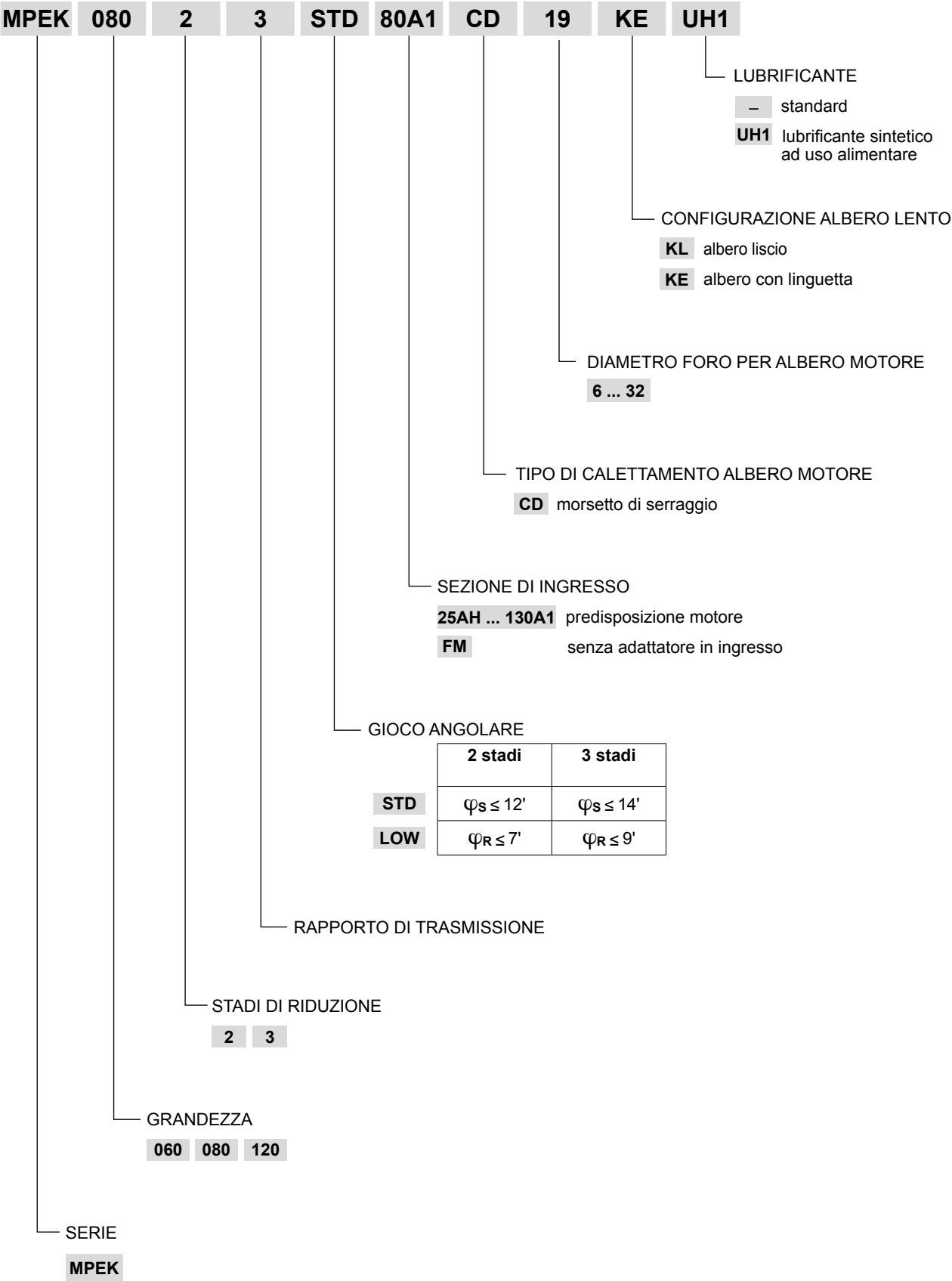
Distribuzione di coppia nominale M _{n2} [Nm]																		
[i]	3	4	5	7	9	10	12	15	16	20	25	8	30	35	40	50	70	100
MPEK 060	29	30	25	25	29	18	29	29	30	30	30	30	29	30	30	30	30	18
MPEK 080	40	50	50	50	65	40	65	65	60	60	50	50	65	50	60	50	50	40
MPEK 120	80	105	130	125	155	100	155	155	155	155	125	125	155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



* non disponibile per taglia 60



13.1 CODICE ORDINATIVO

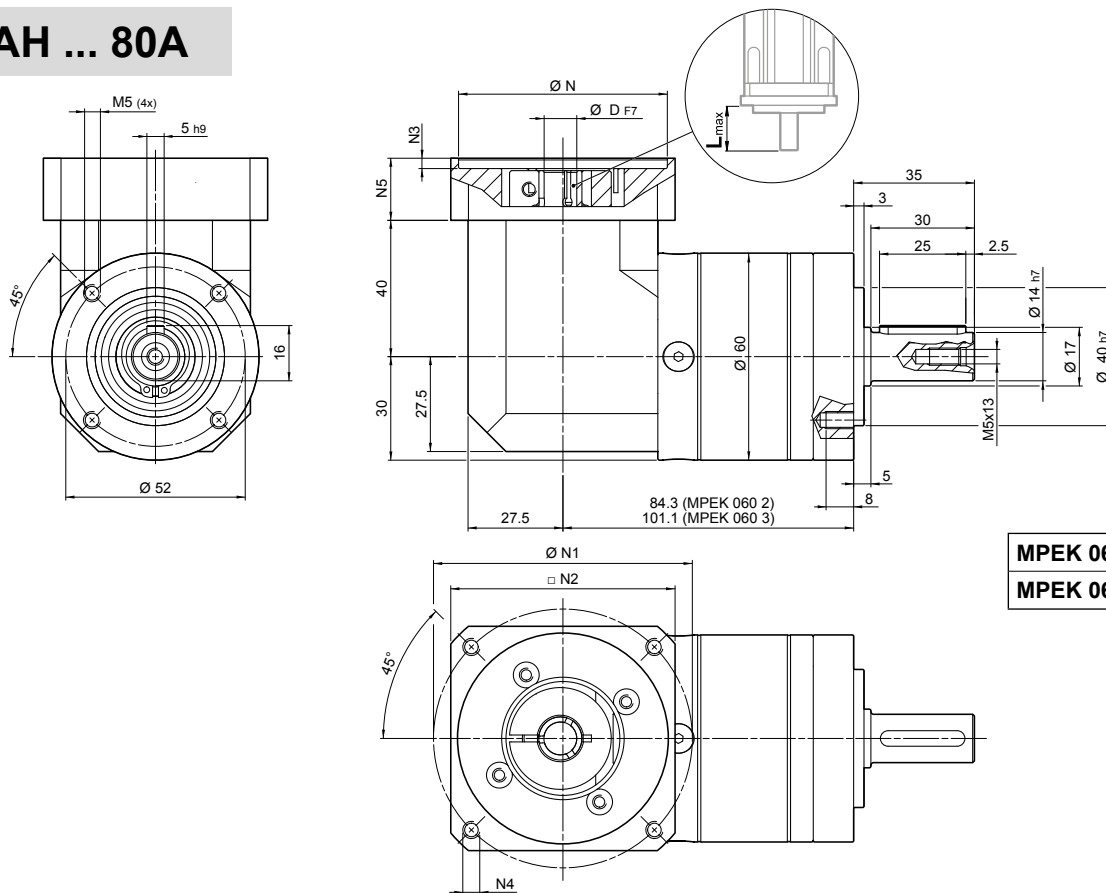


MPEK

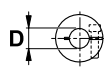


MPEK 060

25AH ... 80A



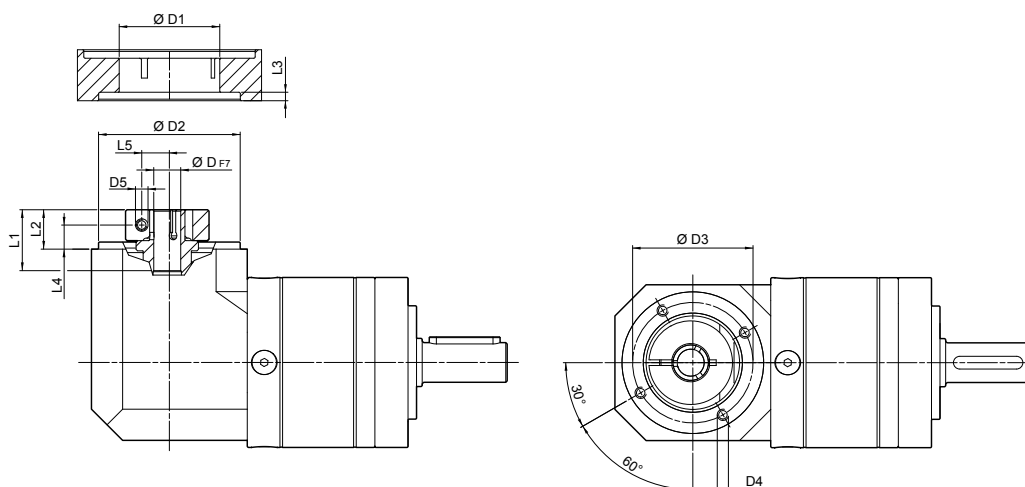
	 Kg
MPEK 060 2	1.7
MPEK 060 3	2.2

												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	–	–	–	–	–	25	39	56	65	3.5	4.5	25	25
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					
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

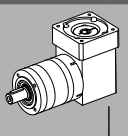
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MPEK 060

FM



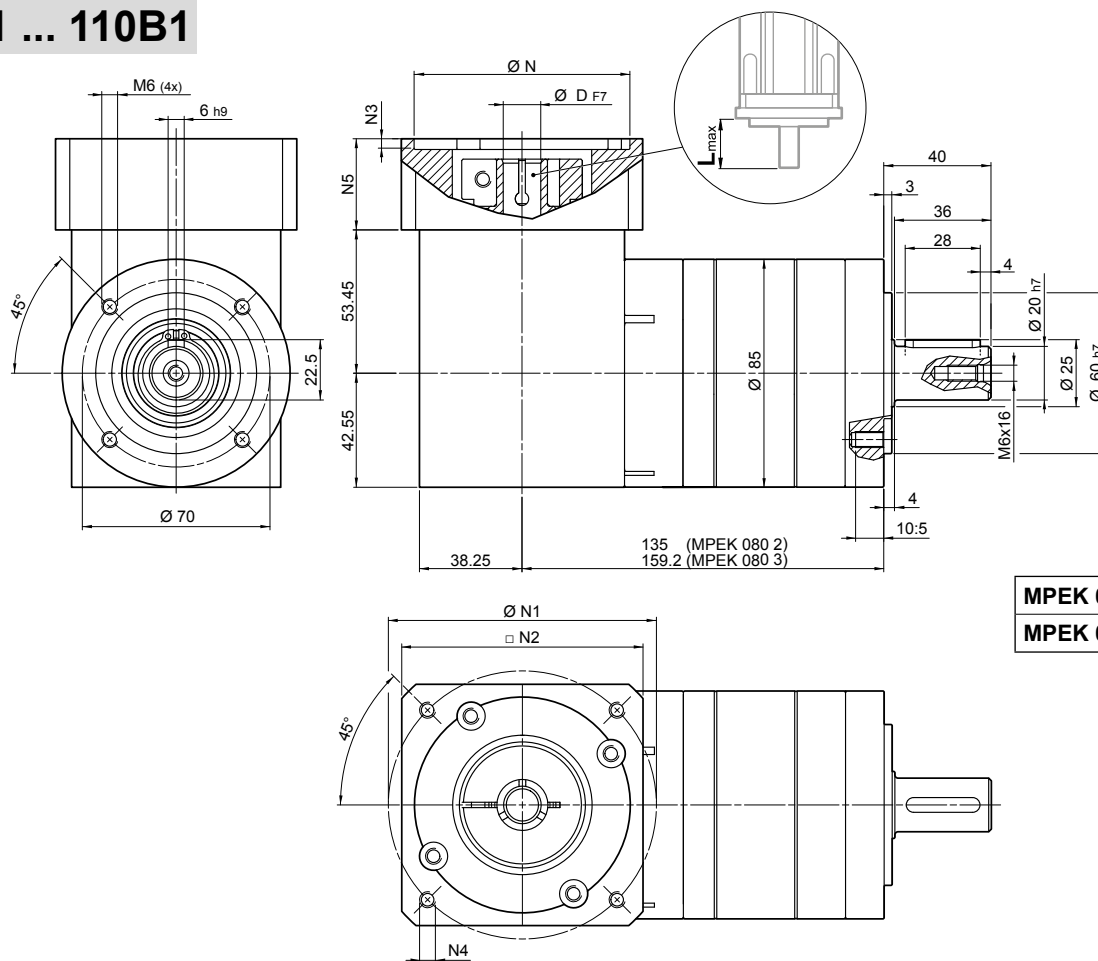
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[rpm]	[rpm]	[arcmin]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	[N]	%	6 ... 10	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

MPEK 080

40B1 ... 110B1



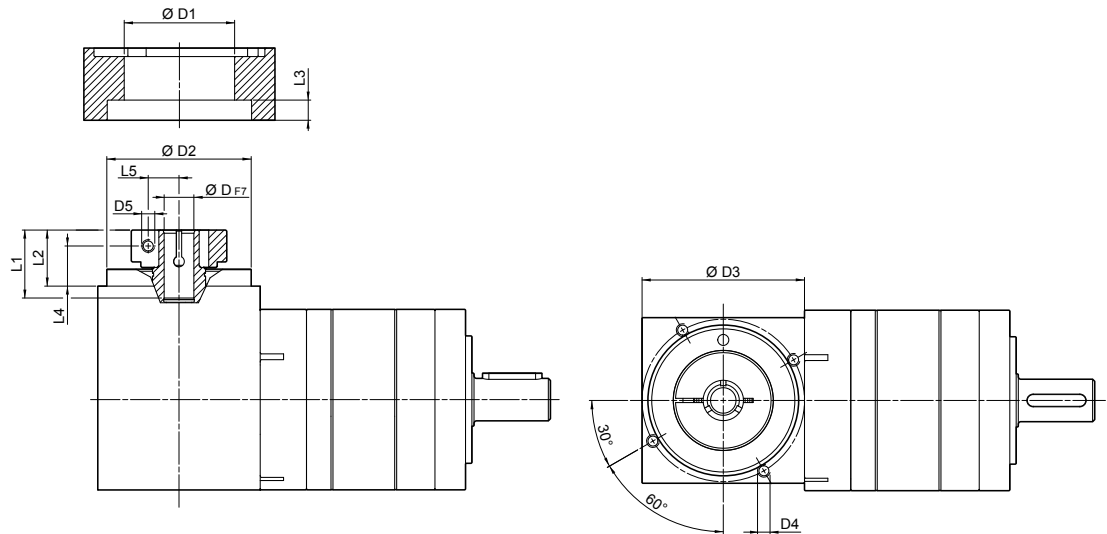
MPEK 080 2	4.7
MPEK 080 3	5.4

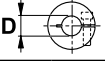
												N	N1	N2	N3	N4	N5	L _{max}
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	70	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	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	70	85	80	4	M6x20	34	40
70AH1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	70	85	90	4	6.5	34	40
70B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	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	80	100	90	4	M6x16	34	40
95A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	115	100	4	M8x20	34	40
95B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	130	115	4	M8x20	34	40
110A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	130	115	4	M8x20	34	40
110B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	44	50
110B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	54	60

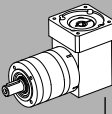
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

MPEK 080

FM



				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

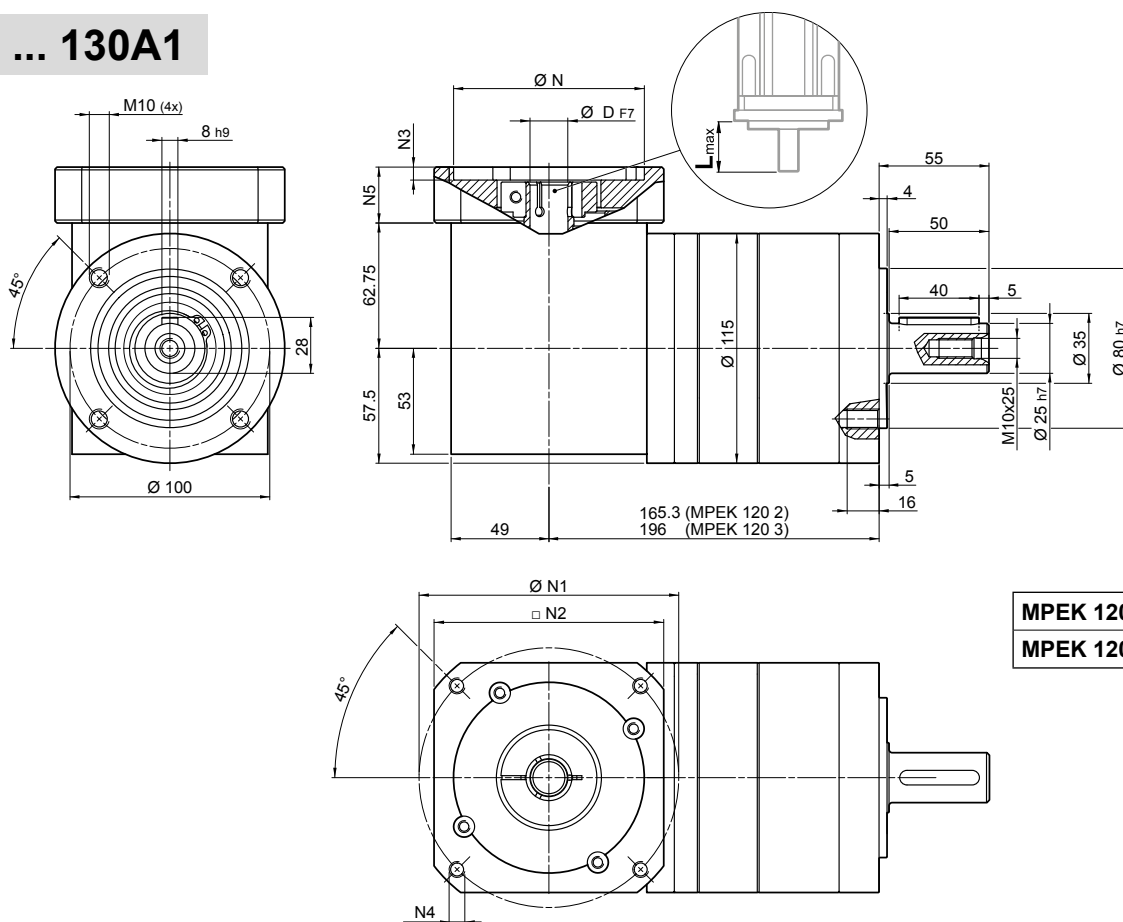
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[rpm]	[rpm]	[arcmin]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	[N]	%	8 ... 12.7	14 ... 19.05
MPEK 080 2_3		40	60	150	2900	3500	12'	7'	11	400	900	1200	94	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

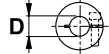


MPEK 120

50D ... 130A1



MPEK 120 2	7
MPEK 120 3	9.5

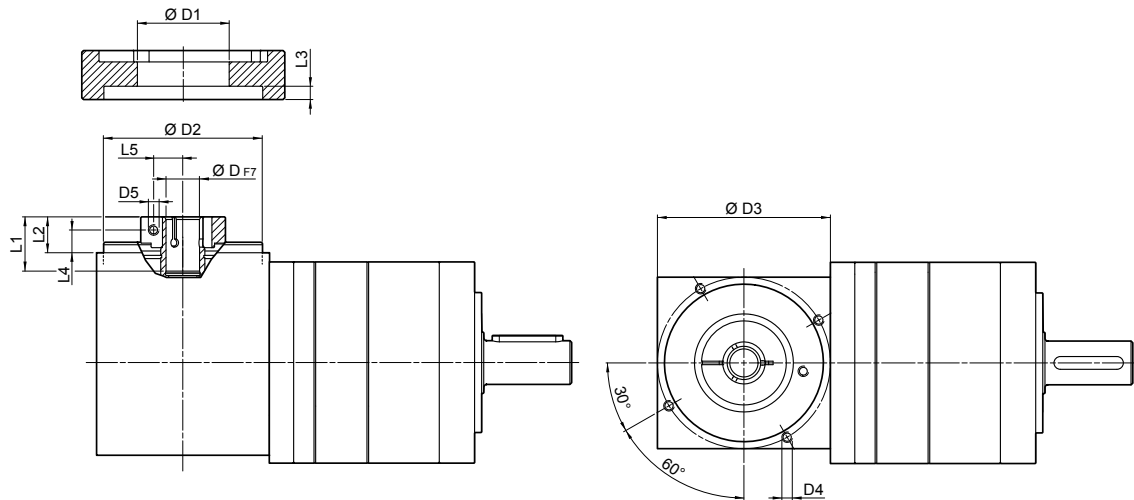
													N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	–	–	–	–	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	–	–	–	–	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	–	–	–	–	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	–	–	–	–	60	75	100	4	6.5	33	40
60B1	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.

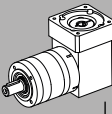


MPEK 120

FM



				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 _{1 N}	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	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
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

MPEK

RIDUTTORI EPICICLOIDALI DI PRECISIONE AD ANGOLO RETTO

Serie KR

La serie KR offre la massima flessibilità per applicazioni che richiedono una soluzione ad angolo retto in spazi assiali ridotti, con un livello di precisione medio. È disponibile con rapporti di riduzione 1:1, 1:2 e 1:5. La serie KR può essere adattata a qualsiasi esigenza di installazione grazie alla vasta gamma di opzioni disponibili, come albero pieno o cavo, estensione singola o doppia dell'albero, versione con calettatore e con o senza flangia di uscita.



VANTAGGI PRINCIPALI

- Soluzione ideale per layout macchina compatti che richiedono rapporti di riduzione bassi e precisione medio-alta
- Elevata adattabilità alle diverse esigenze di installazione grazie all'ampia varietà di configurazioni in uscita
- Le applicazioni dinamiche possono beneficiare dell'opzione con cuscinetti rinforzati e del design mirato per servizio continuo o intermittente
- Adatta a diversi ambienti grazie al suo grado di protezione IP65

OPZIONI PRINCIPALI

Versioni ingresso		Tipo di servizio		Lubrificazione	
					
PREDISPOSIZIONE MOTORE	SENZA PREDISPOSIZIONE MOTORE	S1	S5	STANDARD	PER USO ALIMENTARE
Versioni alberi lenti		Versioni cuscinetti		Flangia di uscita	
					
ALBERO LISCIO SENZA CHIAVETTA	ALBERO CAVO (con chiave, con calettatore o scanalato)	STANDARD	RINFORZATA	SENZA FLANGIA (fori filettati)	FLANGIA (fori passanti)

DATI TECNICI

Dimensioni	Coppia nominale ⁽¹⁾	Intervallo del rapporto di riduzione	Gioco torsionale ⁽¹⁾	Rigidità torsionale	Carico radiale max
	[Nm]	i	Standard	[Nm/arcmin]	[N]
010	10	1-2-5	8	0,5	1000
020	24	1-2-5	8	1,4	3000 ⁽²⁾
030	55	1-2-5	8	4	4000 ⁽²⁾
040	120	1-2-5	8	11	5500 ⁽²⁾

1) Valore migliore disponibile per ciascuna taglia

2) Valido per la versione "Cuscinetti rinforzati"

14 CARATTERISTICHE DELLA SERIE KR

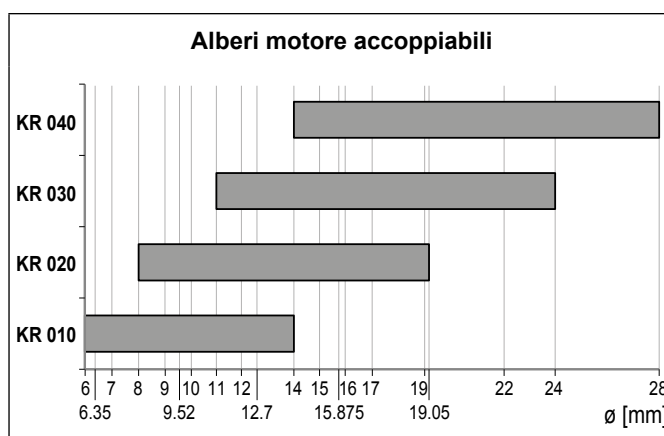
I rinvii angolari della serie KR sono realizzati sotto le più stringenti specifiche di qualità e sono progettati per le applicazioni dinamiche e precise dove il peso e l'ingombro sono fattori determinanti. L'installazione è facilitata dalle molte opzioni offerte dal catalogo per quanto riguarda le flange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

- Disponibile in un'unica classe di gioco angolare ($\Psi_S \leq 8'$)
- 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 $n_1=3000 \text{ min}^{-1}$; $i=10$.
- 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

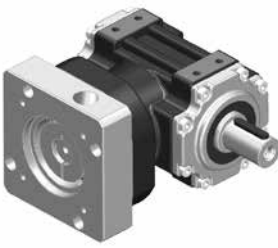
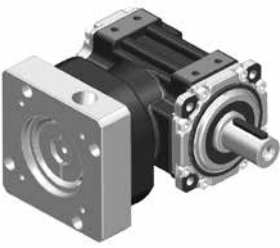
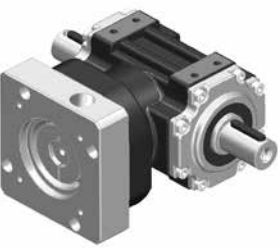
- Temperatura ambiente min -20°C , max $+30^\circ\text{C}$. Per temperature superiori a 30°C deve essere considerato il fattore termico f_T .
- La temperatura sulla cassa non deve superare $T_{\max} = 90^\circ\text{C}$.

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

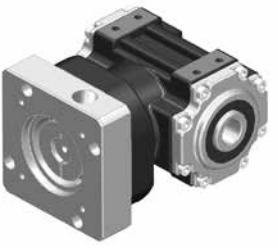
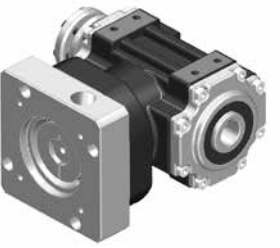


14.1 VERSIONI

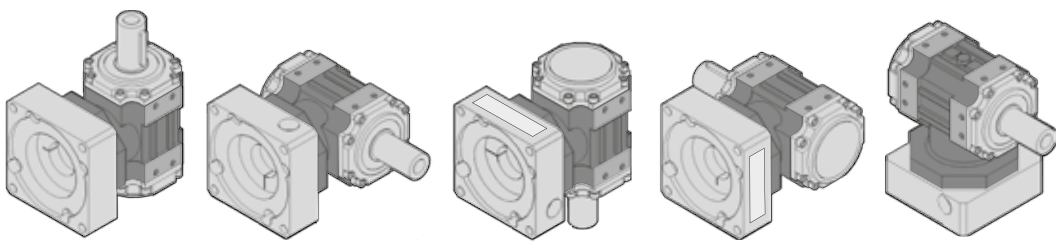
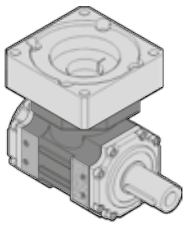
Albero pieno

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

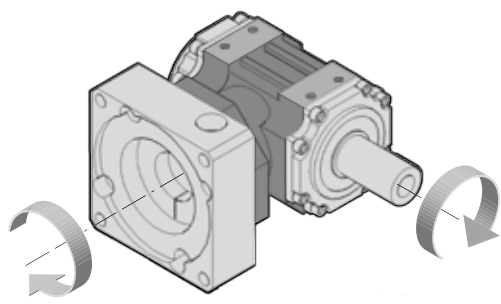
Albero cavo

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

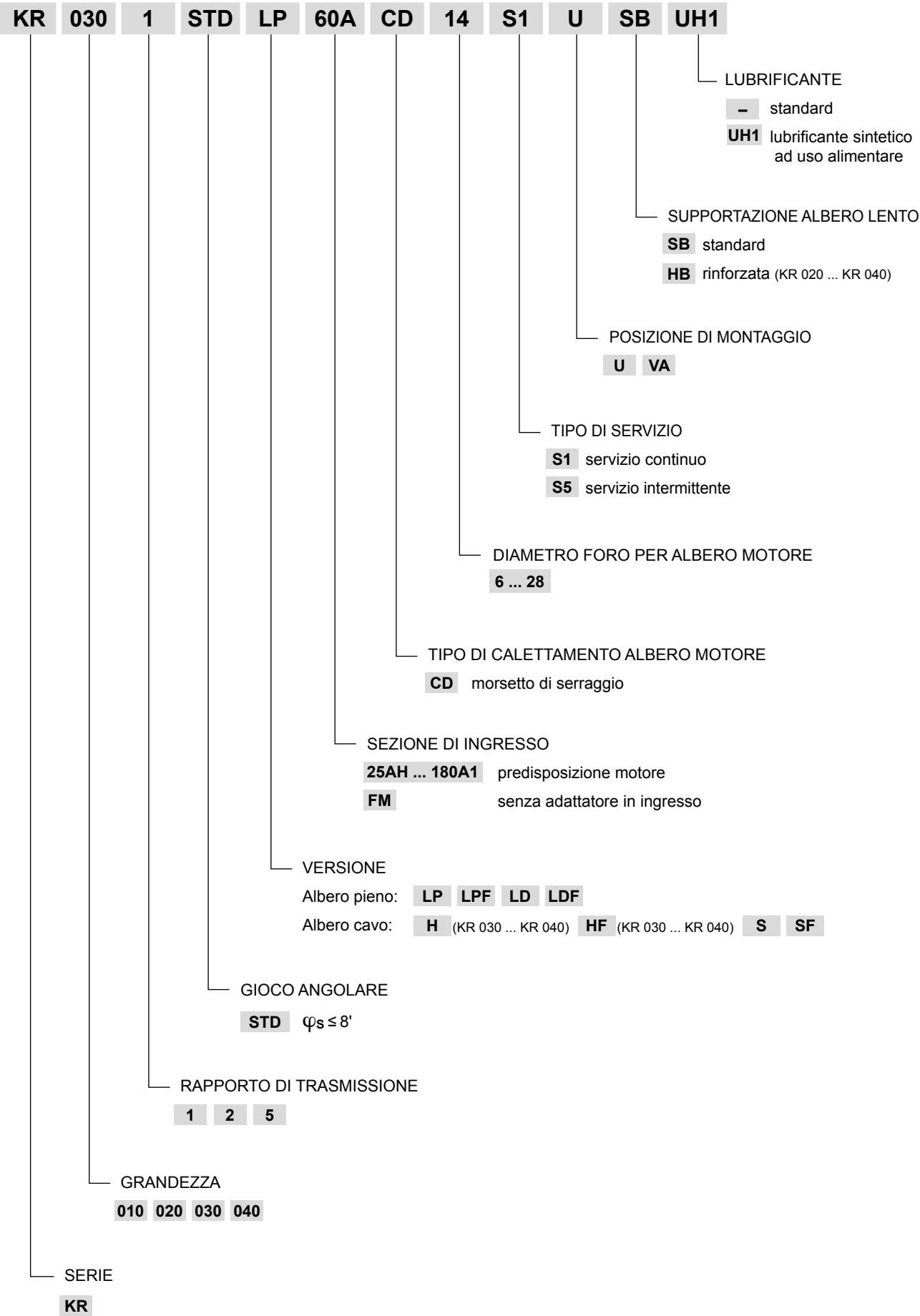
14.2 POSIZIONI DI MONTAGGIO

U	VA
	

14.3 ROTAZIONE DEGLI ALBERI D'INGRESSO E DI USCITA CONCORDE



14.4 CODICE ORDINATIVO



14.5 DATI TECNICI

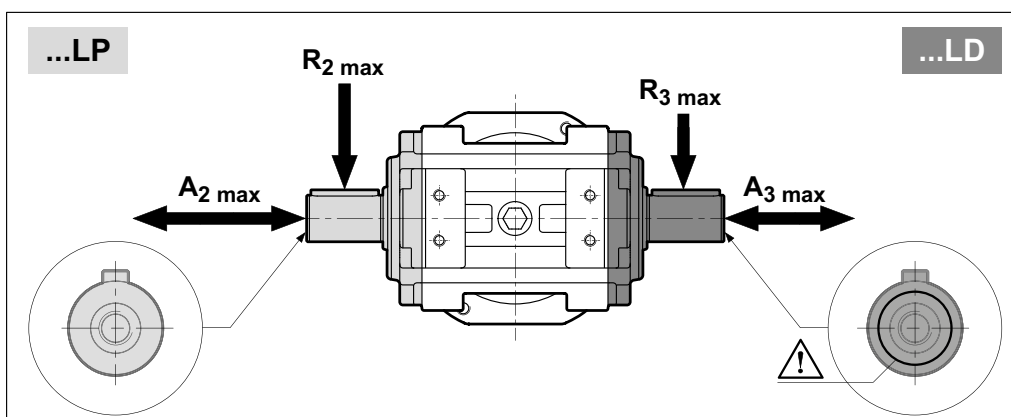
KR 010								
	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	C_t [$\frac{Nm}{arcmin}$]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_s [arcmin]	η %
i = 1	10	14	20	0.5	2000	4000	8'	97
i = 2	7	10	15	0.4	2500	5000		
i = 5	3	4	6	0.2	3000	5000		

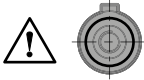
KR 020								
	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	C_t [$\frac{Nm}{arcmin}$]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_s [arcmin]	η %
i = 1	24	35	50	1.4	2000	4000	8'	97
i = 2	15	21	30	1.1	2500	5000		
i = 5	10	13	20	0.7	3000	5000		

KR 030								
	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	C_t [$\frac{Nm}{arcmin}$]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_s [arcmin]	η %
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_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	C_t [$\frac{Nm}{arcmin}$]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_s [arcmin]	η %
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 rigidità torsionale si riferiscono alla versione LP



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

14.6 MOMENTO D'INERZIA

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

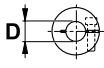
KR 010			
		J_G [kgcm ²]	
			
		$6 \leq D \leq 9.52$	$10 \leq D \leq 14$
$i = 1$	S, SF	0.52	0.52
	LP, LPF	0.38	0.38
	LD, LDF	0.39	0.39
$i = 2$	S, SF	0.27	0.29
	LP, LPF	0.24	0.25
	LD, LDF	0.24	0.25
$i = 5$	S, SF	0.20	0.21
	LP, LPF	0.19	0.21
	LD, LDF	0.19	0.21

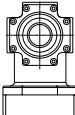
KR 020			
		J_G [kgcm ²]	
			
		$8 \leq D \leq 12.7$	$14 \leq D \leq 19.05$
$i = 1$	S, SF	1.61	1.80
	LP, LPF	1.34	1.52
	LD, LDF	1.37	1.55
$i = 2$	S, SF	0.86	1.05
	LP, LPF	0.80	0.98
	LD, LDF	0.80	0.99
$i = 5$	S, SF	0.66	0.84
	LP, LPF	0.64	0.83
	LD, LDF	0.65	0.83

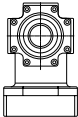
KR 030				
		J_G [kgcm ²]		
				
		$11 \leq D \leq 12.7$	$14 \leq D \leq 19$	$22 \leq D \leq 24$
$i = 1$	H, HF	4.37	4.45	4.64
	S, SF	5.00	5.08	5.27
	LP, LPF	4.70	4.78	4.97
	LD, LDF	4.63	4.71	4.90
$i = 2$	H, HF	2.04	2.12	2.31
	S, SF	2.20	2.28	2.47
	LP, LPF	2.12	2.20	2.39
	LD, LDF	2.11	2.19	2.37
$i = 5$	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			
		J_G [kgcm ²]	
			
		$14 \leq D \leq 19$	$22 \leq D \leq 24$
$i = 1$	H, HF	17.19	17.37
	S, SF	20.46	20.65
	LP, LPF	18.21	18.40
	LD, LDF	18.90	19.08
$i = 2$	H, HF	4.47	4.65
	S, SF	5.29	5.47
	LP, LPF	4.73	4.91
	LD, LDF	4.90	5.08
$i = 5$	H, HF	5.23	5.42
	S, SF	5.36	5.55
	LP, LPF	5.27	5.46
	LD, LDF	5.30	5.49

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

KR 020			
		J_G [kgcm ²]	
			
HB 		$8 \leq D \leq 12.7$	$14 \leq D \leq 19.05$
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

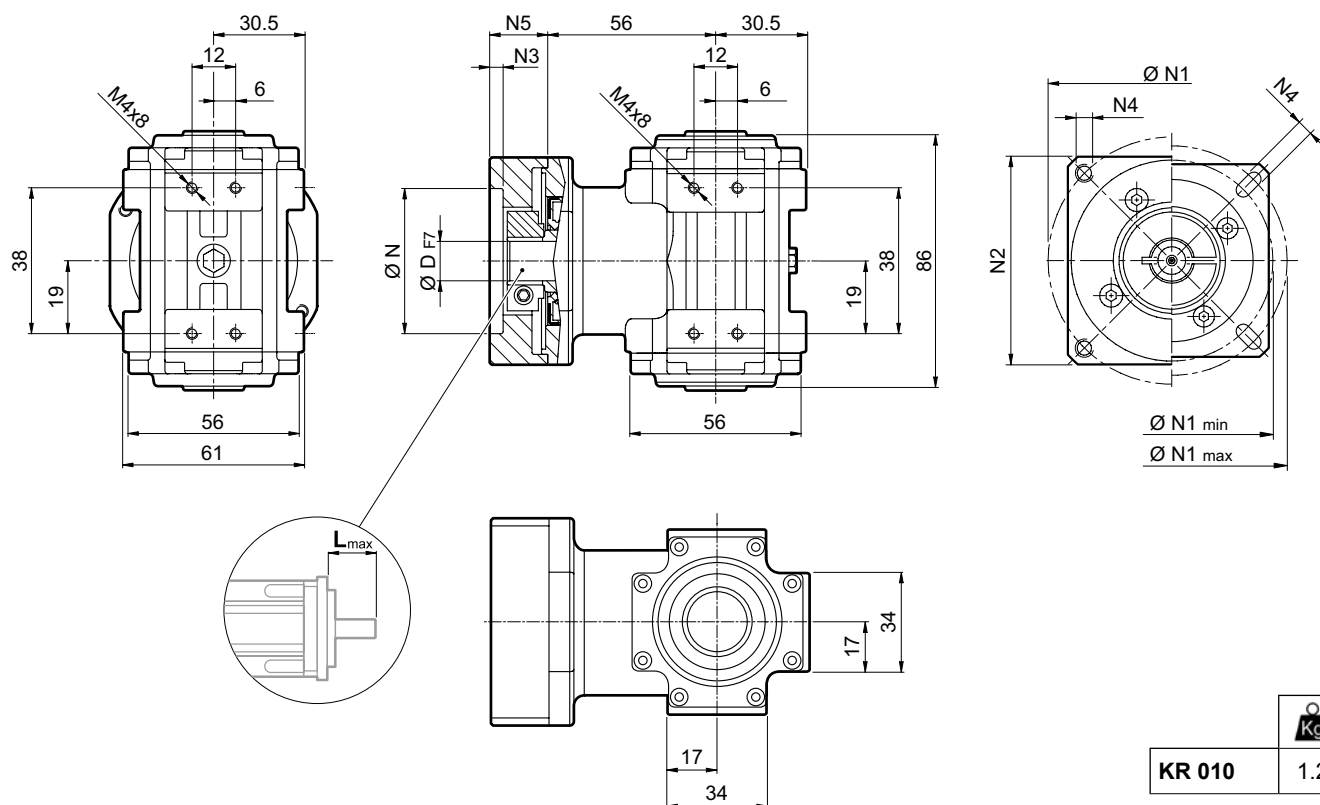
KR 030				
		J_G [kgcm ²]		
 		$11 \leq D \leq 12.7$	$14 \leq D \leq 19$	$22 \leq D \leq 24$
i = 1	H, HF	5.48	5.56	5.75
	S, SF	6.11	6.19	6.38
	LP, LPF	5.81	5.89	6.08
	LD, LDF	5.74	5.82	6.01
i = 2	H, HF	2.92	3.00	3.19
	S, SF	3.08	3.16	3.35
	LP, LPF	3.01	3.09	3.27
	LD, LDF	2.99	3.07	3.26
i = 5	H, HF	1.51	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		$14 \leq D \leq 19$	$22 \leq D \leq 24$	$D = 28$
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

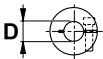
25AH ... 80A



KR 010



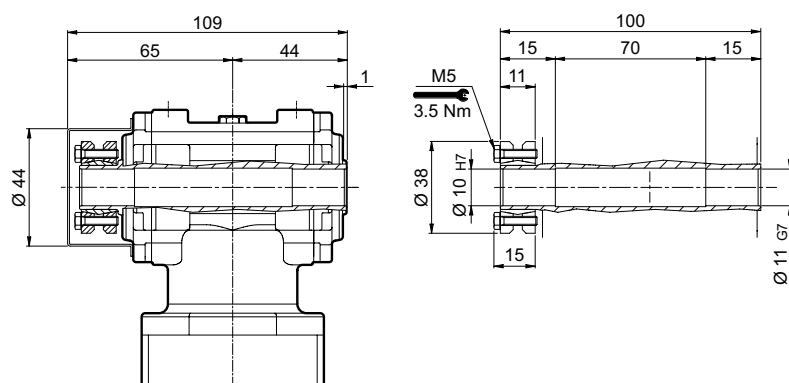
1.2

												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
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					
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	

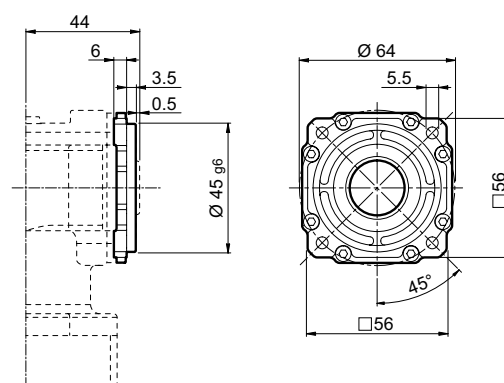
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

KR 010

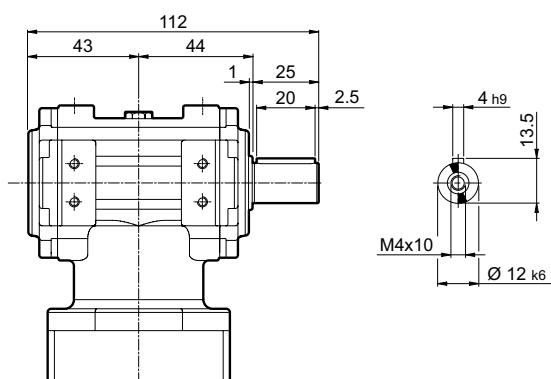
KR 010... S



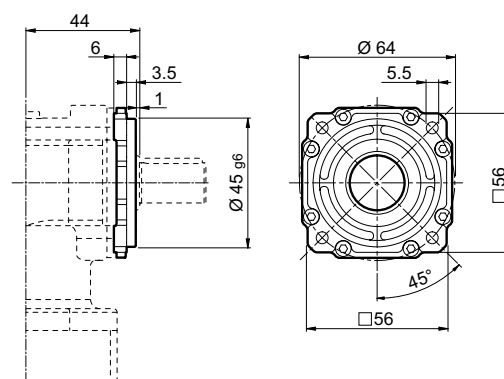
KR 010... SF



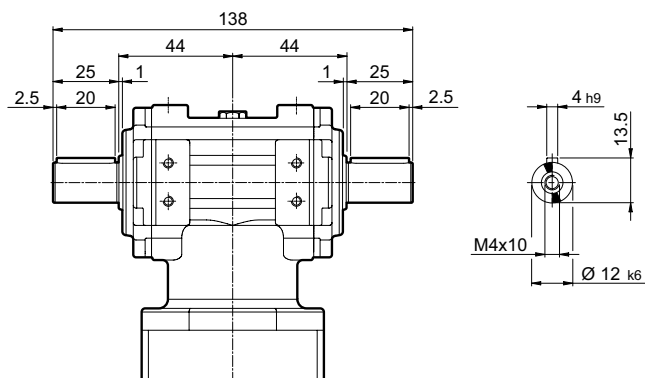
KR 010... LP



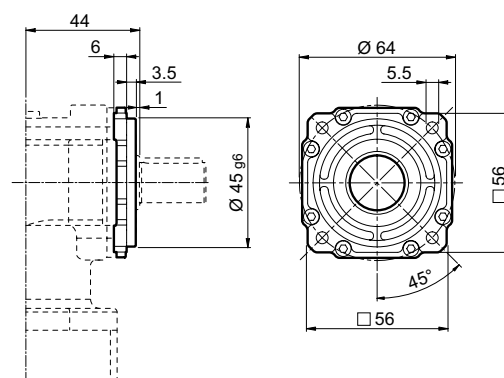
KR 010... LPF



KR 010... LD

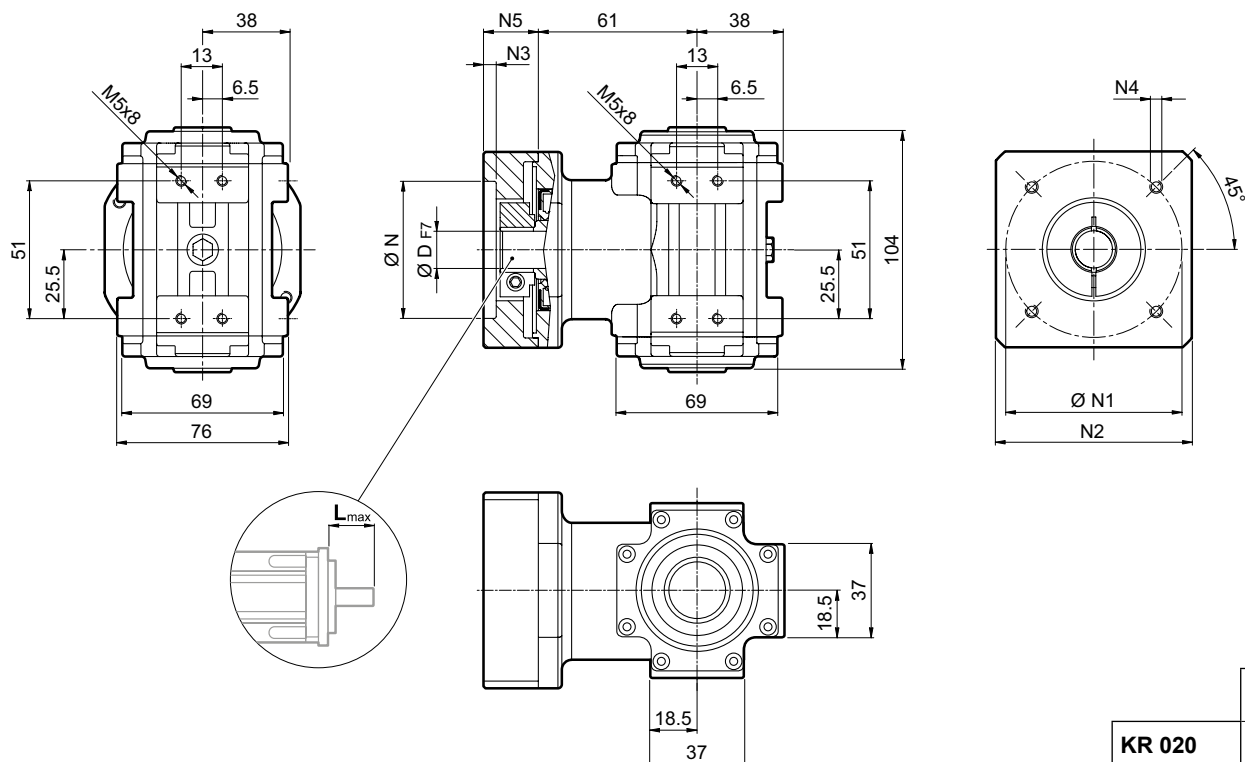


KR 010... LDF



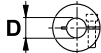
KR 020

40B1 ... 110B1



KR 020

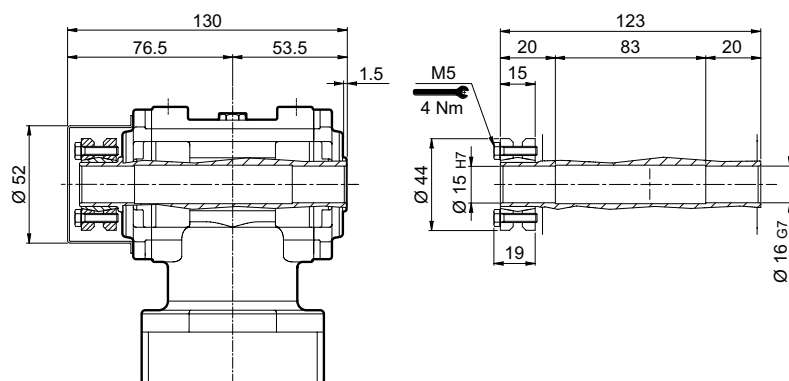


	 											N	N1	N2	N3	N4	N5	L _{max}
40B1	8	9	9.52	11	12	12.7	14	—	—	—	—	40	63	80	4	M4x10	34	40
45A	8	9	9.52	11	12	12.7	—	—	—	—	—	45	63	80	4	M4x10	34	40
50B1	8	9	9.52	11	12	12.7	14	—	—	—	—	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	—	—	—	—	50	65	80	4	5.5	34	40
50C1	8	9	9.52	11	12	12.7	14	—	—	—	—	50	70	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	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	70	85	80	4	M6x20	34	40
70AH1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	70	85	90	4	6.5	34	40
70B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	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	80	100	90	4	M6x16	34	40
95A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	115	100	4	M8x20	34	40
95B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	95	130	115	4	M8x20	34	40
110A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	130	115	4	M8x20	34	40
110B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	44	50
110B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	110	145	120	6.5	M8x20	54	60

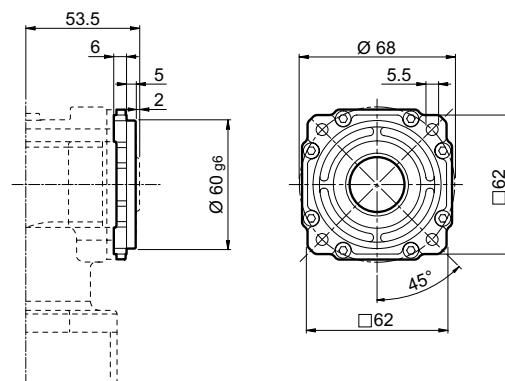
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

KR 020

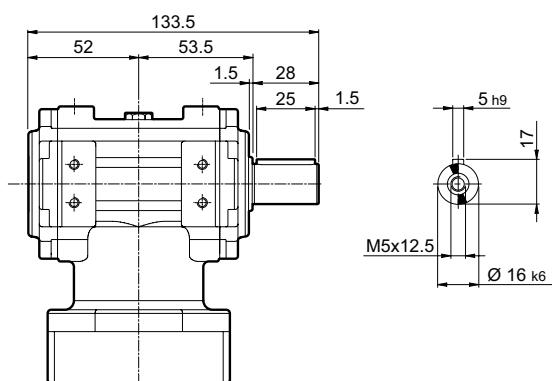
KR 020... S



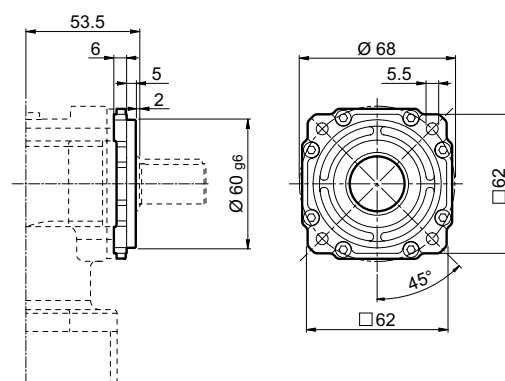
KR 020... SF



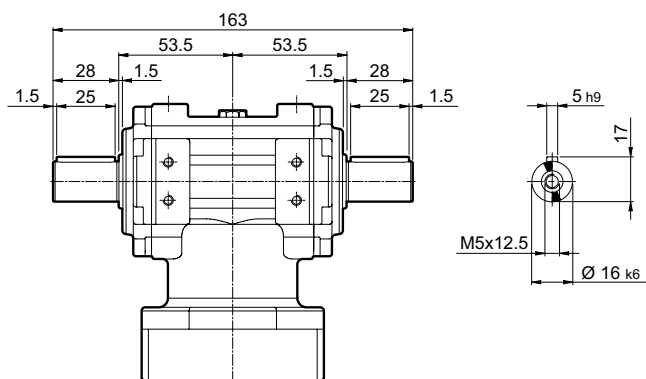
KR 020... LP



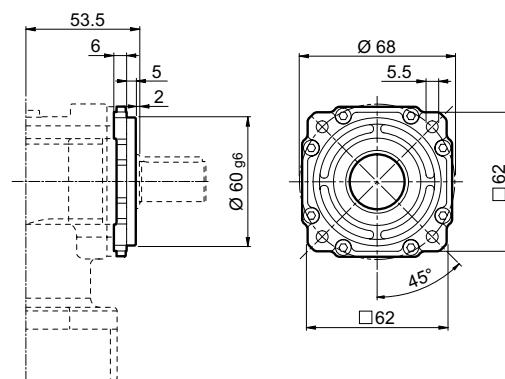
KR 020... LPF



KR 020... LD

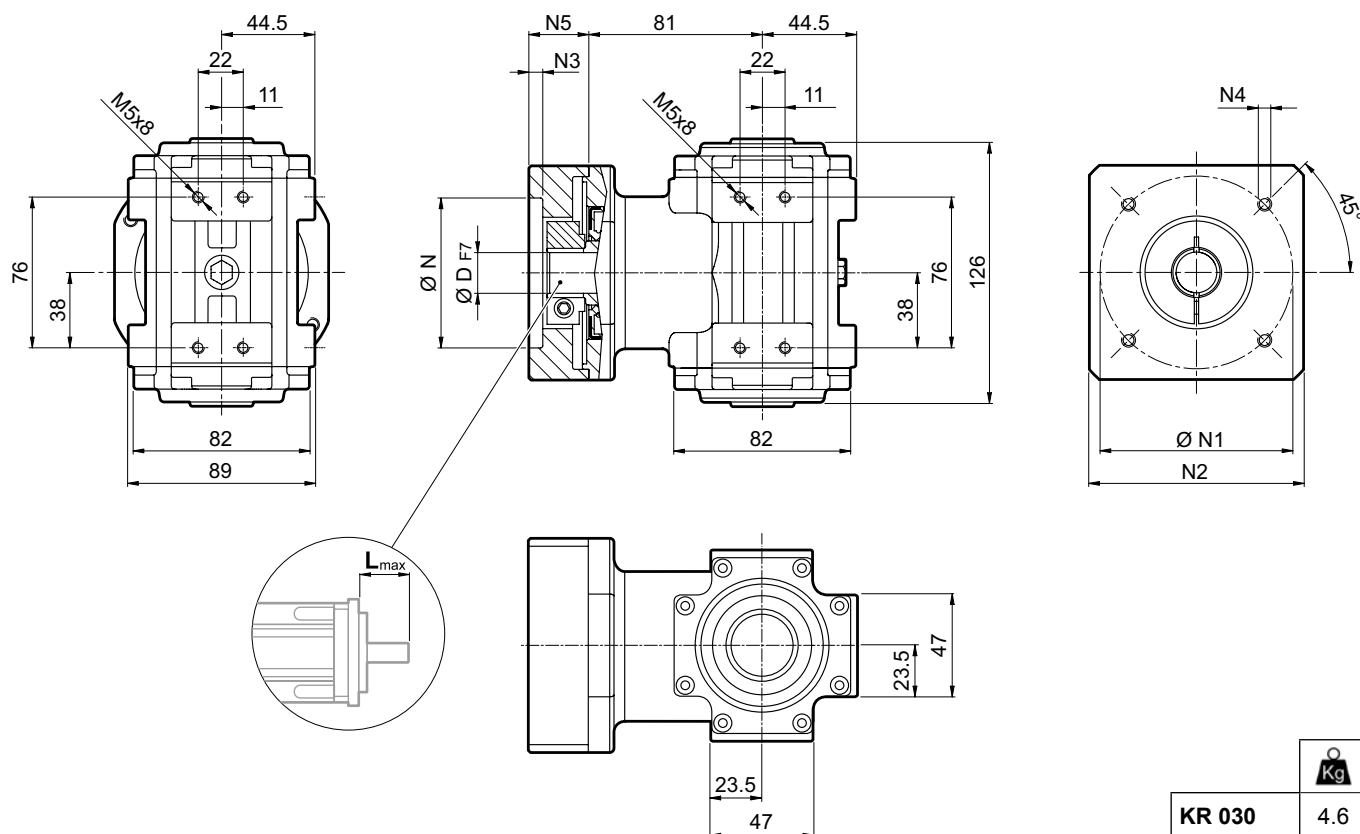


KR 020... LDF

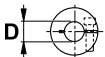


KR 030

50D ... 130A1



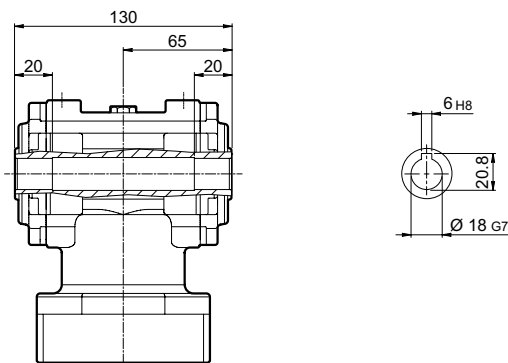
	
KR 030	4.6

											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

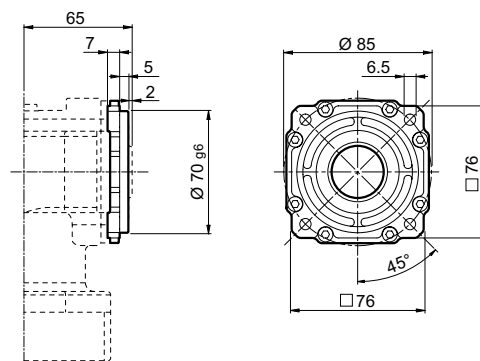
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

KR 030

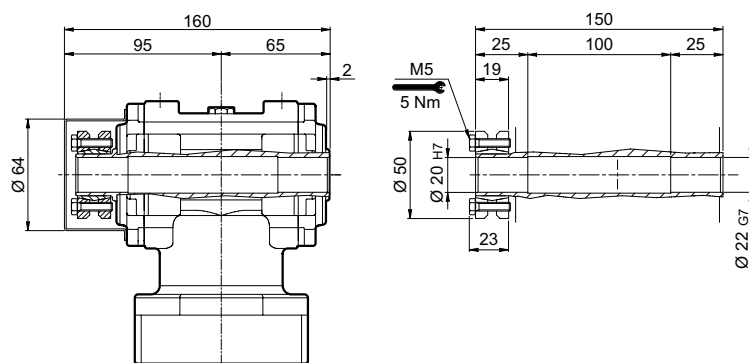
KR 030... H



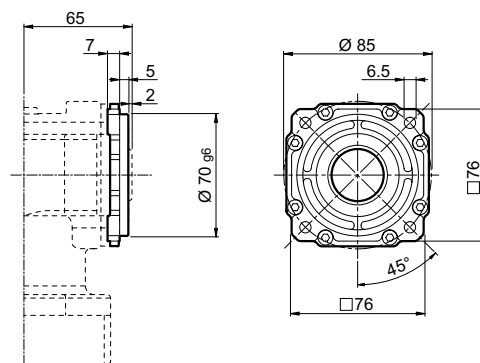
KR 030... HF



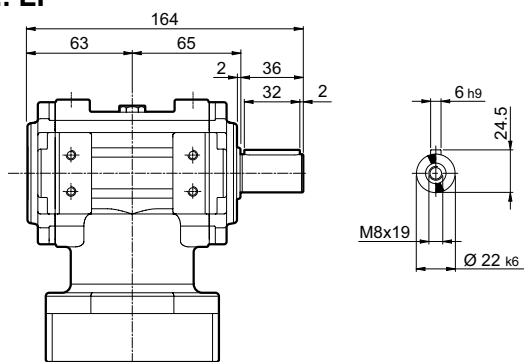
KR 030... S



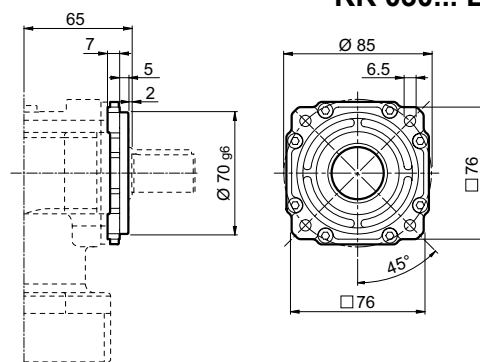
KR 030... SF



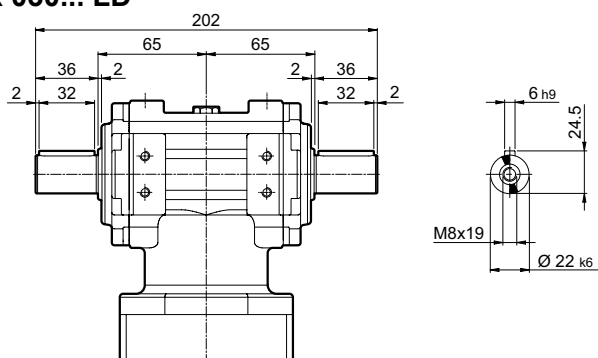
KR 030... LP



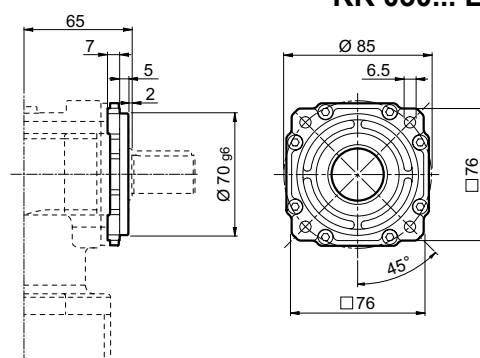
KR 030... LPF



KR 030... LD

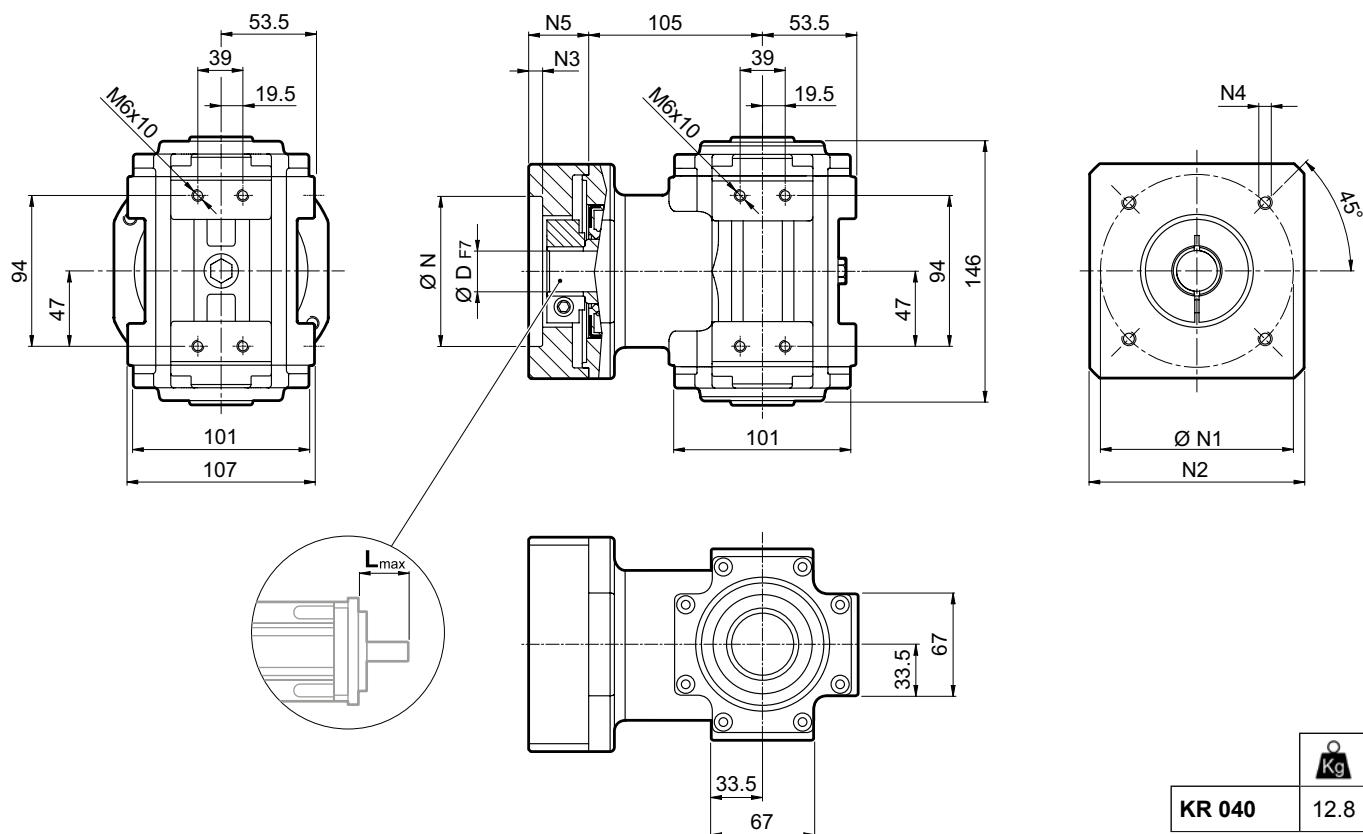


KR 030... LDF

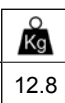


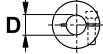
KR 040

55A1 ... 180A1



KR 040

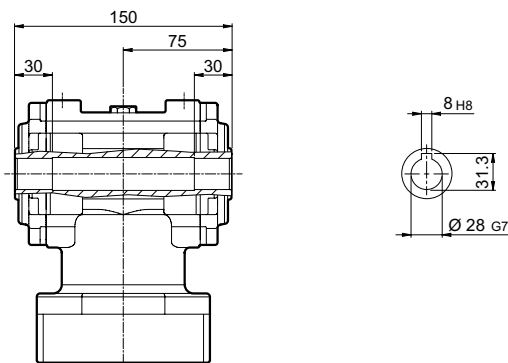


								N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24	—	110	145	130	6.5	M8x20	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

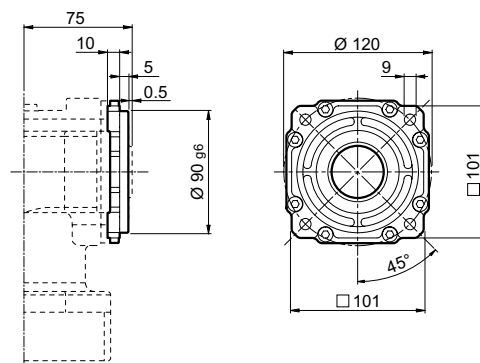
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

KR 040

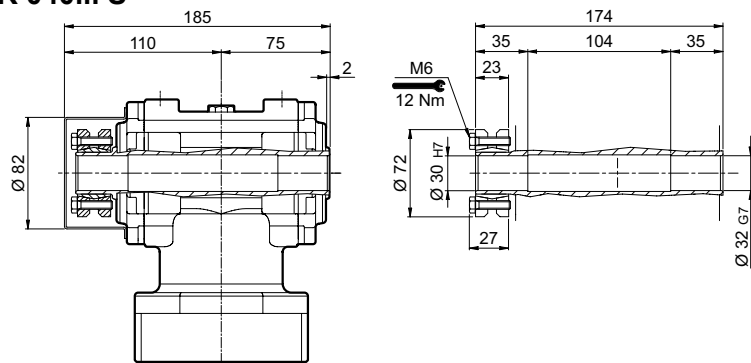
KR 040... H



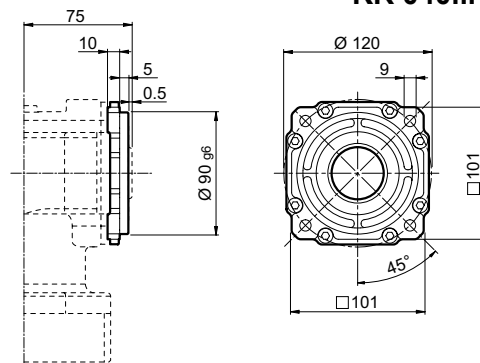
KR 040... HF



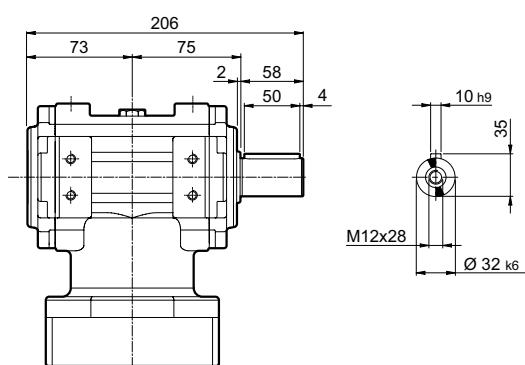
KR 040... S



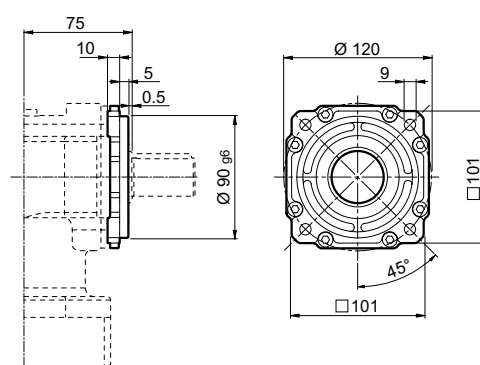
KR 040... SF



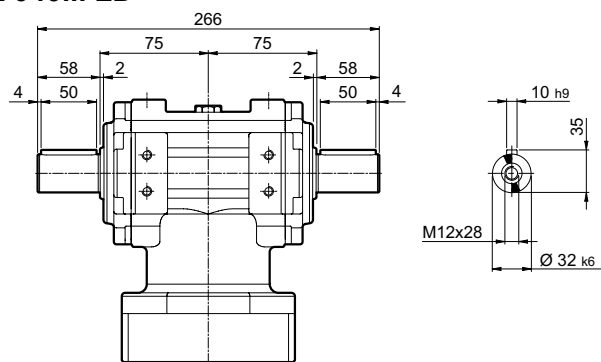
KR 040... LP



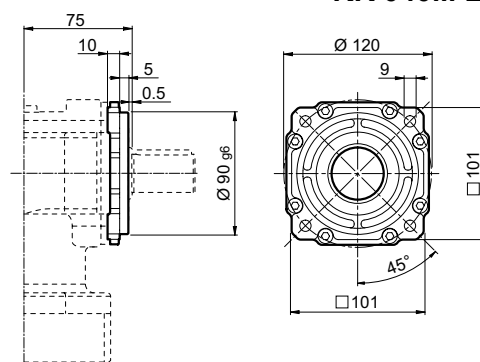
KR 040... LPF



KR 040... LD

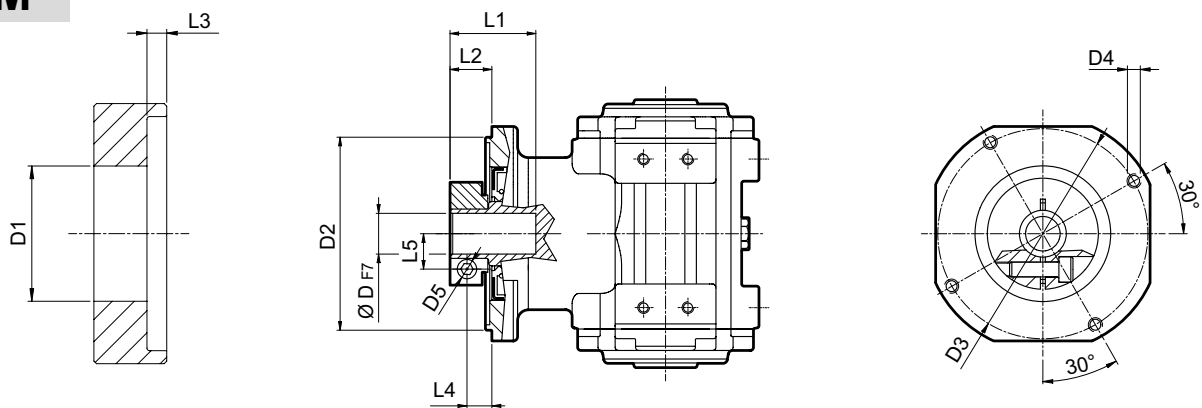


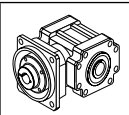
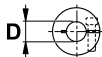
KR 040... LDF



14.7.1 RIDUTTORE PRIVO DI FLANGIA MOTORE

FM



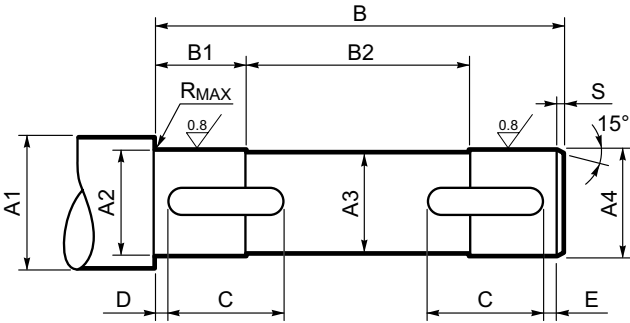
		D1	D2	D3	D4	D5	L1	L2	L3	L4	L5	
KR 010	6 6.35 7	32.5	50	42.5	M4x8	M4	28	13.5	3	8.5	8	1.0
	8 9 9.52 10	32.5	50	42.5	M4x8	M4	28	13.5	3	8.5	9	
	11 12 12.7	35.5	50	42.5	M4x8	M4	23	13.5	3	8.5	11	
	14	35.5	50	42.5	M4x8	M4	25	15.5	3	8.9	11.5	
KR 020	8 9 9.52	38	68	76.5	M6x10	M6	36.3	26.3	9.5	18.8	10.5	2.0
	11 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	

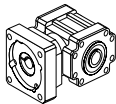


14.7.2 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE

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.

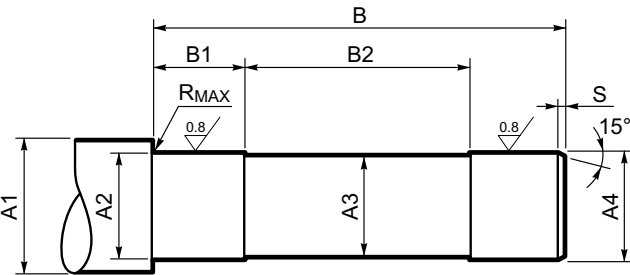
H

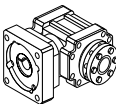


	A1	A2	A3	A4	B	B1	B2	C	D	E	R _{MAX}	 UNI 6604	S
KR 030	≥ 26	18 h7	17	18 h7	129	18	90	32	2	2	0.5	6x6x25 A	1
KR 040	≥ 36	28 h7	27	28 h7	149	28	90	50	2	2	0.5	8x7x35 A	

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	

KR

INDICE DI REVISIONE

	TI_CAT_TIR_STD_ITA_R07_0
	Descrizione
...	Modificati alcuni dati.

Questa pubblicazione annulla e sostituisce ogni precedente edizione o revisione. Ci riserviamo il diritto di apportare modifiche senza preavviso. È vietata la produzione anche parziale senza autorizzazione.



AUSTRALIA

Bonfiglioli Transmission (Aust.) Pty Ltd
2, Cox Place Glendenning NSW 2761
Locked Bag 1000 Plumpton NSW 2761
Tel. +61 2 8811 8000



BRASILE

Bonfiglioli Redutores do Brasil Ltda
Av. Osvaldo Fregonezi, 171, cjs 31 e 44
CEP 09851-015 - São Bernardo do Campo
São Paulo
Tel. +55 11 4344 2322



CINA

Bonfiglioli Drives (Shanghai) Co. Ltd.
#68, Hui-Lian Road, QingPu District,
201707 Shanghai
Tel. +86 21 6700 2000



Industry & Automation Solutions

#568, Longpan Road, Jiading District,
201707 Shanghai



Bonfiglioli Trading (Shanghai) Co. Ltd.

Room 423, 4th Floor, #38, Yinglun Road,
China (Shanghai) Pilot Free Trade Zone,
Shanghai



Selcom Electronics (Shanghai) Co., Ltd
A7, No.5399, Waiqingsong Road, QingPu
District,
201707 Shanghai
Tel. +86 21 6010 8100



A24, No.5399, Waiqingsong Road, QingPu
District,
201707 Shanghai
Tel. +86 21 6010 8100



FRANCIA

Bonfiglioli Transmission S.A.S.
14 Rue Eugène Pottier
Zone Industrielle de Moimont II
95670 Marly la Ville
Tel. +33 1 34474510



GERMANIA

Bonfiglioli Deutschland GmbH
Sperberweg 12 - 41468 Neuss
Tel. +49 0 2131 2988 0



Bonfiglioli Vectron GmbH

Europark Fichtenhain B6 - 47807 Krefeld
Tel. +49 0 2151 8396 0



O&K Antriebstechnik GmbH

Ruhrallee 8-12 - 45525 Hattingen
Tel. +49 0 2324 2050 1



INDIA

Bonfiglioli Transmission Pvt. Ltd.
Mobility & Wind Industries
AC 7 - 11, SIDCO Industrial Estate,
Thirumudivakkam
Kancheepuram - 600132 - Tamil Nadu
Tel. +91 844 844 8649



Industry & Automation Solutions

Survey No. 528/1, Perambakkam High Road
Mannur Village, Sriperumbudur Taluk
Kancheepuram - 602 105 - Tamil Nadu
Tel. +91 844 844 8649



Industry & Automation Solutions

Plot No E-5/2, Badhalwadi
Talegaon MIDC Phase II,
Pune - 410 507 - Maharashtra
Tel. +91 844 844 8649



Bonfiglioli Drive Systems Pvt. Ltd.

Industry & Automation Solutions

No 50, Pappambakkam Road,
Mannur Village, Sriperumbudur Taluk,
Kancheepuram - 602105 - Tamil Nadu
Tel. +91 844 844 8649



ITALIA

Bonfiglioli Riduttori S.p.A.
Industry & Automation Solutions
Via Cav. Clementino Bonfiglioli, 1
40012 Calderara di Reno
Tel. +39 051 6473111



Industry & Automation Solutions

Via Sandro Pertini, lotto 7b
20080 Carpiano
Tel. +39 02985081



Industry & Automation Solutions

Via Saliceto, 15 - 40010 Bentivoglio



Mobility & Wind Industries

Via Enrico Mattei, 12 Z.I. Villa Selva
47122 Forlì
Tel. +39 0543 789111



Industry & Automation Solutions

Via Unione, 49 - 38068 Rovereto
Tel. +39 0464 443435/36



Selcom Group S.p.A.

Via Achille Grandi, 5
40013 Castel Maggiore (BO)
Tel. +39 051 6387111



Via Marino Serenari, 18
40013 Castel Maggiore (BO)
Tel. +39 051 6387111



Via Cadriano, 19
40057 Cadriano (BO)
Tel. +39 051 6387111



NUOVA ZELANDA

Bonfiglioli Transmission (Aust.) Pty Ltd
88 Hastie Avenue, Mangere Bridge,
2022 Auckland
PO Box 11795, Ellerslie
Tel. +64 09 634 6441



SINGAPORE

Bonfiglioli South East Asia Pte Ltd
8 Boon Lay Way, #04-09,
8@ Tadehub 21, Singapore 609964
Tel. +65 6268 9869



SLOVACCHIA

Bonfiglioli Slovakia s.r.o.
Robotnícka 2129
Považská Bystrica, 01701 Slovakia
Tel. +421 42 430 75 64



SUDAFRICA

Bonfiglioli South Africa Pty Ltd.
55 Galaxy Avenue, Linbro Business Park,
Sandton, Johannesburg
2090 South Africa
Tel. +27 11 608 2030



SPAGNA

Tecnotrans Bonfiglioli S.A
Avinguda del Ferrocarril, n° 14,
Polígono Industrial Can Estapé
08755 Castellbisbal - Barcelona
Tel. +34 93 447 84 00



TURCHIA

Bonfiglioli Türkiye Jsc
Atatürk Organize Sanayi Bölgesi,
10007 Sk. No. 30
Atatürk Organize Sanayi Bölgesi,
35620 Çiğli - İzmir
Tel. +90 0 232 328 22 77



REGNO UNITO

Bonfiglioli UK Ltd.
Unit 1 Calver Quay, Calver Road, Winwick
Warrington, Cheshire - WA2 8UD
Tel. +44 1925 852667



STATI UNITI

Bonfiglioli USA Inc.
3541 Hargrave Drive
Hebron, Kentucky 41048
Tel. +1 859 334 3333



VIETNAM

Bonfiglioli Vietnam Co. Ltd.
Lot C-9D-CN, My Phuoc 3 Industrial Park,
Thoi Hoa ward, Ben Cat city, Binh Duong
province, Vietnam
Tel. +84 274 3577411





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.

HEADQUARTERS

Bonfiglioli S.p.A

Via Cav. Clementino Bonfiglioli, 1
40012 Calderara di Reno - Bologna (Italy)
Tel. +39 051 6473111

