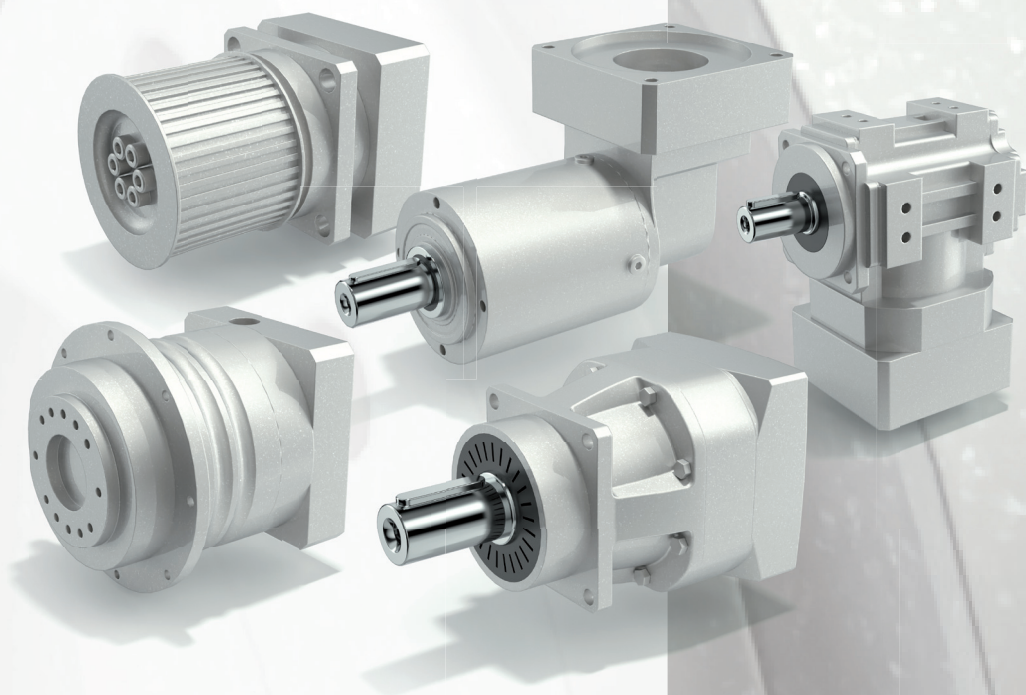




Serie TQ-TQF-TQK TR-MP-LC-LCK-SL-KR

Riduttori epicicloidali a gioco ridotto



PRODOTTI E
SOLUZIONI



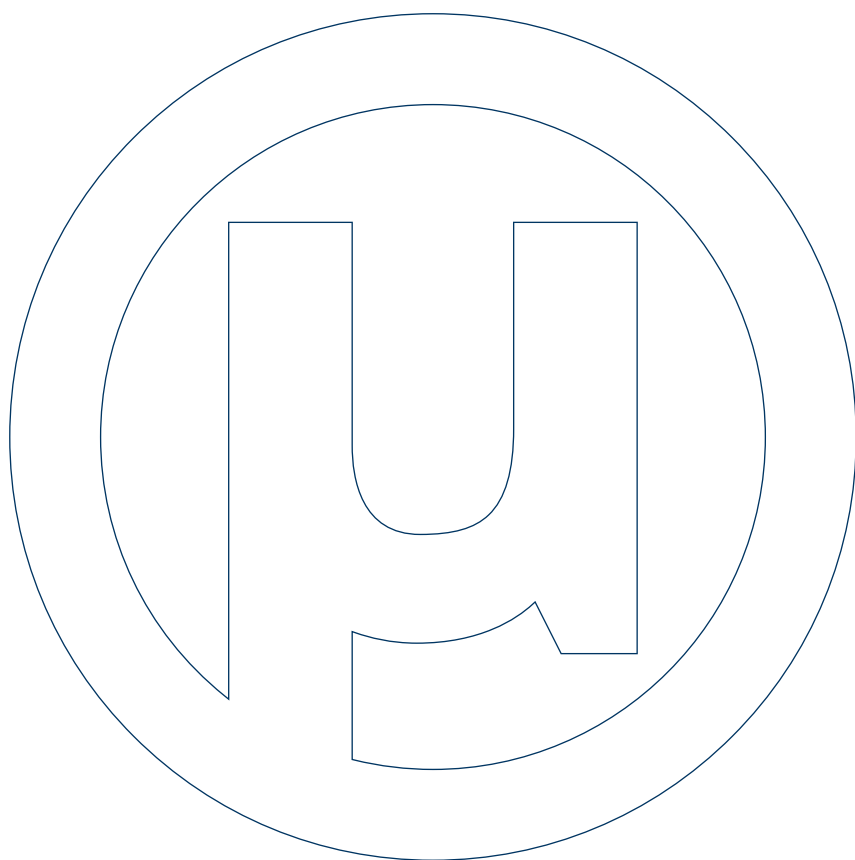
3	Teniamo il mondo in movimento
4	Meccatronica - la sfida per costruire il vostro successo
5	La nostra competenza dall'inizio alla fine!
6	Fornitore unico di soluzioni meccatroniche per le vostre applicazioni
7	Soluzioni efficienti ed economiche per prestazioni superiori
8	Analisi dell' efficienza energetica del pacchetto servo
9	Un partner affidabile per la vostra impresa
10	I nostri servizi completi
11	Qualità e tecnologia
12	Panoramica dei nostri prodotti
14	Servoriduttori

15	Informazioni tecniche
16	1 Informazioni generali
16	1.1 Simboli, definizioni e unità di misura
18	1.2 Dimensionamento del riduttore
22	1.3 Calcolo della durata di vita dei cuscinetti
25	TQ
26	2 Caratteristiche della serie TQ
27	2.1 Codice ordinativo
28	2.2 Dimensioni e dati tecnici
39	Nuovo TQF
40	3 Caratteristiche della serie TQF
41	3.1 Codice ordinativo
42	3.2 Dimensioni e dati tecnici
53	TQK
54	4 Caratteristiche della serie TQK
55	4.1 Codice ordinativo
56	4.2 Dimensioni e dati tecnici

67	TR
68	5 Caratteristiche della serie TR
70	5.1 Codice ordinativo
71	5.1.1 Forme costruttive e configurazioni di ingresso
71	5.1.2 Posizioni di montaggio
71	5.2 Carichi radiali ed assiali ammissibili per la forma costruttiva MB
72	5.3 Dimensioni e dati tecnici
106	5.3.1 Indicazioni costruttive albero macchina cliente
107	MP
108	6 Caratteristiche della serie MP
110	6.1 Codice ordinativo
111	6.1.1 Forme costruttive e configurazioni di ingresso
111	6.1.2 Posizioni di montaggio
111	6.2 Carichi radiali ed assiali ammissibili per la forma costruttiva MB
112	6.3 Dimensioni e dati tecnici
146	6.3.1 Indicazioni costruttive albero macchina cliente
147	LC
148	7 Caratteristiche della serie LC
149	7.1 Codice ordinativo
150	7.2 Dimensioni e dati tecnici
169	LCK
170	8 Caratteristiche della serie LCK
171	8.1 Codice ordinativo
172	8.2 Dimensioni e dati tecnici
191	SL
192	9 Caratteristiche della serie SL
193	9.1 Codice ordinativo
194	9.2 Dimensioni e dati tecnici
207	KR
208	10 Caratteristiche della serie KR
209	10.1 Versioni
209	10.2 Posizioni di montaggio
209	10.3 Rotazione degli alberi d'ingresso e di uscita concorde
210	10.4 Codice ordinativo
211	10.5 Dati tecnici
212	10.6 Momento d'inerzia
212	10.6.1 KR 010...KR 040 con cuscinetti standard a sfere - SB
213	10.6.2 KR 020...KR 040 con cuscinetti a rulli conici - HB
214	10.7 Dimensioni
222	10.7.1 Riduttore privo di flangia motore
223	10.7.2 Indicazioni costruttive albero macchina cliente

Revisioni

L'indice di revisione del catalogo è riportato a pag. 224.
Al sito www.bonfiglioli.com sono disponibili i cataloghi con le revisioni aggiornate.



TENIAMO IL MONDO IN MOVIMENTO



Dal 1956 Bonfiglioli è un'azienda leader nel settore della trasmissione di potenza che si propone come partner di classe mondiale.

Le nostre migliori soluzioni sono sostenute da quasi 60 anni di competenze tecniche e da una profonda conoscenza delle imprese che serviamo.



Soluzioni meccatroniche su misura e altamente innovative da un unico fornitore per soddisfare ogni richiesta specifica.



MECCATRONICA - LA SFIDA PER COSTRUIRE IL VOSTRO SUCCESSO

Alta produttività, maggiore qualità e convenienza economica: queste sono le nuove sfide dei designer di macchine!

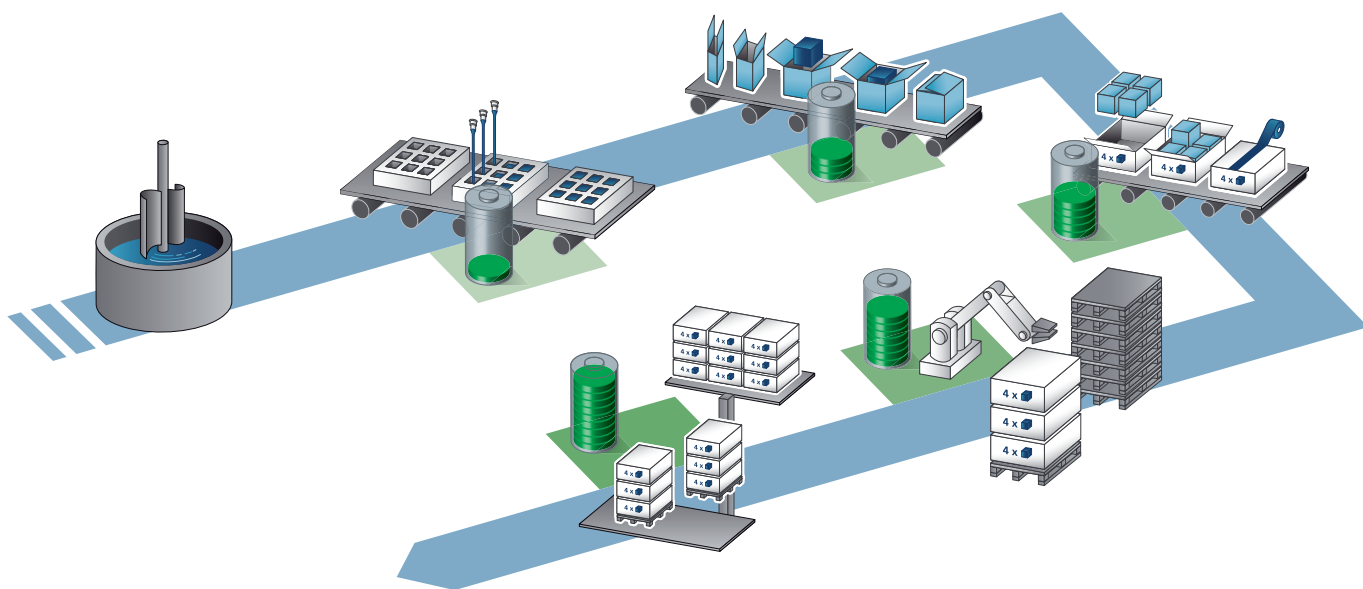
Le crescenti esigenze di produttività delle macchine in impianti complessi e la maggiore flessibilità delle macchine operanti ai massimi livelli di efficienza richiedono oggi nuove e intelligenti soluzioni tecniche che contribuiranno alla crescita di domani. Per raggiungere questo obiettivo Bonfiglioli ha adottato una strategia precisa e dettagliata!

Con l'intento di affiancarvi come partner di classe mondiale per servosistemi e soluzioni meccatroniche intelligenti, la Business Unit Industrial è organizzata in due divisioni per servire con competenza e attenzione i rispettivi mercati di riferimento:

- Soluzioni di trasmissione della potenza (PTS)
- Azionamenti e soluzioni meccatroniche (MDS)

La nostra nuova divisione Azionamenti e Soluzioni Meccatroniche (MDS) nasce con la missione di garantire un crescente vantaggio economico, in quanto partner affidabile per il mercato dell'automazione industriale, con soluzioni ad alta efficienza energetica per l'intero ciclo di vita delle macchine.

- Sistemi Integrati
- Competenza
- Risparmio energetico



Alte prestazioni, affidabilità, costi contenuti, robustezza, efficienza e sostenibilità sono assolutamente essenziali.

LA NOSTRA COMPETENZA DALL'INIZIO ALLA FINE!



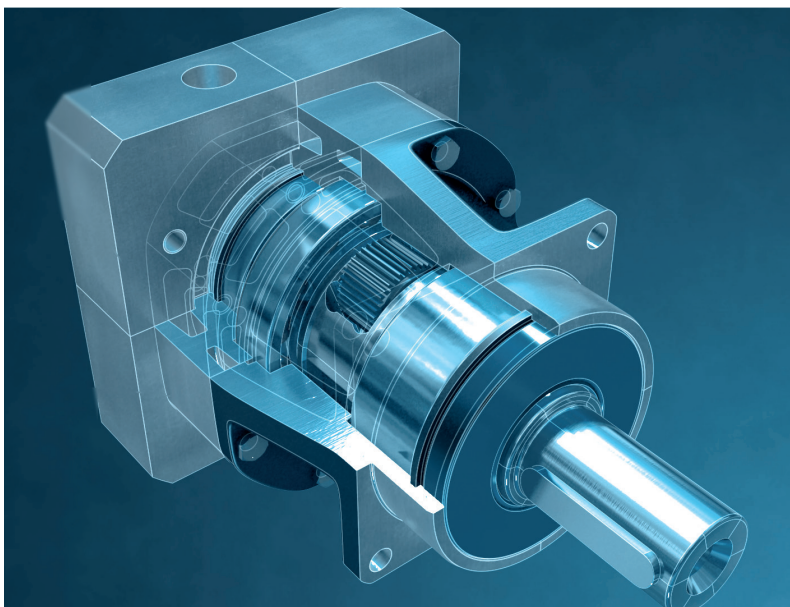
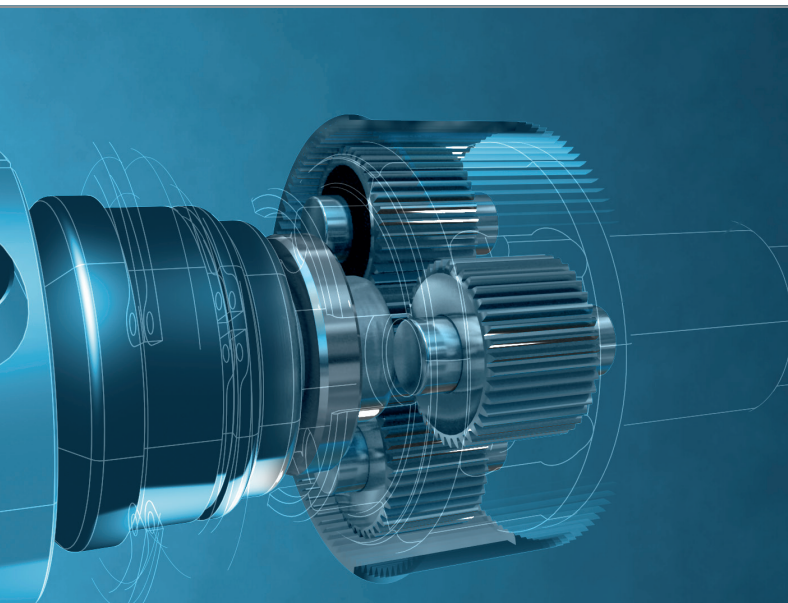
Due centri di eccellenza sono il motore dell'innovazione di MDS:

- Bonfiglioli Vectron in Germania, con le sue forti capacità tecniche, di Ricerca e Sviluppo e produttive nell'ambito dei componenti elettronici, in particolare inverter e servoazionamenti;
- BMR (Bonfiglioli Mechatronic Research), situata a Rovereto (Trento, Italia) con al suo interno elevate competenze di Ricerca e Sviluppo e in grado di fornire soluzioni altamente innovative per esigenze specifiche. BMR è anche uno stabilimento di produzione in cui nuove soluzioni mecatroniche diventano realtà.

La chiave del successo della nostra divisione MDS è il grande supporto tecnico fornito dai nostri specialisti tecnici. Essi vi accompagnano per tutto il processo, dal concetto iniziale fino alla messa in servizio.

Bonfiglioli

è vicina alle vostre esigenze in tutto il mondo grazie a filiali che possono seguire direttamente i clienti tramite efficienti team internazionali.



ATTIVITÀ
IN LOCO

ASSISTENZA
ALL'AVVIAMENTO

MESSA IN SERVIZIO

MANUTENZIONE

SERVIZIO
CLIENTI

FORNITORE UNICO DI SOLUZIONI MECCATRONICHE PER LE VOSTRE APPLICAZIONI

Come partner competente, il nostro reparto di ingegneria specializzata **sviluppa insieme a voi soluzioni integrate e personalizzate, ad alta efficienza energetica, capaci di soddisfare ogni vostra esigenza applicativa.**

Il pacchetto Servo Bonfiglioli include tutti i componenti necessari e ottimizzati, per una soluzione completa:

- HMI – Interfaccia uomo-macchina di Bonfiglioli
- Controller programmabile (ACU / ACT / AGL)
- Servomotori altamente dinamici della serie BMD con vari dispositivi di feedback
- Riduttori epicicloidali di precisione (TQ, TQF, TQK, TR, MP, LC, LCK, SL)
- Riduttore ortogonale di precisione (KR)
- Accessori pronti all'uso (cavi, induttanze, filtri, ecc)



I Vostri Benefici:

- Massima Precisione e Dinamica
- Robusto e Compatto
- La più alta capacità di carico Radiale e Assiale
- Eccellente resistenza al ribaltamento
- Funzionamento Silenzioso



I Vostri Benefici:

- Elevata Precisione e dinamicità
- Frequenti inversioni di moto
- Massima densità di potenza



I Vostri Benefici:

- Risparmio energetico
- Soluzione di sistema semplificata
- Ampia caratteristica di coppia costante
- Precisione di Controllo della velocità e della coppia nei quattro quadranti
- Massima densità di potenza

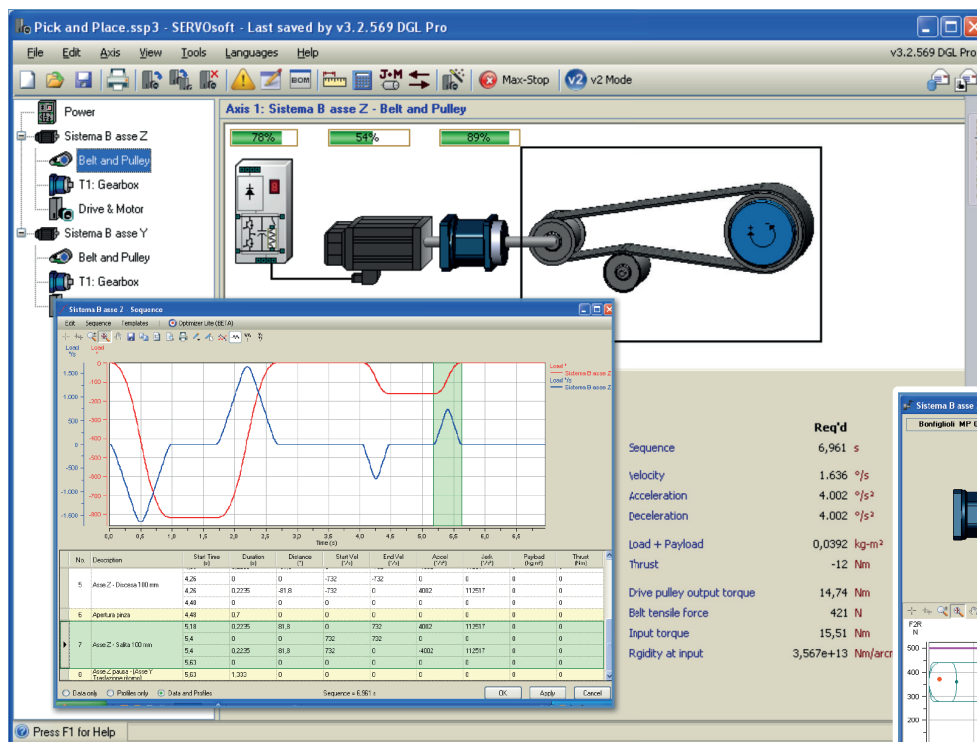
Un unico fornitore per la Vostra Soluzione Servo completa!

SOLUZIONI EFFICIENTI ED ECONOMICHE PER PRESTAZIONI SUPERIORI

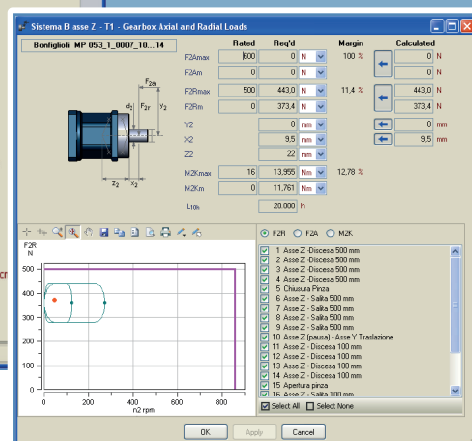
Bonfiglioli è al vostro fianco per assistervi nel dimensionamento, nell'ottimizzazione e nella selezione della catena di azionamento.

La nostra attenzione è rivolta alla progettazione e alla realizzazione di prodotti che soddisfino le vostre necessità di movimento, ma abbiamo sviluppato anche strumenti servo per facilitare il vostro processo di progettazione.

Siamo in grado di ottimizzare il Vostro pacchetto di soluzioni servo prevenendo il sovradimensionamento che aumenta il costo iniziale del sistema nonché i costi operativi correnti.



Soluzione ottimizzata su misura da un unico fornitore.

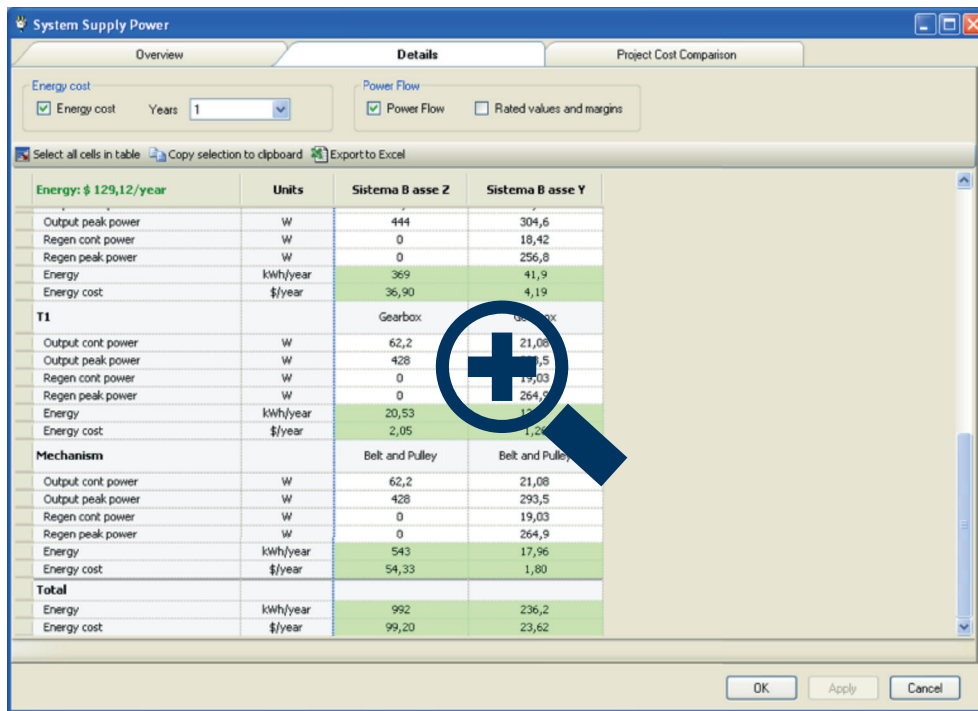


ANALISI DELL'EFFICIENZA ENERGETICA DEL PACCHETTO SERVO

La maggior parte dei moderni sistemi servo sono progettati per essere accoppiati elettricamente, condividere l'energia, ridurre al minimo i componenti inutilizzati o sovradimensionati e per abbattere il costo iniziale dell'hardware e i costi operativi migliorando l'efficienza energetica.

Poiché i prezzi dell'energia continuano ad aumentare, l'efficienza energetica è diventata un obiettivo primario della progettazione, considerando che i costi energetici possono rappresentare il **95% del costo della vita di un sistema servo**.

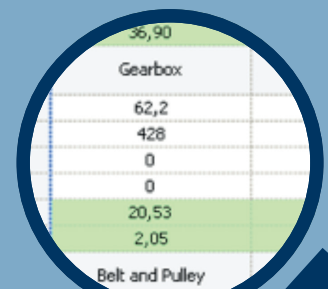
Bonfiglioli ottimizza l'efficienza di intere catene di azionamenti mediante un'analisi dettagliata che identifica e valuta le potenzialità di risparmio energetico.



	Units	Sistema B asse Z	Sistema B asse Y
Energy: \$ 129,12/year			
Output peak power	W	444	304,6
Regen cont power	W	0	18,42
Regen peak power	W	0	256,8
Energy	kWh/year	369	41,9
Energy cost	\$/year	36,90	4,19
T1			
Gearbox			
Output cont power	W	62,2	21,08
Output peak power	W	428	293,5
Regen cont power	W	0	19,03
Regen peak power	W	0	264,9
Energy	kWh/year	20,53	1,24
Energy cost	\$/year	2,05	1,24
Mechanism			
Belt and Pulley			
Output cont power	W	62,2	21,08
Output peak power	W	428	293,5
Regen cont power	W	0	19,03
Regen peak power	W	0	264,9
Energy	kWh/year	543	17,96
Energy cost	\$/year	54,33	1,80
Total			
Energy	kWh/year	992	236,2
Energy cost	\$/year	99,20	23,62

Come viene ripartita l'energia sull'intera catena cinematica / asse?

Qual è il potenziale di ottimizzazione dell'applicazione in termini di risparmio energetico?



36,90
Gearbox
62,2
428
0
0
20,53
2,05
Belt and Pulley

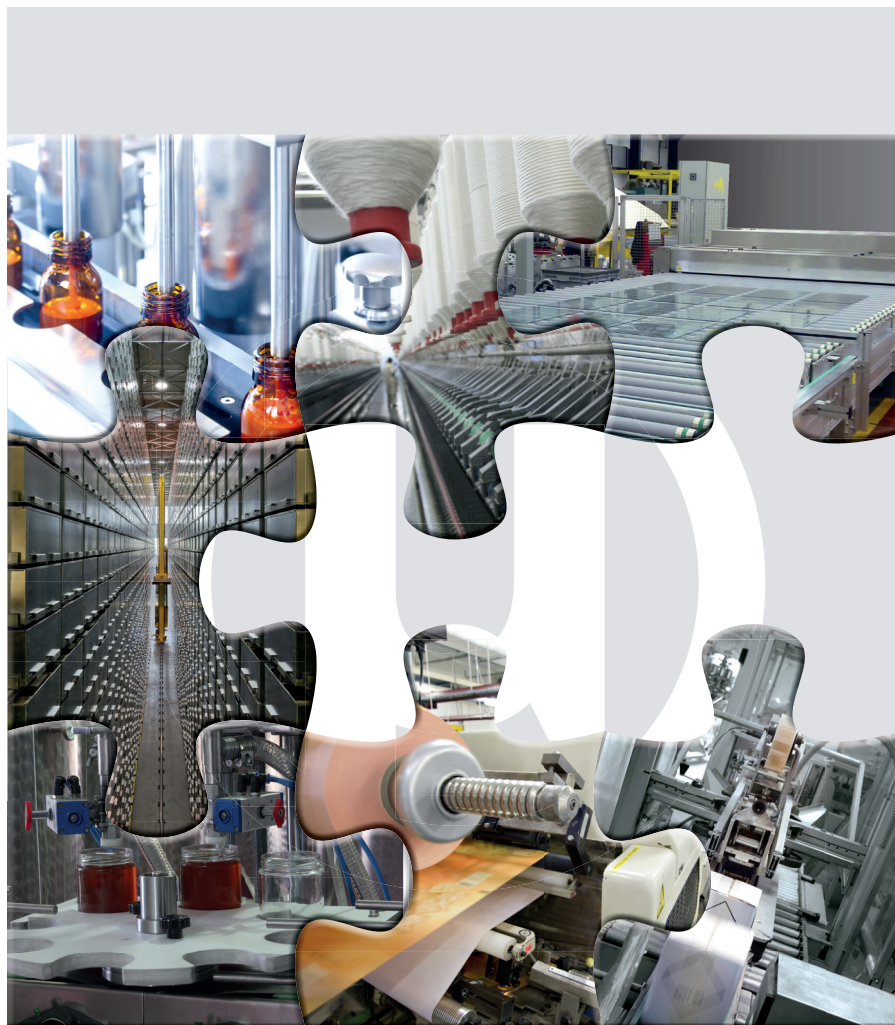
UN PARTNER AFFIDABILE PER LA VOSTRA IMPRESA



Bonfiglioli Riduttori vanta decenni di esperienza nel supporto di clienti operanti in un vasto spettro di settori industriali.

La nostra esperienza in ambito industriale ci permette di capire le vostre applicazioni: i prodotti devono soddisfare i requisiti e rappresentare la soluzione adatta per la vostra applicazione.

La nostra soluzione su misura vi offre sempre un approccio completo.



Alcuni dei settori industriali che serviamo:

- HVAC commerciale
- Macchine utensili
- Imballaggio ed etichettatura
- Settore alimentare, bevande e tabacco
- Tessile
- Lavorazione del vetro
- Robotica
- Movimentazione materiali
- Gomma e plastica
- Carta e cartone
- Trasportatori
- Elettronica e assemblaggio di elettronica
- Gru ed elevatori
- Lavorazione del legno
- Produzione di energia
- Energia rinnovabile
- Trasformazione dei materiali
- Industria mineraria
- Elevatori

E molti altri ancora

I NOSTRI SERVIZI COMPLETI

Tutte le soluzioni di Bonfiglioli godono di una rapida e affidabile assistenza tecnica in tutto il mondo.

Personale specializzato con una profonda conoscenza del mercato in cui opera offre servizi di pre-vendita, installazione e post-vendita e documentazione.

In dettaglio, offriamo una gamma completa di servizi su misura per le esigenze e i desideri dei clienti.

- Tempi di consegna ottimali dei vostri prodotti e consegne velocissime, in procedura d'urgenza, per eventuali richieste impreviste.
- Supporto tecnico professionale e immediato, in grado di definire soluzioni personalizzate.
- Tempi di risposta e consegne veloci, in caso di situazioni critiche che richiedono la sostituzione dei prodotti.

PRIMA
DELL'INSTALLAZIONE

DOPO
L'INSTALLAZIONE



Studi di
meccanica e
meccatronica



Personaliz-
zazione del
prodotto



Realizzazione
di prototipi,
test e report
di analisi



Assistenza
all'avviamento



Manutenzione



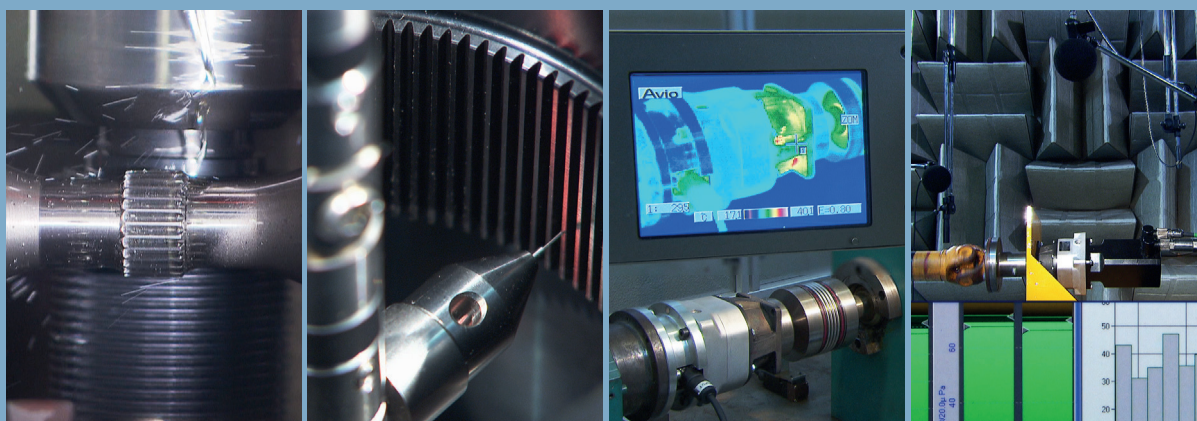
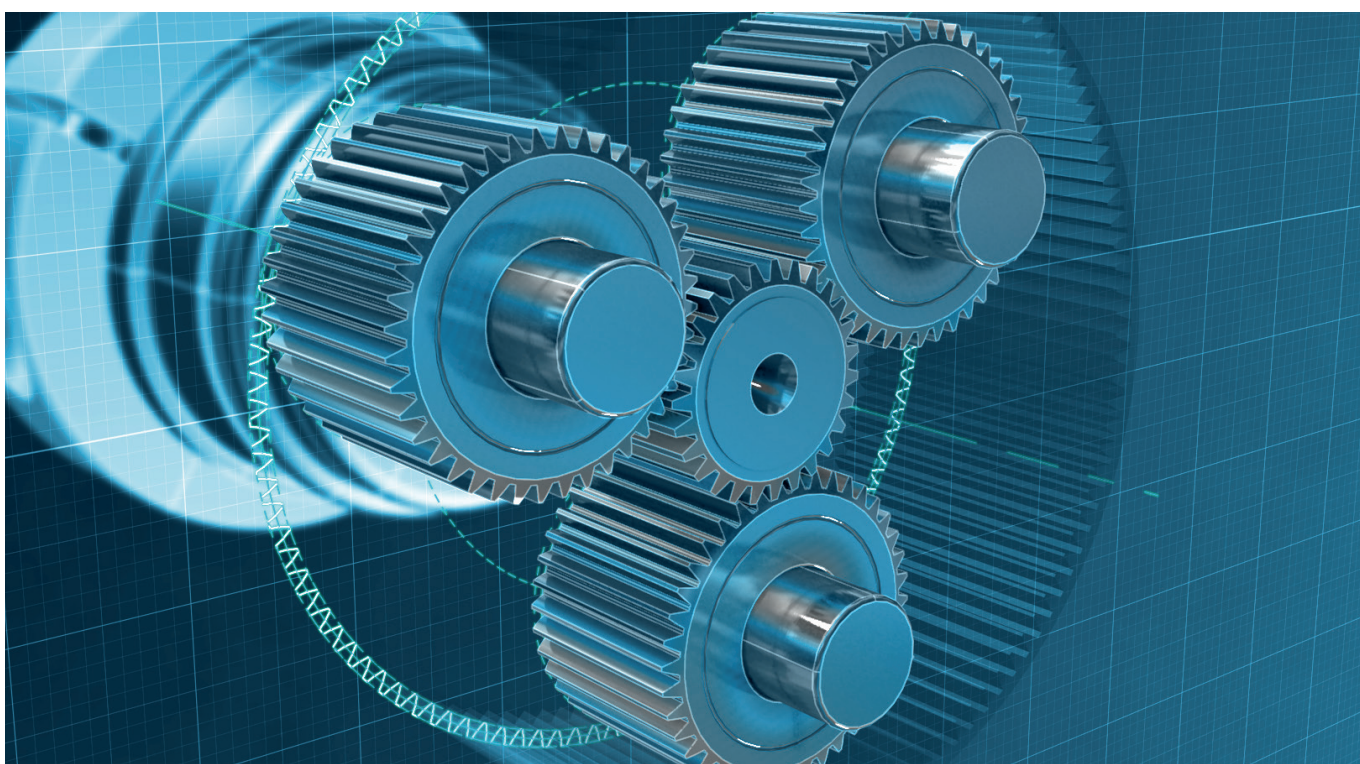
Servizio clienti

FORMAZIONE

QUALITÀ E TECNOLOGIA

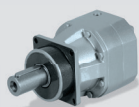
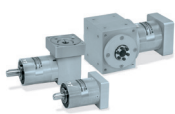
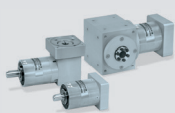
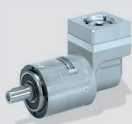
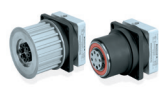
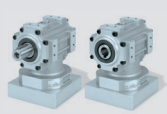
L'affidabilità dei prodotti è garantita da un processo di produzione che tende all'eccellenza.

Nel sistema produttivo di Bonfiglioli ha sempre avuto un ruolo centrale l'utilizzo di macchinari di ultima generazione.



Bonfiglioli ha sempre dato massima priorità alla qualità e all'efficienza del suo parco macchine, investendo di conseguenza.

PANORAMICA DEI NOSTRI PRODOTTI

	PRODOTTO	COASSIALE	ORTOGONALE	VANTAGGI APPLICATIVI	CONFIGURAZIONI
ALTE PRESTAZIONI	TQ 	Si		- Prestazioni e precisione eccezionali - Applicazioni ad alta velocità - Capacità di carico radiale/assiale eccezionali - Funzionamento silenzioso - Design modulare in base alle vostre esigenze	• Albero pieno
	NUOVO TQF 	Si		- Massima Precisione e Dinamica - Robusto e Compatto - La più alta capacità di carico Radiale e Assiale - Eccellente resistenza al ribaltamento - Funzionamento Silenzioso	• Flangia di uscita
	TQK 		Si	- Prestazioni e precisione eccezionali - Applicazioni ad alta velocità - Capacità di carico radiale/assiale eccezionali - Funzionamento silenzioso - Design modulare in base alle vostre esigenze	• Albero pieno
PRECISIONE	TR 	Si	Si	- Prestazioni elevate - Precisione elevata - Design modulare in base alle vostre esigenze	- Albero pieno - Albero cavo - Albero veloce
	MP 	Si	Si	- Prestazioni elevate - Precisione standard - Design modulare in base alle vostre esigenze	- Albero pieno - Albero cavo - Albero veloce
FLESSIBILITÀ	LC 	Si		- Flessibilità - Precisione a un prezzo vantaggioso - Disponibile nuova versione con coppia aumentata	- Albero pieno - Albero veloce
	LCK 		Si	- Flessibilità - Precisione a un prezzo vantaggioso - Disponibile nuova versione con coppia aumentata	- Albero pieno - Albero veloce
	SL 	Si		- Applicazione dinamica per cinghie dentate - Compattezza - Precisione a un prezzo vantaggioso - Disponibile nuova versione con coppia aumentata	• Albero pieno
	KR 		Si	Precisione, dinamicità e compattezza a un prezzo imbattibile	- Albero pieno - Flangia - Calettatore ad attrito

COPPIA NOM. MAX. COPPIA ACC. MAX.	RAPPORTO i	DENSITÀ DI COPPIA	RIGIDITÀ TORSIONALE	GIOCO	CONFIGURAZIONI
[Nm]	[-]			[arcmin]	
800 1200	3-100	● ● ● ● ●	● ● ● ●	STANDARD ≤ 4-6 RIDOTTO ≤ 2-4	● ● ● ● ●
800 1200	4-100	● ● ● ● ●	● ● ● ● ●	STANDARD ≤ 5-7 RIDOTTO ≤ 3-5	● ● ● ● ●
800 1200	6-200	● ● ● ● ●	● ● ● ●	STANDARD ≤ 5-7 RIDOTTO ≤ 4-6	● ● ● ● ●
1000 1200	3-1000	● ● ●	● ● ●	STANDARD ≤ 5-7 RIDOTTO ≤ 3-5	● ● ●
1000 1200	3-1000	● ● ●	● ● ●	STANDARD ≤ 15-17 RIDOTTO ≤ 10-12	● ● ●
450 700	3-100	● ● ●	● ● ●	STANDARD ≤ 12-15 RIDOTTO ≤ 6-8	● ● ●
450 700	6-100	● ● ●	● ● ●	STANDARD ≤ 6-8	● ● ●
155 300	3-100	● ● ●	● ● ●	STANDARD ≤ 12 RIDOTTO ≤ 6	● ● ●
120 170	1-5	●	●	STANDARD ≤ 8	●

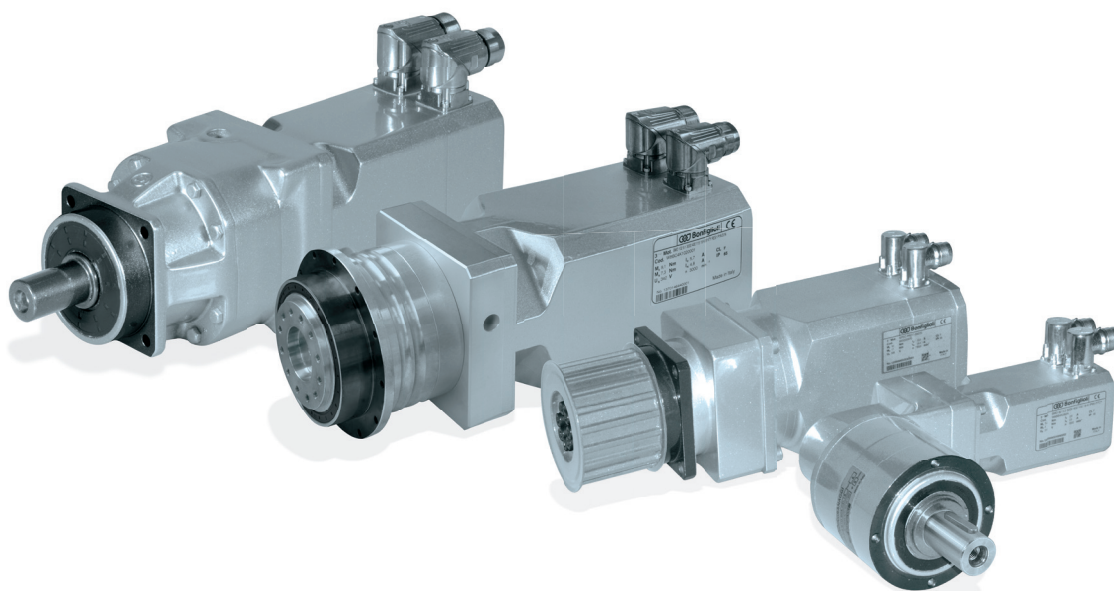
SERVORIDUTTORI

Le applicazioni servo richiedono riduttori epicicloidali che permettano di controllare la velocità e la coppia e di assicurare al contempo la precisione richiesta dall'applicazione.

Bonfiglioli Riduttori abbina i suoi riduttori epicicloidali di precisione alla serie di motori sincroni a magneti permanenti denominati BMD.

Questi servo-riduttori pilotati da una potente elettronica di azionamento sono progettati per applicazioni servo che richiedono gli standard più elevati in termini di dinamicità, precisione, robustezza, durata e funzionamento prolungato.

Un requisito importante per le applicazioni di automazione è rappresentato dall'elevata capacità di coppia racchiusa in un pacchetto compatto e leggero. Per le applicazioni di automazione con carichi variabili altamente dinamici, questa caratteristica (rapporto elevato di coppia/volume o coppia/peso) ha l'importante compito di evitare un'inerzia supplementare del sistema.





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

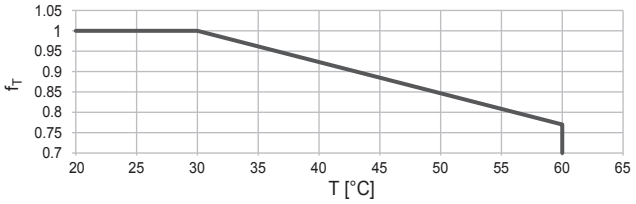
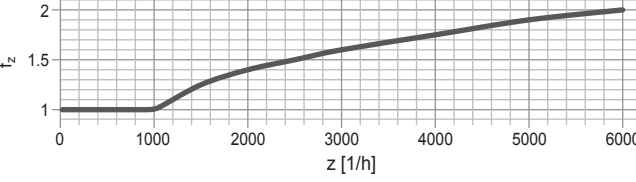


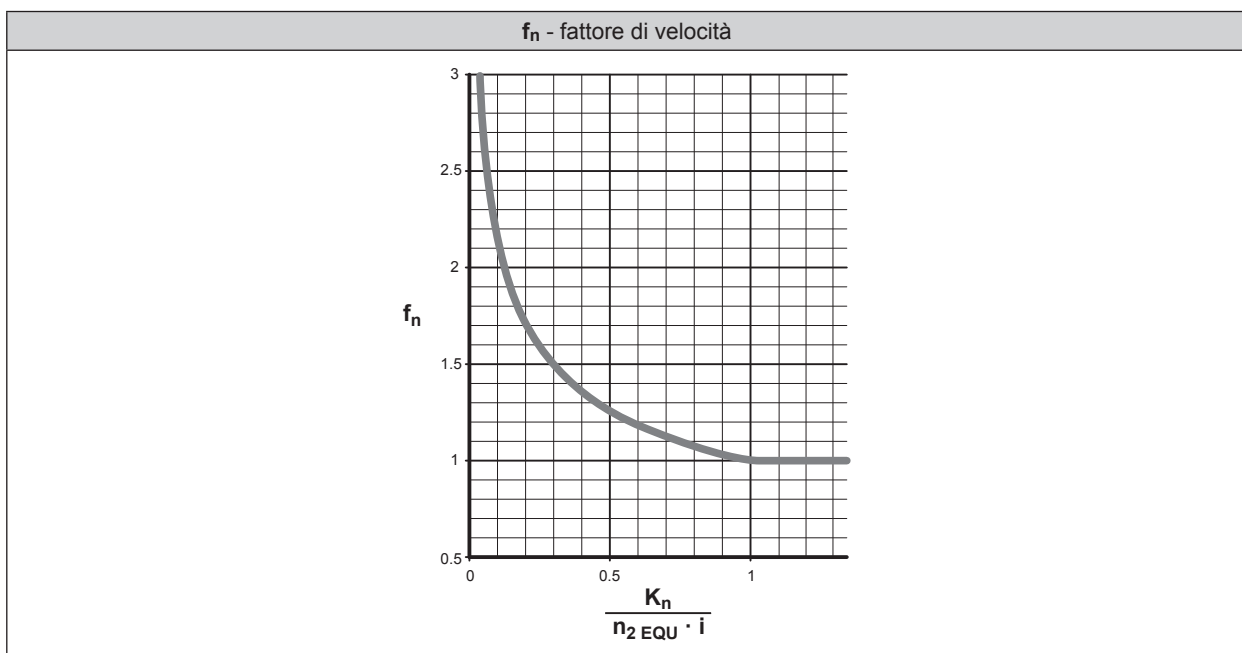
Parametri dipendenti dal **RIDUTTORE DI VELOCITÀ**

simbolo	unità di misura	definizione
$A_{2/3 \max}$	[N]	Forza assiale ammissibile sull'albero lento
$A_{2/3' \max}$	[N]	Forza assiale ammissibile in compresenza di carico radiale
$R_1 \max$	[N]	Forza radiale ammissibile sulla mezzeria dell'albero veloce
$R_{2/3 \max}$	[N]	Forza radiale ammissibile sulla mezzeria dell'albero lento
C_B	[Nm]	Costante per il calcolo della durata teorica dei cuscinetti
C_t	$\left[\frac{Nm}{arcmin} \right]$	Rigidezza torsionale
f	—	Valore limite del rapporto tra forza assiale e forza radiale
f_n	—	Fattore di velocità
f_z	—	Fattore dinamico
f_T	—	Fattore correttivo di temperatura
i	—	Rapporto di trasmissione
J_G	[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 continuativamente per più di 30 secondi.
p	—	Esponente nel calcolo della durata teorica dei cuscinetti
η	[%]	Rendimento
φ_R	[arcmin]	Il gioco ridotto è calcolato in condizioni statiche e con l'applicazione di una coppia pari al 2% della coppia nominale del riduttore
φ_S	[arcmin]	Il gioco standard è calcolato in condizioni statiche e con l'applicazione di una coppia pari al 2% della coppia nominale del riduttore



1.2 DIMENSIONAMENTO DEL RIDUTTORE

(a)	Rapporto di trasmissione	i	—	$i = \frac{n_1}{n_2}$
(b)	Coppia di uscita equivalente	$M_{2\text{ EQU}}$	[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]	a) coppia di picco dell'applicazione b) coppia motore limitata dall'inverter c) 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	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

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	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	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

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

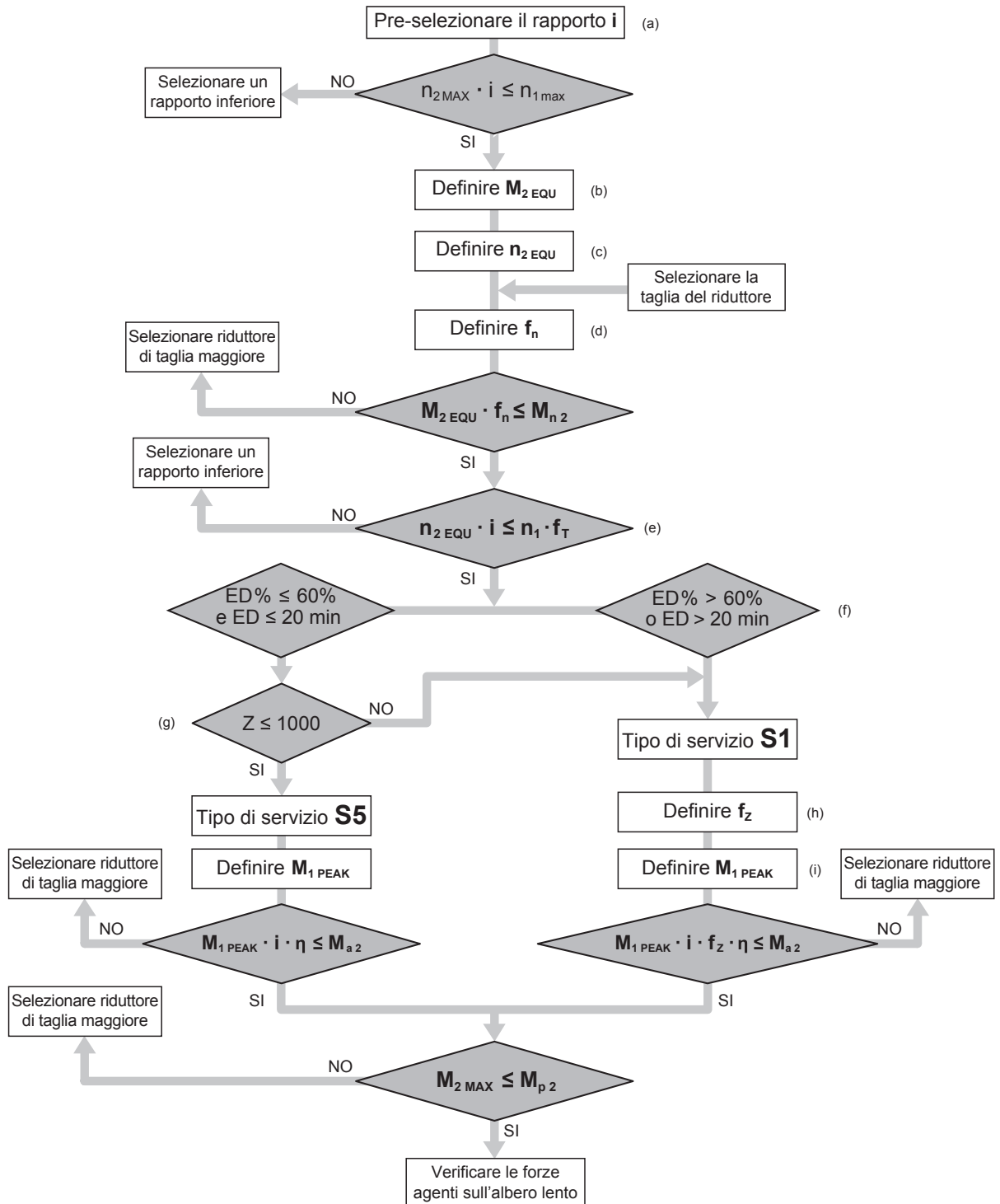
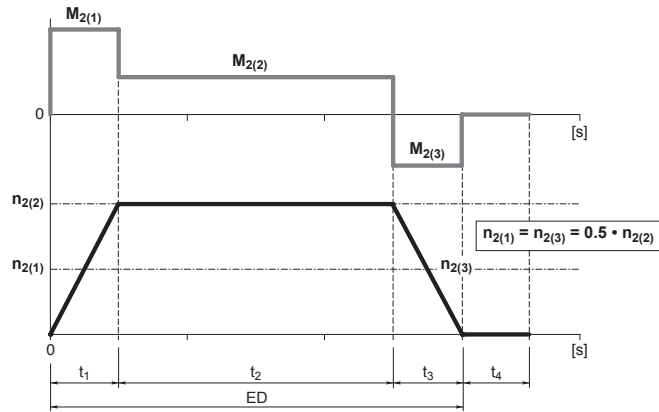


Diagramma di carico

— M_2 : Coppia in uscita

Diagramma di velocità

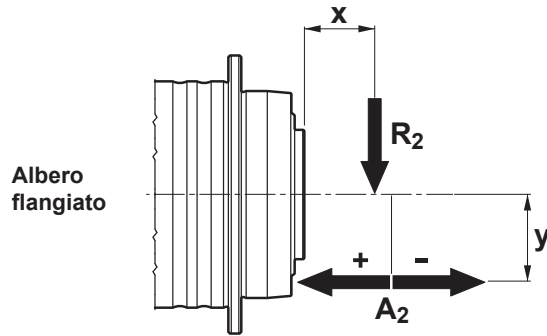
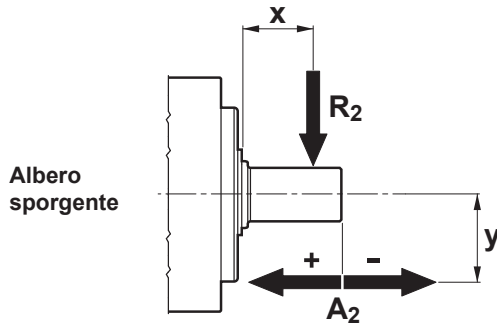
— n_2 : Velocità in uscita







1.3 CALCOLO DELLA DURATA DI VITA DEI CUSCINETTI



(a)	Forza radiale massima applicata sull'albero lento	$R_{2 \text{ MAX}}$	[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]	$L_{10h} = \frac{16666}{n_{2 \text{ EQU}}} \cdot \left(\frac{C_B}{M_{T2 \text{ EQU}}} \right)^p$

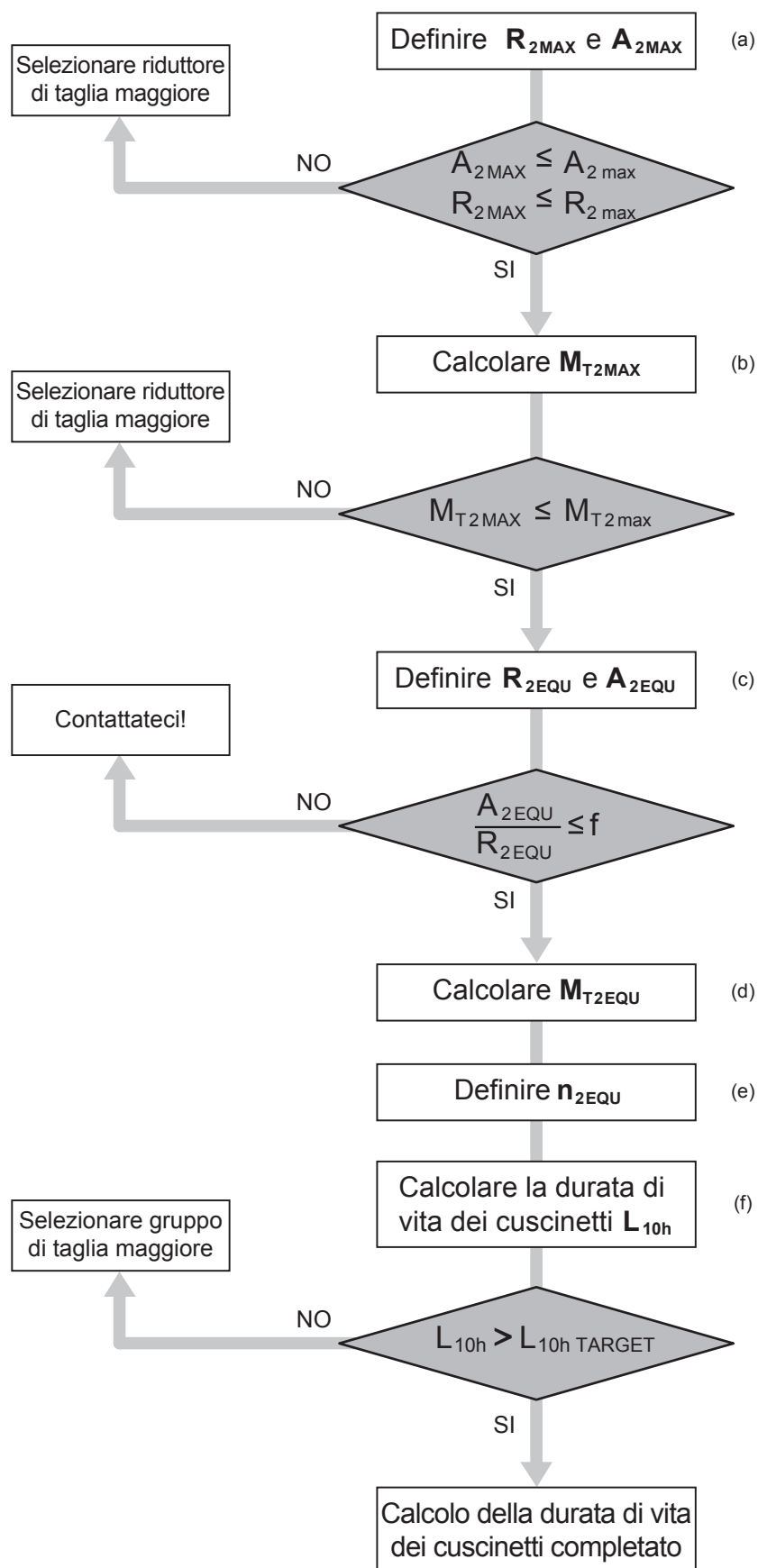
	TQ / TQK 060	TQ / TQK 070		TQ / TQK 090		TQ / TQK 130	TQ / TQK 160
	SB	SB	HB	SB	HB	SB	SB
Lz [mm]	56	67	64	95	89	96	114
MT 2 max [Nm]	129.5	221	343	592	772	1233	2331
CB [Nm]	632	1065	1510	2898	3325	6395	9795
p —	3	3	3.33	3	3.33	3.33	3.33

	TQF 060	TQF 070	TQF 090	TQF 130	TQF 160
Lz [mm]	48	72	78	100	128
MT 2 max [Nm]	115	318	430	1200	3700
CB [Nm]	490	1335	1815	5055	16200
p -	3.33	3.33	3.33	3.33	3.33

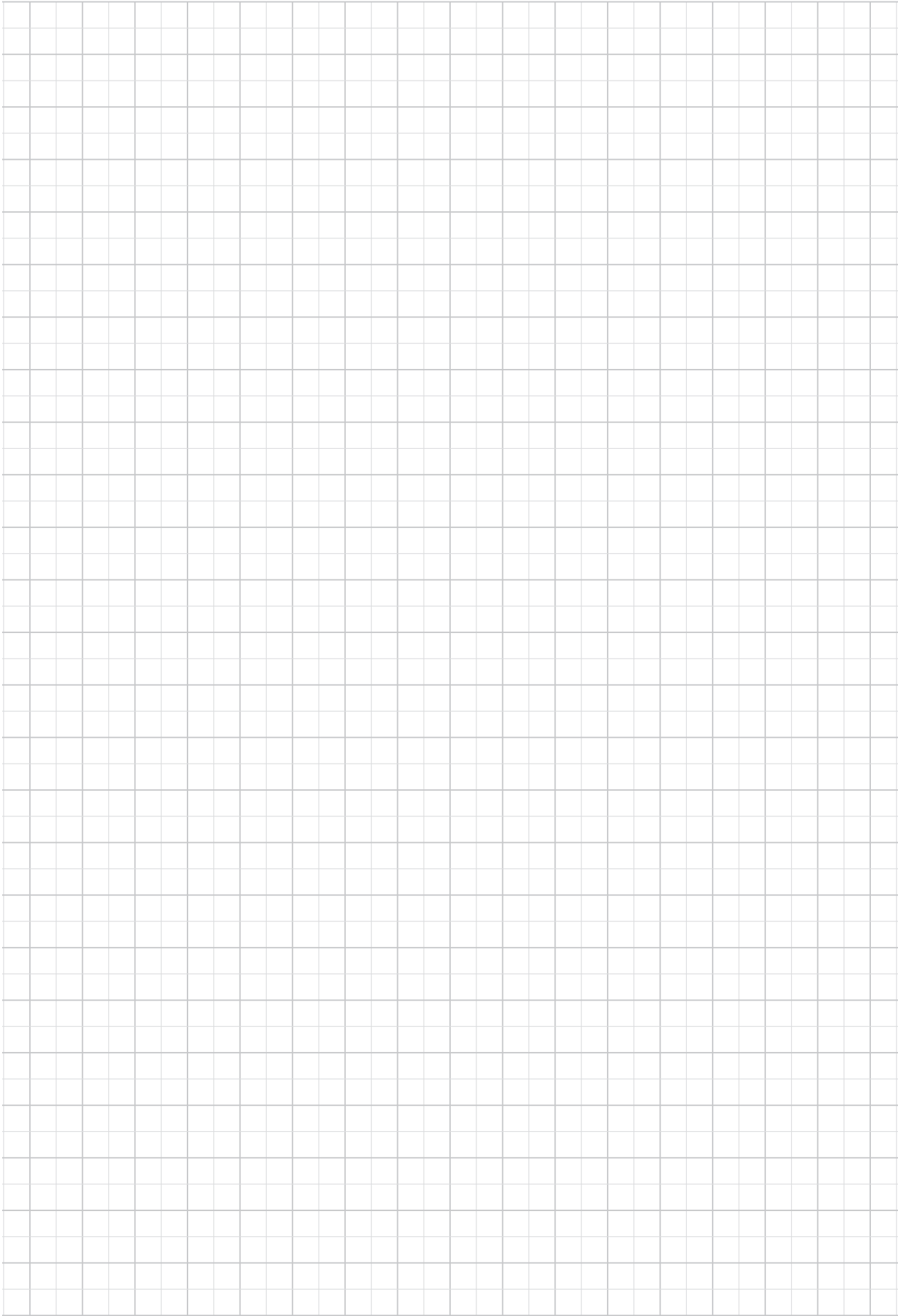
	TR 053	TR 060	TR 080	TR 105	TR 130	TR 160	TR 190
	SB	SB	SB	SB	SB	SB	SB
Lz [mm]	22	23	42	53	74	94	100
MT 2 max [Nm]	16	23	155	278	515	739	1683
CB [Nm]	91	143	994	2048	3893	5824	8680
p —	3	3	3.33	3.33	3.33	3.33	3.33

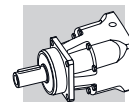
	MP 053	MP 060	MP 080		MP 105		MP 130	MP 160	MP 190
	SB	SB	SB	HB	SB	HB	SB	SB	SB
Lz [mm]	22	23	44	42	46	53	74	94	100
MT 2 max [Nm]	16	23	83	155	99	278	515	739	1683
CB [Nm]	91	143	407	994	637	2048	3893	5824	8680
p —	3	3	3	3.33	3	3.33	3.33	3.33	3.33

	LC / LCK 050	LC / LCK / SL 070	LC / LCK / SL 090	LC / LCK / SL 120	LC / LCK 155
Lz [mm]	22	28	30	39	46
MT 2 max [Nm]	15	54	105	238	522
CB [Nm]	106	280	298	813	1588
p —	3	3	3	3	3



f	TQ / TQK	TQF	TR	MP	LC / LCK	SL	KR
0.26	060 SB ... 090 SB		053 SB ... 060 SB	053 SB ... 105 SB	050 SB ... 155 SB	070 SB ... 120 SB	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



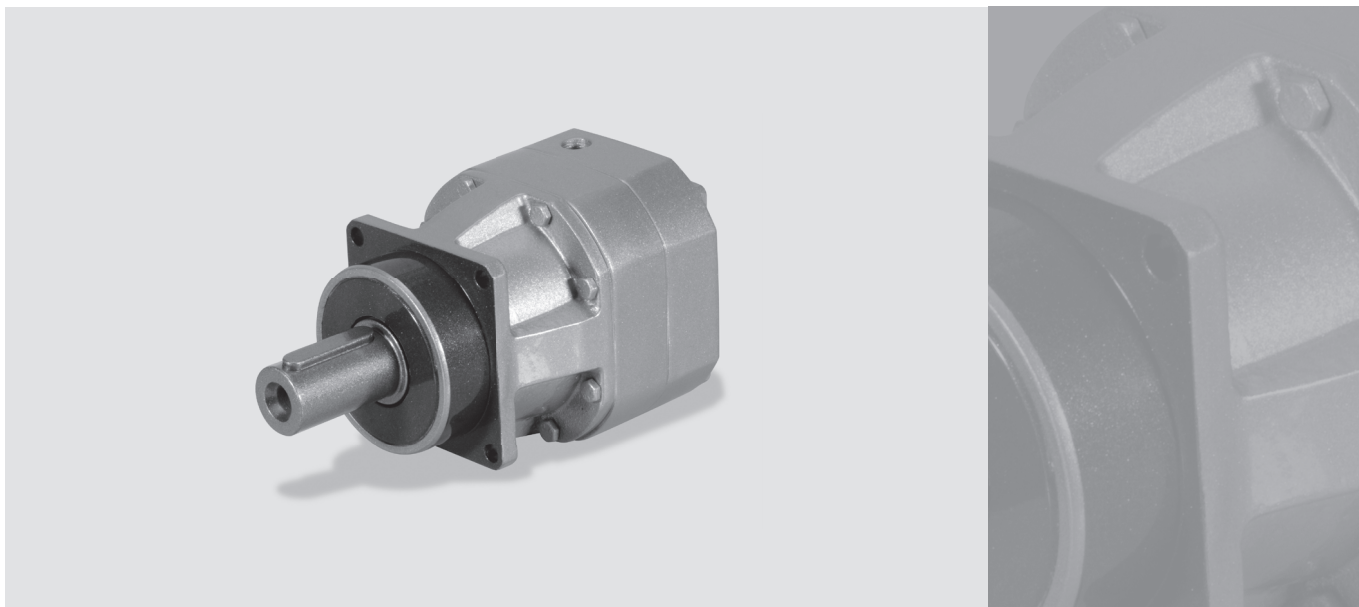


TQ

RIDUTTORE EPICICLOIDALE COASSIALE DI PRECISIONE

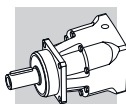
TQ

La serie TQ si posiziona ai vertici della gamma. Questo interessante prodotto offre prestazioni di assoluto rilievo in termini di coppia, robustezza e precisione.



Caratteristiche di prodotto:

- Densità di coppia eccezionale
- Coppie nominali e acceleranti eccezionali
- Ottime capacità di carico radiale e assiale
- Progettato per funzionamenti ciclici e continuativi
- Rigidezza torsionale eccezionale nella sua categoria
- Gioco di precisione estremamente ridotto (≤ 2 arcmin)
- Funzionamento silenzioso
- Design universale per ogni posizione di montaggio



2 CARATTERISTICHE DELLA SERIE TQ

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.

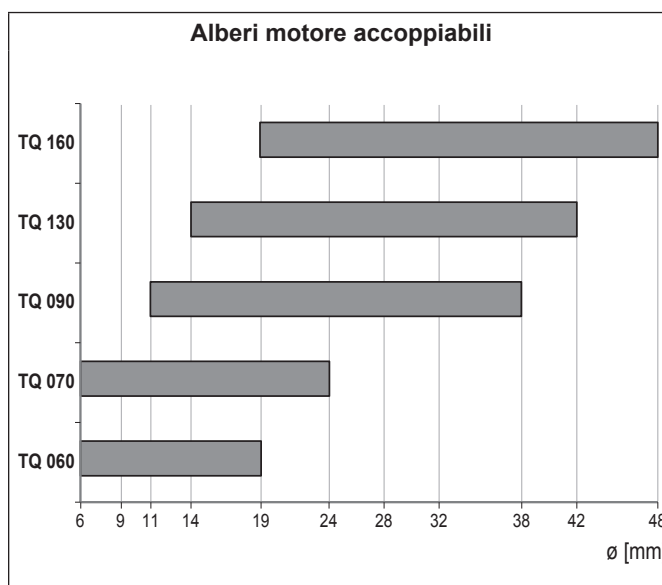
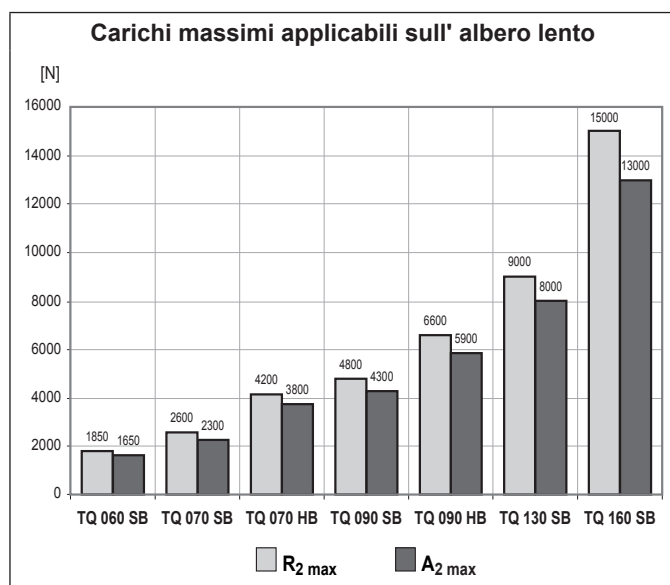
La loro progettazione e costruzione è stata sviluppata con l'obiettivo primario di offrire agli utilizzatori una serie di prodotti di Qualità assoluta, affidabile e ripetibile, tale da costituire vantaggio competitivo per macchine e sistemi che li integrano come organi di trasmissione.

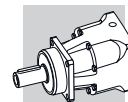
- La serie TQ dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
1 stadio di riduzione: standard $\varphi_S \leq 3'$ ridotto $\varphi_R \leq 2'$ ($\varphi_S \leq 4'$; $\varphi_R \leq 2'$ per TQ 060 e TQ 070)
2 stadi di riduzione: standard $\varphi_S \leq 5'$ ridotto $\varphi_R \leq 3'$ ($\varphi_S \leq 6'$; $\varphi_R \leq 4'$ 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 $n_1=3000$ min⁻¹; $i=10$.
- Ampia possibilità di abbinamento alle marche e ai modelli di servomotori più diffusi.
- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

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

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

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

LUBRIFICANTE

- standard

UH1 lubrificante sintetico
ad uso alimentare

CONFIGURAZIONE
ALBERO LENTO

KL albero liscio

KE albero con linguetta

SUPPORTAZIONE ALBERO LENTO

SB standard

HB rinforzata (TQ 070 - TQ 090)

TIPO DI SERVIZIO

S1 servizio continuo

S5 servizio intermittente

DIAMETRO FORO PER ALBERO MOTORE

6 ... 48

TIPO DI CALETTAMENTO ALBERO MOTORE

CD morsetto di serraggio

SEZIONE DI INGRESSO

30A ... 230A predisposizione motore

FM senza adattatore in ingresso

GIOCO ANGOLARE

	1 stadio	1 stadio (solo TQ060, TQ070)	2 stadi	2 stadi (solo TQ060, TQ070)
STD	$\varphi_s \leq 3'$	$\varphi_s \leq 4'$	$\varphi_s \leq 5'$	$\varphi_s \leq 6'$
LOW	$\varphi_R \leq 2'$	$\varphi_R \leq 2'$	$\varphi_R \leq 3'$	$\varphi_R \leq 4'$

RAPPORTO DI TRASMISSIONE

STADI DI RIDUZIONE

1 2

GRANDEZZA

060 070 090 130 160

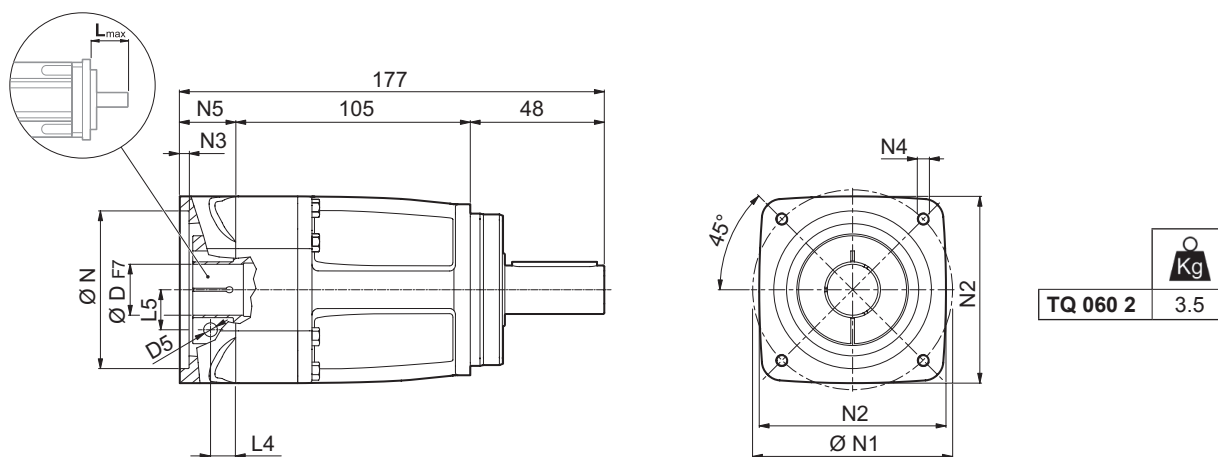
SERIE

TQ

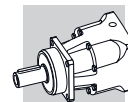
TQ



TQ 060



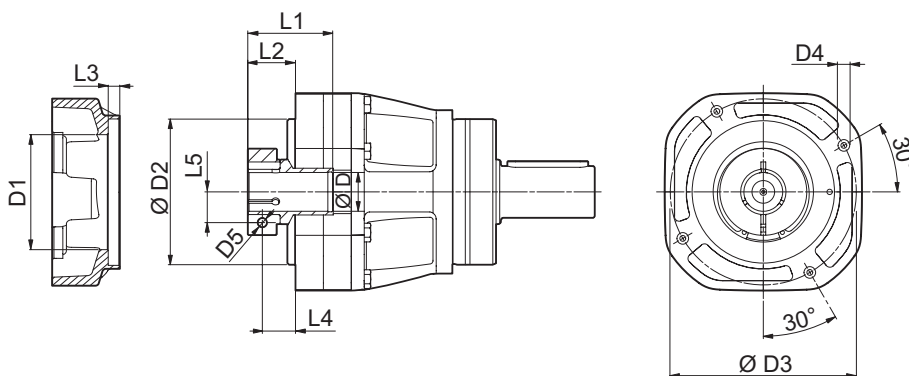
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



TQ 060

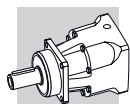
TQ

FM



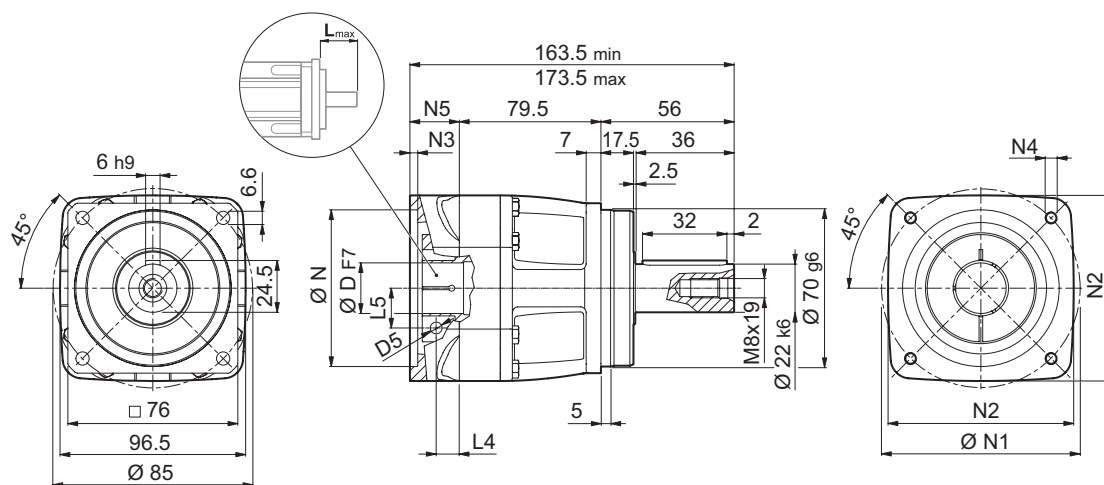
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	37	59	72	M5x11	M4	31.5	15.5	4.5	10.5	8
9	49	59	72	M5x11	M5	35	19	4.5	11.5	10.5
11	49	59	72	M5x11	M6	35	19	4.5	11.5	12.5
14	49	59	72	M5x11	M6	35	19	4.5	11.5	14.5
19	54	59	72	M5x11	M6	35	19	4.5	11.5	16.5

	M_{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]	$\leq$ [arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	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



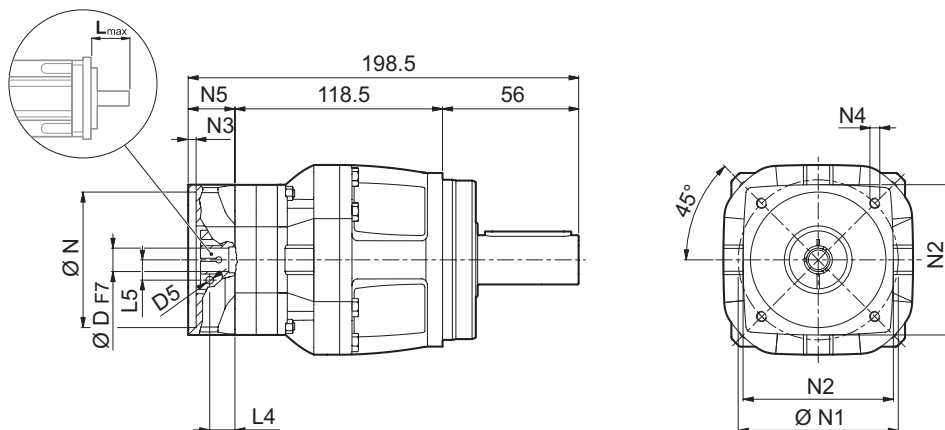
TQ 070

50C ... 130A



	TQ 070 1
3.6	

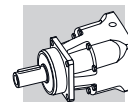
30A ... 110B0



	TQ 070 2
5.0	

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

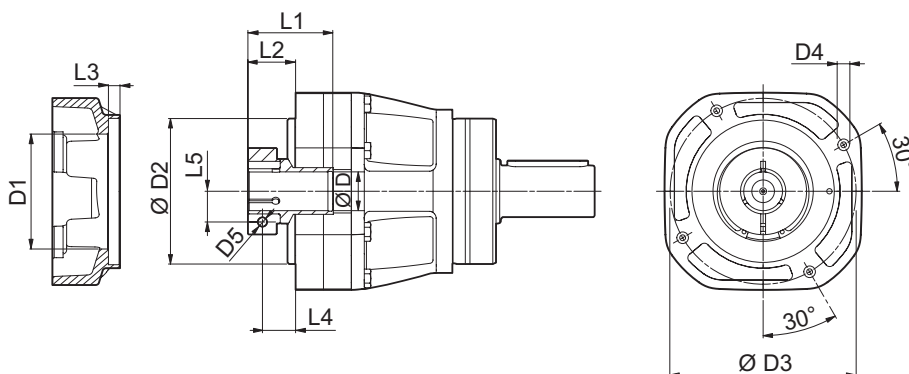
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



TQ 070

TQ

FM



	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]	≤		$\left[\frac{Nm}{arcmin} \right]$	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	%		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	–	

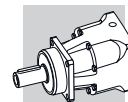


60A4 ... 180A1



TQ 090 2	8.9

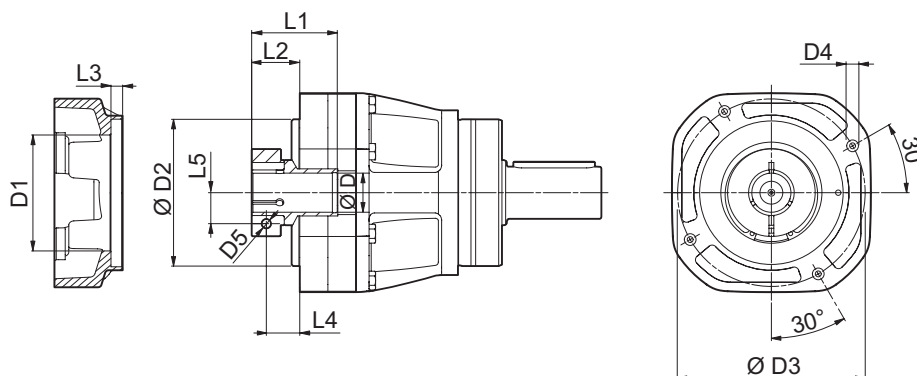
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



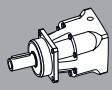
TQ 090

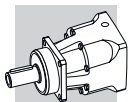
TQ

FM



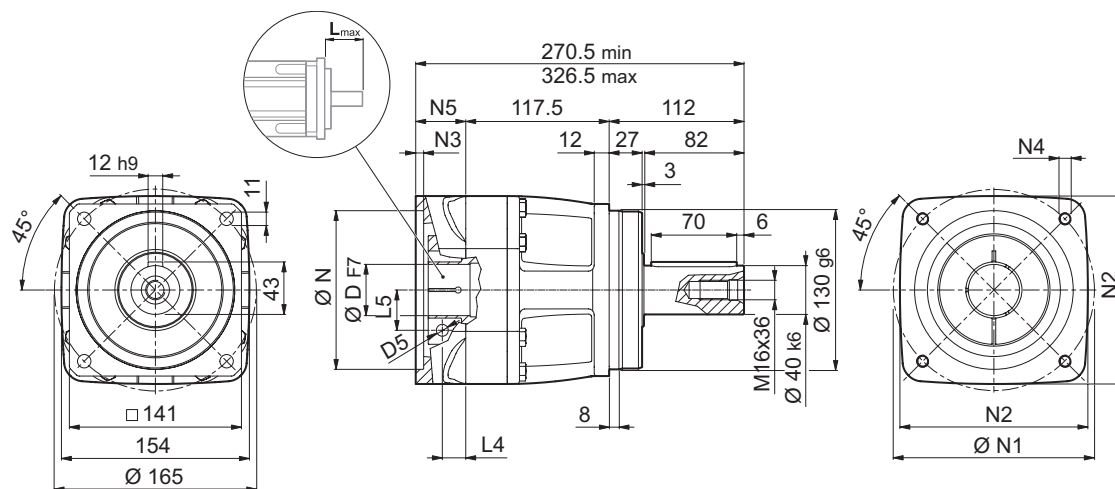
D	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQ 090 1										
11	51	90	115	M8x13	M6	50	28	6.5	20.5	14.5
14	51	90	115	M8x13	M6	50	28	6.5	20.5	14.5
19	51	90	115	M8x13	M6	50	28	6.5	20.5	16.5
24	60	90	115	M8x13	M6	51.5	29.5	6.5	20.5	19
28	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	22.5
32	72	90	115	M8x13	M8	51.5	29.5	6.5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

	i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Φ _S [arcmin]	Φ _R [arcmin]	C _t [Nm/arcmin]	SB		HB		η %	J _G [kgcm ²]				
										R _{2 max} [N]	A _{2 max} [N]	R _{2 max} [N]	A _{2 max} [N]						
TQ 090 1_3		130	200	400	2500	4500	3'	2'	28	4800	4300	6600	5900	97	11	14 - 19	24	28	32-38
TQ 090 1_4		200	300	500	2500	4500	3'	2'	28	4800	4300	6600	5900	97	11	14 - 19	24	28	32-38
TQ 090 1_5		180	280	500	2500	4500	3'	2'	28	4800	4300	6600	5900	97	11	14 - 19	24	28	32-38
TQ 090 1_7		160	250	500	3000	4500	3'	2'	28	4800	4300	6600	5900	97	11	14 - 19	24	28	32-38
TQ 090 1_10		110	170	350	3000	4500	3'	2'	28	4800	4300	6600	5900	97	11	14 - 19	24	28	32-38
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	-	-



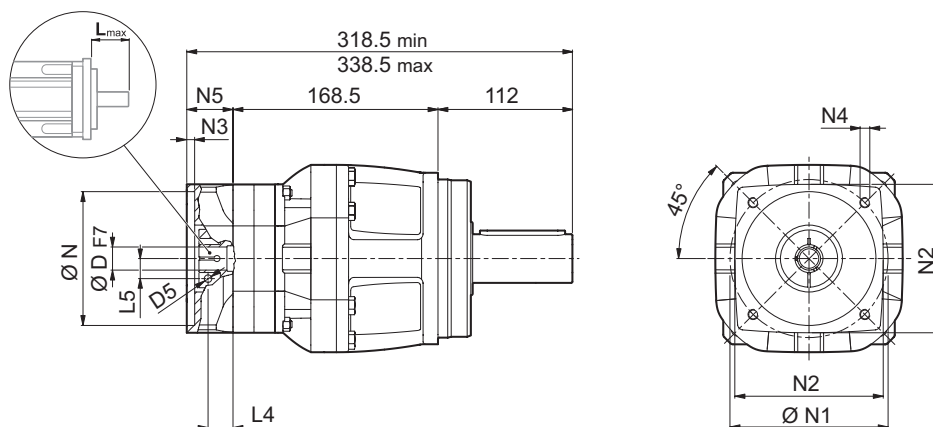
TQ 130

80A3 ... 200A



	TQ 130 1
	15.6

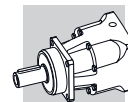
60A4 ... 180A1



	TQ 130 2
	19.1

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

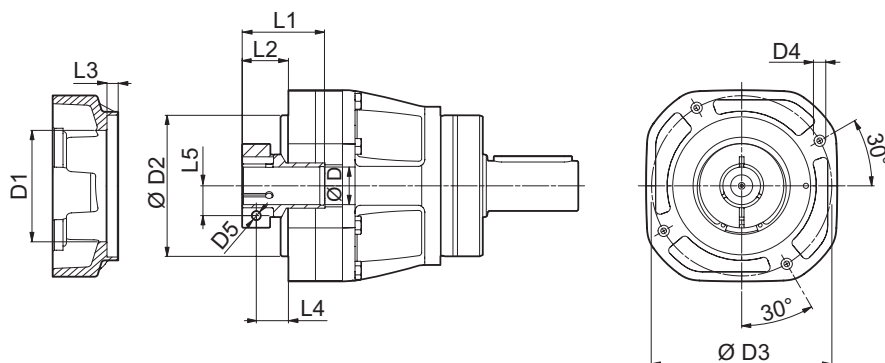
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



TQ 130

TQ

FM



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

	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]	%					
												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	–

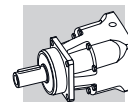


95A2 ... 230A



TQ 160 2	37.4

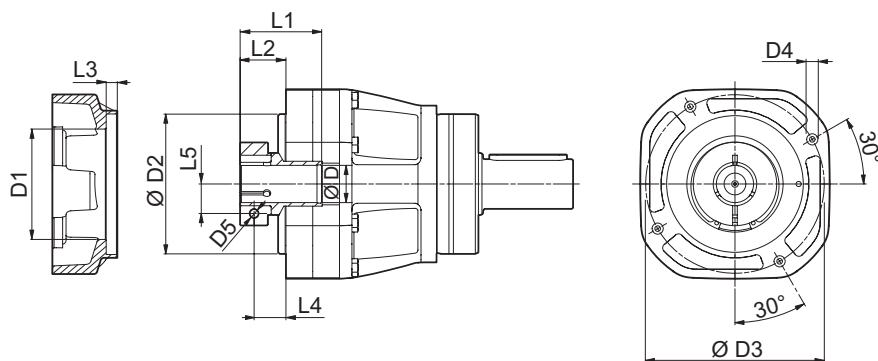
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



TQ 160

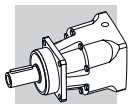
TQ

FM

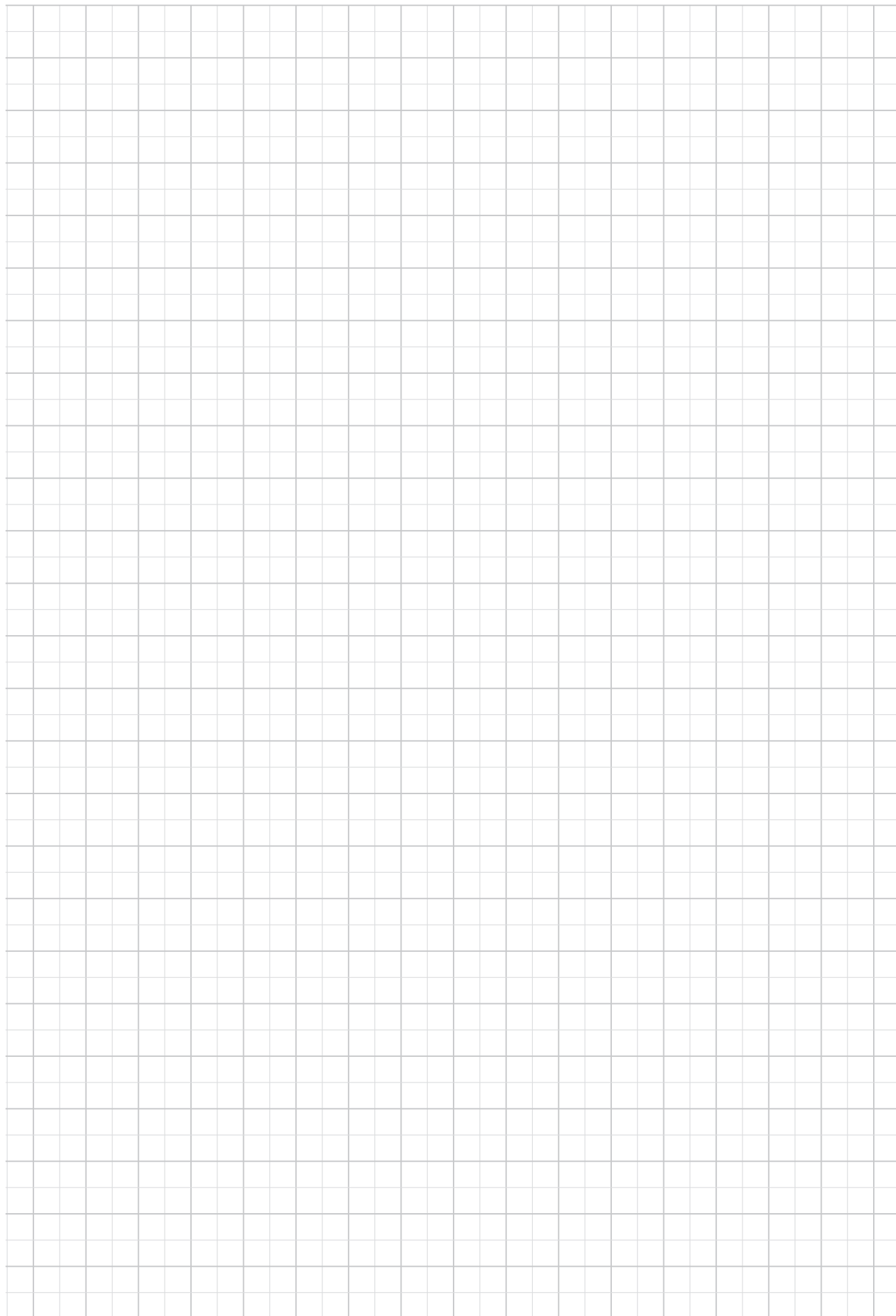


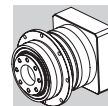
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQ 160 1										
19	58	150	175	M12x20	M6	47	37	9.5	28	19
24	58	150	175	M12x20	M6	47	37	9.5	28	19
28	70	150	175	M12x20	M8	47	37	9.5	28	22.5
32	72	150	175	M12x20	M8	47	37	9.5	28	24.5
38	100	150	175	M12x20	M8	59.5	39.5	9.5	28	28
42	114	150	175	M12x20	M10	57	43	9.5	28	33
48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

	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]	≤		$\frac{Nm}{arcmin}$	[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	–



TQ



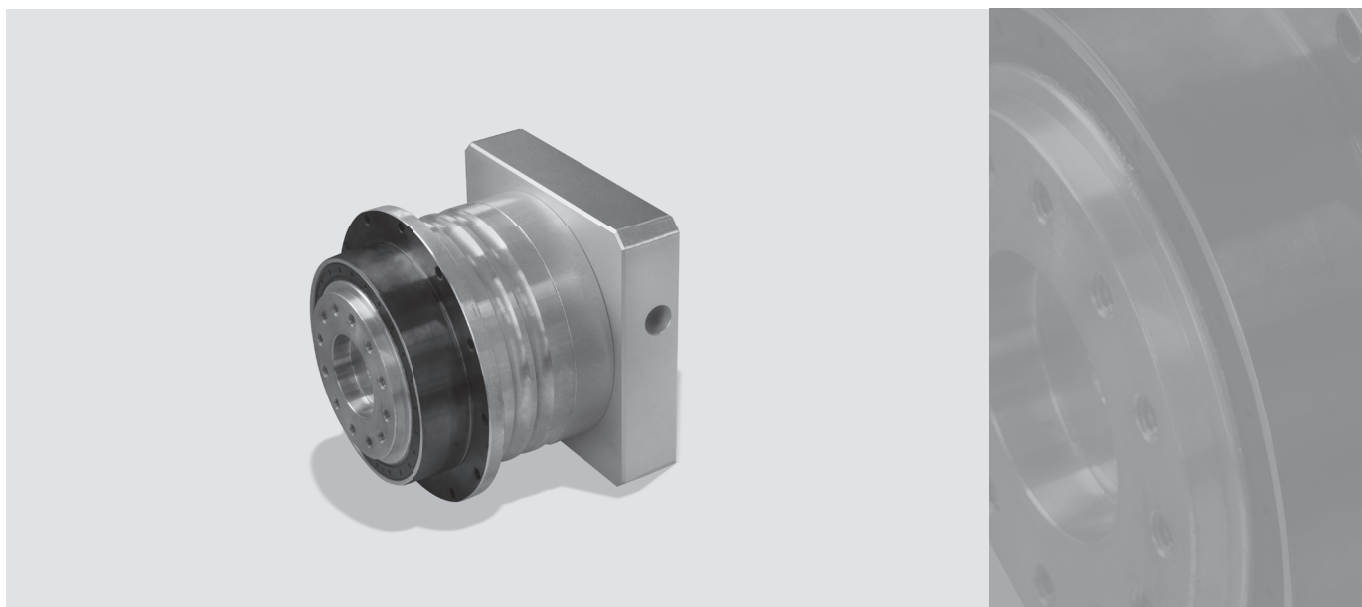


Nuovo TQF

RIDUTTORE EPICICLOIDALE DI PRECISIONE FLANGIATO

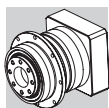
La serie TQF si posiziona ai vertici della gamma. Questo riduttore planetario è impressionante sotto molti aspetti. Offre prestazioni di assoluto rilievo in termini di coppia, robustezza e precisione. Ideale dove sono richieste elevata precisione di posizionamento, funzionamento ciclico altamente dinamico e soluzioni compatte.

TQF



Caratteristiche di prodotto:

- Eccezionale densità di coppia unito ad un design compatto
- Elevate Coppie nominali e acceleranti
- Massima capacità di carico radiale e assiale
- Coppia di ribaltamento e rigidità elevata
- Gioco di precisione minore di ≤ 3 arcmin
- Flangia di Uscita simile alla normativa EN ISO 9409
- Progettato per funzionamenti ciclici e continuativi
- Funzionamento silenzioso
- Design universale per ogni posizione di montaggio



3 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.

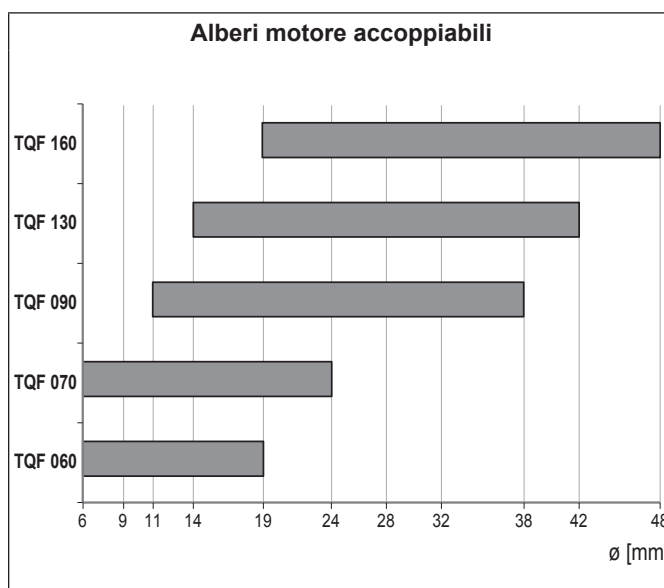
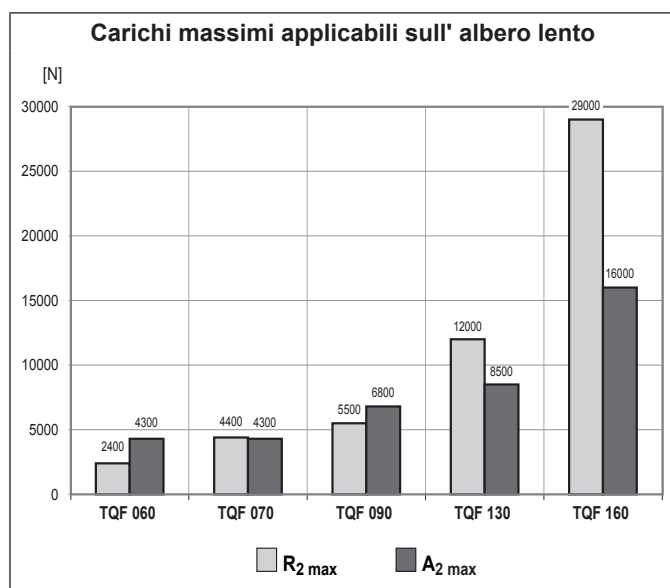
Il loro design e la loro forma costruttiva sono stati studiati con l'obiettivo di poter offrire una linea di prodotti con prestazioni eccezionali, i più alti livelli di rigidità, gioco ridotto e compattezza.

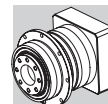
- La serie TQF dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
1 stadio di riduzione: standard $\varphi_S \leq 5'$ ridotto $\varphi_R \leq 3'$
2 stadi di riduzione: standard $\varphi_S \leq 7'$ ridotto $\varphi_R \leq 5'$
- Elevato grado di protezione contro 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 $n_1=3000$ min⁻¹; $i=10$.
- Ampia possibilità di abbinamento alle marche e ai modelli di servomotori più diffusi.
- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

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

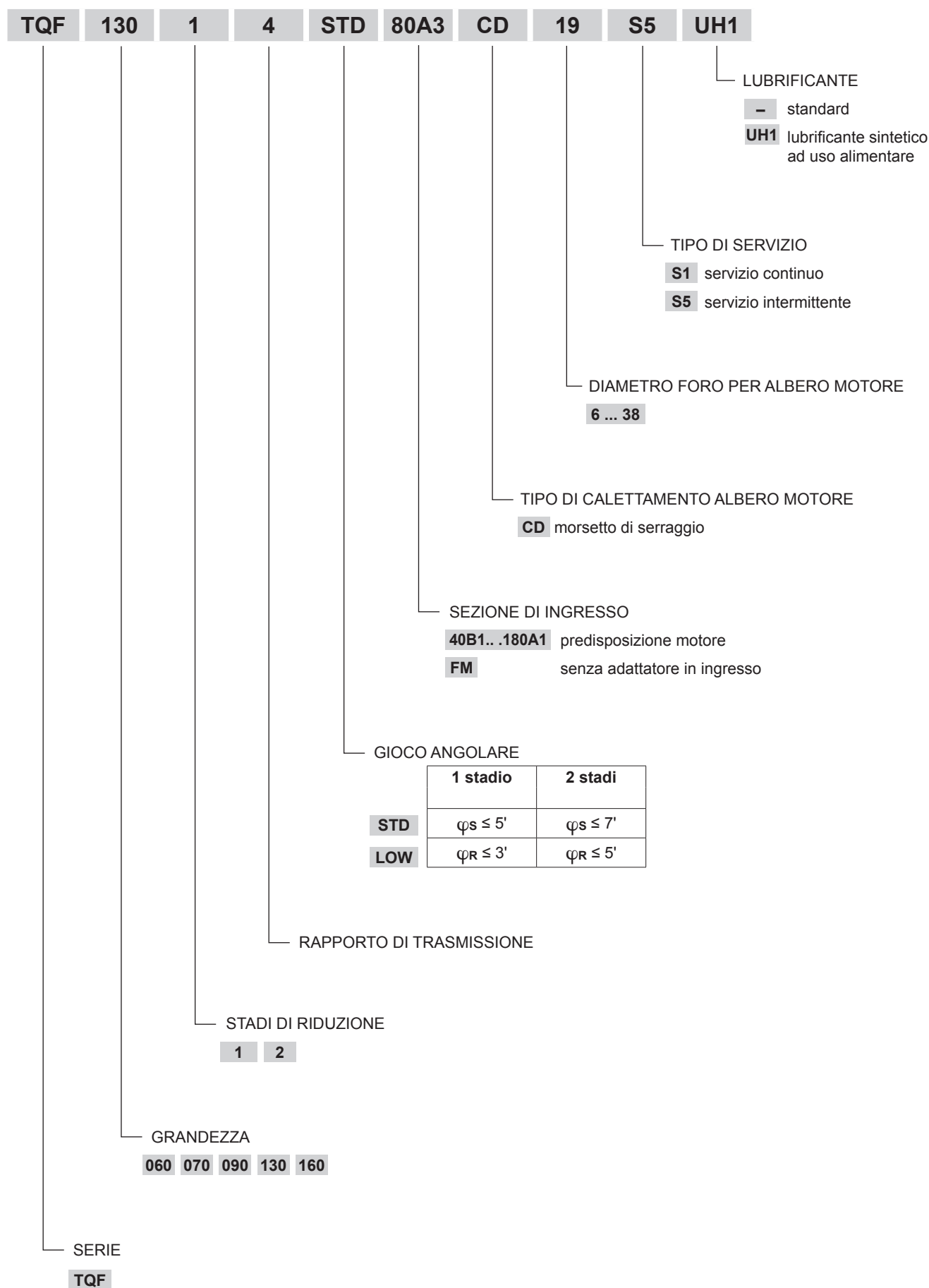
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico f_T .
- La temperatura sulla cassa non deve superare $T_{max} = 90^\circ\text{C}$.

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

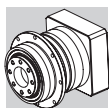




3.1 CODICE ORDINATIVO



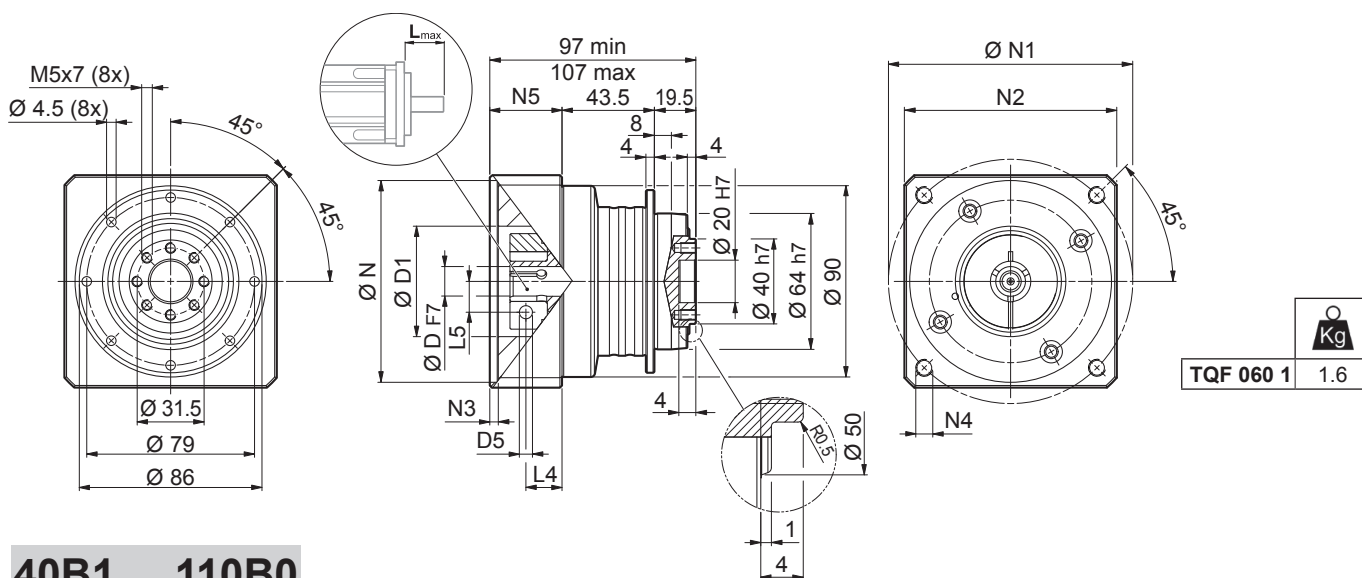
TQF



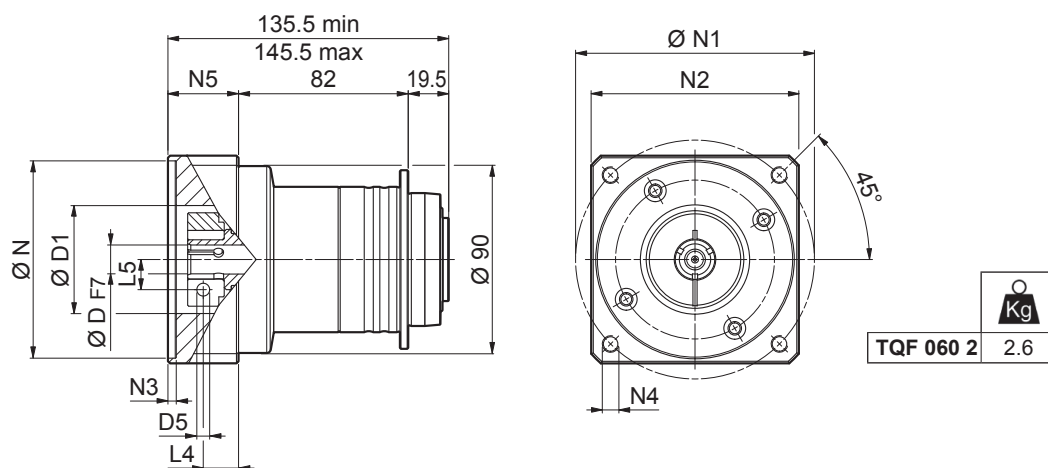
3.2 DIMENSIONI E DATI TECNICI

TQF 060

TQF

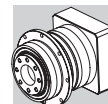


40B1 ... 110B0



							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

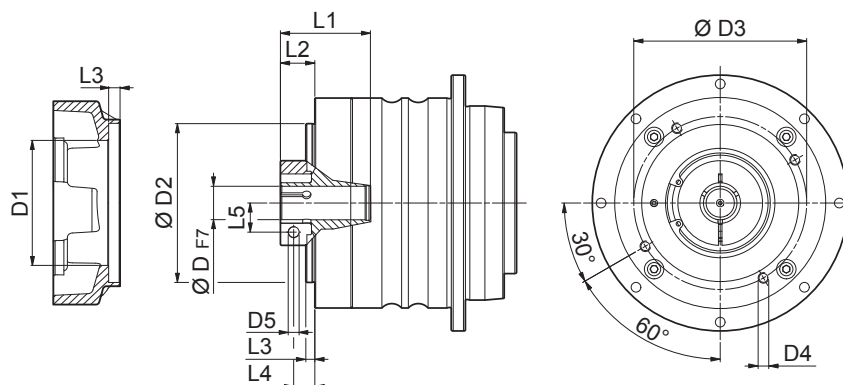
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



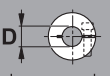
TQF 060

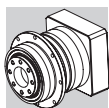
TQF

FM



	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	37	68	76.5	M6x12	M4	31.5	21.5	7.5	16	8
9	49	68	76.5	M6x12	M5	35	24.5	7.5	17	10.5
11	49	68	76.5	M6x12	M6	35	24.5	7.5	17	12.5
14	49	68	76.5	M6x12	M6	35	24.5	7.5	17	14.5
19	54	68	76.5	M6x12	M6	35	24.5	7.5	17	16.5

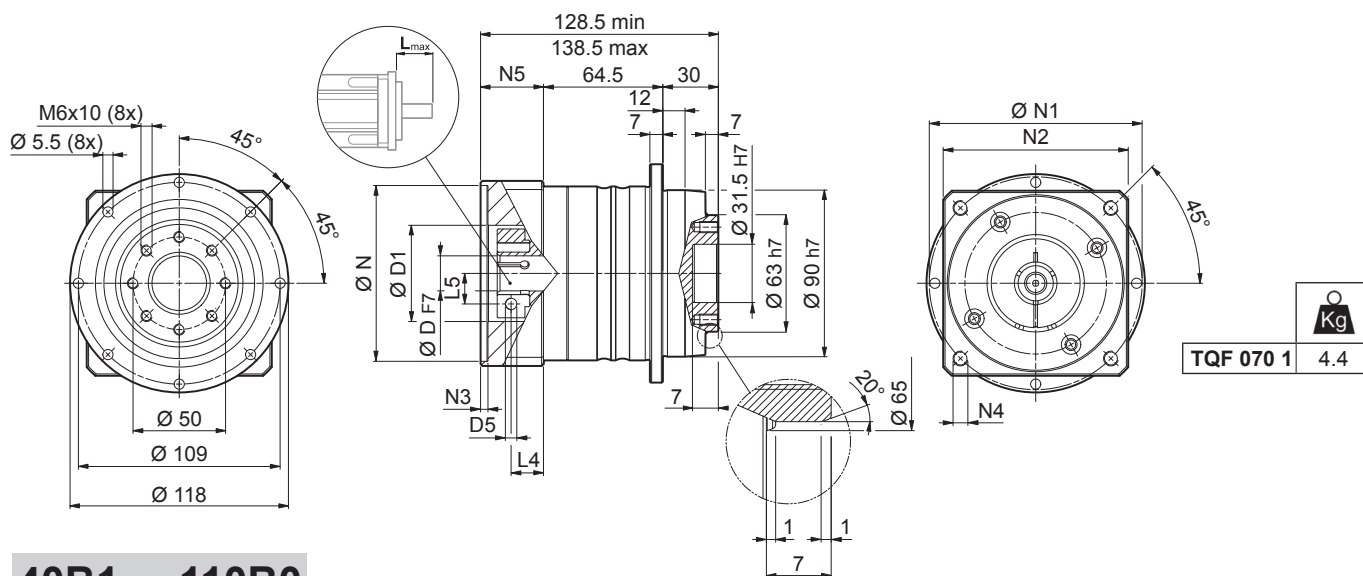
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤			$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%		6 - 9
TQF 060 1_4		30	45	80	3500	6000	5'	3'	12	2400	4300	97	0.32	0.43	0.47
TQF 060 1_5		30	45	80	3500	6000	5'	3'	12	2400	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



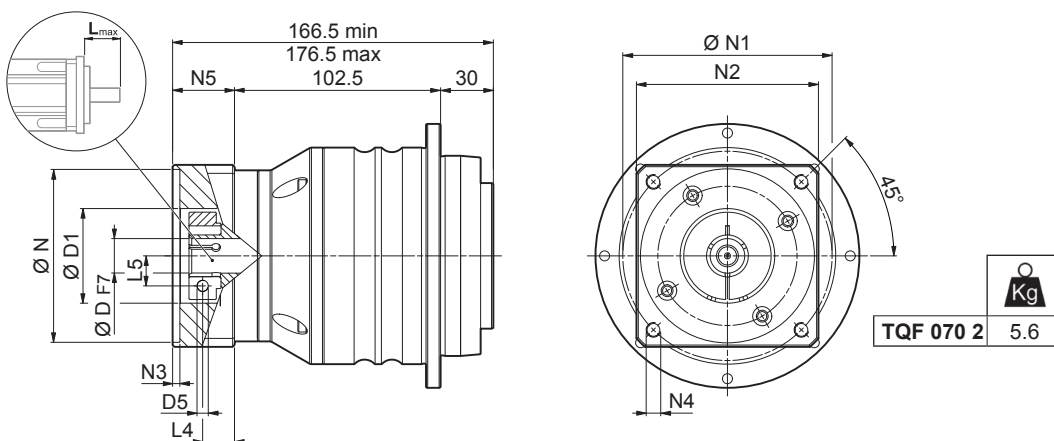
TQF 070

50C2 ... 130A

TQF

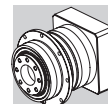


40B1 ... 110B0



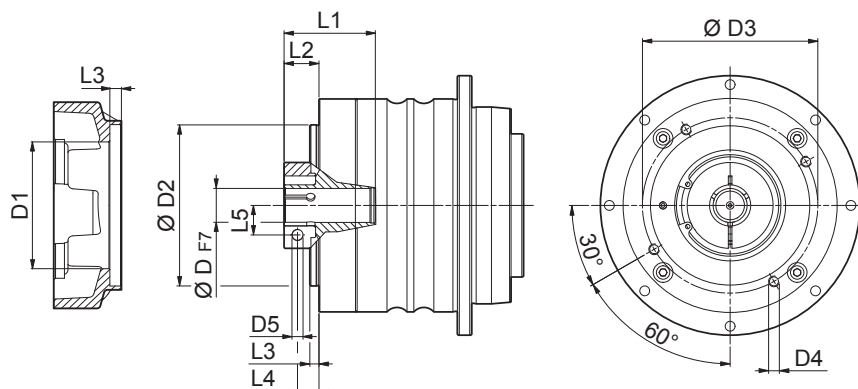
							N	N1	N2	N3	N4	N5	L _{max}
TQF 070 1													
50C2	6	9	11	14	-	-	50	70	80	4	M4x10	34	50
60A3	6	9	11	14	19	-	60	75	80	4	M5x16	34	50
70B2	6	9	11	14	19	-	70	90	80	4	M5x16	34	50
80A2	6	9	11	14	19	-	80	100	90	4	M6x16	34	50
95A1	6	9	11	14	19	24	95	115	100	6.5	M8x20	34	50
110A1	6	9	11	14	19	24	110	130	115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

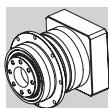
FM



TQF

	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 070 1										
6	37	68	76.5	M6x14	M4	45	23	9	19	8
9	49	68	76.5	M6x14	M5	42	26	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	21.5	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

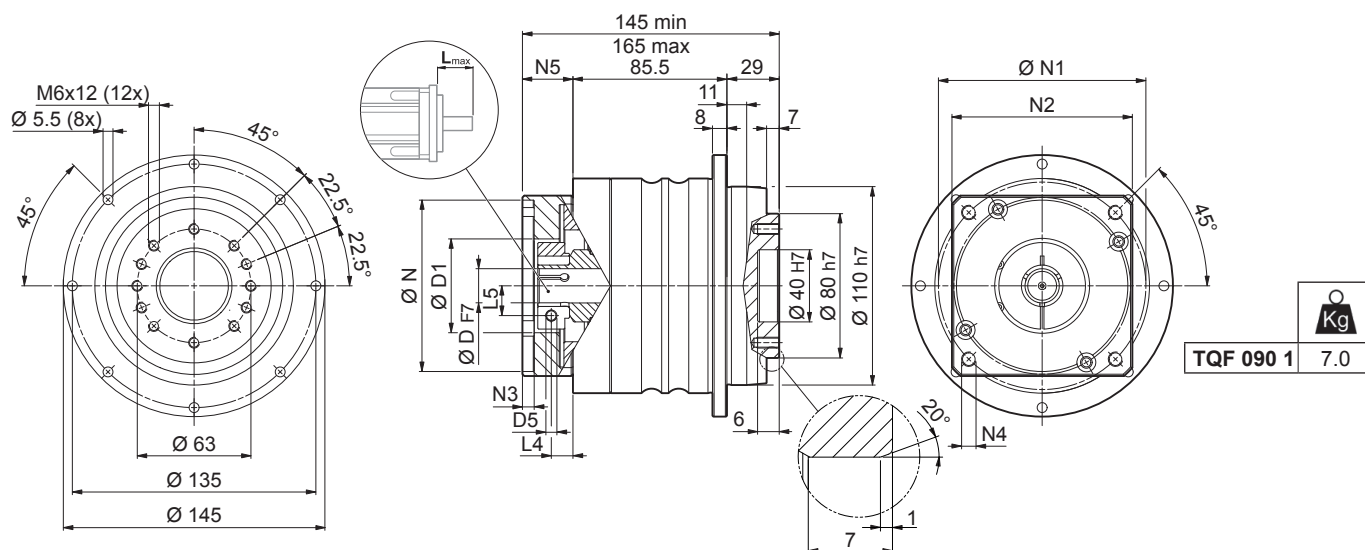
	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤		Nm arcmin	[N]	[N]	%	6 - 9	11 - 14	19	24
TQF 070 1_4	70	100	180	3000	6000	5'	3'	29	4400	4300	97	-	1.05	1.09	1.22
TQF 070 1_5	70	100	180	3000	6000	5'	3'	29	4400	4300	97	-	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	-



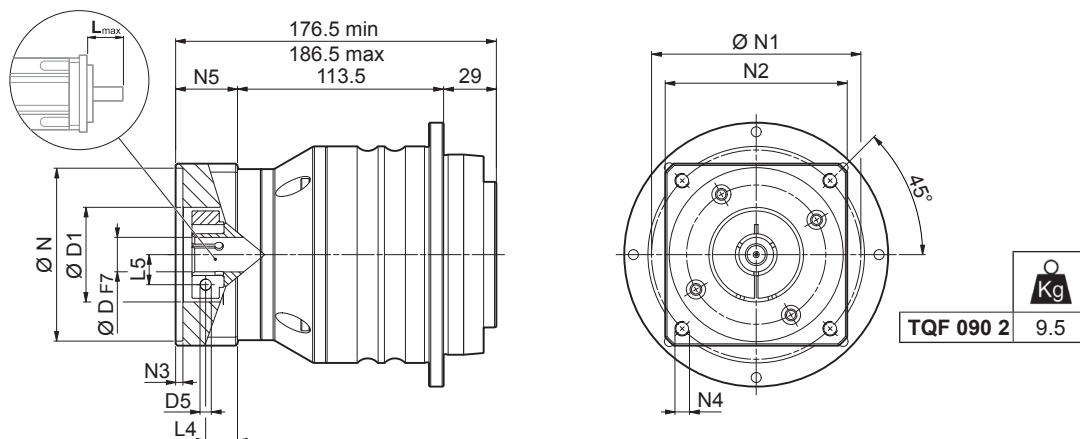
TQF 090

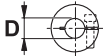
60A4 ... 180A

TQF

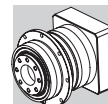


50C2 ... 130A



							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	28	-	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

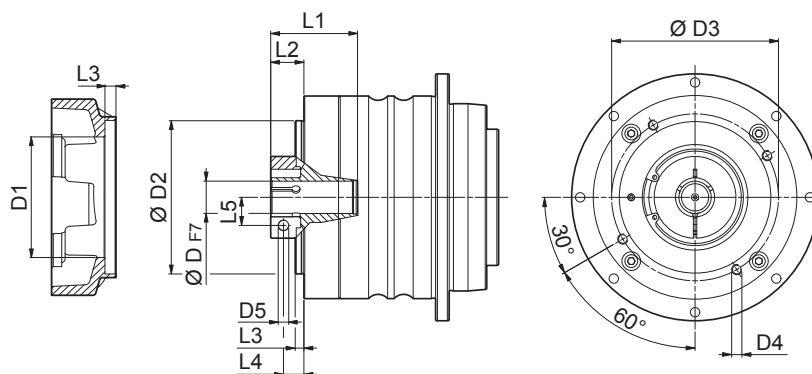
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



TQF 090

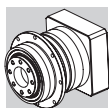
TQF

FM



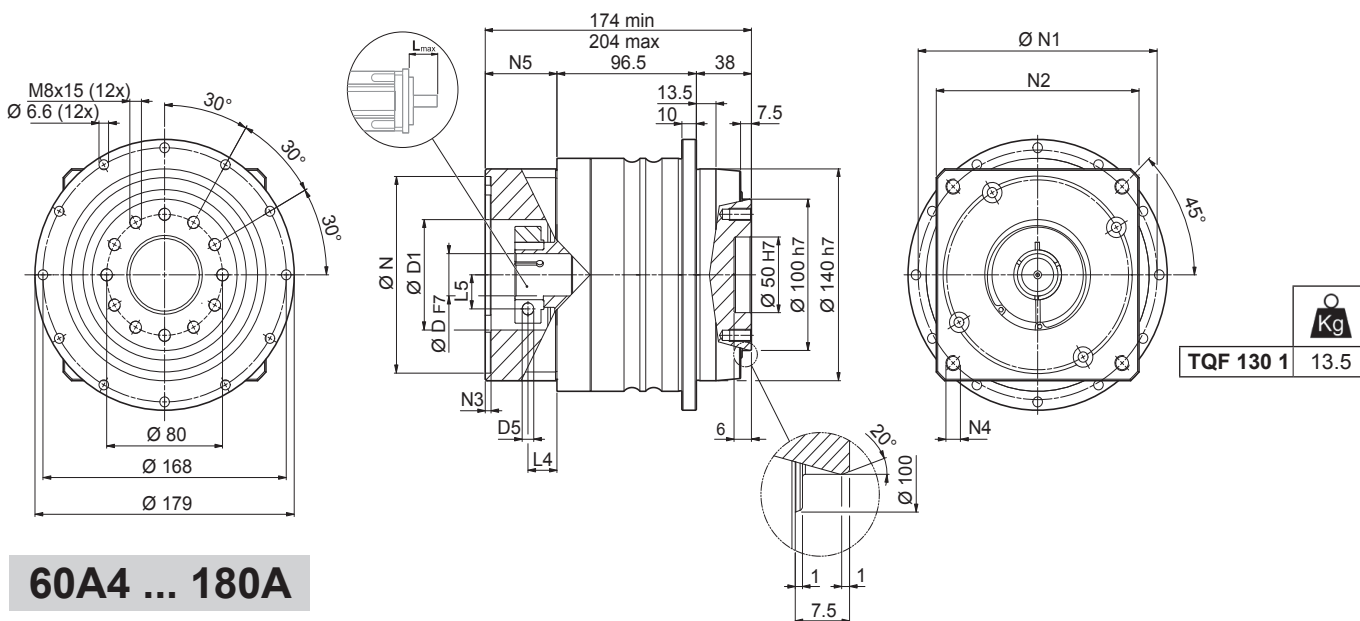
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 090 1										
11	49	90	98	M6x12	M6	50	17	4	9.5	12.5
14	51	90	98	M6x12	M6	50	17	4	9.5	14.5
19	51	90	98	M6x12	M6	50	17	4	9.5	16.5
24	60	90	98	M6x12	M6	51.5	18.5	4	9.5	19
28	72	90	98	M6x12	M8	51.5	18.5	4	9.5	22.5
32	72	90	98	M6x12	M8	51.5	18.5	5	12	24.5
38	80	90	98	M6x12	M8	51.5	18.5	5	12	28
TQF 090 2										
6	37	68	76.5	M6x14	M4	45	23	9	19	8
9	49	68	76.5	M6x14	M5	42	26	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	25	9	17.5	19

	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]	%	11	14 - 19	24	28	32-38	
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	-	-

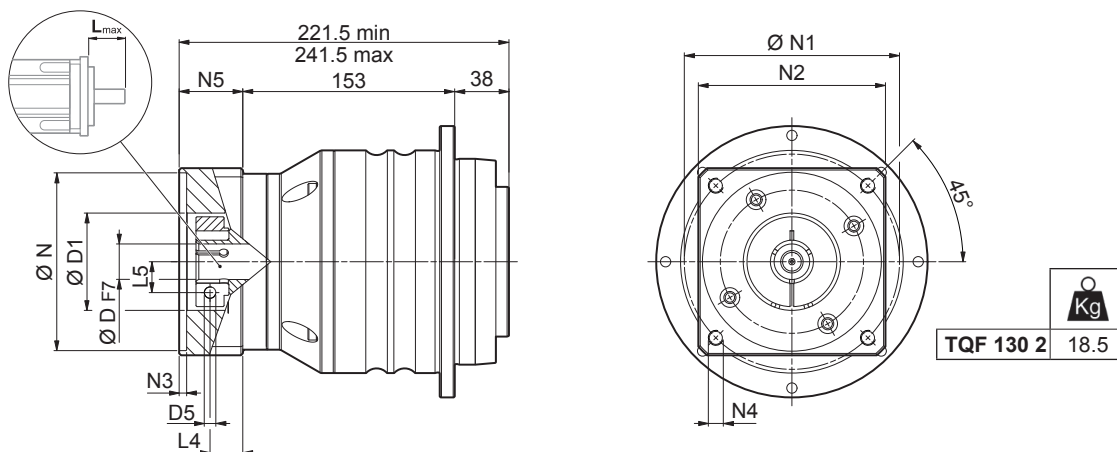


TQF 130

80A3 ... 180A1

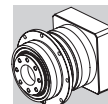


60A4 ... 180A



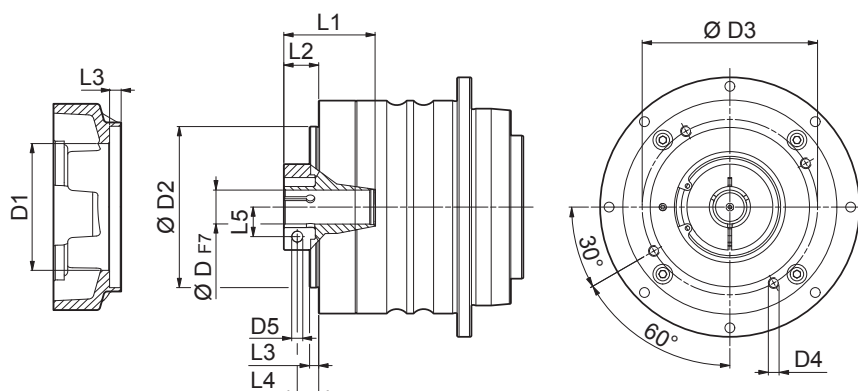
							N	N1	N2	N3	N4	N5	L _{max}
TQF 130 1													
80A3	14	19	-	-	-	-	80	100	130	4	M6x15	39.5	60
95A2	14	19	24	28	-	-	95	115	130	6.5	M8x20	39.5	60
110A2	14	19	24	-	-	-	110	130	130	4	M8x20	39.5	60
110B1	14	19	24	28	-	-	110	145	130	6.5	M8x20	49.5	60
130A1	14	19	24	28	32	-	130	165	140	4	M10x20	39	60
180A	14	19	24	28	32	38	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

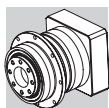
FM



TQF

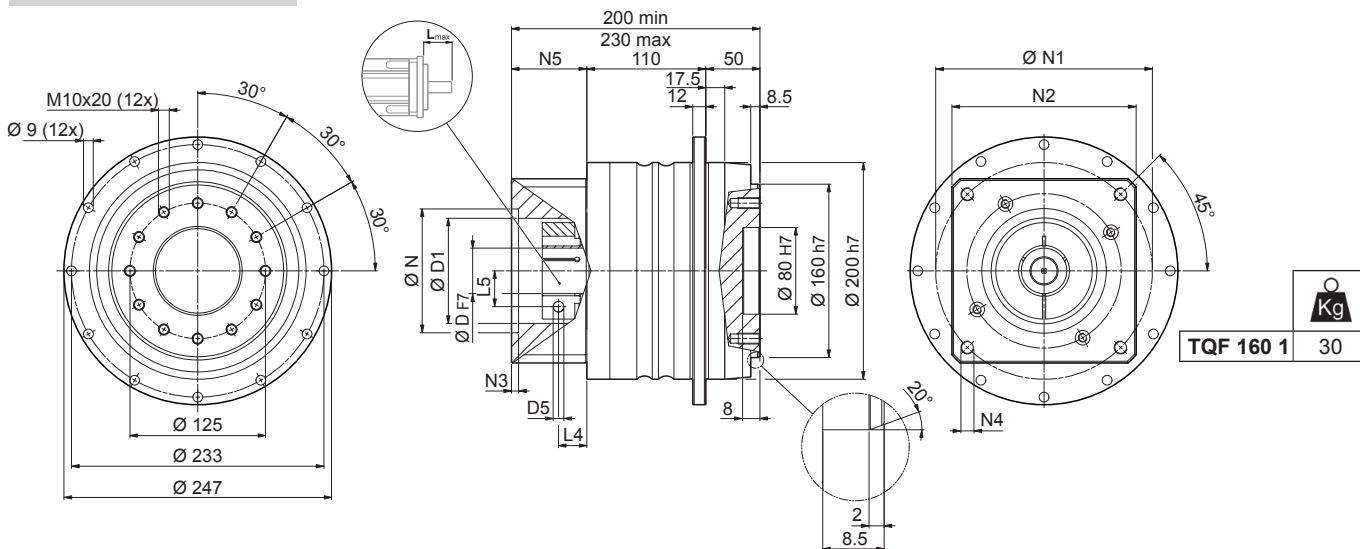
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 130 1										
14	51	113	125.5	M8x16	M6	50	30.5	5	23	14.5
19	54	113	125.5	M8x16	M6	50	27.5	5	20	16.5
24	70	113	125.5	M8x16	M6	51.5	29	5	20	19
28	70	113	125.5	M8x16	M8	51.5	29	5	20	22.5
32	72	113	125.5	M8x16	M8	51.5	29	5	20	24.5
38	100	113	125.5	M8x16	M8	54	31.5	5	20	28
42	114	113	125.5	M8x16	M10	51.5	35	5	20	33
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	18.5	5	12	24.5
38	80	90	98	M6x12	M8	51.5	18.5	5	12	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]	≤		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%					
												14	19 - 24	28 - 32	38	42
TQF 130 1_4	400	600	1000	2100	4000	5'	3'	180	12000	8500	97	-	8.14	8.61	9.25	15.25
TQF 130 1_5	400	600	1000	2500	4000	5'	3'	180	12000	8500	97	-	6.13	6.59	7.24	13.24
TQF 130 1_7	360	550	950	2500	4000	5'	3'	180	12000	8500	97	-	4,40	4.86	5,50	11,50
TQF 130 1_10	280	420	900	2500	4000	5'	3'	180	12000	8500	97	-	3.43	3.89	4.53	10.53
TQF 130 2_16	400	600	1000	2800	4000	7'	5'	180	12000	8500	94	1.89	2.05	3.71	3.71	-
TQF 130 2_20	400	600	1000	2800	4000	7'	5'	180	12000	8500	94	1.77	1.92	3.58	3.58	-
TQF 130 2_25	400	600	1000	2800	4000	7'	5'	180	12000	8500	94	1.47	1.63	3.29	3.29	-
TQF 130 2_28	400	600	1000	2800	4000	7'	5'	180	12000	8500	94	1.26	1.41	3.07	3.07	-
TQF 130 2_35	400	600	1000	2800	4000	7'	5'	180	12000	8500	94	1.22	1.37	3.03	3.03	-
TQF 130 2_40	400	600	1000	3200	4000	7'	5'	180	12000	8500	94	1,10	1.25	2.91	2.91	-
TQF 130 2_50	400	600	1000	3200	4000	7'	5'	180	12000	8500	94	1.08	1.23	2.89	2.89	-
TQF 130 2_70	360	550	950	3500	4000	7'	5'	180	12000	8500	94	1.06	1.22	2.88	2.88	-
TQF 130 2_100	280	420	900	4000	4000	7'	5'	180	12000	8500	94	1.05	1.21	2.87	2.87	-

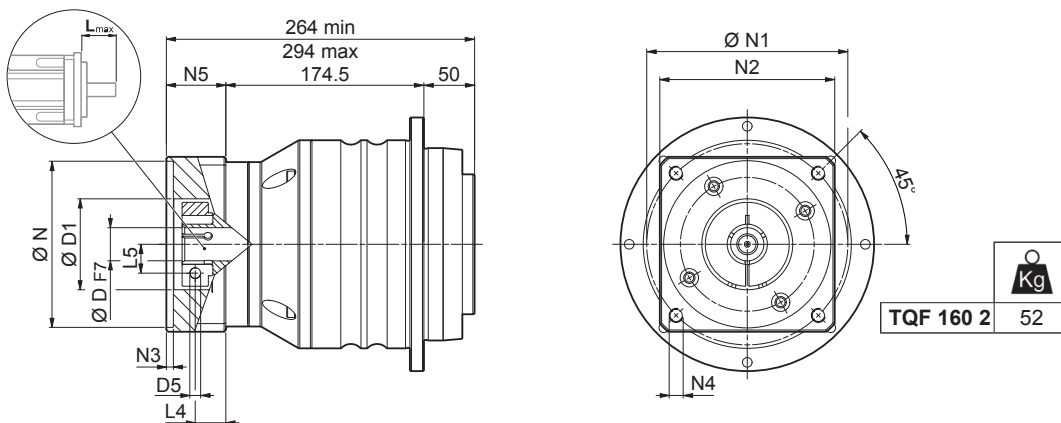


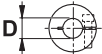
TQF 160

95A2 ... 180A1

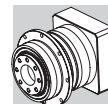


80A3 ... 180A1



						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	

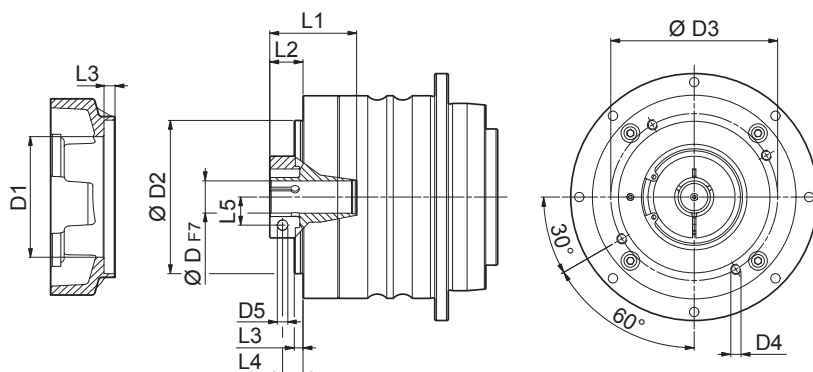
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



TQF 160

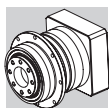
TQF

FM

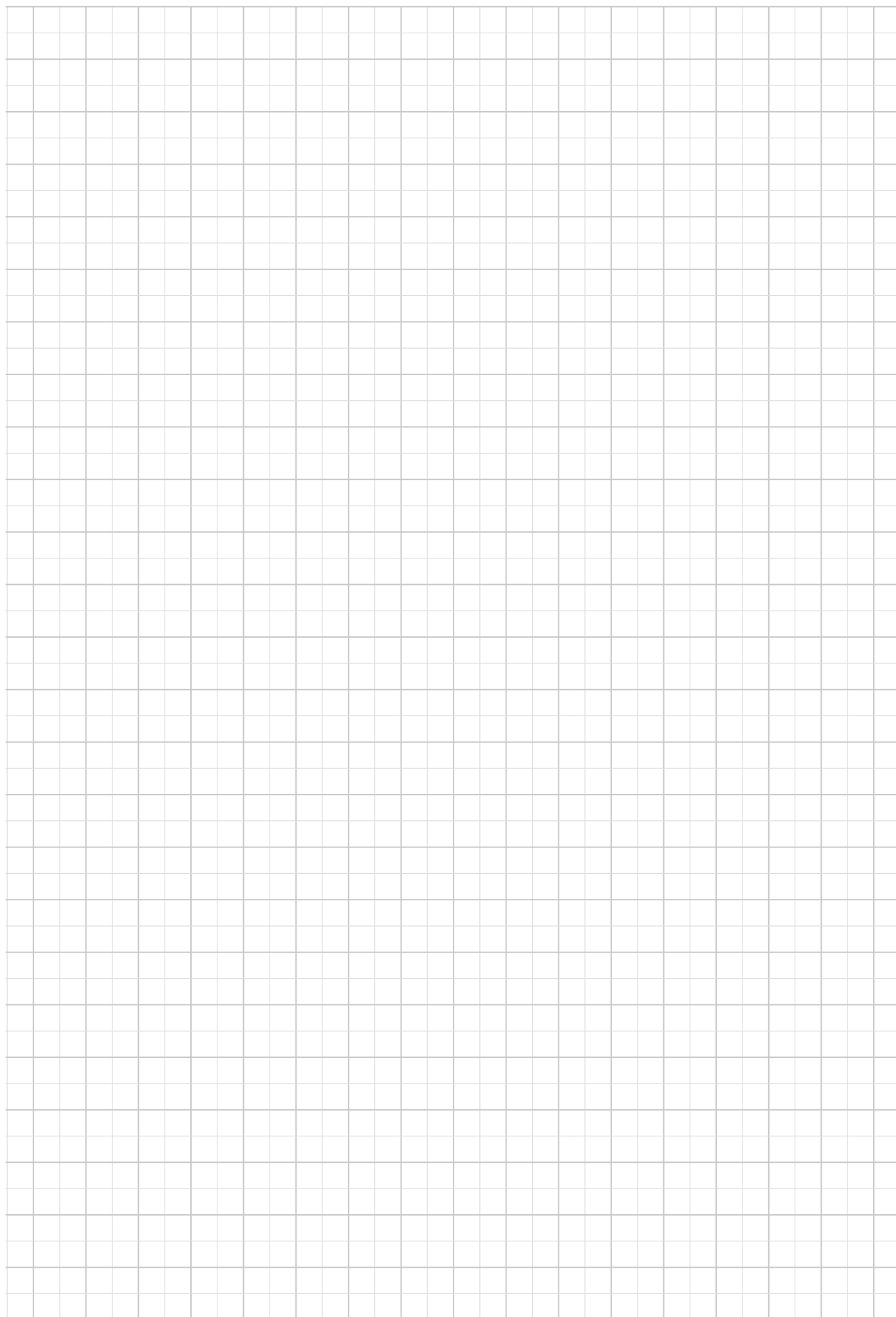


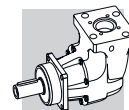
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 160 1										
19	54	130	142.5	M8x16	M6	47	33.5	8	26	16.5
24	58	130	142.5	M8x16	M6	47	35	8	26	19
28	70	130	142.5	M8x16	M8	47	35	8	26	22.5
32	72	130	142.5	M8x16	M8	47	35	8	26	24.5
38	100	130	142.5	M8x16	M8	59.5	37.5	8	26	28
42	114	130	142.5	M8x16	M10	57	41	8	26	33
48	125	130	142.5	M8x16	M12	57	41	8	26	36.5
TQF 160 2										
14	51	113	125.5	M8x16	M6	50	30.5	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
42	114	113	125.5	M8x16	M10	51.5	35	5	20	33

	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]	≤		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%					
												19	24 - 28	32 - 38	42	48
TQF 160 1_4	800	1200	2000	1500	3500	5'	3'	500	29000	16000	97	-	27,10	27.51	30,40	43.51
TQF 160 1_5	800	1200	2000	1800	3500	5'	3'	500	29000	16000	97	-	18.22	18.63	21.52	34.63
TQF 160 1_7	750	1150	2000	2500	3500	5'	3'	500	29000	16000	97	-	13.46	13.87	16.77	29.88
TQF 160 1_10	550	850	1600	2500	3500	5'	3'	500	29000	16000	97	-	10.03	10.44	13.34	26.45
TQF 160 2_16	800	1200	2000	2800	3500	7'	5'	500	29000	16000	94	7.22	7.75	8.47	14.47	-
TQF 160 2_20	800	1200	2000	2800	3500	7'	5'	500	29000	16000	94	6.67	7,20	7.92	13.92	-
TQF 160 2_25	800	1200	2000	2800	3500	7'	5'	500	29000	16000	94	5.13	5.66	6.38	12.38	-
TQF 160 2_28	800	1200	2000	2800	3500	7'	5'	500	29000	16000	94	4,00	4.53	5.25	11.25	-
TQF 160 2_35	800	1200	2000	2800	3500	7'	5'	500	29000	16000	94	3.82	4.34	5.07	11.07	-
TQF 160 2_40	800	1200	2000	2800	3500	7'	5'	500	29000	16000	94	3.16	3.69	4.41	10.41	-
TQF 160 2_50	800	1200	2000	2800	3500	7'	5'	500	29000	16000	94	3.07	3,60	4.32	10.32	-
TQF 160 2_70	750	1150	2000	3000	3500	7'	5'	500	29000	16000	94	3.02	3.55	4.27	10.27	-
TQF 160 2_100	550	850	1600	3000	3500	7'	5'	500	29000	16000	94	2.99	3.52	4.24	10.24	-



TQF





TQK

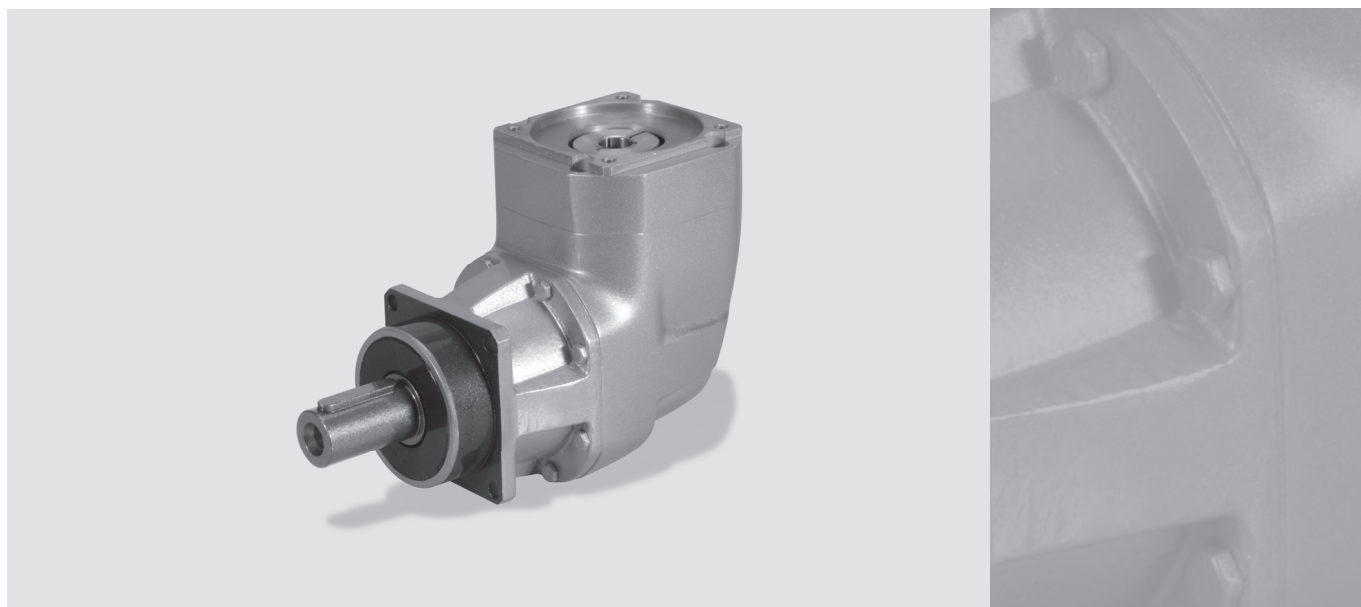
RIDUTTORE EPICICLOIDALE ORTOGONALE DI PRECISIONE

Il riduttore ortogonale TQK si posiziona ai vertici della gamma insieme alla serie coassiale TQ.

Questo eccezionale riduttore rappresenta la soluzione ideale ai problemi di spazio, spesso imposti da macchine sempre più compatte.

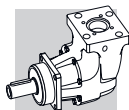
Questo interessante prodotto offre prestazioni di assoluto rilievo in termini di coppia, robustezza e precisione.

TQK



Caratteristiche di prodotto:

- Densità di coppia eccezionale
- Coppie nominali e acceleranti eccezionali
- Ottime capacità di carico radiale e assiale
- Progettato per funzionamenti ciclici e continuativi
- Rigidezza torsionale eccezionale nella sua categoria
- Gioco di precisione estremamente ridotto (≤ 4 arcmin)
- Funzionamento silenzioso
- Design universale per ogni posizione di montaggio



4 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.

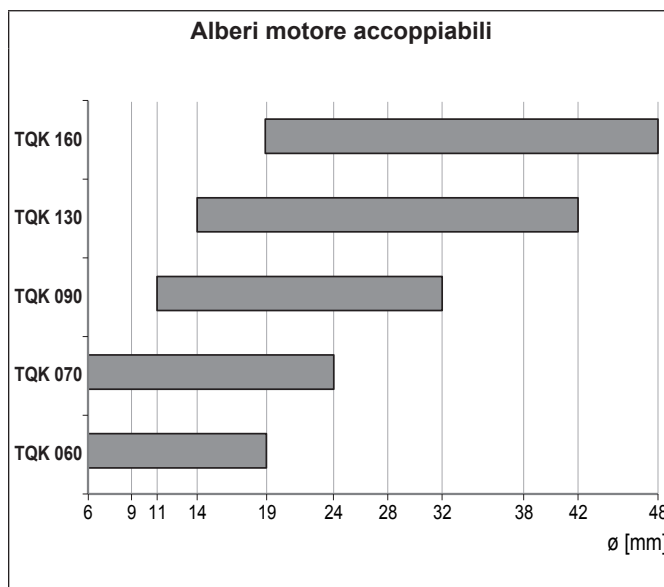
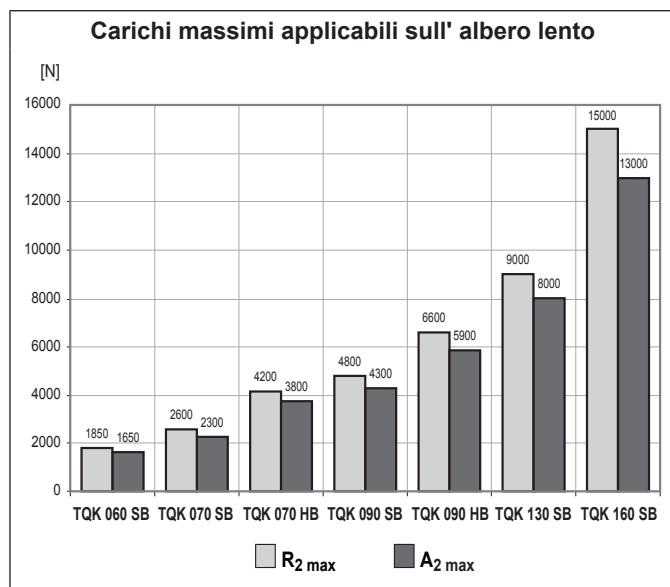
I gruppi ortogonali TQK coniugano prestazioni dinamiche elevate con una precisione al vertice della categoria, e tale da consentire grande accuratezza e ripetibilità ai posizionamenti in cui sono utilizzati. I gruppi TQK inoltre sono caratterizzati da un design tipicamente Italiano, che li rende immediatamente riconoscibili fra i prodotti similari dell'industria di riferimento.

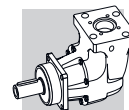
- La serie TQK dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
2 stadi di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 4'$ ($\varphi_S \leq 6'$; $\varphi_R \leq 5'$ per TQK 060 e TQK 070)
3 stadi di riduzione: standard $\varphi_S \leq 7'$; 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	altre tenute
S1 (continuo)	Olio sintetico viscosità ISO VG 220	Fluoro-elastomero
S5 (intermittente)	NLGI grasso con grado di consistenza 00	NBR

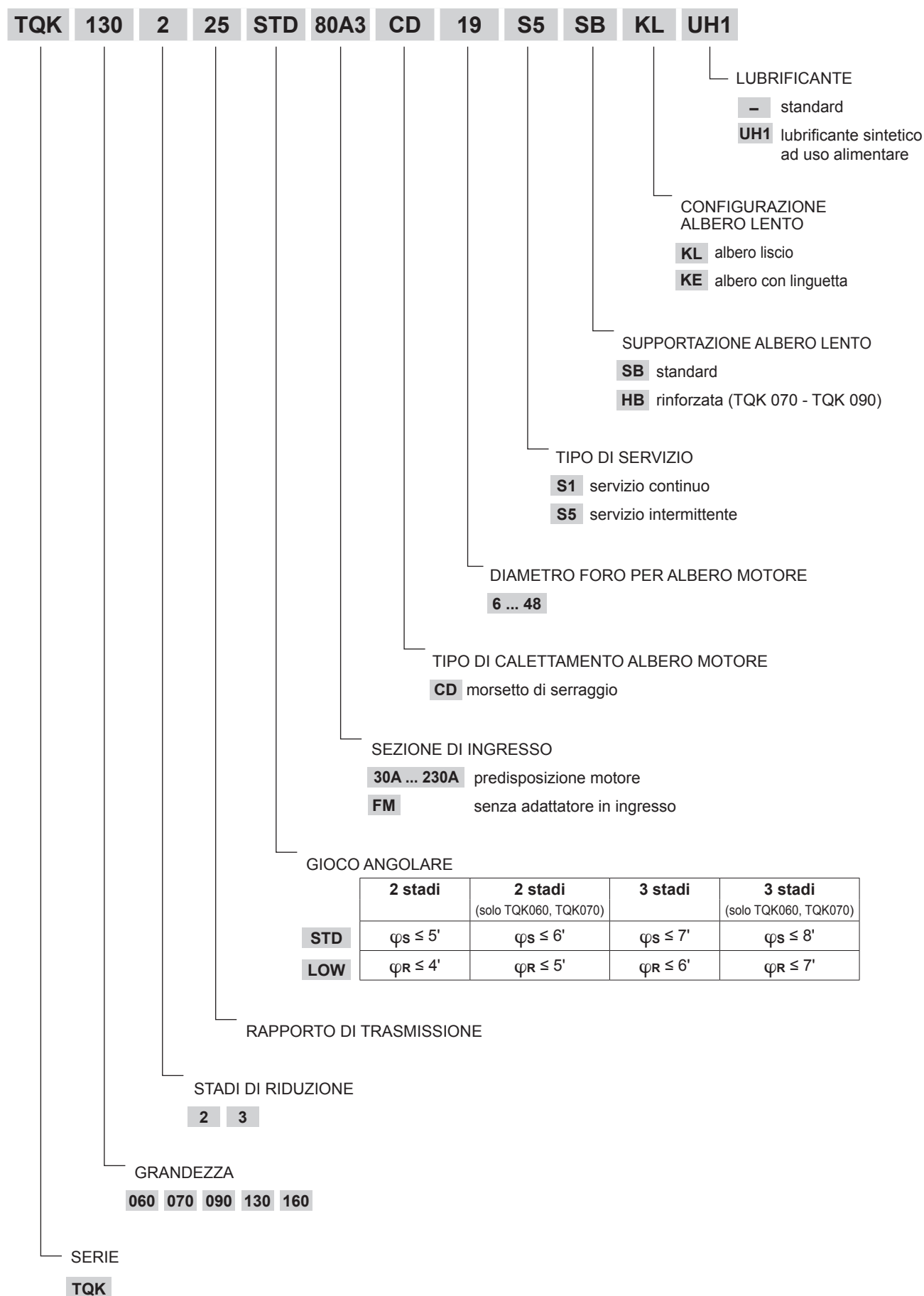
- Temperatura ambiente min -20°C , max $+30^\circ\text{C}$. Per temperature superiori a 30°C deve essere considerato il fattore termico f_T .
- La temperatura sulla cassa non deve superare $T_{\text{max}} = 90^\circ\text{C}$.

Distribuzione coppia nominale M _{n2} [Nm]															
[i]	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

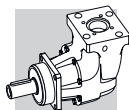




4.1 CODICE ORDINATIVO

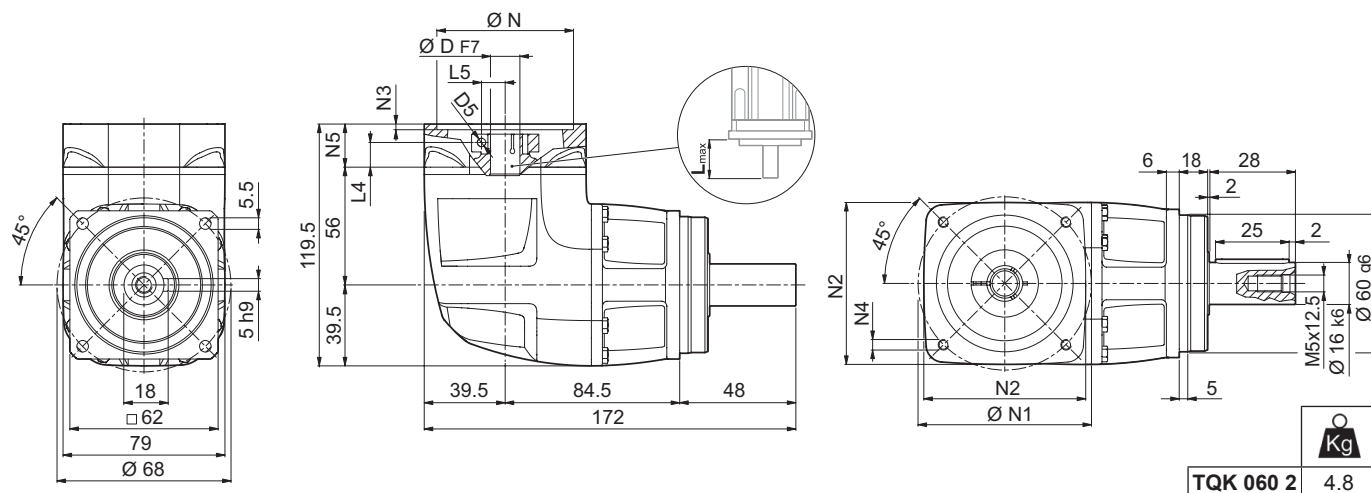


TQK

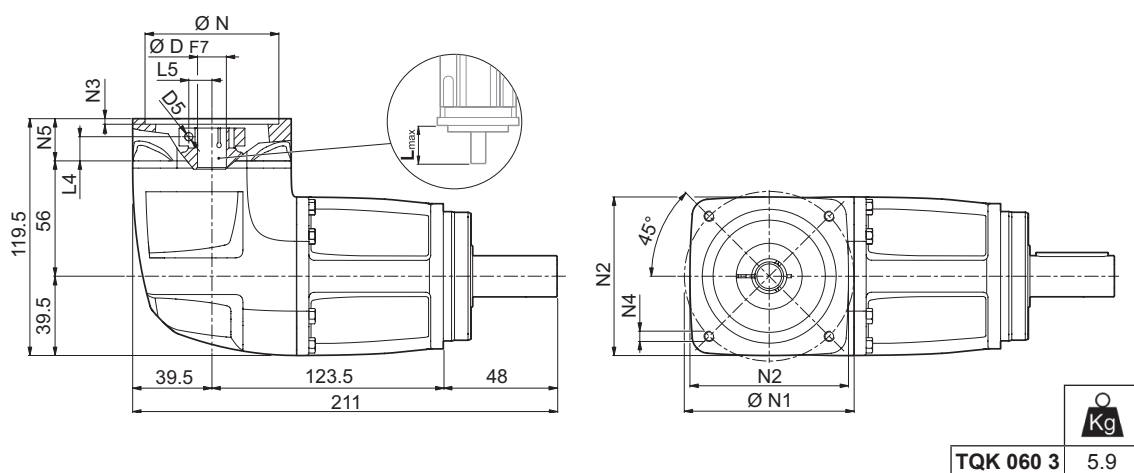


4.2 DIMENSIONI E DATI TECNICI

TQK 060

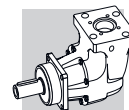


30A ... 110B0



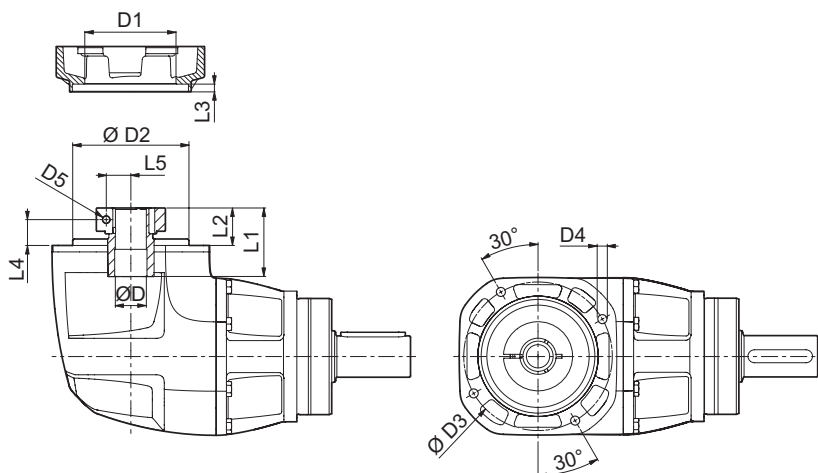
						N	N1	N2	N3	N4	N5	L _{max}
												
30A	6	—	—	—	—	30	46	60	3.5	M4x10	24	40
40B1	6	9	11	14	—	40	63	60	3.5	M4x10	24	40
50A1	6	9	11	14	—	50	60	60	4.0	M4x10	24	40
50C1	6	9	11	14	—	50	70	60	4.0	M4x10	24	40
60A2	6	9	11	14	19	60	75	80	4.0	M5x12	24	40
70B1	6	9	11	14	19	70	90	80	4.0	M5x12	24	40
80A1	6	9	11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

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



TQK 060

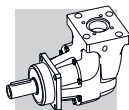
FM



TQK

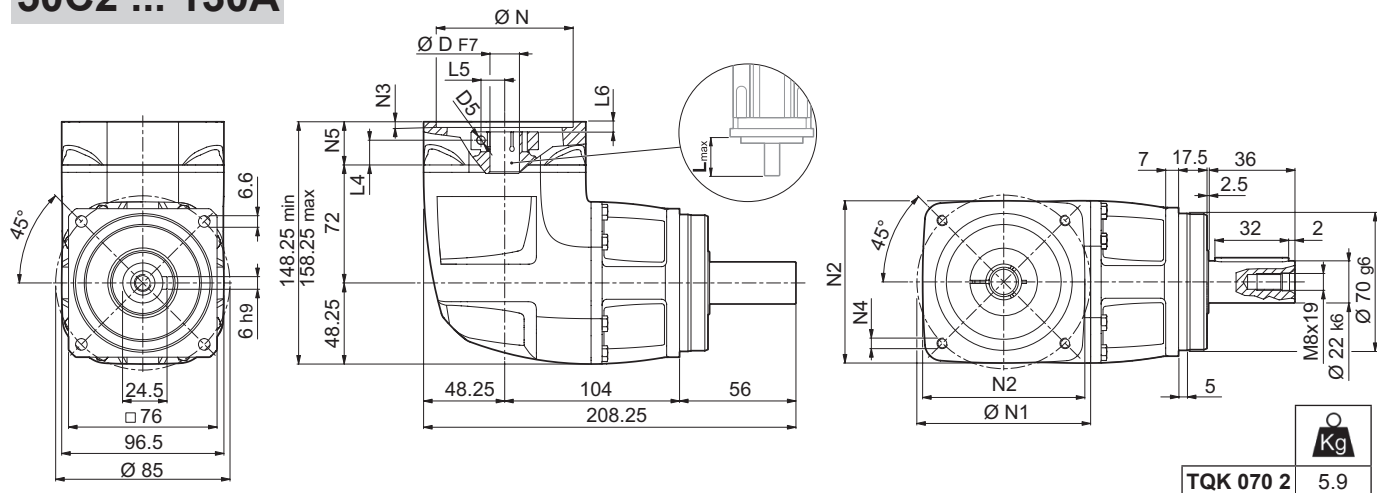
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	37	59	72	M5x11	M4	31.5	15.5	4.5	10.5	8
9	49	59	72	M5x11	M5	35	19	4.5	11.5	10.5
11	49	59	72	M5x11	M6	35	19	4.5	11.5	12.5
14	49	59	72	M5x11	M6	35	19	4.5	11.5	14.5
19	54	59	72	M5x11	M6	35	19	4.5	11.5	16.5

	i	M _{n 2}	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	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

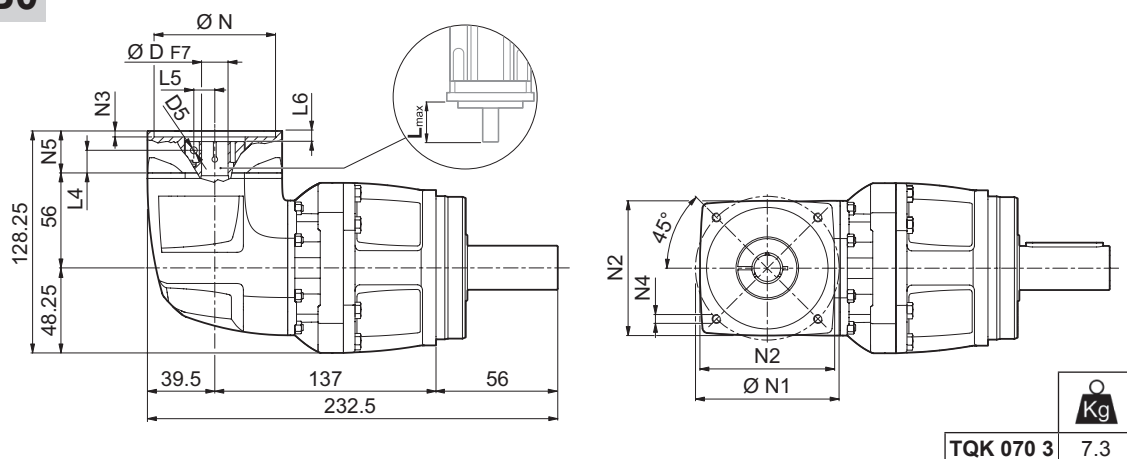


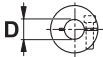
TQK 070

50C2 ... 130A

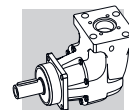


30A ... 110B0



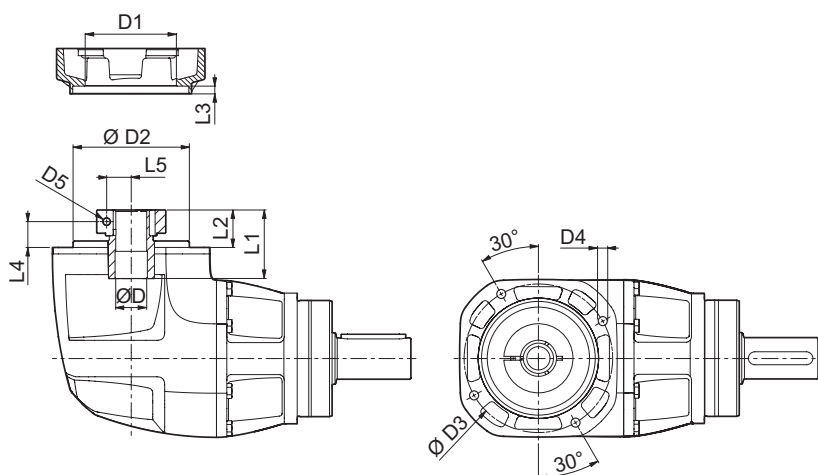
							N	N1	N2	N3	N4	N5	L _{max}
TQK 070 2													
50C2	6	9	11	14	—	—	50	70	80	6.5	M4x12	28	50
60A3	6	9	11	14	19	—	60	75	80	6.5	M5x14	28	50
70B2	6	9	11	14	19	—	70	90	80	6.5	M5x14	28	50
80A2	6	9	11	14	19	—	80	100	100	6.5	M6x14	28	50
95A1	6	9	11	14	19	24	95	115	100	6.5	M8x18	28	50
110A1	6	9	11	14	19	24	110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

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



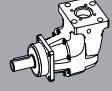
TQK 070

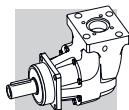
FM



TQK

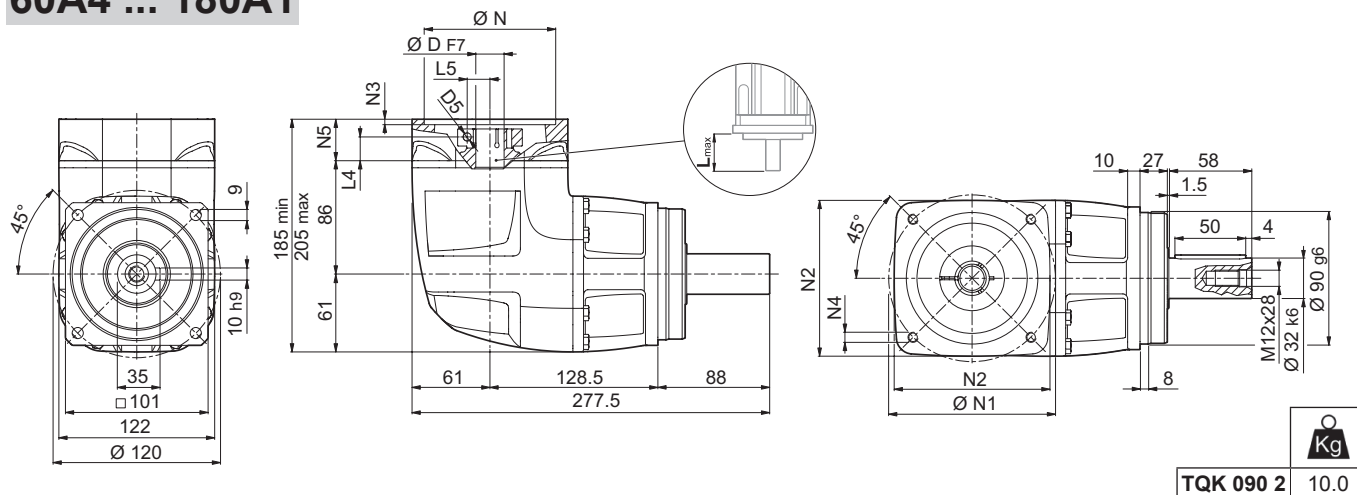
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 070 2										
11	51	70	85	M6x11	M6	42	20	5	12.5	12.5
14	51	70	85	M6x11	M6	42	20	5	12.5	14.5
19	51	70	85	M6x11	M6	42	20	5	12.5	16.5
24	60	70	85	M6x11	M6	43.5	21.5	5	12.5	19
TQK 070 3										
6	37	59	72	M5x11	M4	31.5	15.5	4.5	10.5	8
9	49	59	72	M5x11	M5	35	19	4.5	11.5	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	M_a	M_p	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]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	$R_{2\max}$	$A_{2\max}$	$R_{2\max}$	$A_{2\max}$	%	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	-

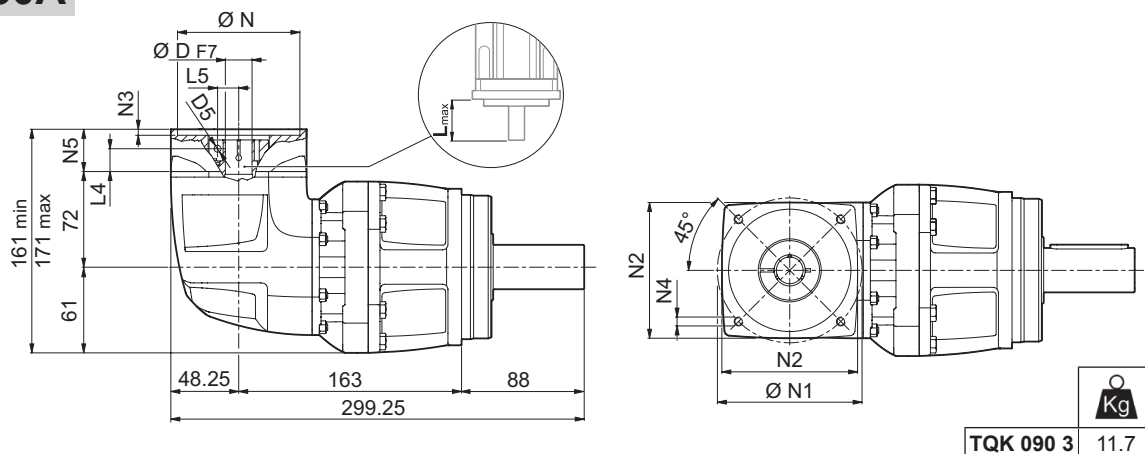


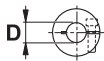
TQK 090

60A4 ... 180A1

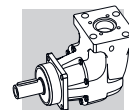


50C2 ... 130A



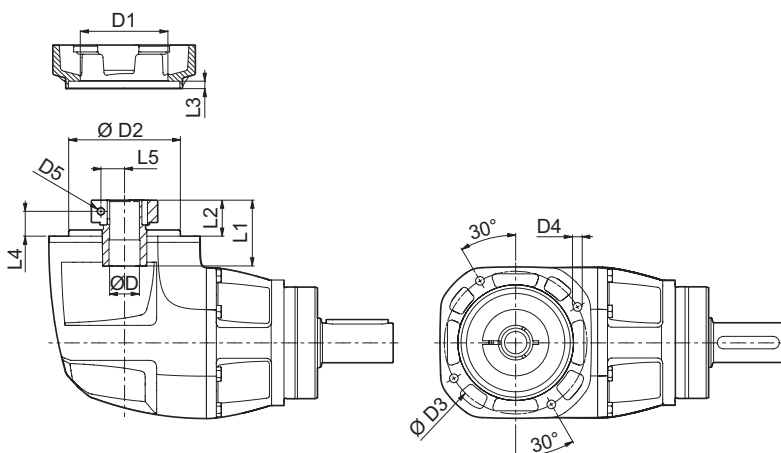
							N	N1	N2	N3	N4	N5	L _{max}
TQK 090 2													
60A4	11	14	19	—	—	—	60	75	100	6.5	M5x14	38	60
80A3	11	14	19	—	—	—	80	100	100	6.5	M6x14	38	60
95A2	11	14	19	24	28	—	95	115	100	6.5	M8x18	38	60
110A2	11	14	19	24	—	—	110	130	122	6.5	M8x20	38	60
110B1	11	14	19	24	28	—	110	145	122	6.5	M8x20	38	60
130A1	11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

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



TQK 090

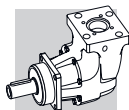
FM



TQK

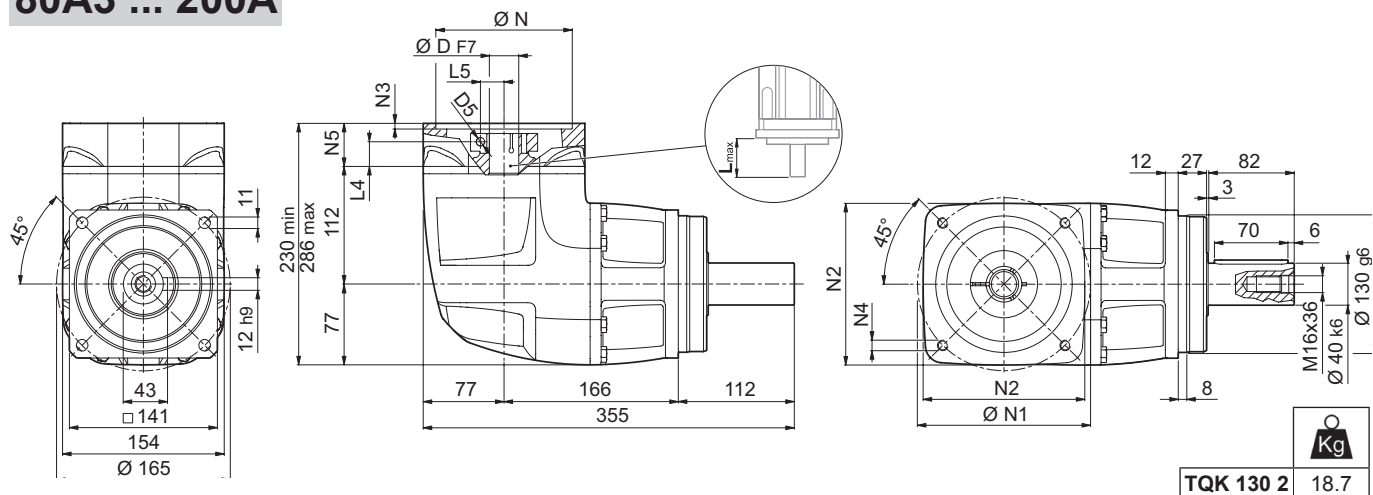
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 090 2										
14	51	90	115	M8x13	M6	50	28	6.5	20.5	14.5
19	51	90	115	M8x13	M6	50	28	6.5	20.5	16.5
24	60	90	115	M8x13	M6	51.5	29.5	6.5	20.5	19
28	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	22.5
32	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	24.5
38	80	90	115	M8x13	M8	51.5	29.5	6.5	20.5	28
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]	[arcmin]	$\leq$	$\left[\frac{Nm}{arcmin} \right]$	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	-

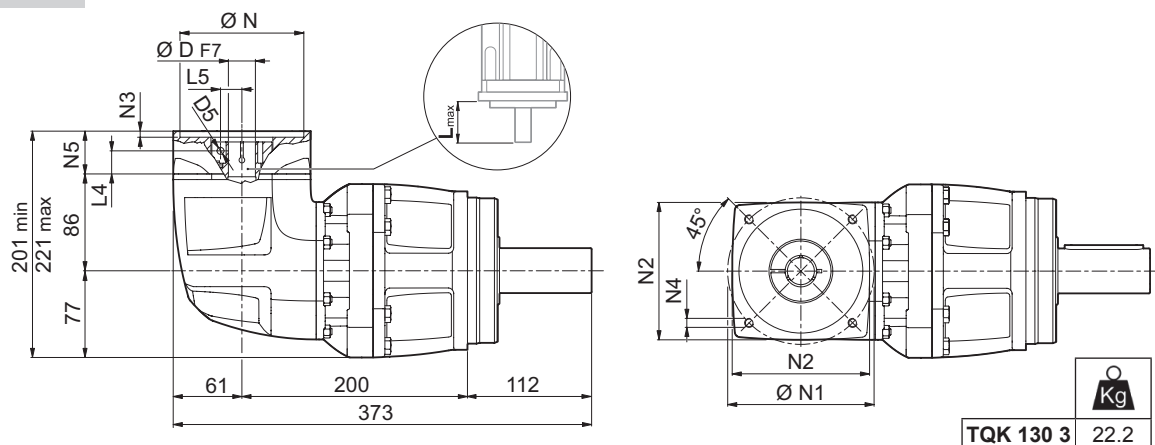


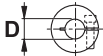
TQK 130

80A3 ... 200A

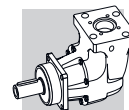


60A4 ... 180A1



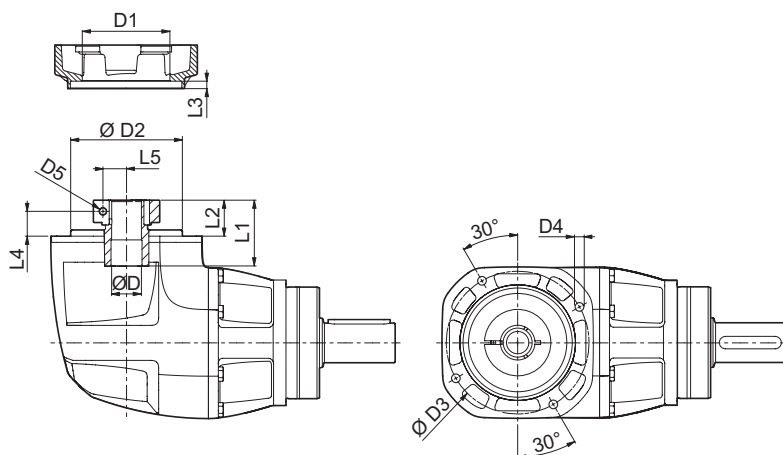
								N	N1	N2	N3	N4	N5	L _{max}
TQK 130 2														
80A3	14	19	—	—	—	—	—	80	100	130	6.5	M6x14	41	60
95A2	14	19	24	28	—	—	—	95	115	130	6.5	M8x18	41	60
110A2	14	19	24	—	—	—	—	110	130	130	6.5	M8x20	41	60
110B1	14	19	24	28	—	—	—	110	145	130	6.5	M8x20	41	60
130A1	14	19	24	28	32	—	—	130	165	154	6.5	M10x20	41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

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



TQK 130

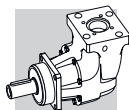
FM



TQK

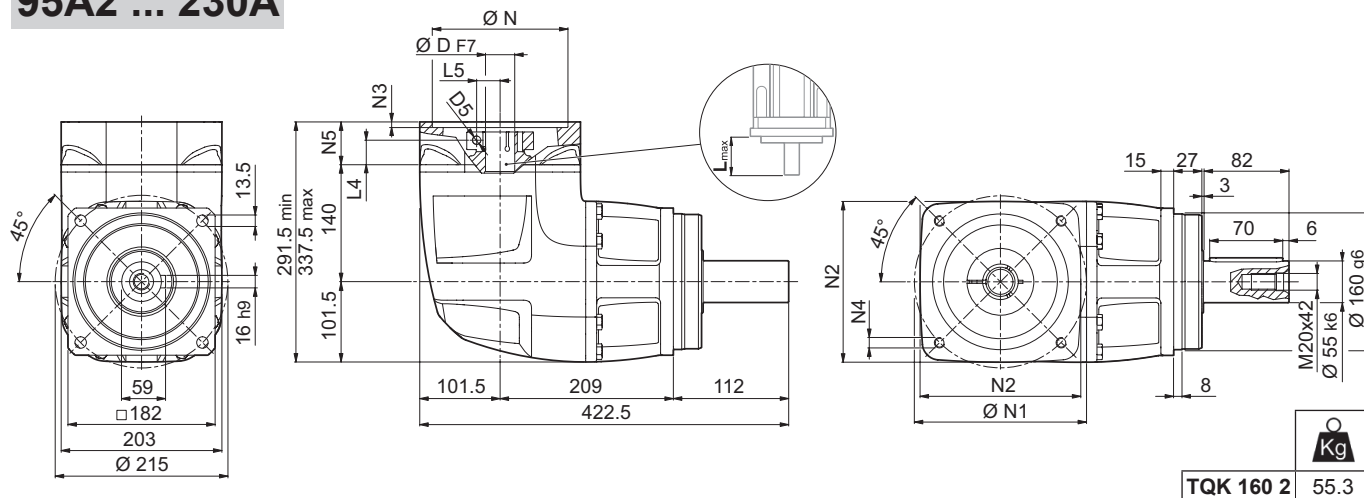
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 130 2										
19	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
24	70	120	140	M10x16	M6	51.5	32.5	7.5	23.5	19
28	70	120	140	M10x16	M8	51.5	32.5	7.5	23.5	22.5
32	72	120	140	M10x16	M8	51.5	32.5	7.5	23.5	24.5
38	100	120	140	M10x16	M8	54	35	7.5	23.5	28
42	114	120	140	M10x16	M10	51.5	38.5	7.5	23.5	33
TQK 130 3										
14	51	90	115	M8x13	M6	50	28	6.5	20.5	14.5
19	51	90	115	M8x13	M6	50	28	6.5	20.5	16.5
24	60	90	115	M8x13	M6	51.5	29.5	6.5	20.5	19
28	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	22.5
32	72	90	115	M8x13	M8	51.5	29.5	6.5	20.5	24.5
38	80	90	115	M8x13	M8	51.5	29.5	6.5	20.5	28

	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	16.44	–
TQK 130 3_24	400	600	1000	2000	4500	7'	6'	56	9000	8000	91	15.05	15.21	15.79	16.32	–
TQK 130 3_30	400	600	1000	2000	4500	7'	6'	56	9000	8000	91	14.99	15.15	15.73	16.26	–
TQK 130 3_40	400	600	1000	2000	4500	7'	6'	56	9000	8000	91	14.72	14.88	15.46	15.99	–
TQK 130 3_50	400	600	1000	2000	4500	7'	6'	56	9000	8000	91	14.61	14.77	15.35	15.88	–
TQK 130 3_70	400	600	1000	2000	4500	7'	6'	56	9000	8000	91	14.52	14.68	15.25	15.78	–
TQK 130 3_80	400	600	1000	2000	4500	7'	6'	56	9000	8000	91	14.47	14.63	15.21	15.74	–
TQK 130 3_100	400	600	1000	2000	4500	7'	6'	56	9000	8000	91	14.46	14.62	15.20	15.73	–
TQK 130 3_140	360	550	950	2000	4500	7'	6'	56	9000	8000	91	14.46	14.62	15.20	15.73	–
TQK 130 3_200	280	420	900	2000	4500	7'	6'	56	9000	8000	91	14.46	14.62	15.20	15.73	–

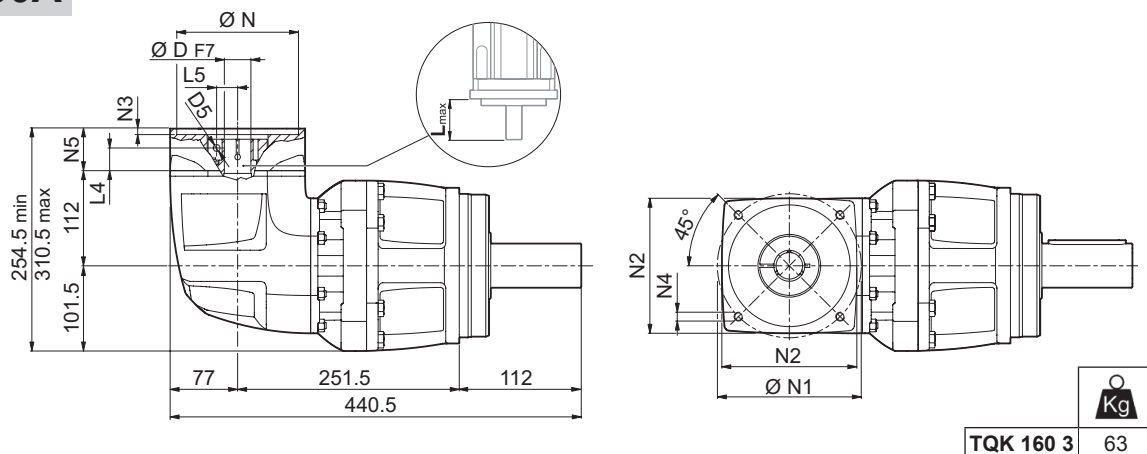


TQK 160

95A2 ... 230A

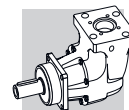


80A3 ... 200A



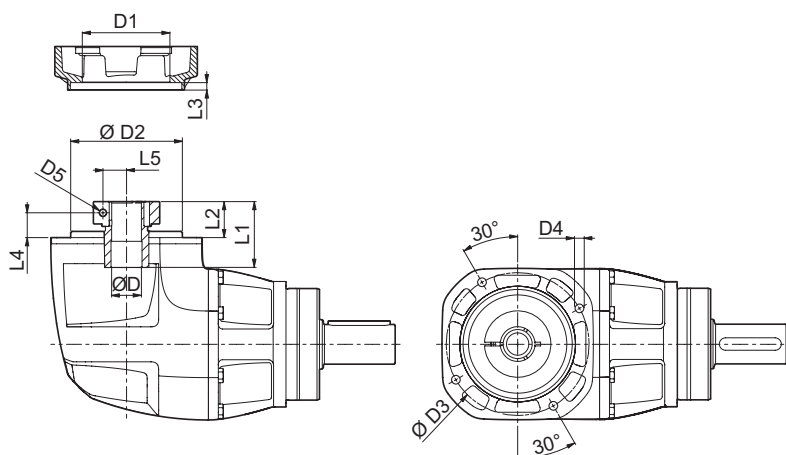
								N	N1	N2	N3	N4	N5	L _{max}
TQK 160 2														
95A2	19	24	28	—	—	—	—	95	115	158	6.5	M8x20	50	60
110A2	19	24	—	—	—	—	—	110	130	158	6.5	M8x20	50	60
130A1	19	24	28	32	—	—	—	130	165	158	6.5	M10x20	50	60
180A	19	24	28	32	—	—	—	180	215	203	6.5	M14x28	50	60
180A1	19	24	28	32	38	—	—	180	215	205	6.5	M14x28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

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

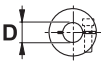


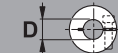
TQK 160

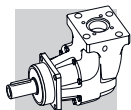
FM



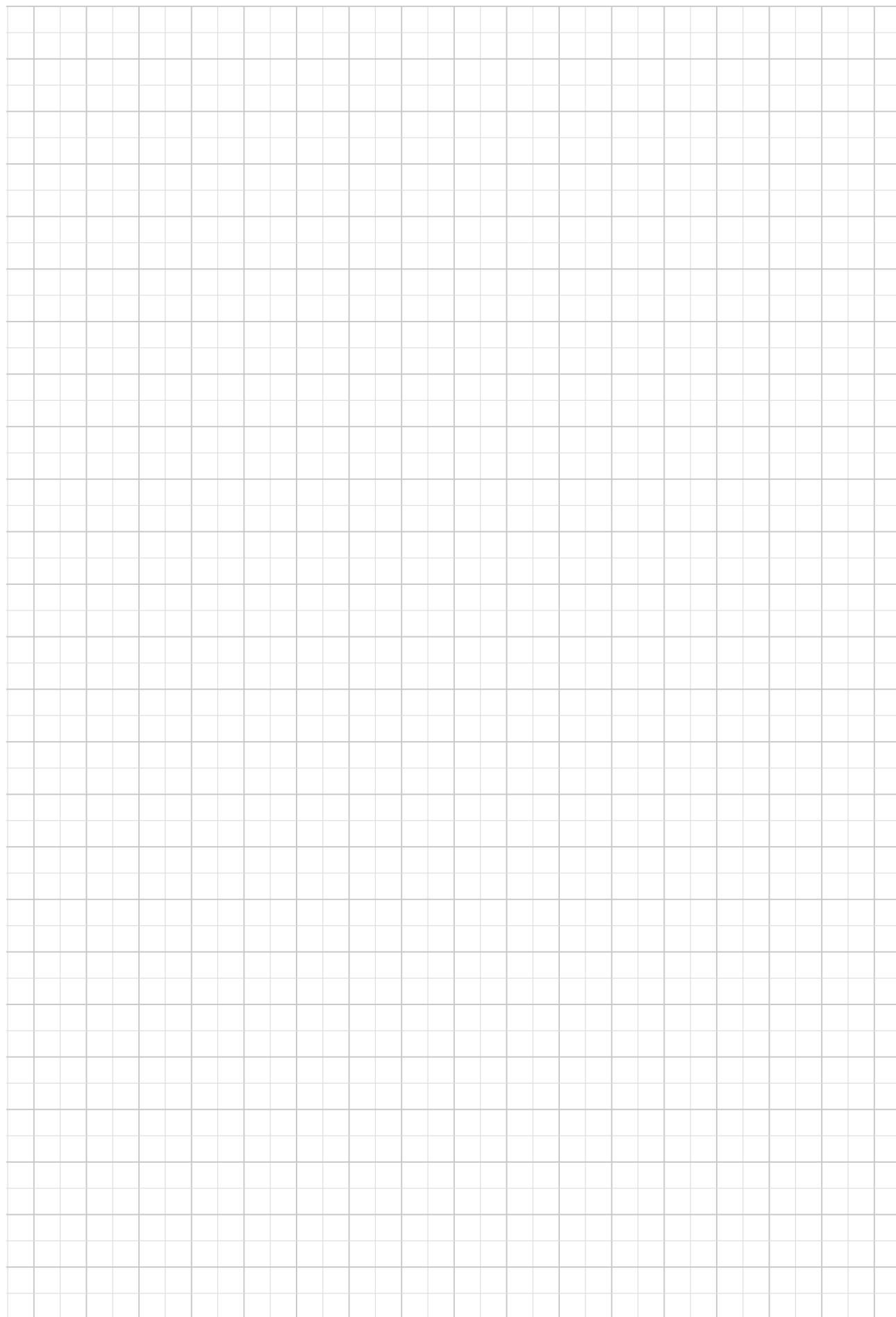
TQK

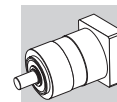
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 160 2										
24	58	150	175	M12x20	M6	47	37	9.5	28	19
28	70	150	175	M12x20	M8	47	37	9.5	28	22.5
32	72	150	175	M12x20	M8	47	37	9.5	28	24.5
38	100	150	175	M12x20	M8	59.5	39.5	9.5	28	28
42	114	150	175	M12x20	M10	57	43	9.5	28	33
48	125	150	175	M12x20	M12	57	43	9.5	28	36.5
TQK 160 3										
19	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
24	70	120	140	M10x16	M6	51.5	32.5	7.5	23.5	19
28	70	120	140	M10x16	M8	51.5	32.5	7.5	23.5	22.5
32	72	120	140	M10x16	M8	51.5	32.5	7.5	23.5	24.5
38	100	120	140	M10x16	M8	54	35	7.5	23.5	28
42	114	120	140	M10x16	M10	51.5	38.5	7.5	23.5	33

		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]	%					
													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	–



TQK





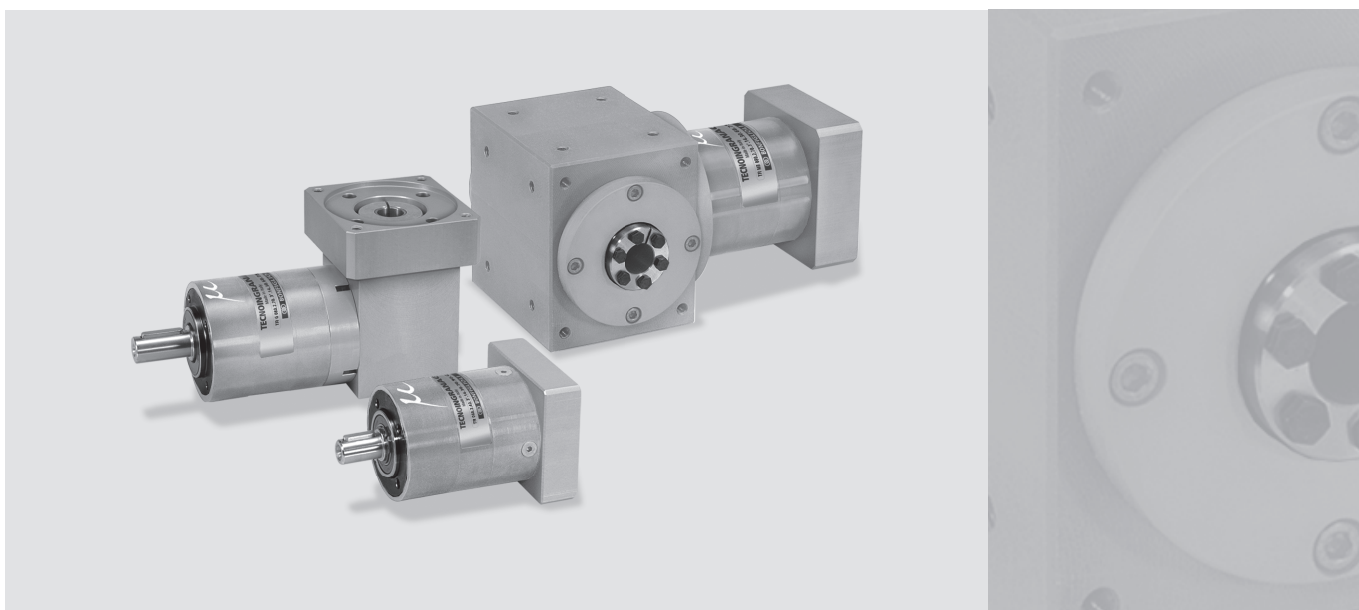
TR

RIDUTTORE EPICICLOIDALE DI PRECISIONE

I riduttori epicicloidali di precisione TR costituiscono un punto di riferimento per il gioco estremamente ridotto, le prestazioni ottimali, il funzionamento silenzioso, l'assemblaggio motore facilitato e la massima affidabilità.

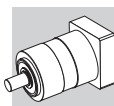
Disponibili in diverse configurazioni (con ingresso ortogonale, uscita ortogonale e albero cavo, con albero veloce pieno) e con adattatori d'ingresso per la maggior parte delle interfacce meccaniche dei motori servo sul mercato.

TR



Caratteristiche di prodotto:

- Densità di coppia elevata
- Coppie nominali e acceleranti elevate
- Elevata capacità di carico radiale e assiale
- Progettato per funzionamenti ciclici e continuativi
- Rigidezza torsionale elevata
- Gioco di precisione estremamente ridotto (≤ 3 arcmin)
- Funzionamento silenzioso
- Massima flessibilità (gioco standard / ridotto; cuscinetti standard / rinforzati)
- Diverse versioni costruttive per adattarsi ai vostri requisiti specifici.



5 CARATTERISTICHE DELLA SERIE TR

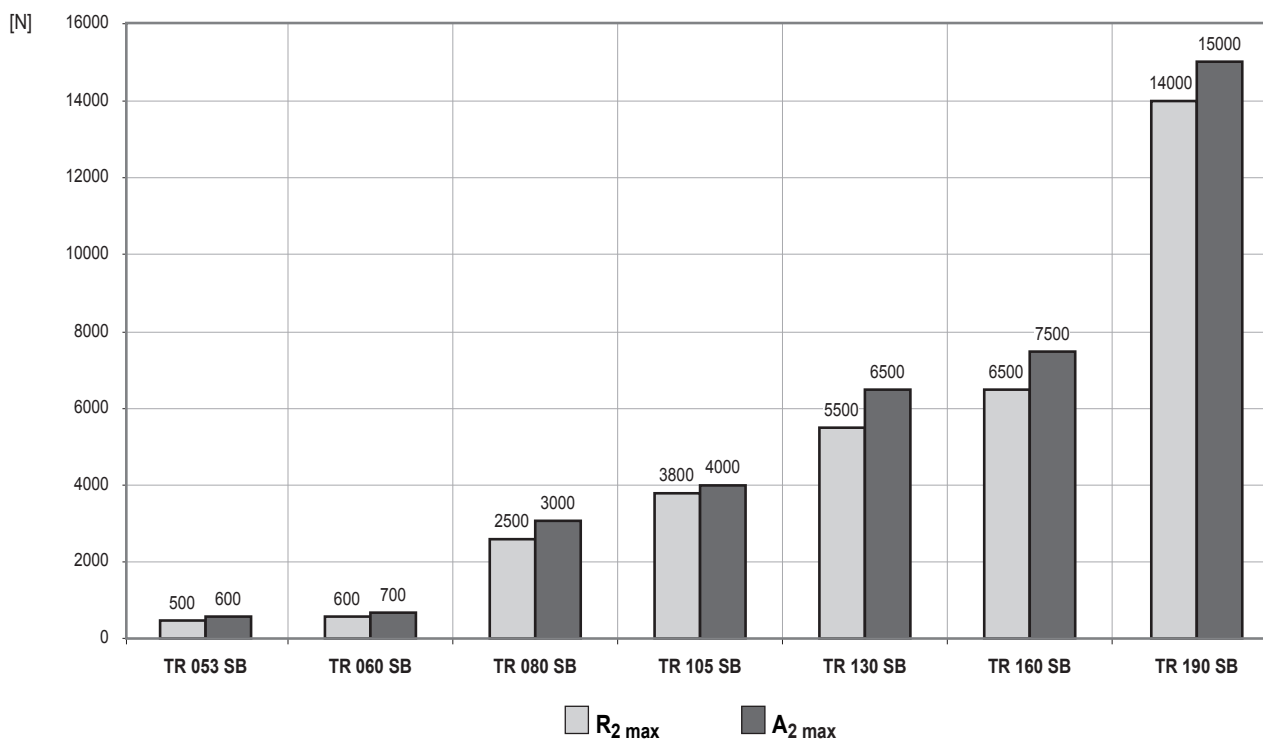
I riduttori epicicloidali a gioco ridotto della serie TR costituiscono una gamma assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio senza la richiesta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

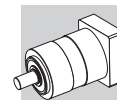
L'accoppiamento al motore è operazione che non richiede alcuna attrezzatura specifica, se non quella normalmente reperibile in un'officina..

- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
 - 1 stadio di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 3'$
 - 2 stadi di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 3'$
 - 3 stadi di riduzione (solo G e MB): standard $\varphi_R \leq 5'$; ridotto $\varphi_R \leq 3'$
 - 3 stadi di riduzione: standard $\varphi_S \leq 7'$; ridotto $\varphi_R \leq 5'$
 - 4 stadi di riduzione (solo G e MB): standard $\varphi_S \leq 7'$; ridotto $\varphi_R \leq 5'$
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero 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; $i=10$.
- 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.

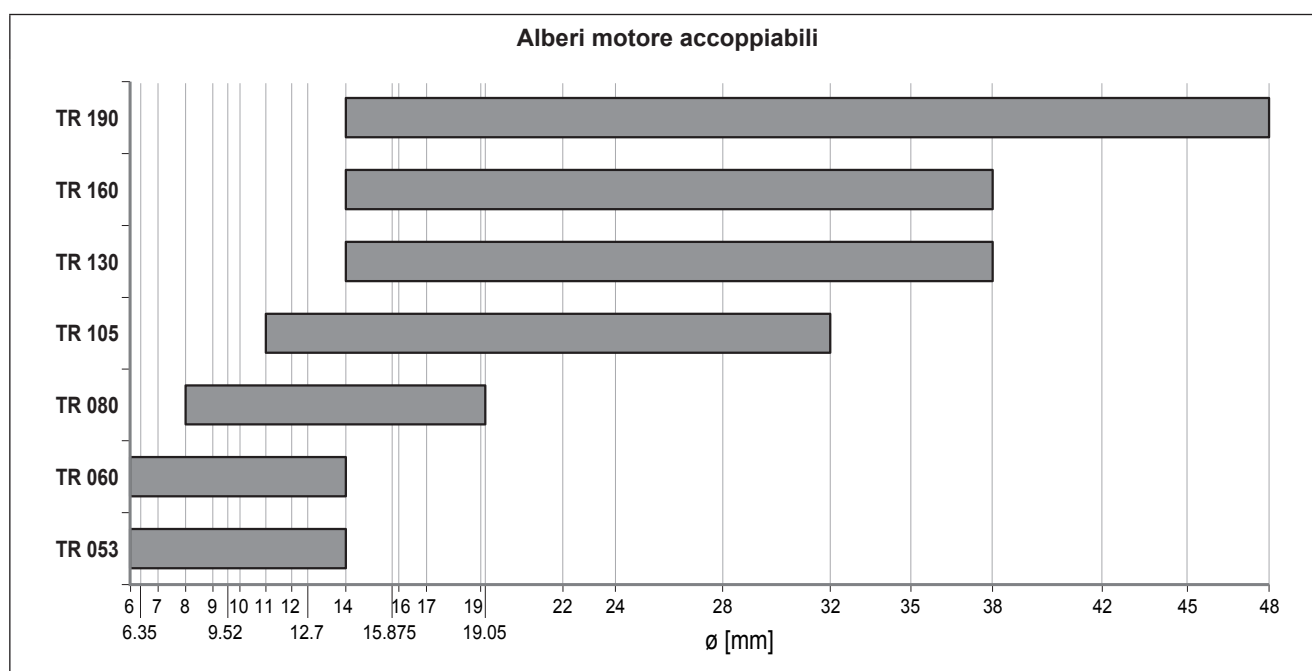
	TR 053	TR 060	TR 080	TR 105	TR 130	TR 160	TR 190
SB							

Carichi massimi applicabili sull' albero lento





- Ampia possibilità di configurazione lato accoppiamento motore.

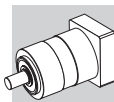


- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

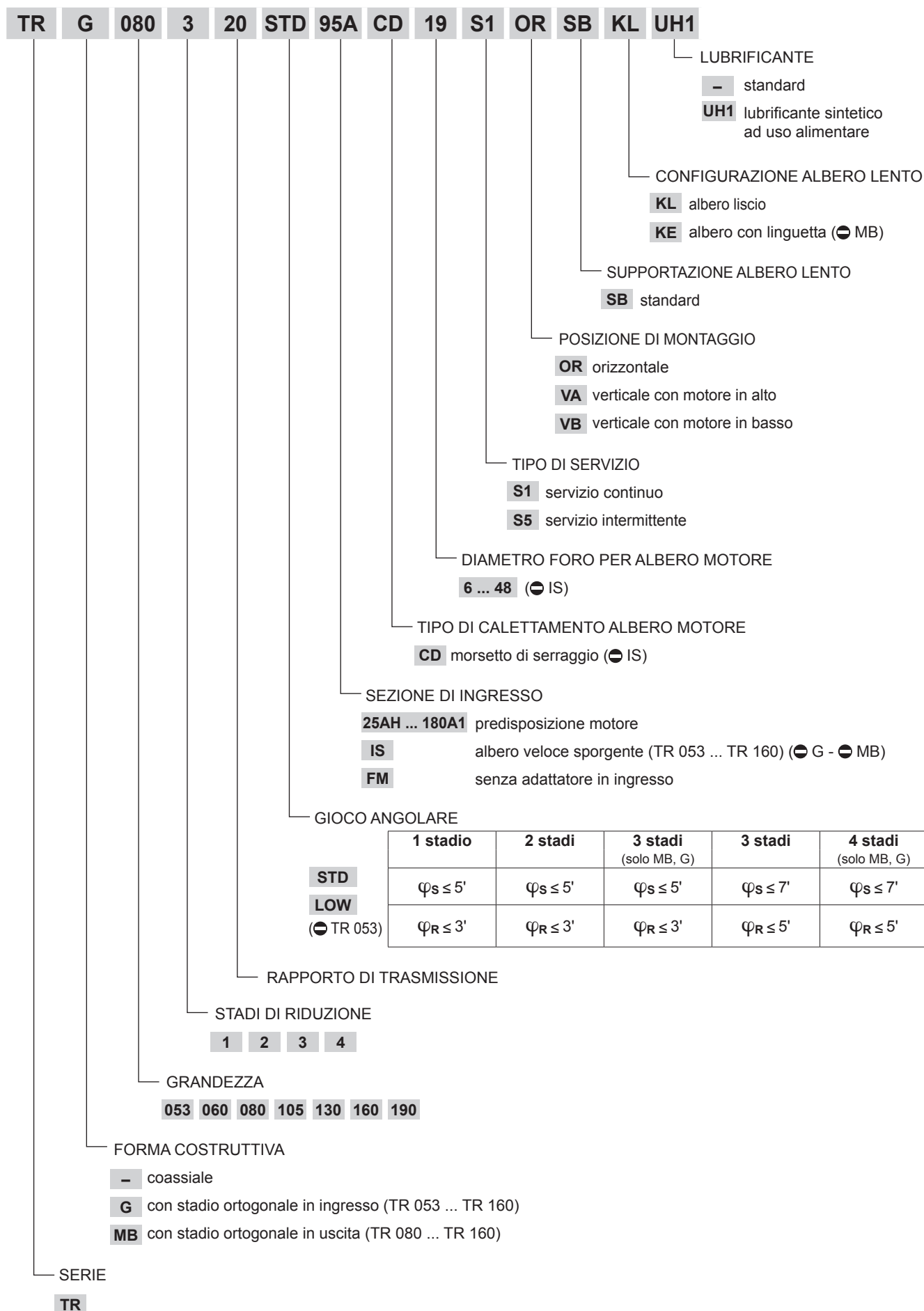
tipo di servizio	TR 053 - TR 060	TR 080 ... TR 190	anelli di tenuta
S1 (continuo)	NLGI grasso con grado di consistenza 00	Olio sintetico viscosità ISO VG 220	Fluoro-elastomero
S5 (intermittente)		NLGI grasso con grado di consistenza 00	NBR

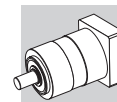
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore termico f_T
- La temperatura sulla cassa non deve superare $T_{max} = 90^\circ\text{C}$.

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	216	225	245	250	252	280	324	350	400	405	500	567	700	729	1000											
TR 053		20	20	–	20	20	20	–	–	20	20	–	–	20	20	20	–	20	–	20	–	–	20	–	20	–	12	–											
TR 060		18	–	30	30	30	–	30	30	30	–	30	30	30	–	–	30	–	30	–	30	30	–	30	–	30	–	18											
TR 080		40	–	70	70	70	–	70	70	70	–	70	70	70	–	–	70	–	70	–	70	70	–	70	–	70	–	40											
TR 105		100	–	170	170	170	–	170	170	170	–	170	170	170	–	–	170	–	170	–	170	170	–	170	–	170	–	100											
TR 130		215	–	450	450	450	–	450	450	450	–	450	450	450	–	–	450	–	450	–	450	450	–	450	–	450	–	215											
TR 160		700	–	350	700	700	–	700	700	700	–	700	700	–	–	–	700	–	700	–	700	700	–	700	–	700	–	350											
TR 190		1000	–	500	1000	1000	–	1000	1000	1000	–	1000	1000	–	–	–	1000	–	1000	–	1000	1000	–	1000	–	1000	–	500											



5.1 CODICE ORDINATIVO





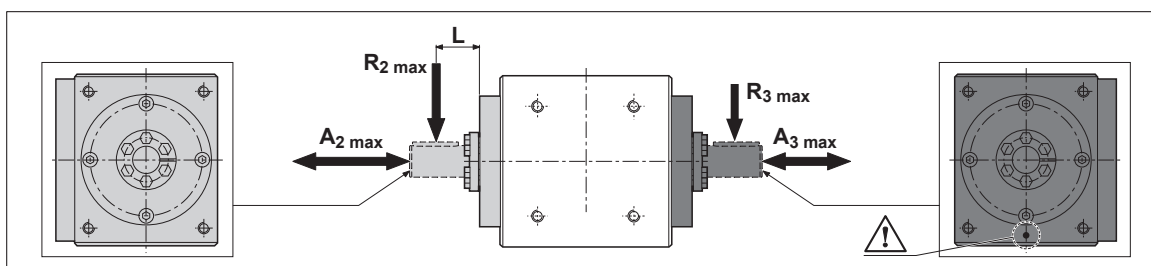
5.1.1 FORME COSTRUTTIVE E CONFIGURAZIONI DI INGRESSO

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

5.1.2 POSIZIONI DI MONTAGGIO

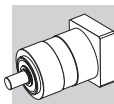
	OR	VA	VB
—			
G			
MB			

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

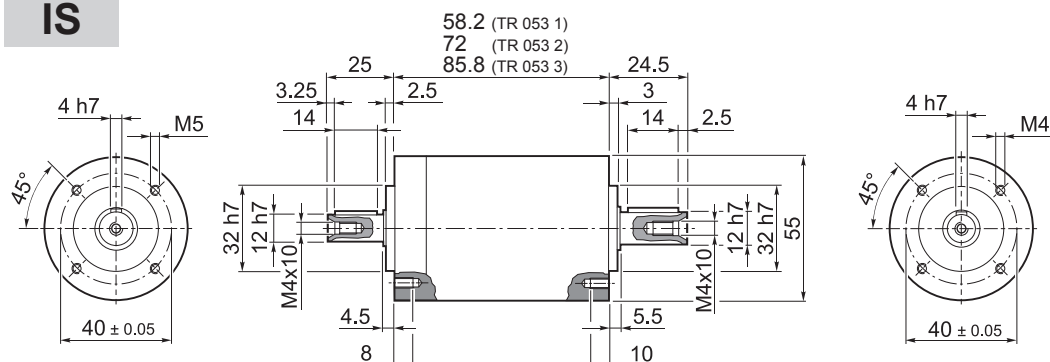
* Cuscinetti dimensionati per durata media pari a 10000 ore in condizioni di funzionamento nominale.



5.3 DIMENSIONI E DATI TECNICI

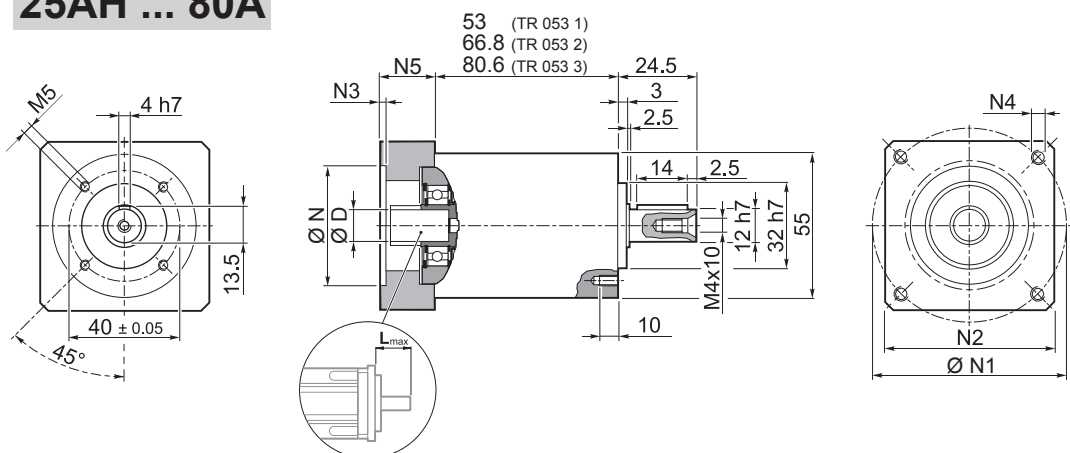
TR 053

IS



	Kg
TR 053 1	0.8
TR 053 2	1.0
TR 053 3	1.3

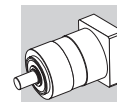
25AH ... 80A



	Kg
TR 053 1	0.8
TR 053 2	1.0
TR 053 3	1.3

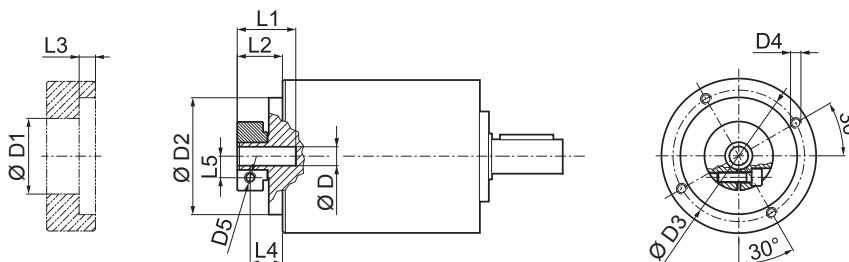
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	—	—	—	—	—	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	—	—	—	—	—	26	36	48					
28AH	6	6.35	7	8	9	9.52	—	—	—	—	—	28	36	48					
30AH	6	6.35	7	8	9	9.52	—	—	—	—	—	30	36	48					
32AH	6	6.35	7	8	9	9.52	—	—	—	—	—	32	38	48					
34AH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

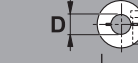


TR 053

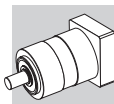
FM



				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

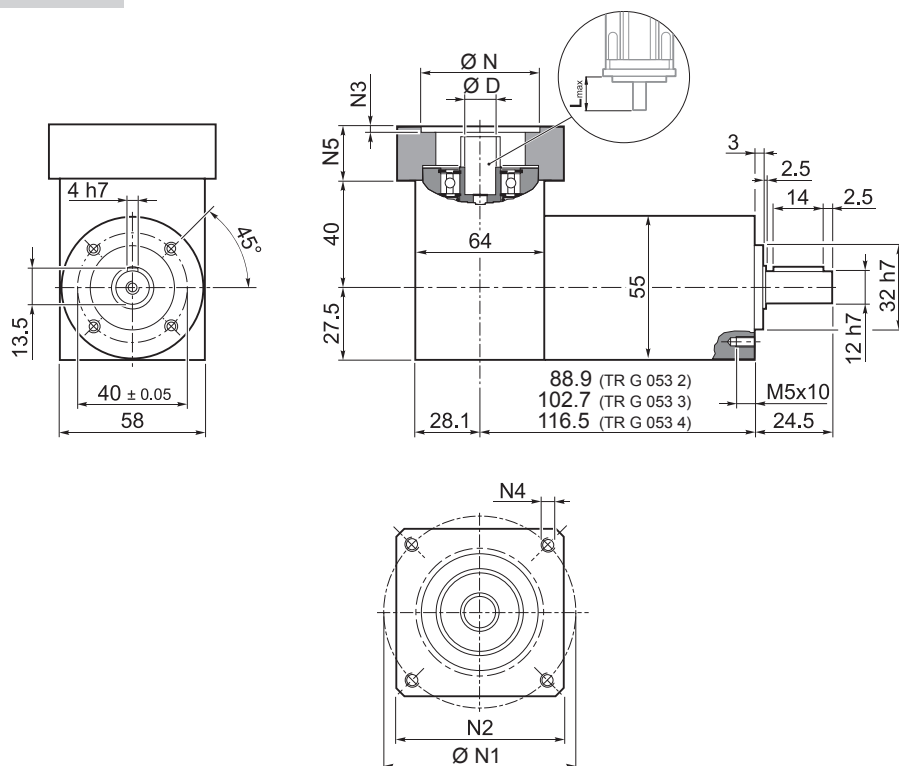
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	[N]	%		6 ... 9.52
TR 053 1_3		12	22	40	3300	4000	5'	1.0	200	500	600	97	0.06	0.08
TR 053 1_4		15	28	45	3500	5000	5'	1.0	200	500	600	97	0.05	0.06
TR 053 1_5		15	28	45	3500	5000	5'	1.0	200	500	600	97	0.04	0.06
TR 053 1_6		15	28	45	3500	5000	5'	1.0	200	500	600	97	0.03	0.05
TR 053 1_7		15	28	45	4000	6000	5'	1.0	200	500	600	97	0.03	0.05
TR 053 1_9		12	22	40	4000	6000	5'	1.0	200	500	600	97	0.03	0.05
TR 053 2_12		20	30	60	3300	4000	5'	0.9	200	500	600	94	0.06	0.08
TR 053 2_15		20	30	60	3300	4000	5'	0.9	200	500	600	94	0.06	0.08
TR 053 2_16		20	30	60	3500	5000	5'	0.9	200	500	600	94	0.05	0.06
TR 053 2_20		20	30	60	3500	5000	5'	0.9	200	500	600	94	0.04	0.06
TR 053 2_25		20	30	60	3500	5000	5'	0.9	200	500	600	94	0.04	0.06
TR 053 2_28		20	30	60	4000	6000	5'	0.9	200	500	600	94	0.03	0.05
TR 053 2_35		20	30	60	4000	6000	5'	0.9	200	500	600	94	0.03	0.05
TR 053 2_36		15	28	45	4000	6000	5'	0.9	200	500	600	94	0.03	0.05
TR 053 2_45		20	30	60	4000	6000	5'	0.9	200	500	600	94	0.03	0.05
TR 053 2_81		12	22	40	4000	6000	5'	0.9	200	500	600	94	0.03	0.05
TR 053 3_48		20	30	60	4000	5000	7'	0.7	200	500	600	91	0.05	0.07
TR 053 3_60		20	30	60	3500	5000	7'	0.7	200	500	600	91	0.05	0.07
TR 053 3_64		20	30	60	3500	5000	7'	0.7	200	500	600	91	0.05	0.06
TR 053 3_75		20	30	60	3500	5000	7'	0.7	200	500	600	91	0.04	0.06
TR 053 3_80		20	30	60	3500	5000	7'	0.7	200	500	600	91	0.05	0.06
TR 053 3_84		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_100		20	30	60	3500	5000	7'	0.7	200	500	600	91	0.04	0.06
TR 053 3_112		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_125		20	30	60	3500	5000	7'	0.7	200	500	600	91	0.04	0.06
TR 053 3_140		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_144		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_175		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_180		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_216		20	30	60	3500	5000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_225		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_245		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_252		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.05	0.06
TR 053 3_324		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_405		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_567		20	30	60	4000	6000	7'	0.7	200	500	600	91	0.03	0.05
TR 053 3_729		12	22	40	4000	6000	7'	0.7	200	500	600	91	0.03	0.05

TR



TR G 053

25AH ... 80A

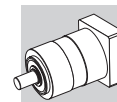


	
TR G 053 2	1.3
TR G 053 3	1.5
TR G 053 4	1.8

TR

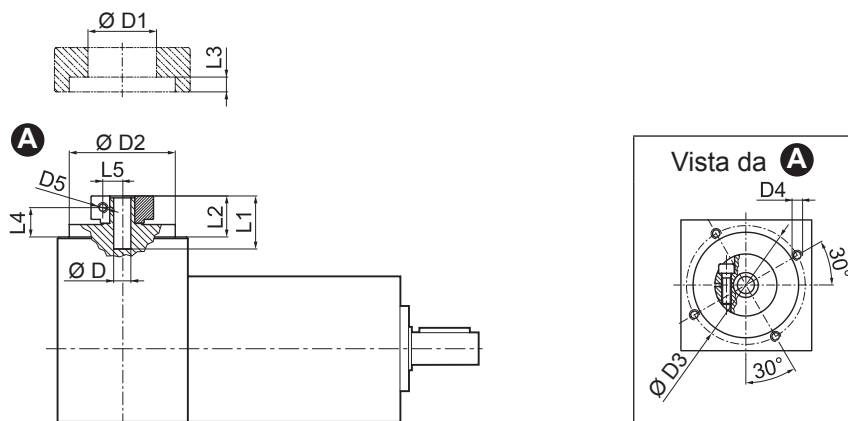
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	–	–	–	–	–	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	–	–	–	–	–	26	36	48					
28AH	6	6.35	7	8	9	9.52	–	–	–	–	–	28	36	48					
30AH	6	6.35	7	8	9	9.52	–	–	–	–	–	30	36	48					
32AH	6	6.35	7	8	9	9.52	–	–	–	–	–	32	38	48					
34AH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



TR G 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

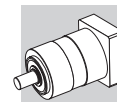
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	6 ... 9.52	10 ... 14
TR G 053 2_3		12	22	40	3300	4000	5'	1.0	500	600	94	0.18	0.20
TR G 053 2_4		15	28	45	3500	5000	5'	1.0	500	600	94	0.18	0.19
TR G 053 2_5		15	28	45	3500	5000	5'	1.0	500	600	94	0.17	0.19
TR G 053 2_6		15	28	45	3500	5000	5'	1.0	500	600	94	0.17	0.18
TR G 053 2_7		15	28	45	4000	6000	5'	1.0	500	600	94	0.17	0.19
TR G 053 2_9		12	22	40	4000	6000	5'	1.0	500	600	94	0.17	0.18
TR G 053 3_12		20	30	60	3300	4000	5'	0.9	500	600	91	0.18	0.20
TR G 053 3_15		20	30	60	3300	4000	5'	0.9	500	600	91	0.18	0.20
TR G 053 3_16		20	30	60	3500	5000	5'	0.9	500	600	91	0.17	0.19
TR G 053 3_20		20	30	60	3500	5000	5'	0.9	500	600	91	0.17	0.19
TR G 053 3_25		20	30	60	3500	5000	5'	0.9	500	600	91	0.17	0.19
TR G 053 3_28		20	30	60	4000	6000	5'	0.9	500	600	91	0.17	0.19
TR G 053 3_35		20	30	60	4000	6000	5'	0.9	500	600	91	0.17	0.19
TR G 053 3_36		15	28	45	4000	6000	5'	0.9	500	600	91	0.17	0.18
TR G 053 3_45		20	30	60	4000	6000	5'	0.9	500	600	91	0.17	0.19
TR G 053 3_81		12	22	40	4000	6000	5'	0.9	500	600	91	0.17	0.18
TR G 053 4_48		20	30	60	4000	5000	7'	0.7	500	600	89	0.18	0.19
TR G 053 4_60		20	30	60	3500	5000	7'	0.7	500	600	89	0.18	0.19
TR G 053 4_64		20	30	60	3500	5000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_75		20	30	60	3500	5000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_80		20	30	60	3500	5000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_84		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_100		20	30	60	3500	5000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_112		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_125		20	30	60	3500	5000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_140		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_144		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.18
TR G 053 4_175		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_180		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.18
TR G 053 4_216		20	30	60	3500	5000	7'	0.7	500	600	89	0.17	0.18
TR G 053 4_225		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.18
TR G 053 4_245		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.19
TR G 053 4_252		20	30	60	4000	6000	7'	0.7	500	600	89	0.18	0.20
TR G 053 4_324		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.18
TR G 053 4_405		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.18
TR G 053 4_567		20	30	60	4000	6000	7'	0.7	500	600	89	0.17	0.18
TR G 053 4_729		12	22	40	4000	6000	7'	0.7	500	600	89	0.17	0.18



	
TR 060 1	1.2
TR 060 2	1.7
TR 060 3	2.0

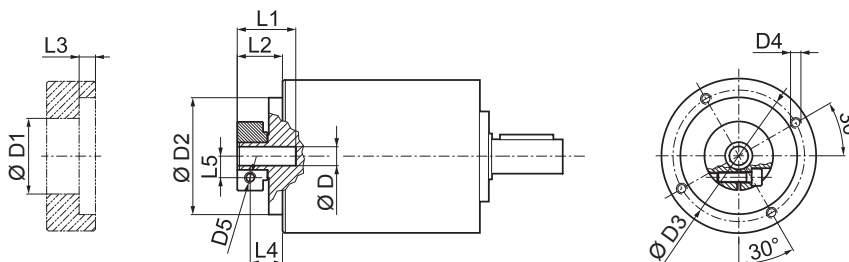
	
TR 060 1	1.2
TR 060 2	1.7
TR 060 3	2.0

													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

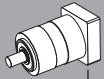


TR 060

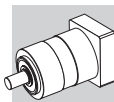
FM



				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

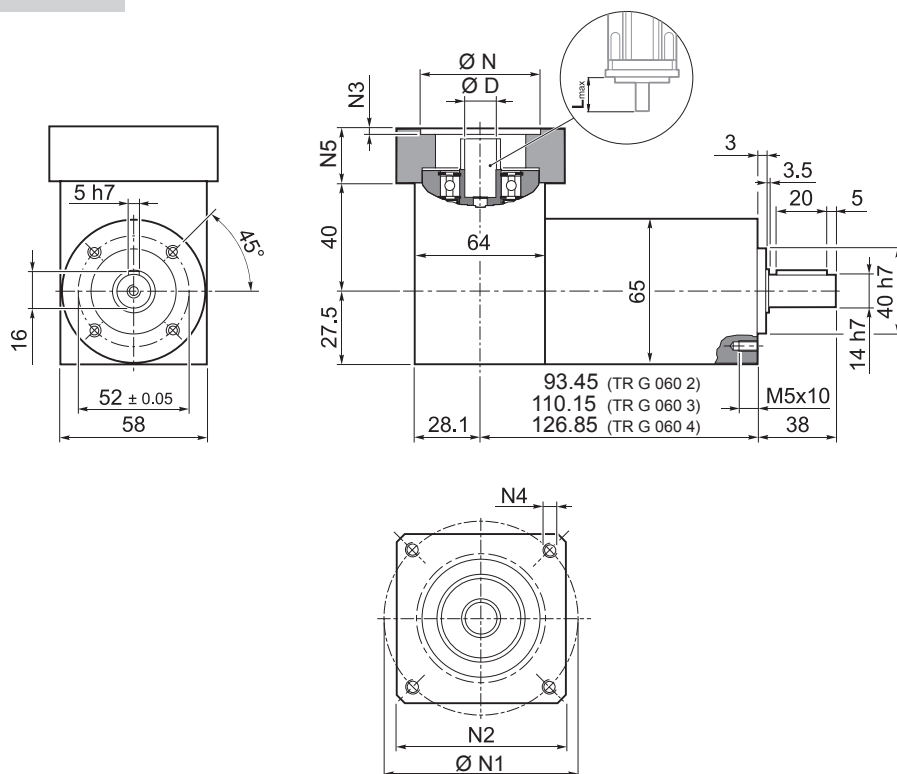
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%	6 ... 9.52	10 ... 14
TR 060 1_3		18	35	70	3300	4000	5'	3'	3.0	200	600	700	97	0.10	0.11
TR 060 1_4		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_216		30	45	100	3500	5000	7'	5'	2.0	200	600	700	91	0.04	0.06
TR 060 3_250		30	45	100	4000	6000	7'	5'	2.0	200	600	700	91	0.03	0.05
TR 060 3_280		30	45	100	4000	6000	7'	5'	2.0	200	600	700	91	0.03	0.05
TR 060 3_350		30	45	100	4000	6000	7'	5'	2.0	200	600	700	91	0.03	0.05
TR 060 3_400		30	45	100	4000	6000	7'	5'	2.0	200	600	700	91	0.03	0.05
TR 060 3_500		30	45	100	4000	6000	7'	5'	2.0	200	600	700	91	0.03	0.05
TR 060 3_700		30	45	100	4000	6000	7'	5'	2.0	200	600	700	91	0.03	0.05
TR 060 3_1000		18	35	70	4000	6000	7'	5'	2.0	200	600	700	91	0.03	0.05

TR



TR G 060

25AH ... 80A

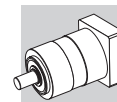


	Kg
TR G 060 2	1.7
TR G 060 3	2.2
TR G 060 4	2.5

TR

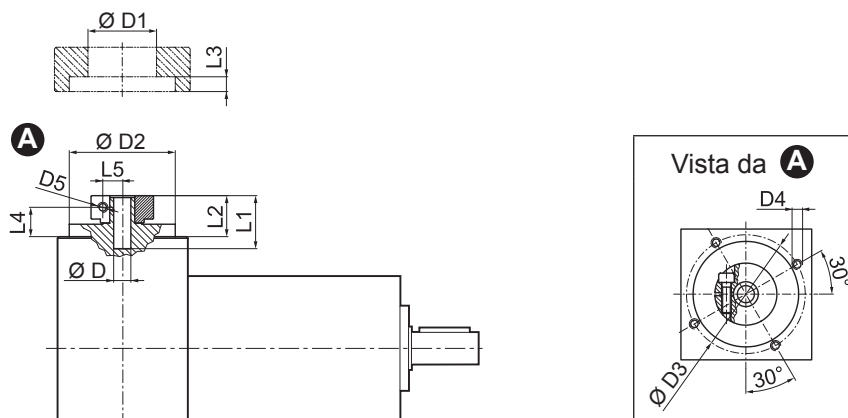
	D											N	N1		N2	N3	N4	N5	L _{max}
	6	6.35	7	8	9	9.52	10	11	12	12.7	14		min	max					
25AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	26	39	56					
28AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	28	39	56					
30AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	30	39	56					
32AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	32	39	56					
34AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	34	40	56					
36AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	36	42	56					
39AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	39	45	56					
40AH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	40	46	56					
38B	6	6.35	7	8	9	9.52	10	11	12	12.7	14	38.1	66.6		60	3	M4x10	18	25
40B	6	6.35	7	8	9	9.52	10	11	12	12.7	14	40	63		60	3	M4x10	18	25
50A	6	6.35	7	8	9	9.52	10	11	12	12.7	14	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	14	55	80		65	2	5.5	16	23
60A	6	6.35	7	8	9	9.52	10	11	12	12.7	14	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.



TR G 060

FM

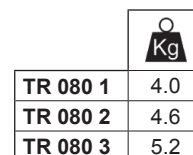


				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

	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]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	6 ... 9.52	10 ... 14
TR G 060 2_3		18	35	70	3300	4000	5'	3'	3.0	600	700	94	0.20	0.20
TR G 060 2_4		25	40	90	3500	5000	5'	3'	3.0	600	700	94	0.18	0.20
TR G 060 2_5		25	40	90	3500	5000	5'	3'	3.0	600	700	94	0.17	0.19
TR G 060 2_6		25	40	90	3500	5000	5'	3'	3.0	600	700	94	0.17	0.19
TR G 060 2_7		25	40	90	4000	6000	5'	3'	3.0	600	700	94	0.17	0.19
TR G 060 2_10		18	35	70	4000	6000	5'	3'	3.0	600	700	94	0.17	0.18
TR G 060 3_9		18	35	70	3300	4000	5'	3'	2.5	600	700	91	0.20	0.21
TR G 060 3_12		30	45	100	3300	4000	5'	3'	2.5	600	700	91	0.20	0.21
TR G 060 3_15		30	45	100	3300	4000	5'	3'	2.5	600	700	91	0.19	0.21
TR G 060 3_16		30	45	100	3500	5000	5'	3'	2.5	600	700	91	0.18	0.20
TR G 060 3_20		30	45	100	3500	5000	5'	3'	2.5	600	700	91	0.17	0.19
TR G 060 3_25		30	45	100	3500	5000	5'	3'	2.5	600	700	91	0.17	0.18
TR G 060 3_28		30	45	100	4000	6000	5'	3'	2.5	600	700	91	0.17	0.19
TR G 060 3_30		18	35	70	4000	6000	5'	3'	2.5	600	700	91	0.17	0.18
TR G 060 3_35		30	45	100	4000	6000	5'	3'	2.5	600	700	91	0.18	0.19
TR G 060 3_36		25	40	90	3500	5000	5'	3'	2.5	600	700	91	0.18	0.19
TR G 060 3_40		30	45	100	4000	6000	5'	3'	2.5	600	700	91	0.17	0.18
TR G 060 3_50		30	45	100	4000	6000	5'	3'	2.5	600	700	91	0.17	0.18
TR G 060 3_70		30	45	100	4000	6000	5'	3'	2.5	600	700	91	0.17	0.18
TR G 060 3_100		18	35	70	4000	6000	5'	3'	2.5	600	700	91	0.17	0.18
TR G 060 4_48		30	45	100	3500	5000	7'	5'	2.0	600	700	89	0.18	0.20
TR G 060 4_64		30	45	100	3500	5000	7'	5'	2.0	600	700	89	0.18	0.20
TR G 060 4_75		30	45	100	3500	5000	7'	5'	2.0	600	700	89	0.17	0.19
TR G 060 4_80		30	45	100	3500	5000	7'	5'	2.0	600	700	89	0.18	0.20
TR G 060 4_84		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.19
TR G 060 4_90		18	35	70	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_120		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.15	0.17
TR G 060 4_125		30	45	100	3500	5000	7'	5'	2.0	600	700	89	0.17	0.19
TR G 060 4_140		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.19
TR G 060 4_150		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_160		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_175		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.19
TR G 060 4_200		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_210		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_216		30	45	100	3500	5000	7'	5'	2.0	600	700	89	0.17	0.19
TR G 060 4_250		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_280		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_350		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_400		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_500		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_700		30	45	100	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18
TR G 060 4_1000		18	35	70	4000	6000	7'	5'	2.0	600	700	89	0.17	0.18

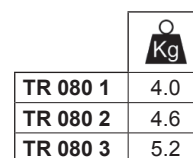


IS

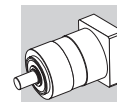


TR

40B1 ... 110B1

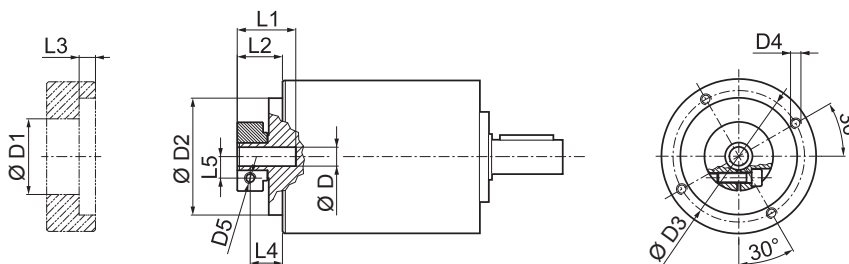


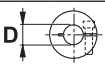
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

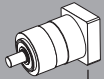


TR 080

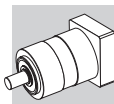
FM



				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

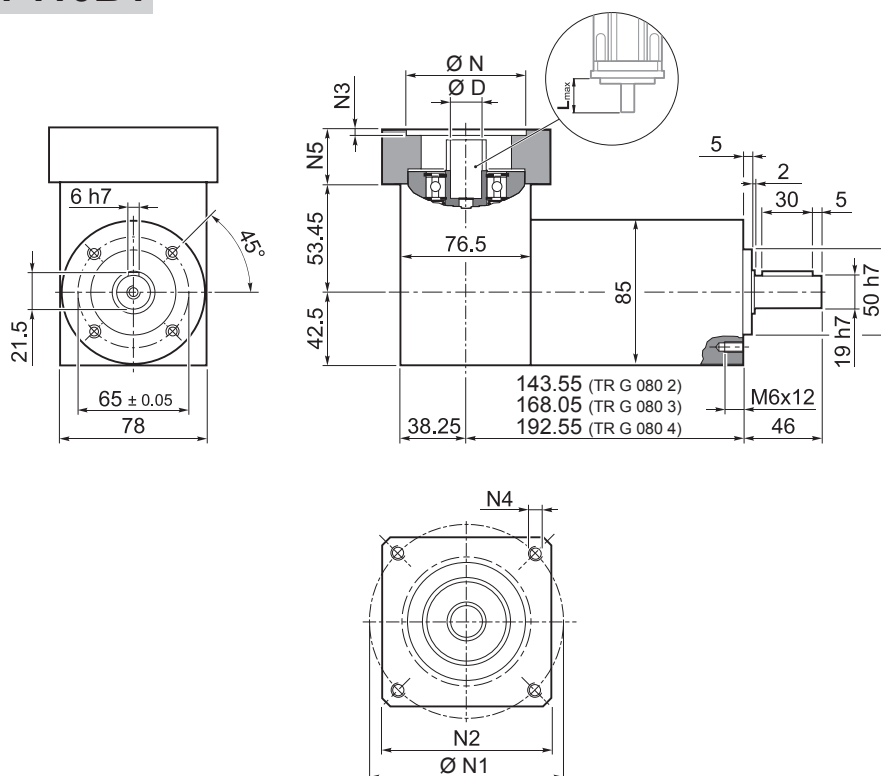
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%	8 ... 12.7	14 ... 19.05
TR 080 1_3	40	80	180	2900	3500	5'	3'	8.0	400	2500	3000	97	0.50	0.59
TR 080 1_4	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_216	70	100	250	3200	4500	7'	5'	5.5	400	2500	3000	91	0.20	0.29
TR 080 3_250	70	100	250	4000	6000	7'	5'	5.5	400	2500	3000	91	0.19	0.28
TR 080 3_280	70	100	250	4000	6000	7'	5'	5.5	400	2500	3000	91	0.19	0.28
TR 080 3_350	70	100	250	4000	6000	7'	5'	5.5	400	2500	3000	91	0.19	0.28
TR 080 3_400	70	100	250	4000	6000	7'	5'	5.5	400	2500	3000	91	0.19	0.28
TR 080 3_500	70	100	250	4000	6000	7'	5'	5.5	400	2500	3000	91	0.19	0.28
TR 080 3_700	70	100	250	4000	6000	7'	5'	5.5	400	2500	3000	91	0.19	0.28
TR 080 3_1000	40	80	180	4000	6000	7'	5'	5.5	400	2500	3000	91	0.19	0.28

TR



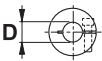
TR G 080

40B1 ... 110B1

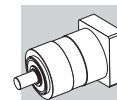


	Kg
TR G 080 2	5.2
TR G 080 3	5.8
TR G 080 4	6.4

TR

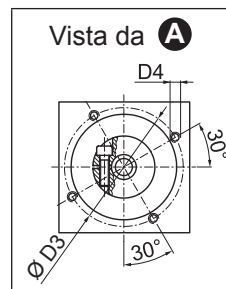
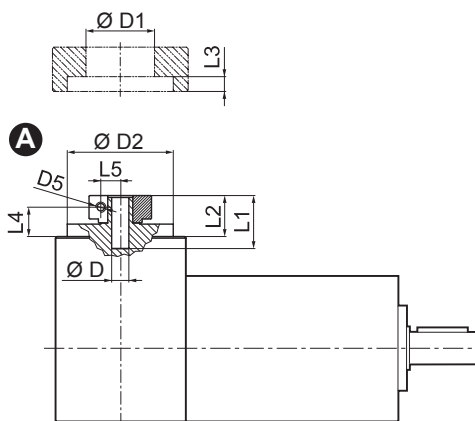
												N	N1	N2	N3	N4	N5	L _{max}
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	70	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

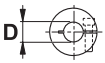
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

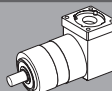


TR G 080

FM

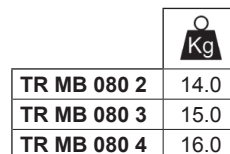


			D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52	38	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	10.5
11	12	12.7	43	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	12.5
14	15.875	16	48	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	14.5
19	19.05		51	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	16.5

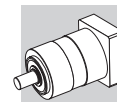
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\frac{Nm}{arcmin}$	[N]	[N]	%	 8 ... 12.7	14 ... 19.05
TR G 080 2_3		40	80	180	2900	3500	5'	3'	8.0	2500	3000	94	0.67	0.79
TR G 080 2_4		50	80	200	3100	4500	5'	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_216		70	100	250	3200	4500	7'	5'	5.5	2500	3000	89	0.57	0.70
TR G 080 4_250		70	100	250	4000	6000	7'	5'	5.5	2500	3000	89	0.59	0.71
TR G 080 4_280		70	100	250	4000	6000	7'	5'	5.5	2500	3000	89	0.59	0.71
TR G 080 4_350		70	100	250	4000	6000	7'	5'	5.5	2500	3000	89	0.59	0.71
TR G 080 4_400		70	100	250	4000	6000	7'	5'	5.5	2500	3000	89	0.59	0.71
TR G 080 4_500		70	100	250	4000	6000	7'	5'	5.5	2500	3000	89	0.59	0.71
TR G 080 4_700		70	100	250	4000	6000	7'	5'	5.5	2500	3000	89	0.59	0.71
TR G 080 4_1000		40	80	180	4000	6000	7'	5'	5.5	2500	3000	89	0.59	0.71



40B1 ... 110B1

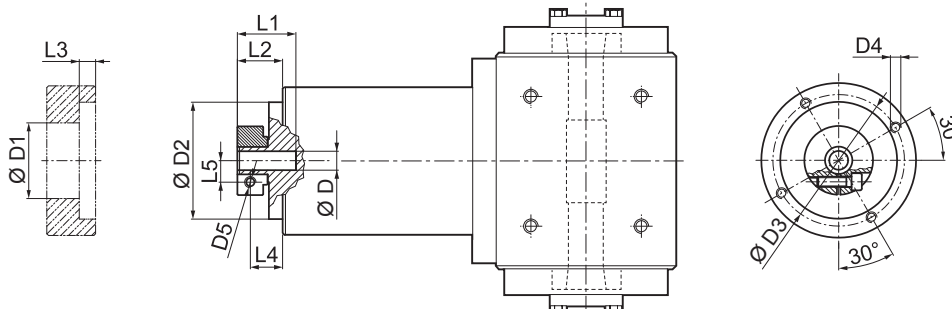


Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

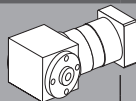


TR MB 080

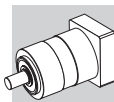
FM



				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

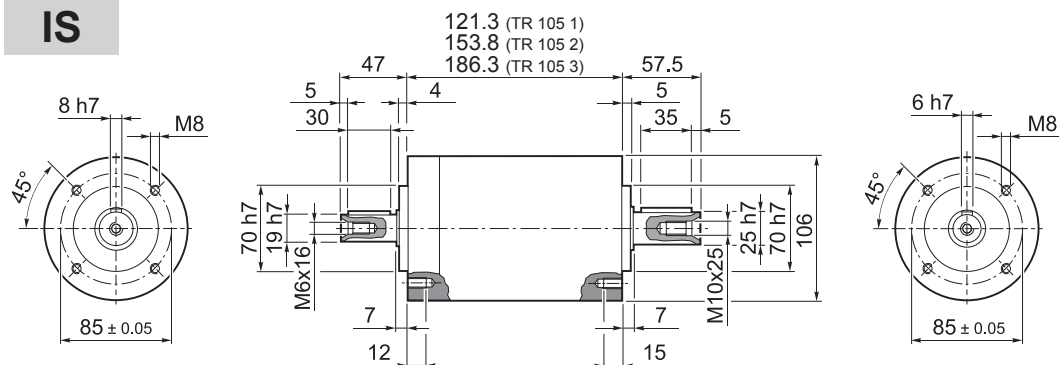
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	ψ _R	C _t	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	%		
											8 ... 12.7	14 ... 19.05
TR MB 080 2_3		40	80	180	2900	3500	5'	3'	8.0	94	0.50	0.59
TR MB 080 2_4		50	80	200	3100	4500	5'	3'	8.0	94	0.34	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_216		70	100	250	3200	4500	7'	5'	5.5	89	0.20	0.29
TR MB 080 4_250		70	100	250	4000	6000	7'	5'	5.5	89	0.19	0.28
TR MB 080 4_280		70	100	250	4000	6000	7'	5'	5.5	89	0.19	0.28
TR MB 080 4_350		70	100	250	4000	6000	7'	5'	5.5	89	0.19	0.28
TR MB 080 4_400		70	100	250	4000	6000	7'	5'	5.5	89	0.19	0.28
TR MB 080 4_500		70	100	250	4000	6000	7'	5'	5.5	89	0.19	0.28
TR MB 080 4_700		70	100	250	4000	6000	7'	5'	5.5	89	0.19	0.28
TR MB 080 4_1000		40	80	180	4000	6000	7'	5'	5.5	89	0.19	0.28

TR

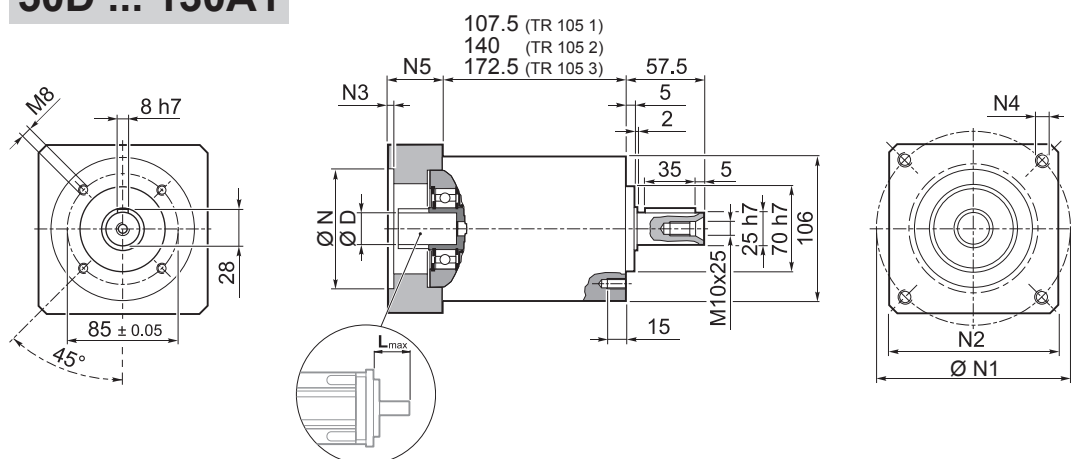


TR 105

IS

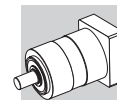


50D ... 130A1



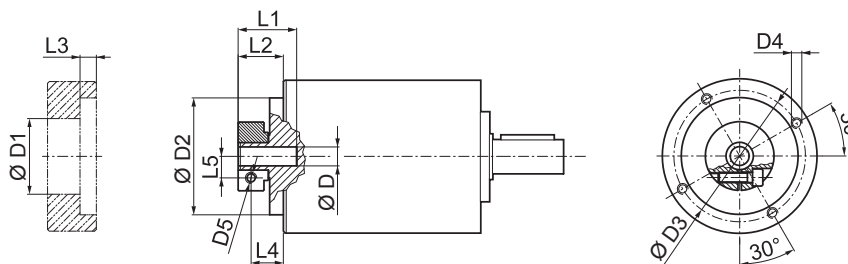
													N	N1	N2	N3	N4	N5	L _{max}
													N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16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



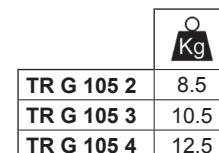
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6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

	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	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]		$\left[\frac{Nm}{arcmin} \right]$	[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_216		170	250	600	3000	4500	7'	5'	18.0	600	3800	4000	91	0.31	0.39	0.83	1.20
TR 105 3_250		170	250	600	3500	5000	7'	5'	18.0	600	3800	4000	91	0.31	0.39	0.83	1.19
TR 105 3_280		170	250	600	3500	5000	7'	5'	18.0	600	3800	4000	91	0.31	0.38	0.83	1.19
TR 105 3_350		170	250	600	3500	5000	7'	5'	18.0	600	3800	4000	91	0.31	0.38	0.83	1.19
TR 105 3_400		170	250	600	3500	5000	7'	5'	18.0	600	3800	4000	91	0.31	0.38	0.83	1.19
TR 105 3_500		170	250	600	3500	5000	7'	5'	18.0	600	3800	4000	91	0.31	0.38	0.83	1.19
TR 105 3_700		170	250	600	3500	5000	7'	5'	18.0	600	3800	4000	91	0.31	0.38	0.83	1.19
TR 105 3_1000		100	180	360	3500	5000	7'	5'	18.0	600	3800	4000	91	0.31	0.38	0.83	1.19

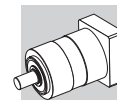
TR



50D ... 130A1

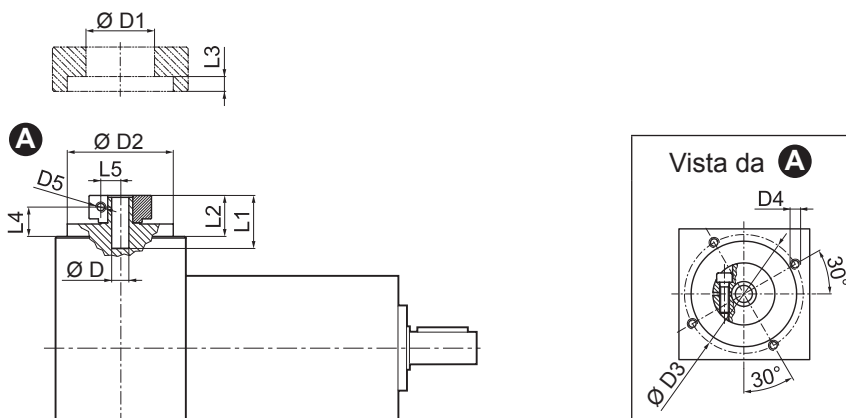


Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



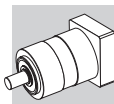
TR G 105

FM



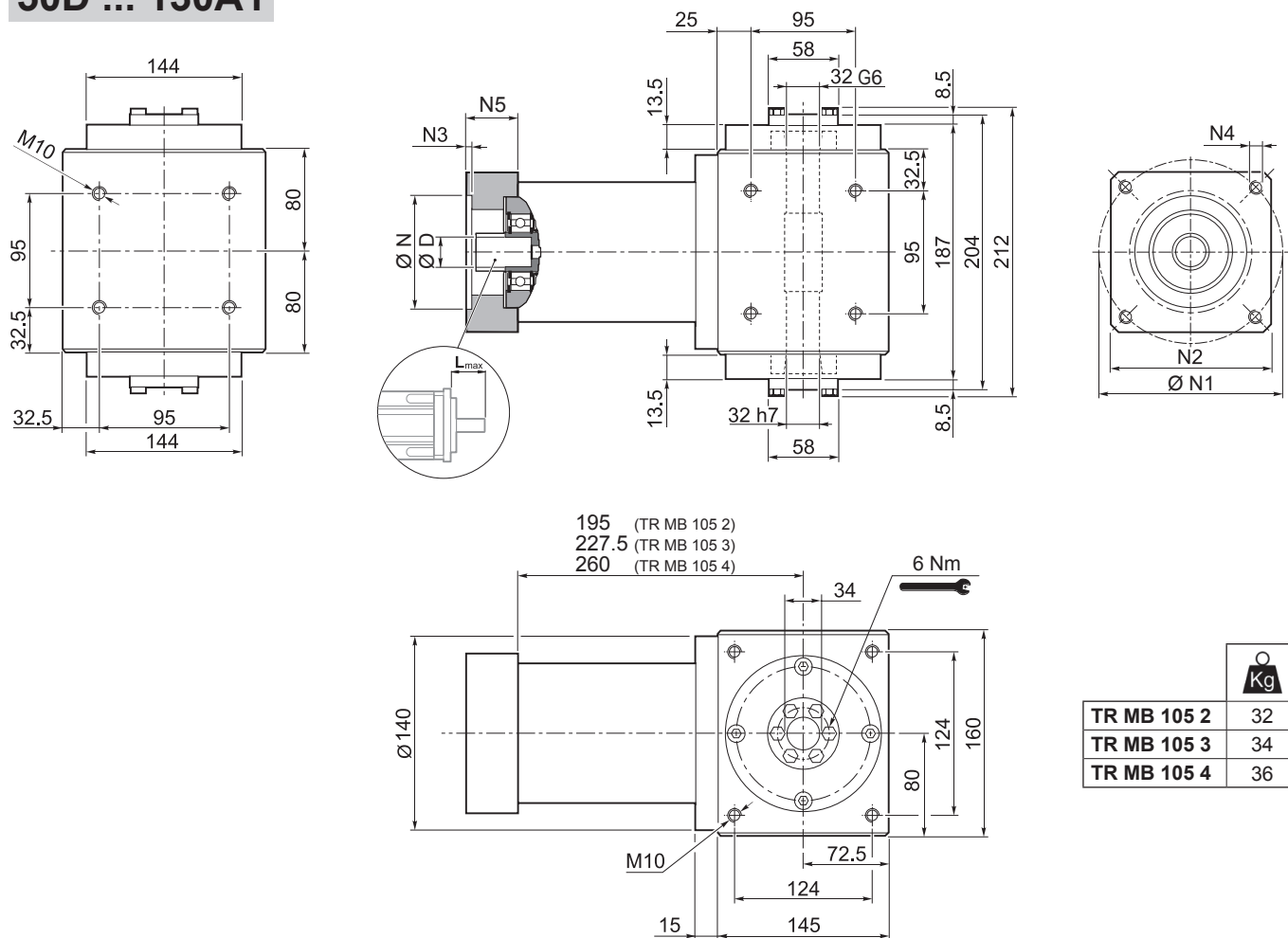
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6	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]		$\left[\frac{Nm}{arcmin} \right]$	[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_216		170	250	600	3000	4500	7'	5'	18.0	3800	4000	89	0.83	0.98	1.11	1.85
TR G 105 4_250		170	250	600	3500	5000	7'	5'	18.0	3800	4000	89	0.92	1.07	1.21	1.93
TR G 105 4_280		170	250	600	3500	5000	7'	5'	18.0	3800	4000	89	0.92	1.06	1.21	1.93
TR G 105 4_350		170	250	600	3500	5000	7'	5'	18.0	3800	4000	89	0.92	1.06	1.21	1.93
TR G 105 4_400		170	250	600	3500	5000	7'	5'	18.0	3800	4000	89	0.92	1.06	1.21	1.93
TR G 105 4_500		170	250	600	3500	5000	7'	5'	18.0	3800	4000	89	0.92	1.06	1.21	1.93
TR G 105 4_700		170	250	600	3500	5000	7'	5'	18.0	3800	4000	89	0.92	1.06	1.21	1.93
TR G 105 4_1000		100	180	360	3500	5000	7'	5'	18.0	3800	4000	89	0.92	1.06	1.21	1.93



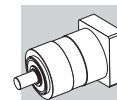
TR MB 105

50D ... 130A1



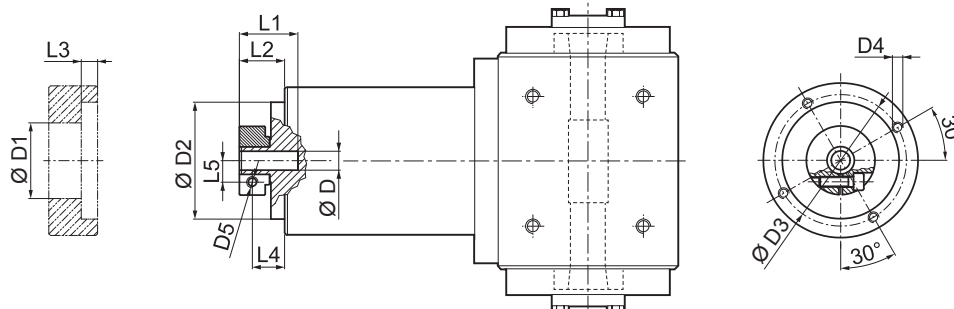
												N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	4	6.5	33	40
60B1	11	12	12.7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



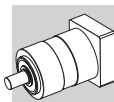
TR MB 105

FM



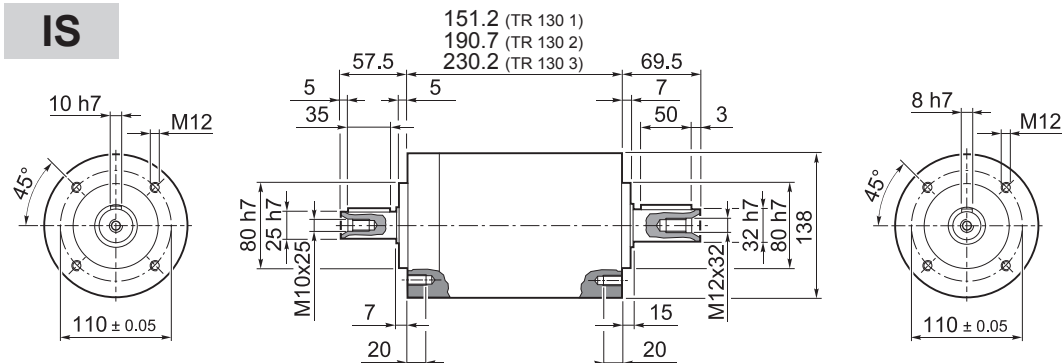
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6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

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



TR 130

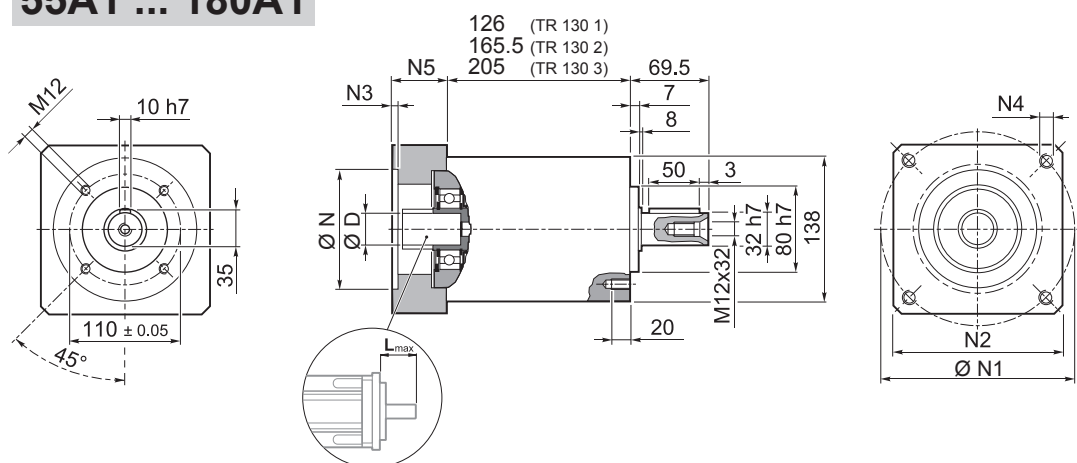
IS



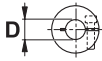
	Kg
TR 130 1	12.0
TR 130 2	15.5
TR 130 3	18.5

TR

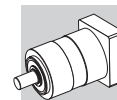
55A1 ... 180A1



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

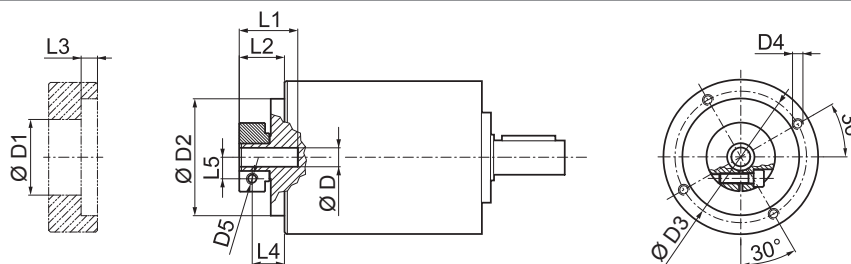
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22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



TR 130

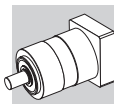
FM



	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

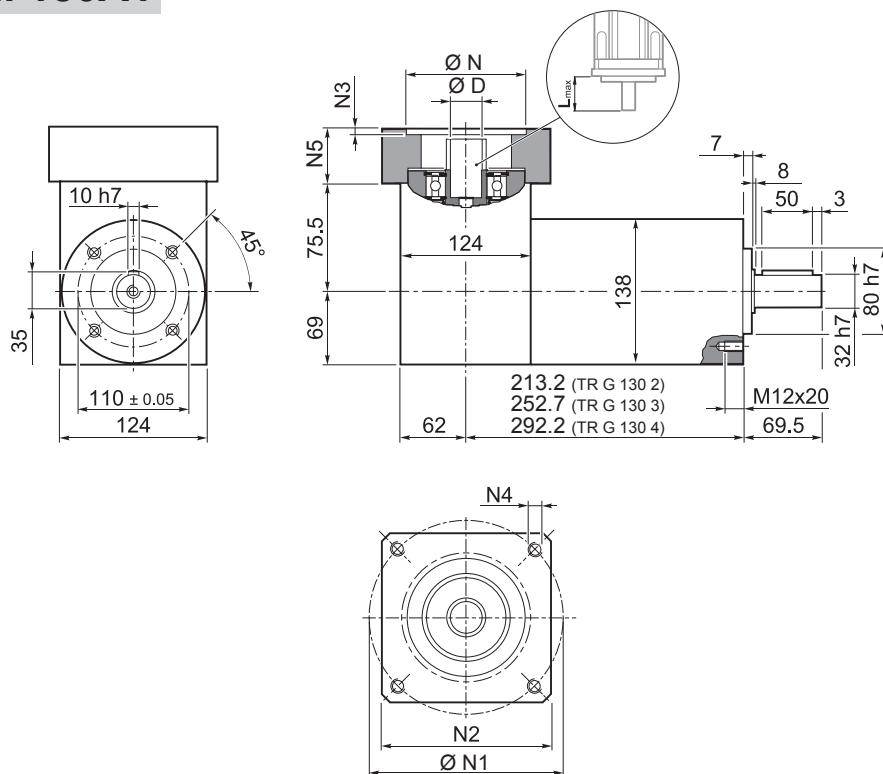
	$M_{n\ 2}$	$M_{a\ 2}$	$M_{p\ 2}$	n_1	$n_{1\ max}$	φ_S	φ_R	C_t	$R_{1\ max}$	$R_{2\ max}$	$A_{2\ max}$	η	J_G [kgcm ²]			
	i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%				
		14 ... 19	22 - 24	28 - 32	35 - 38											
TR 130 1_3	215	400	800	2100	3000	5'	3'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

TR



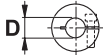
TR G 130

55A1 ... 180A1

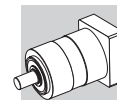


	
TR G 130 2	16.0
TR G 130 3	19.5
TR G 130 4	22.5

TR

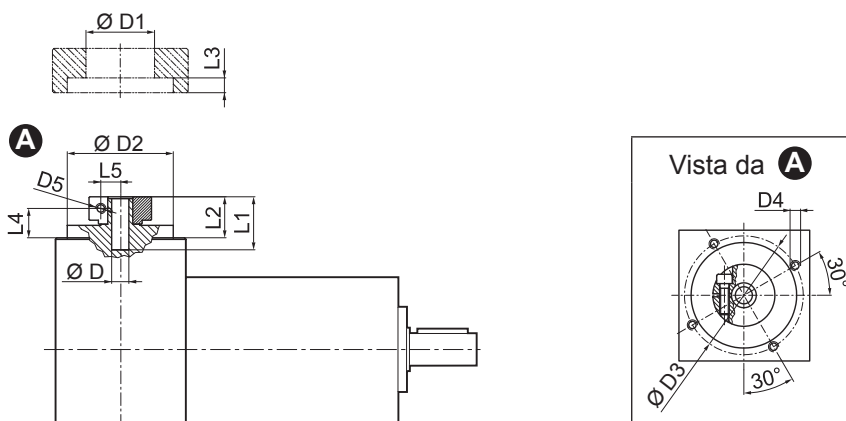
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22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

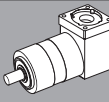


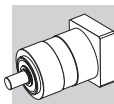
TR G 130

FM



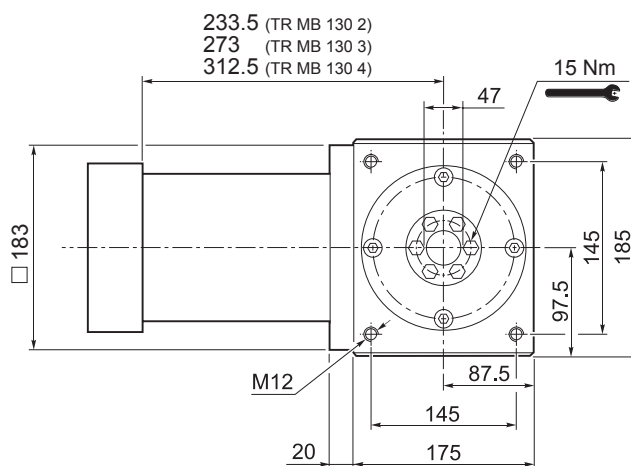
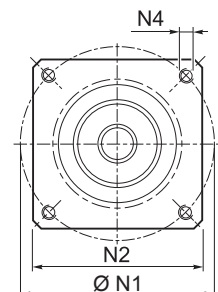
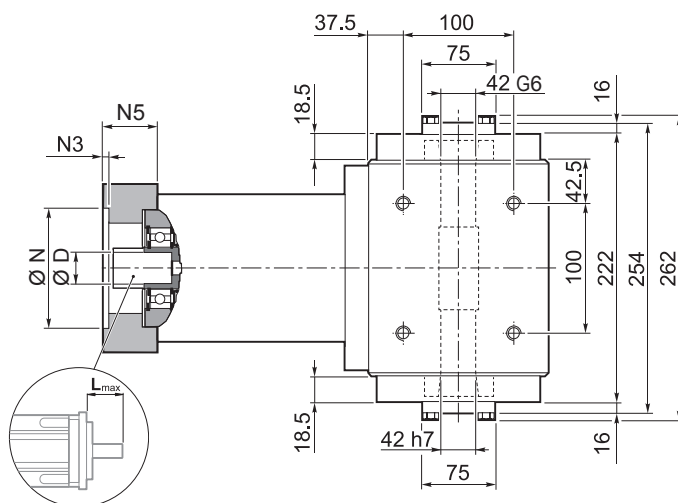
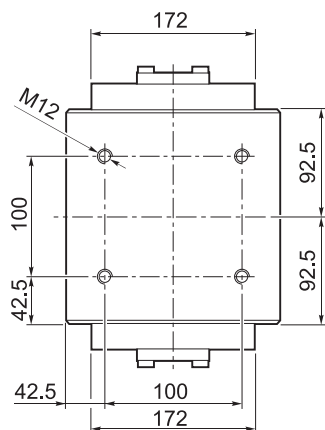
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25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

	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_216		450	700	1300	2900	3500	7'	5'	30.0	5500	6500	89	4.31	4.50	4.89	7.59
TR G 130 4_250		450	700	1300	3200	4000	7'	5'	30.0	5500	6500	89	4.61	4.81	5.19	7.90
TR G 130 4_280		450	700	1300	3200	4000	7'	5'	30.0	5500	6500	89	4.60	4.80	5.18	7.89
TR G 130 4_350		450	700	1300	3200	4000	7'	5'	30.0	5500	6500	89	4.60	4.80	5.18	7.89
TR G 130 4_400		450	700	1300	3200	4000	7'	5'	30.0	5500	6500	89	4.60	4.80	5.18	7.89
TR G 130 4_500		450	700	1300	3200	4000	7'	5'	30.0	5500	6500	89	4.60	4.80	5.18	7.89
TR G 130 4_700		450	700	1300	3200	4000	7'	5'	30.0	5500	6500	89	4.60	4.80	5.18	7.89
TR G 130 4_1000		215	400	800	3200	4000	7'	5'	30.0	5500	6500	89	4.60	4.80	5.18	7.89



TR MB 130

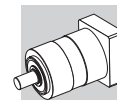
55A1 ... 180A1



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

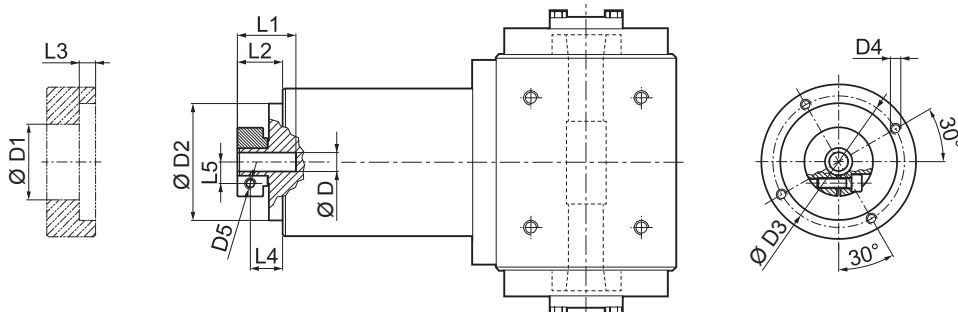
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22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

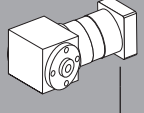


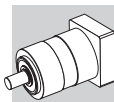
TR MB 130

FM



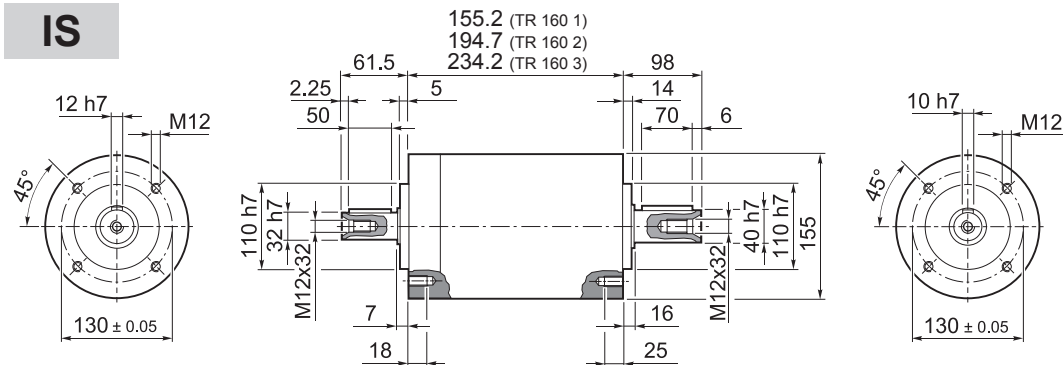
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25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

	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_216	450	700	1300	2900	3500	7'	5'	30.0	89	1.05	1.26	1.61	2.96
TR MB 130 4_250	450	700	1300	3200	4000	7'	5'	30.0	89	0.97	1.18	1.53	2.88
TR MB 130 4_280	450	700	1300	3200	4000	7'	5'	30.0	89	0.96	1.17	1.52	2.87
TR MB 130 4_350	450	700	1300	3200	4000	7'	5'	30.0	89	0.96	1.17	1.52	2.87
TR MB 130 4_400	450	700	1300	3200	4000	7'	5'	30.0	89	0.96	1.17	1.52	2.87
TR MB 130 4_500	450	700	1300	3200	4000	7'	5'	30.0	89	0.96	1.17	1.52	2.87
TR MB 130 4_700	450	700	1300	3200	4000	7'	5'	30.0	89	0.96	1.17	1.52	2.87
TR MB 130 4_1000	215	400	800	3200	4000	7'	5'	30.0	89	0.96	1.17	1.52	2.87



TR 160

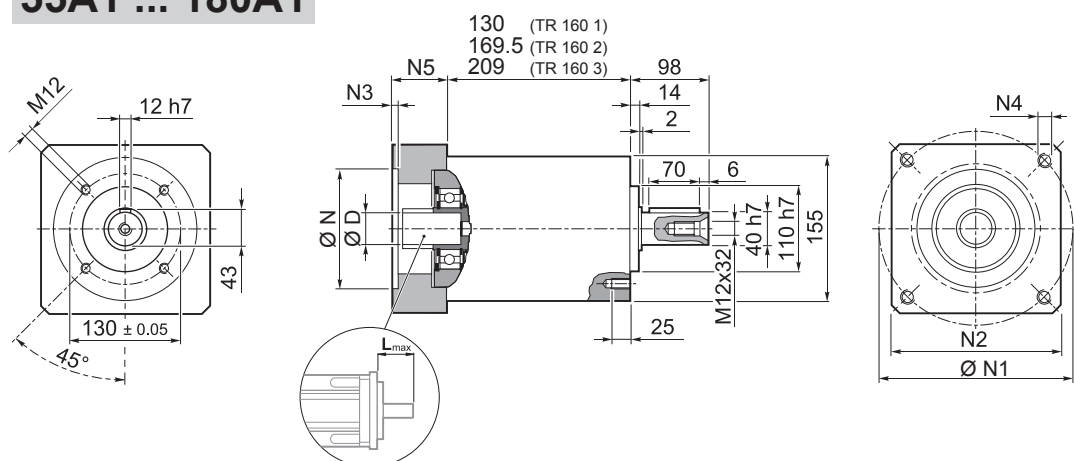
IS



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

TR

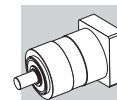
55A1 ... 180A1



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

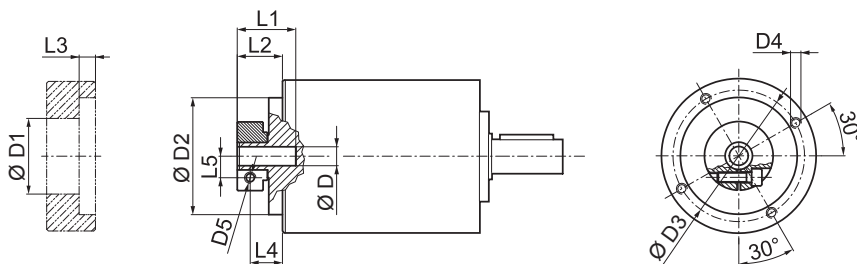
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	15.875	16	19	22	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	6.5	M14x25	49.5	60
180A1	14	15.875	16	19	22	24	28	32	35	38	180	215	190	6.5	M14x25	69.5	80

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

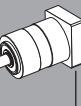


TR 160

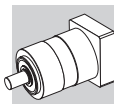
FM



	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

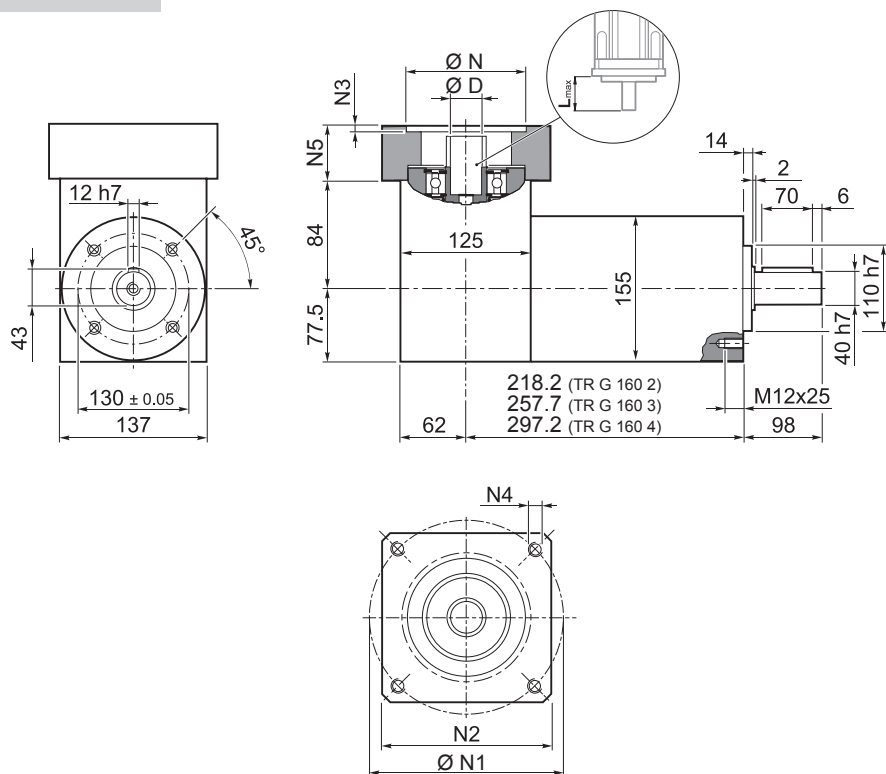
	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]				
	i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%		14 ... 19	22 - 24	28 - 32	35 - 38
TR 160 1_3		350	660	1200	1900	3000	5'	3'	90	1200	6500	7500	97	8.39	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



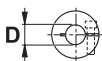
TR G 160

55A1 ... 180A1

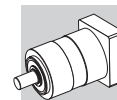


	Kg
TR G 160 2	24
TR G 160 3	28
TR G 160 4	34

TR

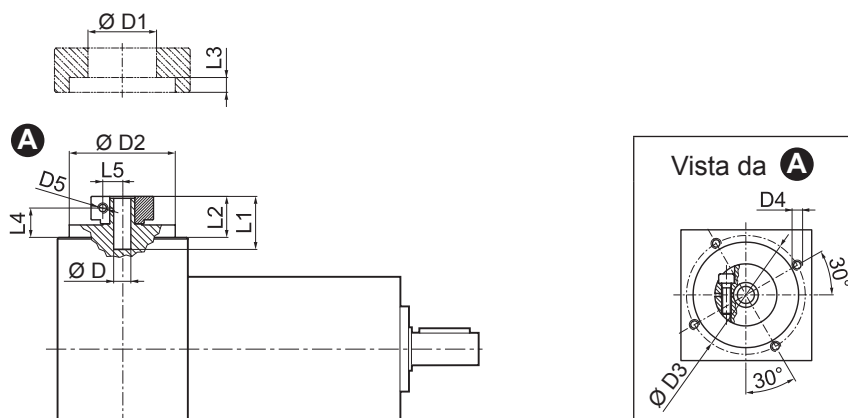
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	140	5	M8x20	39.5	50
110B1	14	15.875	16	19	22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

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

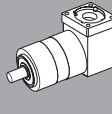


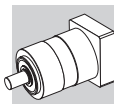
TR G 160

FM



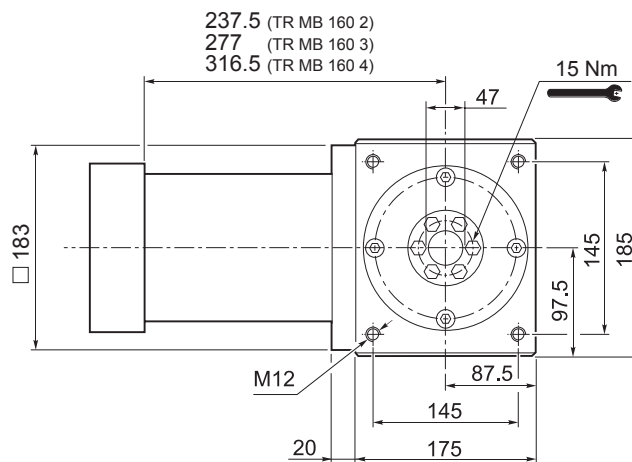
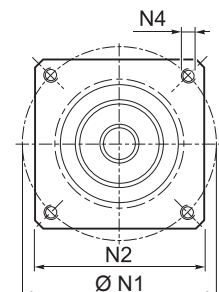
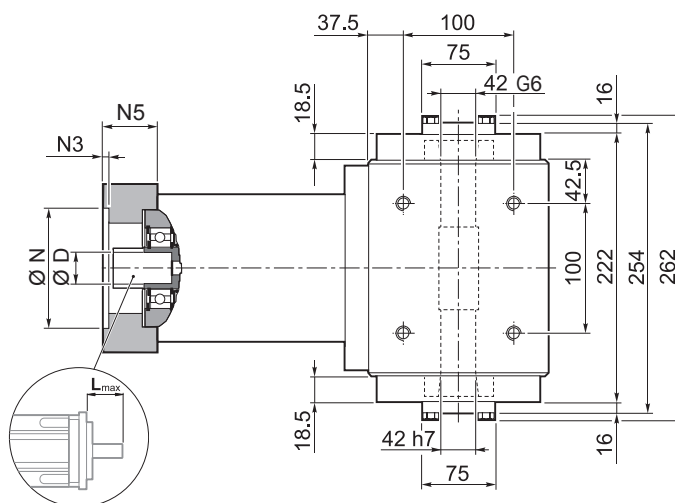
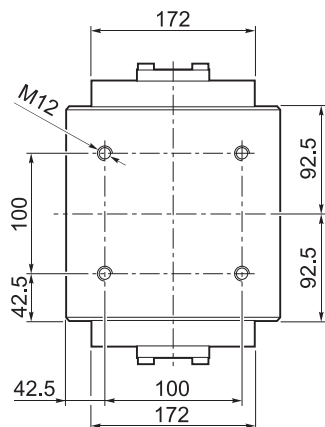
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	113	125.5	M8x15	M6	40	27.5	6	20	14.5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	19.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25	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_{2max}	A_{2max}	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	28 - 32	35 - 38
TR G 160 2_3	350	660	1200	1900	3000	5'	3'	90	6500	7500	94	10.23	10.42	10.80	13.51
TR G 160 2_4	500	750	1400	2200	3500	5'	3'	90	6500	7500	94	6.52	6.71	7.09	9.80
TR G 160 2_5	500	750	1400	2500	3500	5'	3'	90	6500	7500	94	5.87	6.06	6.45	9.16
TR G 160 2_6	500	750	1400	2500	3500	5'	3'	90	6500	7500	94	4.58	4.77	5.16	7.86
TR G 160 2_7	500	750	1400	3000	4000	5'	3'	90	6500	7500	94	5.29	5.48	5.87	8.57
TR G 160 2_10	350	660	1200	3000	4000	5'	3'	90	6500	7500	94	4.97	5.16	5.54	8.25
TR G 160 3_9	350	660	1200	1900	3000	5'	3'	83.5	6500	7500	91	9.35	9.54	9.92	12.63
TR G 160 3_12	700	950	1800	1900	3000	5'	3'	83.5	6500	7500	91	8.78	8.97	9.36	12.07
TR G 160 3_15	700	950	1800	1900	3000	5'	3'	83.5	6500	7500	91	8.71	8.90	9.29	11.99
TR G 160 3_16	700	950	1800	2200	3500	5'	3'	83.5	6500	7500	91	5.79	5.98	6.36	9.07
TR G 160 3_20	700	950	1800	2500	3500	5'	3'	83.5	6500	7500	91	5.41	6.20	6.59	9.30
TR G 160 3_25	700	950	1800	2500	3500	5'	3'	83.5	6500	7500	91	5.95	5.54	5.93	8.64
TR G 160 3_28	700	950	1800	3000	4000	5'	3'	83.5	6500	7500	91	5.05	5.24	5.63	8.33
TR G 160 3_30	350	660	1200	3000	4000	5'	3'	83.5	6500	7500	91	4.89	5.09	5.47	8.18
TR G 160 3_35	700	950	1800	3000	4000	5'	3'	83.5	6500	7500	91	5.36	5.54	5.93	8.64
TR G 160 3_36	500	750	1400	2500	3500	5'	3'	83.5	6500	7500	91	4.32	4.51	4.90	7.60
TR G 160 3_40	700	950	1800	3000	4000	5'	3'	83.5	6500	7500	91	5.00	5.19	5.58	8.28
TR G 160 3_50	700	950	1800	3000	4000	5'	3'	83.5	6500	7500	91	4.99	5.18	5.56	8.27
TR G 160 3_70	700	950	1800	3000	4000	5'	3'	83.5	6500	7500	91	4.82	5.02	5.40	8.11
TR G 160 3_100	350	660	1200	3000	4000	5'	3'	83.5	6500	7500	91	4.82	5.01	5.39	8.10
TR G 160 4_48	700	950	1800	2200	3500	7'	5'	60	6500	7500	89	5.94	6.13	6.53	9.22
TR G 160 4_64	700	950	1800	2200	3500	7'	5'	60	6500	7500	89	5.74	5.93	6.31	9.02
TR G 160 4_75	700	950	1800	2500	3500	7'	5'	60	6500	7500	89	5.50	5.68	6.07	8.79
TR G 160 4_80	700	950	1800	2200	3500	7'	5'	60	6500	7500	89	5.74	5.93	6.31	9.02
TR G 160 4_84	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	5.10	5.29	5.68	8.38
TR G 160 4_90	350	660	1200	3000	4000	7'	5'	60	6500	7500	89	4.88	5.08	5.46	8.17
TR G 160 4_120	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.87	5.07	5.45	8.16
TR G 160 4_125	700	950	1800	2500	3500	7'	5'	60	6500	7500	89	5.33	5.52	5.91	8.62
TR G 160 4_140	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	5.04	5.22	5.61	8.32
TR G 160 4_150	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.87	5.07	5.45	8.16
TR G 160 4_160	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.84	5.04	5.42	8.13
TR G 160 4_175	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	5.02	5.20	5.59	8.30
TR G 160 4_200	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.84	5.04	5.42	8.13
TR G 160 4_210	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.87	5.07	5.45	8.16
TR G 160 4_250	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.83	5.03	5.41	8.12
TR G 160 4_280	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.82	5.02	5.40	8.11
TR G 160 4_350	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.82	2.05	5.40	8.11
TR G 160 4_400	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.82	5.01	5.39	8.11
TR G 160 4_500	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.82	5.01	5.39	8.11
TR G 160 4_700	700	950	1800	3000	4000	7'	5'	60	6500	7500	89	4.82	5.01	5.39	8.11
TR G 160 4_1000	350	660	1200	3000	4000	7'	5'	60	6500	7500	89	4.82	5.01	5.39	8.11

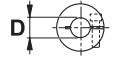


TR MB 160

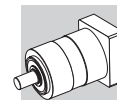
55A1 ... 180A1



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

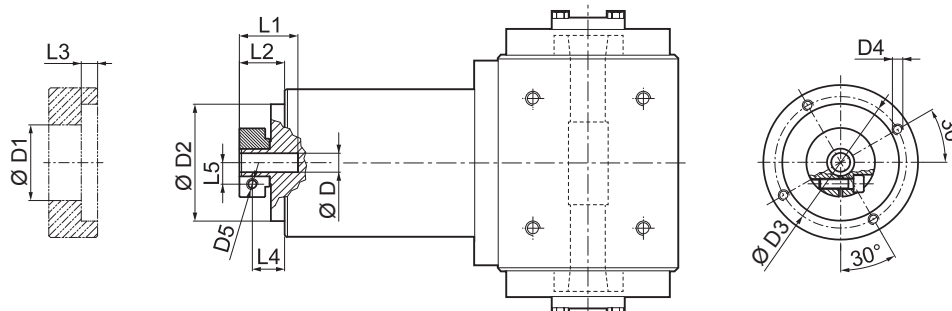
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	15.875	16	19	22	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	6.5	M14x25	49.5	60
180A1	14	15.875	16	19	22	24	28	32	35	38	180	215	190	6.5	M14x25	69.5	80

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

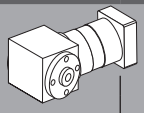


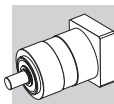
TR MB 160

FM



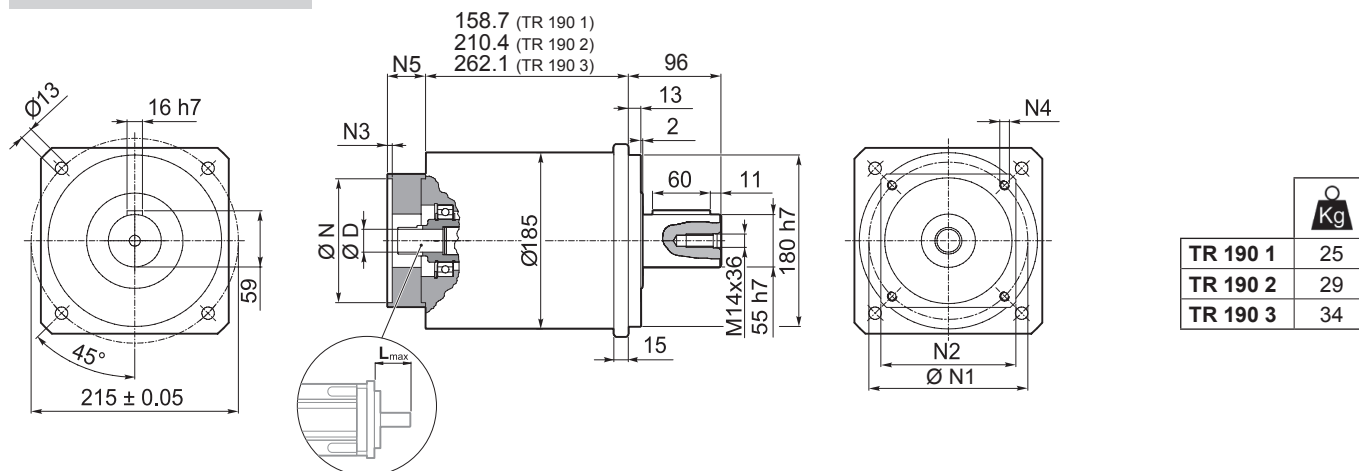
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 15.875 16	48	130	142.5	M8x16	M6	40	27.5	6	20	14.5
19	51	130	142.5	M8x16	M6	40	27.5	6	20	16.5
22 24	56.5	130	142.5	M8x16	M6	41	28.5	6	19.5	19
28	67	130	142.5	M8x16	M8	41	28.5	6	19.5	22.5
32	71	130	142.5	M8x16	M8	41	28.5	6	19.5	24.5
35	73	130	142.5	M8x16	M8	50	37.5	11.25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

	M_n	M_a	M_p	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
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

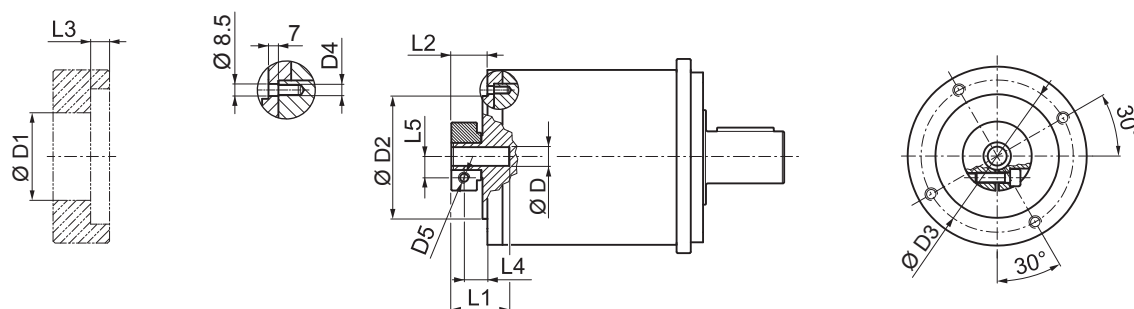


TR

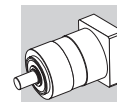
													N	N1	N2	N3	N4	N5	L _{max}
55A1	14	16	19	-	-	-	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	16	19	-	-	-	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	16	19	22	24	-	-	-	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	16	19	22	24	-	-	-	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	16	19	22	24	-	-	-	-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

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

FM



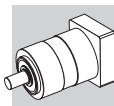
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 16	48	130	142.5	M8x14	M6	45.5	27.5	6	20	14.5
19 24	51	130	142.5	M8x14	M6	45.5	27.5	6	20	16.5
22 24	56.5	130	142.5	M8x14	M6	47	29	6	20	19
28 24	67	130	142.5	M8x14	M8	47	29	6	20	22.5
32 24	71	130	142.5	M8x14	M8	47	29	6	20	24.5
35 24	73	130	142.5	M8x14	M8	54.5	36.5	6	25	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}	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]	%	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

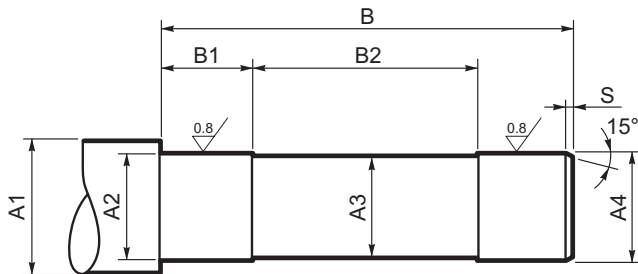
TR



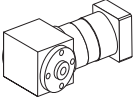
5.3.1 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE

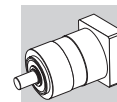
Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Suggeriamo inoltre di completare il montaggio con un dispositivo che garantisca il bloccaggio assiale dell'albero (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	

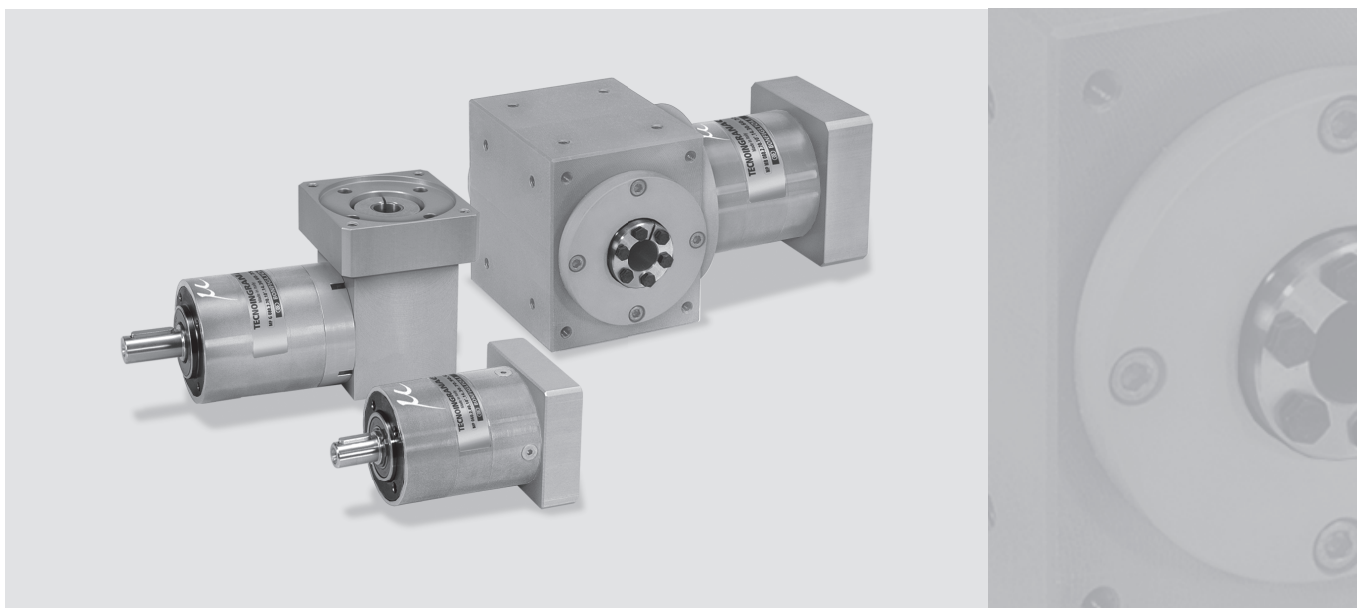


MP

RIDUTTORE EPICICLOIDALE DI PRECISIONE

I riduttori epicicloidali di precisione MP costituiscono un punto di riferimento per le ottime prestazioni e la massima affidabilità.

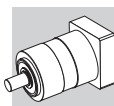
Disponibili in diverse configurazioni (con ingresso ortogonale, uscita ortogonale e albero cavo, con albero veloce pieno) e con adattatori d'ingresso per la maggior parte delle interfacce meccaniche dei motori servo sul mercato.



MP

Caratteristiche di prodotto:

- Densità di coppia elevata
- Coppie nominali e acceleranti elevate
- Elevata capacità di carico radiale e assiale
- Progettato per funzionamenti ciclici e continuativi
- Rigidezza torsionale elevata
- Gioco di precisione ≤ 10 arcmin
- Funzionamento silenzioso
- Massima flessibilità (gioco standard / ridotto; cuscinetti standard / rinforzati)
- Diverse versioni costruttive per adattarsi ai vostri requisiti specifici.



6 CARATTERISTICHE DELLA SERIE MP

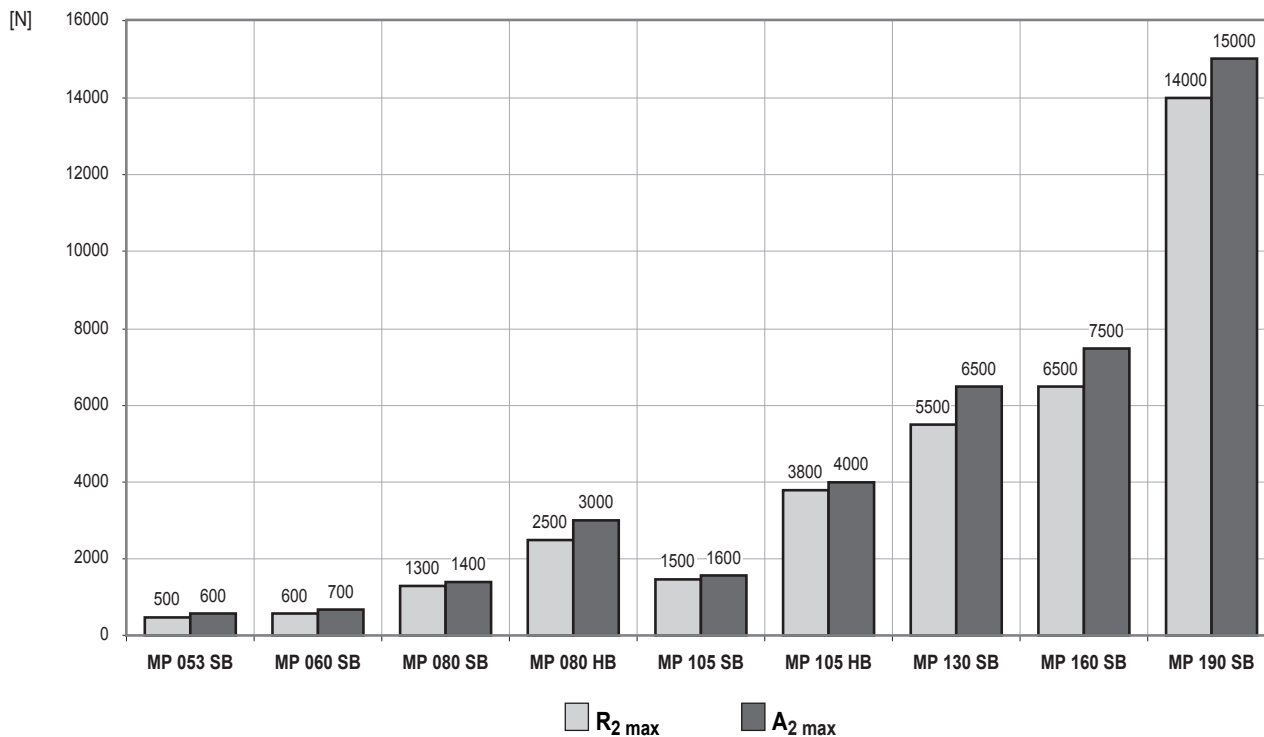
I riduttori epicicloidali a gioco ridotto della serie MP costituiscono una gamma assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio senza la richiesta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

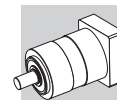
L'accoppiamento al motore è operazione che non richiede alcuna attrezzatura specifica, se non quella normalmente reperibile in un'officina.

- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
 - 1 stadio di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 10'$
 - 2 stadi di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 10'$
 - 3 stadi di riduzione (solo G e MB): standard $\varphi_R \leq 15'$; ridotto $\varphi_R \leq 10'$
 - 3 stadi di riduzione: standard $\varphi_S \leq 17'$; ridotto $\varphi_R \leq 12'$
 - 4 stadi di riduzione (solo G e MB): standard $\varphi_S \leq 17'$; ridotto $\varphi_R \leq 12'$
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero 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; $i=10$.
- Cuscinetti dimensionati per una durata media di 20000 ore, in condizioni di funzionamento nominale. La tabella sottostante illustra le tipologie di cuscinetti dell'asse lento.

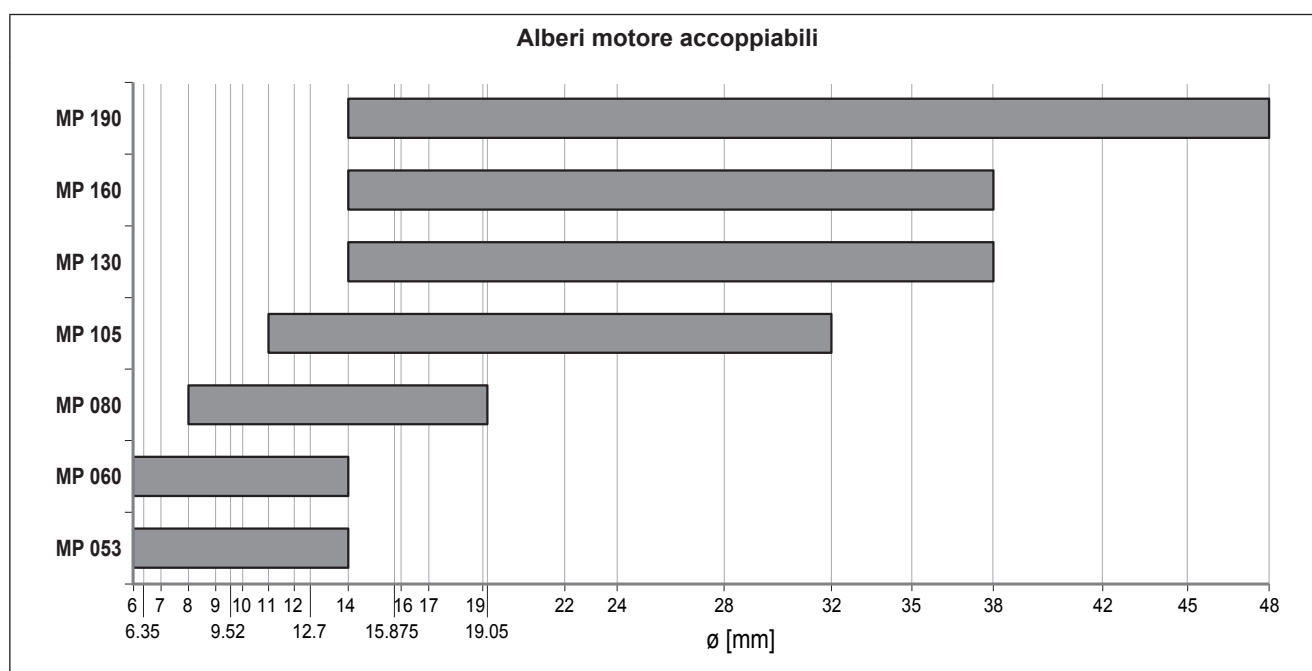
	MP 053	MP 060	MP 080	MP 105	MP 130	MP 160	MP 190
SB							
HB							

Carichi massimi applicabili sull'albero lento





- Ampia possibilità di configurazione lato accoppiamento motore.

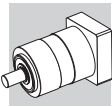


- Lubrificazione ottimale in funzione del tipo di servizio specificato.
In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

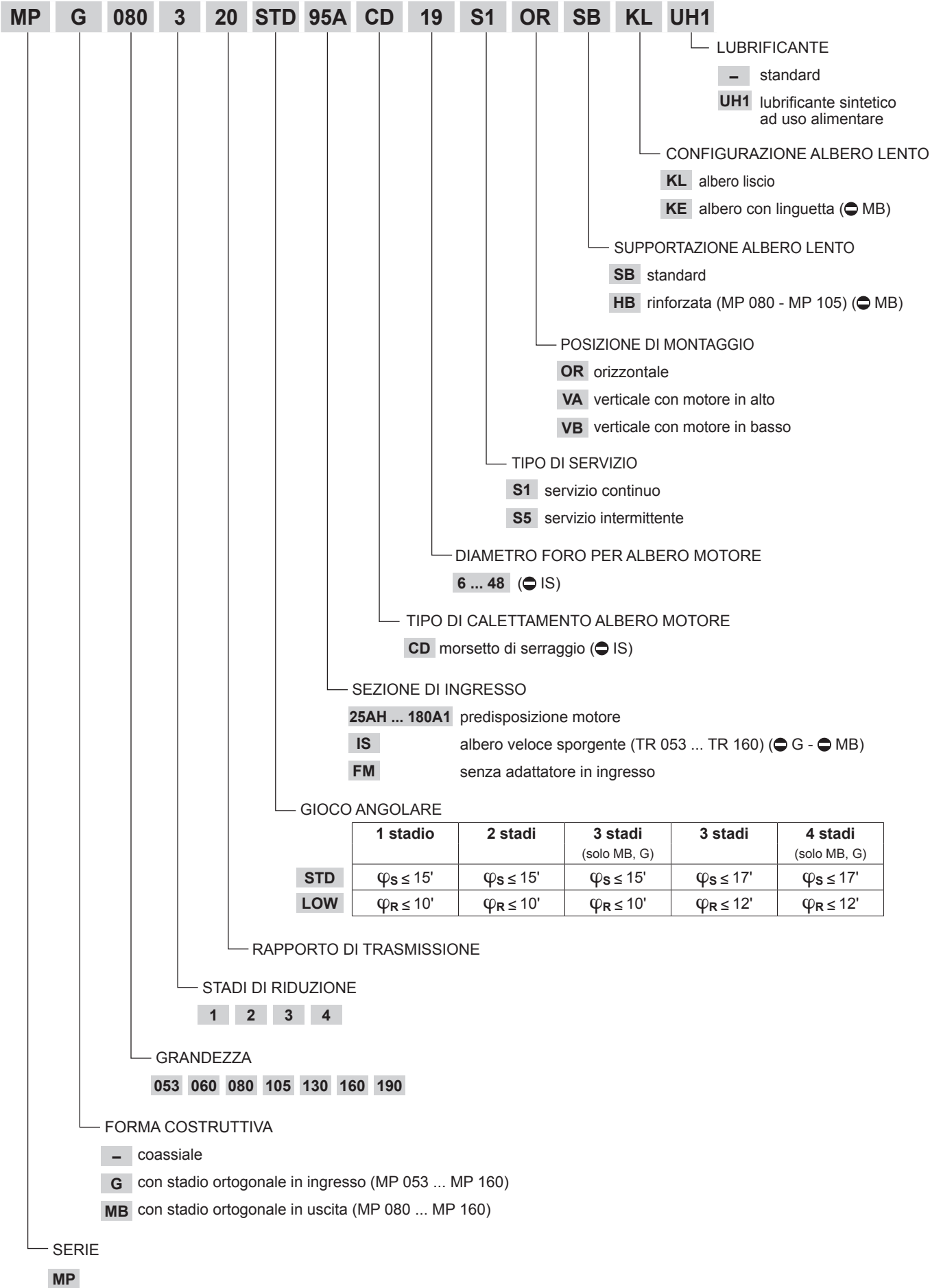
tipo di servizio	MP 053 - MP 060	MP 080 ... MP 190	anelli di tenuta
S1 (continuo)	NLGI grasso con grado di consistenza 00	Olio sintetico viscosità ISO VG 220	Fluoro-elastomero
S5 (intermittente)		NLGI grasso con grado di consistenza 00	NBR

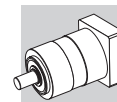
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore termico f_T .
- La temperatura sulla cassa non deve superare $T_{max} = 90^\circ\text{C}$.

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

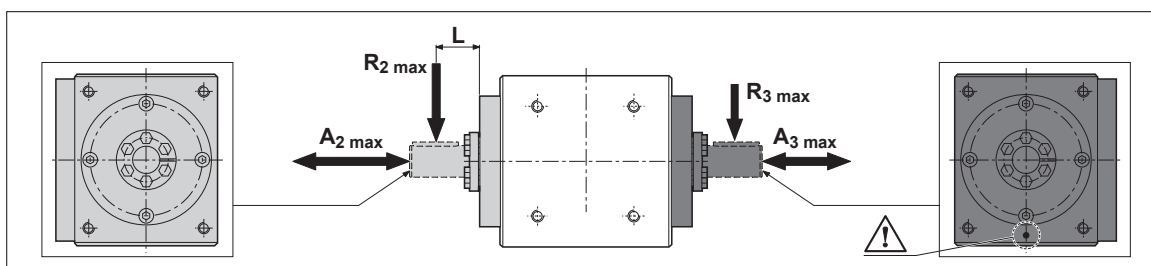
		FORMA COSTRUTTIVA		
		coassiale (—)	con stadio ortogonale in ingresso (G)	con stadio ortogonale in uscita (MB)
SEZIONE DI INGRESSO	25AH ... 180A1			
	IS			
	FM			

6.1.2 POSIZIONI DI MONTAGGIO

	OR	VA	VB
—			
G			
MB			

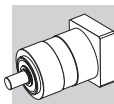
MP

6.2 CARICHI RADIALI ED ASSIALI AMMISSIBILI PER LA FORMA COSTRUTTIVA MB



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

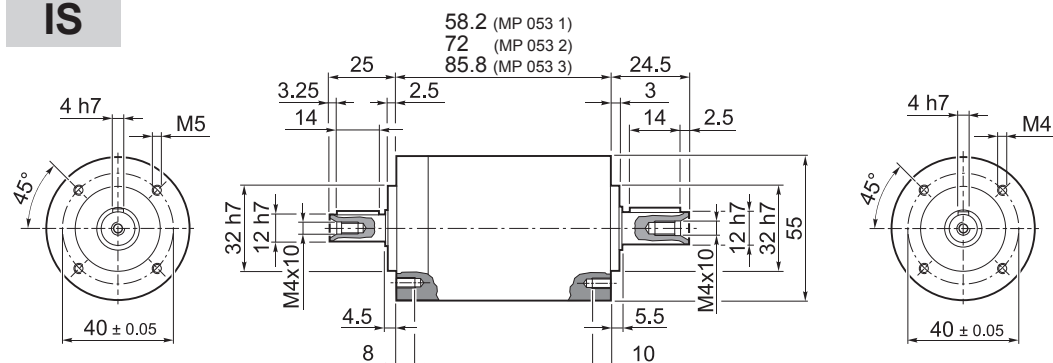
* Cuscinetti dimensionati per durata media pari a 10000 ore in condizioni di funzionamento nominale.



6.3 DIMENSIONI E DATI TECNICI

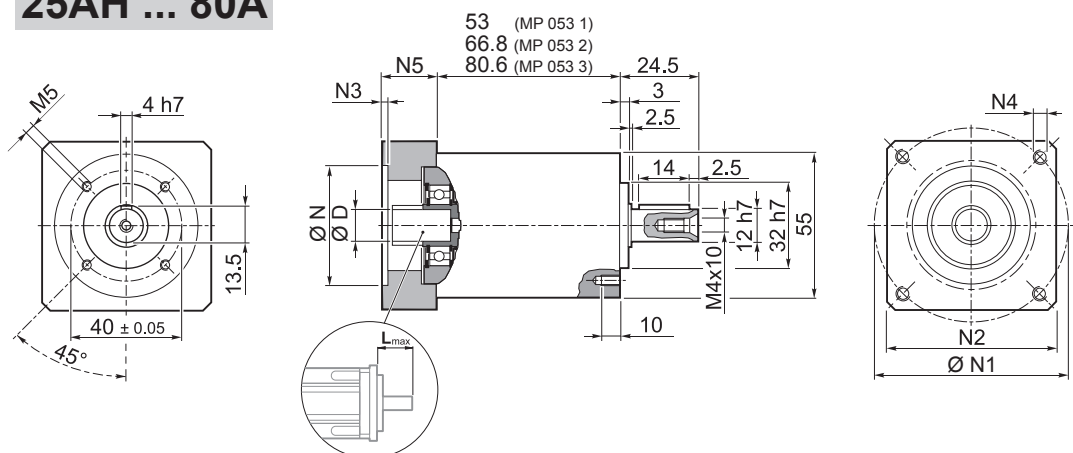
MP 053

IS



	Kg
MP 053 1	0.8
MP 053 2	1.0
MP 053 3	1.3

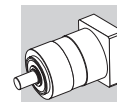
25AH ... 80A



	Kg
MP 053 1	0.8
MP 053 2	1.0
MP 053 3	1.3

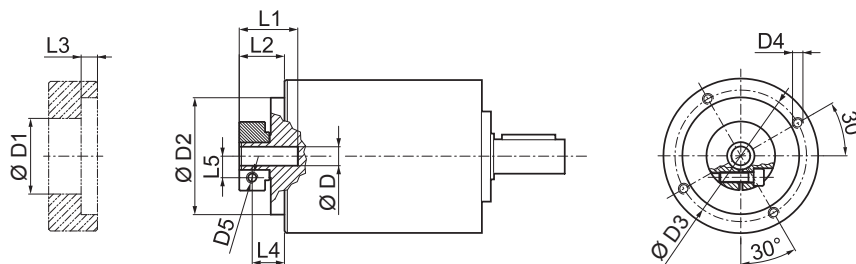
	D										N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	26	36	48					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	28	36	48					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	30	36	48					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	32	38	48					
34AH	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	3	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

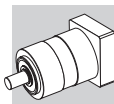
FM



				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

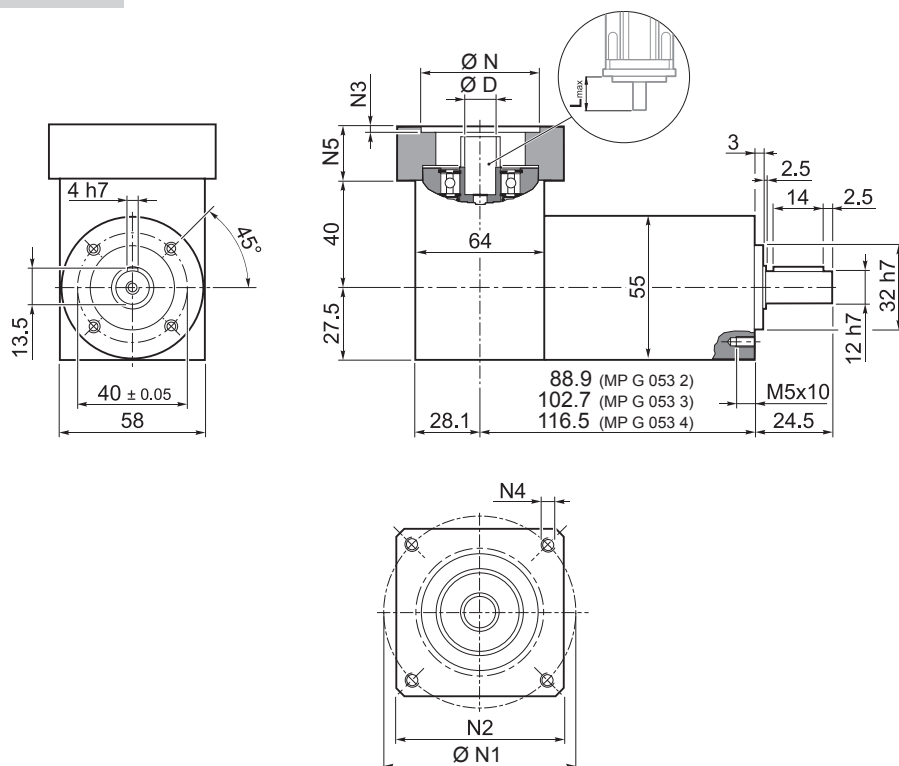
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	[N]	[N]	[N]	%	6 ... 9.52	10 ... 14
MP 053 1_3	12	22	40	3300	4000	15'	10'	1.0	200	500	600	97	0.06	0.08
MP 053 1_4	15	28	45	3500	5000	15'	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_216	20	30	60	3500	5000	17'	12'	0.7	200	500	600	91	0.03	0.05
MP 053 3_225	20	30	60	4000	6000	17'	12'	0.7	200	500	600	91	0.03	0.05
MP 053 3_245	20	30	60	4000	6000	17'	12'	0.7	200	500	600	91	0.03	0.05
MP 053 3_252	20	30	60	4000	6000	17'	12'	0.7	200	500	600	91	0.05	0.06
MP 053 3_324	20	30	60	4000	6000	17'	12'	0.7	200	500	600	91	0.03	0.05
MP 053 3_405	20	30	60	4000	6000	17'	12'	0.7	200	500	600	91	0.03	0.05
MP 053 3_567	20	30	60	4000	6000	17'	12'	0.7	200	500	600	91	0.03	0.05
MP 053 3_729	12	22	40	4000	6000	17'	12'	0.7	200	500	600	91	0.03	0.05

MP



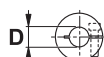
MP G 053

25AH ... 80A

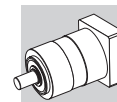


	
MP G 053 2	1.3
MP G 053 3	1.5
MP G 053 4	1.8

MP

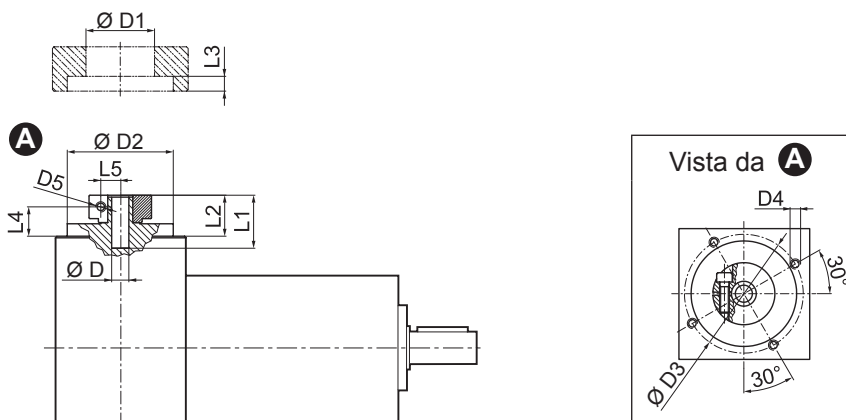
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	–	–	–	–	–	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	–	–	–	–	–	26	36	48					
28AH	6	6.35	7	8	9	9.52	–	–	–	–	–	28	36	48					
30AH	6	6.35	7	8	9	9.52	–	–	–	–	–	30	36	48					
32AH	6	6.35	7	8	9	9.52	–	–	–	–	–	32	38	48					
34AH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

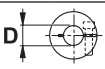
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

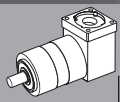


MP G 053

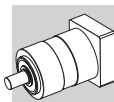
FM



				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

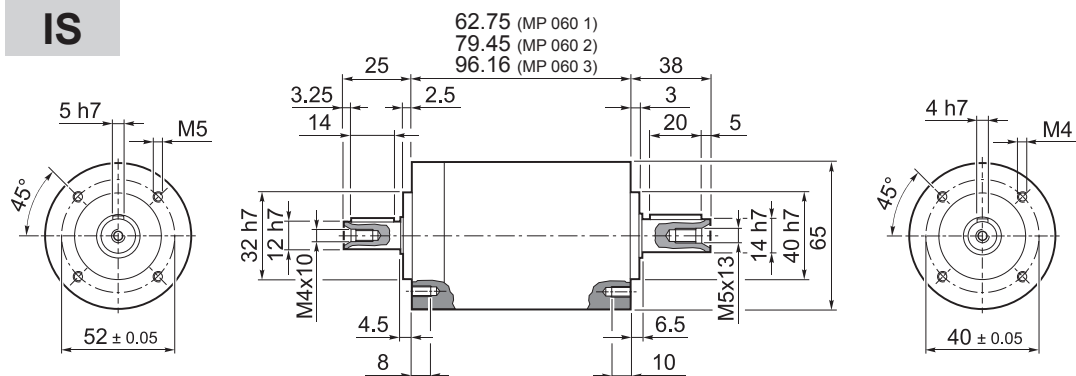
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	6 ... 9.52	10 ... 14
MP G 053 2_3		12	22	40	3300	4000	15'	10'	1.0	500	600	94	0.18	0.20
MP G 053 2_4		15	28	45	3500	5000	15'	10'	1.0	500	600	94	0.18	0.19
MP G 053 2_5		15	28	45	3500	5000	15'	10'	1.0	500	600	94	0.17	0.19
MP G 053 2_6		15	28	45	3500	5000	15'	10'	1.0	500	600	94	0.17	0.18
MP G 053 2_7		15	28	45	4000	6000	15'	10'	1.0	500	600	94	0.17	0.19
MP G 053 2_9		12	22	40	4000	6000	15'	10'	1.0	500	600	94	0.17	0.18
MP G 053 3_12		20	30	60	3300	4000	15'	10'	0.9	500	600	91	0.18	0.20
MP G 053 3_15		20	30	60	3300	4000	15'	10'	0.9	500	600	91	0.18	0.20
MP G 053 3_16		20	30	60	3500	5000	15'	10'	0.9	500	600	91	0.17	0.19
MP G 053 3_20		20	30	60	3500	5000	15'	10'	0.9	500	600	91	0.17	0.19
MP G 053 3_25		20	30	60	3500	5000	15'	10'	0.9	500	600	91	0.17	0.19
MP G 053 3_28		20	30	60	4000	6000	15'	10'	0.9	500	600	91	0.17	0.19
MP G 053 3_35		20	30	60	4000	6000	15'	10'	0.9	500	600	91	0.17	0.19
MP G 053 3_36		15	28	45	4000	6000	15'	10'	0.9	500	600	91	0.17	0.18
MP G 053 3_45		20	30	60	4000	6000	15'	10'	0.9	500	600	91	0.17	0.19
MP G 053 3_81		12	22	40	4000	6000	15'	10'	0.9	500	600	91	0.17	0.18
MP G 053 4_48		20	30	60	4000	5000	17'	12'	0.7	500	600	89	0.18	0.19
MP G 053 4_60		20	30	60	3500	5000	17'	12'	0.7	500	600	89	0.18	0.19
MP G 053 4_64		20	30	60	3500	5000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_75		20	30	60	3500	5000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_80		20	30	60	3500	5000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_84		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_100		20	30	60	3500	5000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_112		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_125		20	30	60	3500	5000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_140		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_144		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.18
MP G 053 4_175		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_180		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.18
MP G 053 4_216		20	30	60	3500	5000	17'	12'	0.7	500	600	89	0.17	0.18
MP G 053 4_225		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.18
MP G 053 4_245		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.19
MP G 053 4_252		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.18	0.20
MP G 053 4_324		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.18
MP G 053 4_405		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.18
MP G 053 4_567		20	30	60	4000	6000	17'	12'	0.7	500	600	89	0.17	0.18
MP G 053 4_729		12	22	40	4000	6000	17'	12'	0.7	500	600	89	0.17	0.18

MP



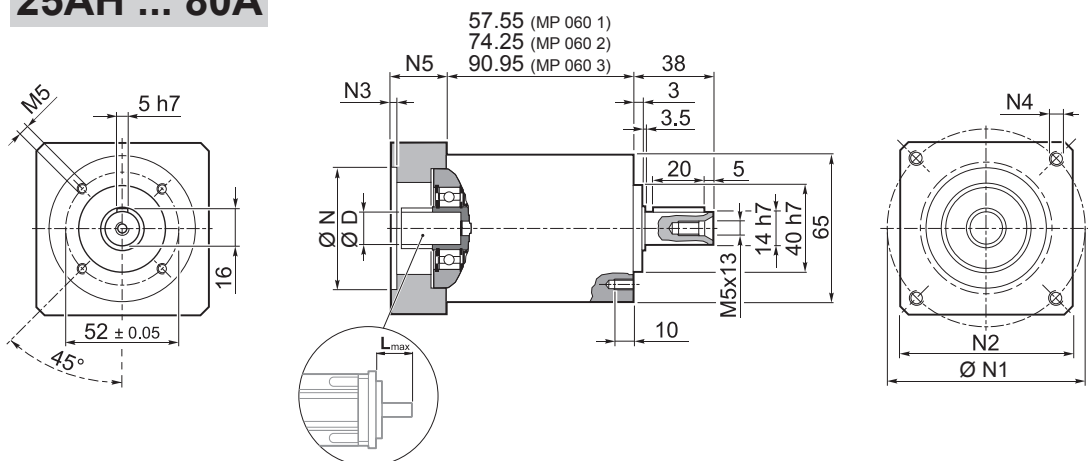
MP 060

IS



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

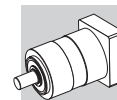
25AH ... 80A



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

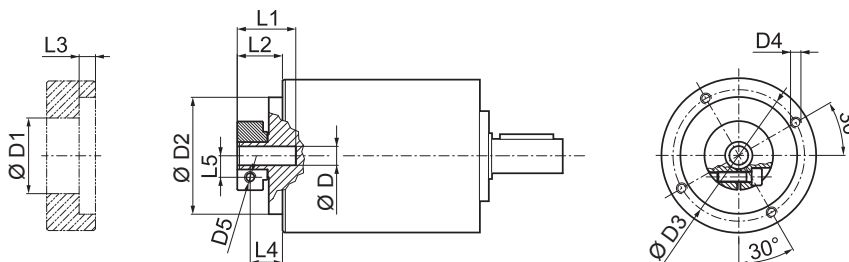
												N	N1		N2	N3	N4	N5	L _{max}
	min	max																	
25AH	6	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH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

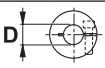
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

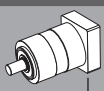


MP 060

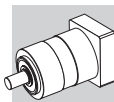
FM



				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

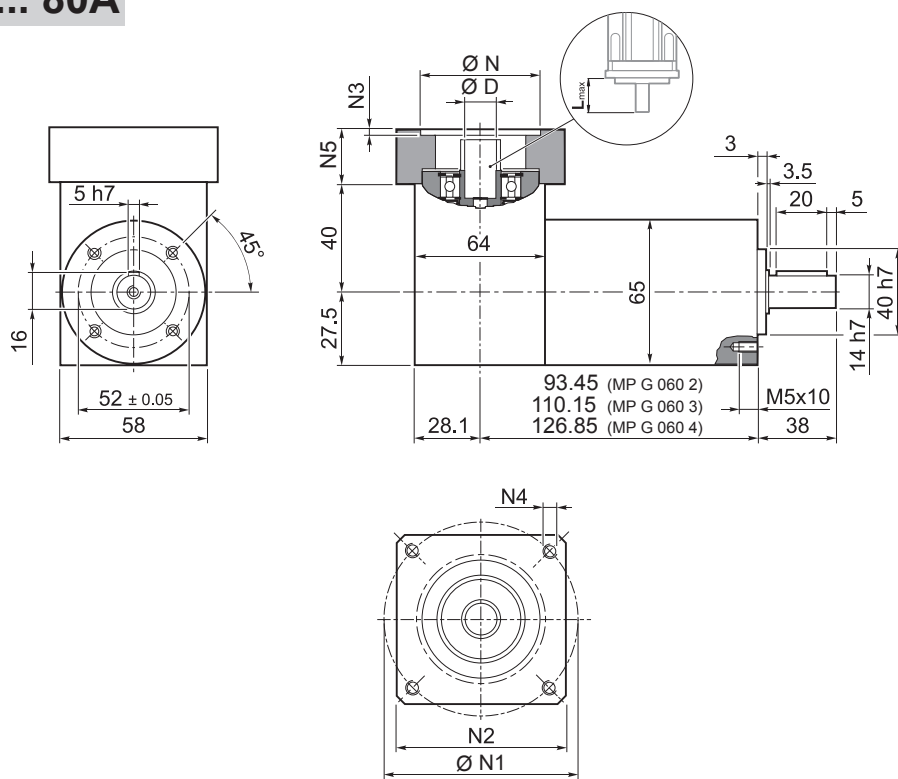
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	[N]	%	6 ... 9.52	10 ... 14
MP 060 1_3	18	35	70	3300	4000	15'	10'	3.0	200	600	700	97	0.10	0.11
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_216	30	45	100	3500	5000	17'	12'	1.8	200	600	700	91	0.04	0.06
MP 060 3_250	30	45	100	4000	6000	17'	12'	1.8	200	600	700	91	0.03	0.05
MP 060 3_280	30	45	100	4000	6000	17'	12'	1.8	200	600	700	91	0.03	0.05
MP 060 3_350	30	45	100	4000	6000	17'	12'	1.8	200	600	700	91	0.03	0.05
MP 060 3_400	30	45	100	4000	6000	17'	12'	1.8	200	600	700	91	0.03	0.05
MP 060 3_500	30	45	100	4000	6000	17'	12'	1.8	200	600	700	91	0.03	0.05
MP 060 3_700	30	45	100	4000	6000	17'	12'	1.8	200	600	700	91	0.03	0.05
MP 060 3_1000	18	35	70	4000	6000	17'	12'	1.8	200	600	700	91	0.03	0.05

MP



MP G 060

25AH ... 80A

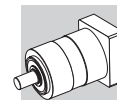


	Kg
MP G 060 2	1.7
MP G 060 3	2.2
MP G 060 4	2.5

MP

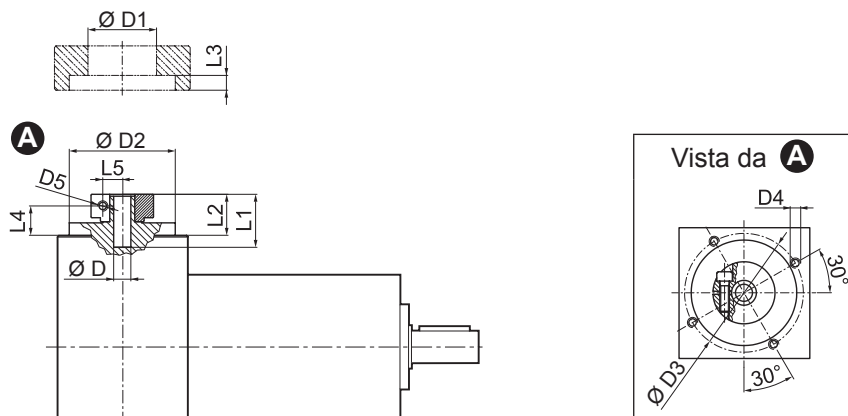
													N	N1		N2	N3	N4	N5	L _{max}
														min	max					
25AH	6	6.35	7	8	9	9.52	–	–	–	–	–	–	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	–	–	–	–	–	–	26	39	56					
28AH	6	6.35	7	8	9	9.52	–	–	–	–	–	–	28	39	56					
30AH	6	6.35	7	8	9	9.52	–	–	–	–	–	–	30	39	56					
32AH	6	6.35	7	8	9	9.52	–	–	–	–	–	–	32	39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



MP G 060

FM



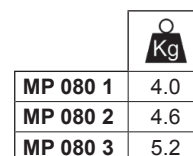
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7		32.5	50	42.5	M4x8	M4	20.2	13.2	3	8.7	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	20.2	13.2	3	7.8	9
11	12	12.7		35.5	50	42.5	M4x8	M4	20.5	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	24	17	3	10.2	11.5

	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]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	6 ... 9.52	10 ... 14
MP G 060 2_3		18	35	70	3300	4000	15'	10'	3.0	600	700	94	0.20	0.20
MP G 060 2_4		25	40	90	3500	5000	15'	10'	3.0	600	700	94	0.18	0.20
MP G 060 2_5		25	40	90	3500	5000	15'	10'	3.0	600	700	94	0.17	0.19
MP G 060 2_6		25	40	90	3500	5000	15'	10'	3.0	600	700	94	0.17	0.19
MP G 060 2_7		25	40	90	4000	6000	15'	10'	3.0	600	700	94	0.17	0.19
MP G 060 2_10		18	35	70	4000	6000	15'	10'	3.0	600	700	94	0.17	0.18
MP G 060 3_9		18	35	70	3300	4000	15'	10'	2.5	600	700	91	0.20	0.21
MP G 060 3_12		30	45	100	3300	4000	15'	10'	2.5	600	700	91	0.20	0.21
MP G 060 3_15		30	45	100	3300	4000	15'	10'	2.5	600	700	91	0.19	0.21
MP G 060 3_16		30	45	100	3500	5000	15'	10'	2.5	600	700	91	0.18	0.20
MP G 060 3_20		30	45	100	3500	5000	15'	10'	2.5	600	700	91	0.17	0.19
MP G 060 3_25		30	45	100	3500	5000	15'	10'	2.5	600	700	91	0.17	0.18
MP G 060 3_28		30	45	100	4000	6000	15'	10'	2.5	600	700	91	0.17	0.19
MP G 060 3_30		18	35	70	4000	6000	15'	10'	2.5	600	700	91	0.17	0.18
MP G 060 3_35		30	45	100	4000	6000	15'	10'	2.5	600	700	91	0.18	0.19
MP G 060 3_36		25	40	90	3500	5000	15'	10'	2.5	600	700	91	0.18	0.19
MP G 060 3_40		30	45	100	4000	6000	15'	10'	2.5	600	700	91	0.17	0.18
MP G 060 3_50		30	45	100	4000	6000	15'	10'	2.5	600	700	91	0.17	0.18
MP G 060 3_70		30	45	100	4000	6000	15'	10'	2.5	600	700	91	0.17	0.18
MP G 060 3_100		18	35	70	4000	6000	15'	10'	2.5	600	700	91	0.17	0.18
MP G 060 4_48		30	45	100	3500	5000	17'	12'	1.8	600	700	89	0.18	0.20
MP G 060 4_64		30	45	100	3500	5000	17'	12'	1.8	600	700	89	0.18	0.20
MP G 060 4_75		30	45	100	3500	5000	17'	12'	1.8	600	700	89	0.17	0.19
MP G 060 4_80		30	45	100	3500	5000	17'	12'	1.8	600	700	89	0.18	0.20
MP G 060 4_84		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.19
MP G 060 4_90		18	35	70	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_120		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.15	0.17
MP G 060 4_125		30	45	100	3500	5000	17'	12'	1.8	600	700	89	0.17	0.19
MP G 060 4_140		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.19
MP G 060 4_150		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_160		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_175		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.19
MP G 060 4_200		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_210		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_216		30	45	100	3500	5000	17'	12'	1.8	600	700	89	0.17	0.19
MP G 060 4_250		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_280		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_350		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_400		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_500		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_700		30	45	100	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18
MP G 060 4_1000		18	35	70	4000	6000	17'	12'	1.8	600	700	89	0.17	0.18

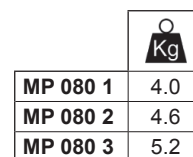
MP



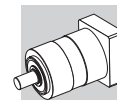
IS



40B1 ... 110B1

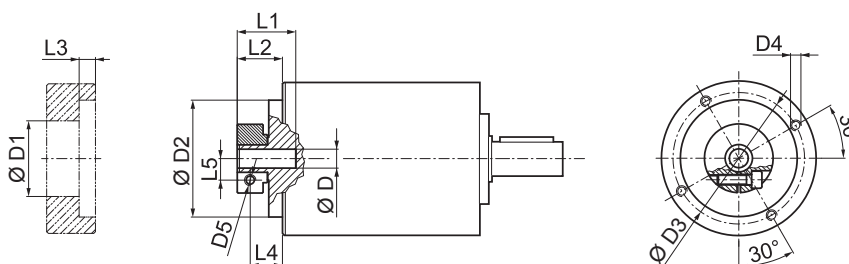


Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

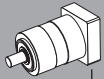


MP 080

FM



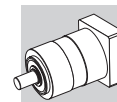
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52		38	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	10.5
11	12	12.7		43	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	12.5
14	15.875	16	17	48	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	14.5
19	19.05			51	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	16.5

	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]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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_216		70	100	250	3200	4500	17'	12'	5.4	400	1300	1400	2500	3000	91	0.20	0.29
MP 080 3_250		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28
MP 080 3_280		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28
MP 080 3_350		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28
MP 080 3_400		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28
MP 080 3_500		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28
MP 080 3_700		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28
MP 080 3_1000		40	80	180	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28

MP

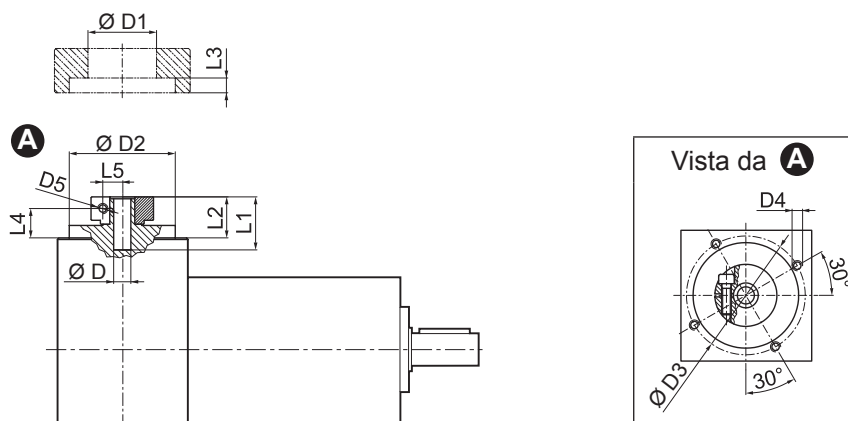
[illegible]MP

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

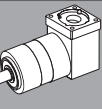


MP G 080

FM



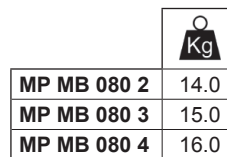
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
8	9	9.52		38	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	10.5
11	12	12.7		43	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	12.5
14	15.875	16	17	48	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	14.5
19	19.05			51	68	76.5	M6x12	M6	32.2	26.3	9.5	19.3	16.5

	i														J_G [kgcm ²]	
		$M_{n\ 2}$	$M_{a\ 2}$	$M_{p\ 2}$	n_1	$n_1\ max$	Ψ_S	Ψ_R	C_t	SB		HB		η		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\frac{Nm}{arcmin}$	[N]	[N]	[N]	[N]	%	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_216		70	100	250	3200	4500	17'	12'	5.4	1300	1400	2500	3000	89	0.57	0.70
MP G 080 4_250		70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.71
MP G 080 4_280		70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.71
MP G 080 4_350		70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.71
MP G 080 4_400		70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.71
MP G 080 4_500		70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.71
MP G 080 4_700		70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.71
MP G 080 4_1000		40	80	180	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.71

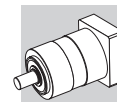
MP



40B1 ... 110B1

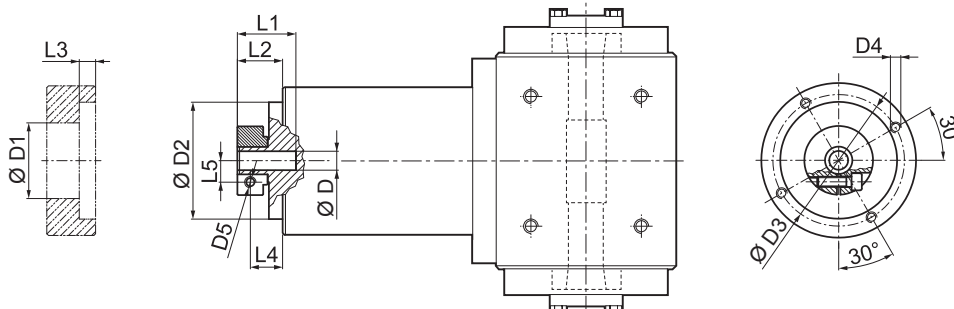


Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



MP MB 080

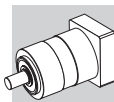
FM



				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

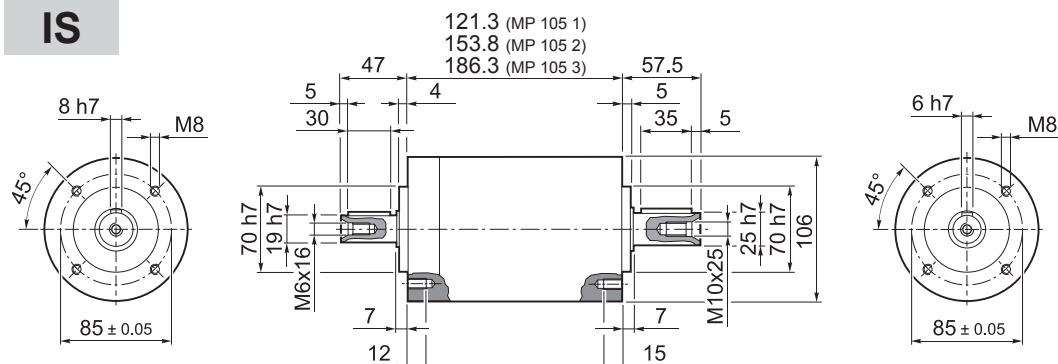
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	ψ _R	C _t	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	%	8 ... 12.7	14 ... 19.05
MP MB 080 2_3		40	80	180	2900	3500	15'	10'	7.0	94	0.50	0.59
MP MB 080 2_4		50	80	200	3100	4500	15'	10'	7.0	94	0.34	0.43
MP MB 080 2_5		50	80	200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

MP



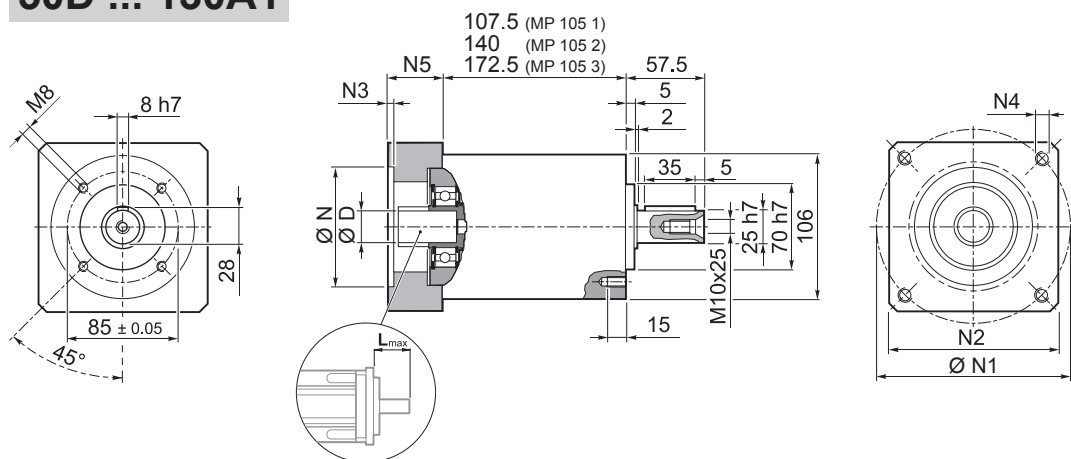
MP 105

IS

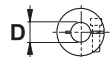


	
MP 105 1	6.5
MP 105 2	8.5
MP 105 3	10.5

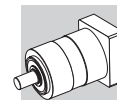
50D ... 130A1



	
MP 105 1	6.5
MP 105 2	8.5
MP 105 3	10.5

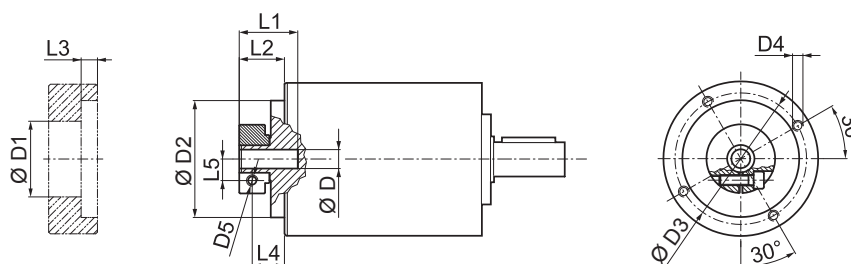
													N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	—	—	—	—	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	—	—	—	—	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	—	—	—	—	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	—	—	—	—	60	75	100	4	6.5	33	40
60B1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



MP 105

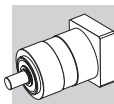
FM



				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

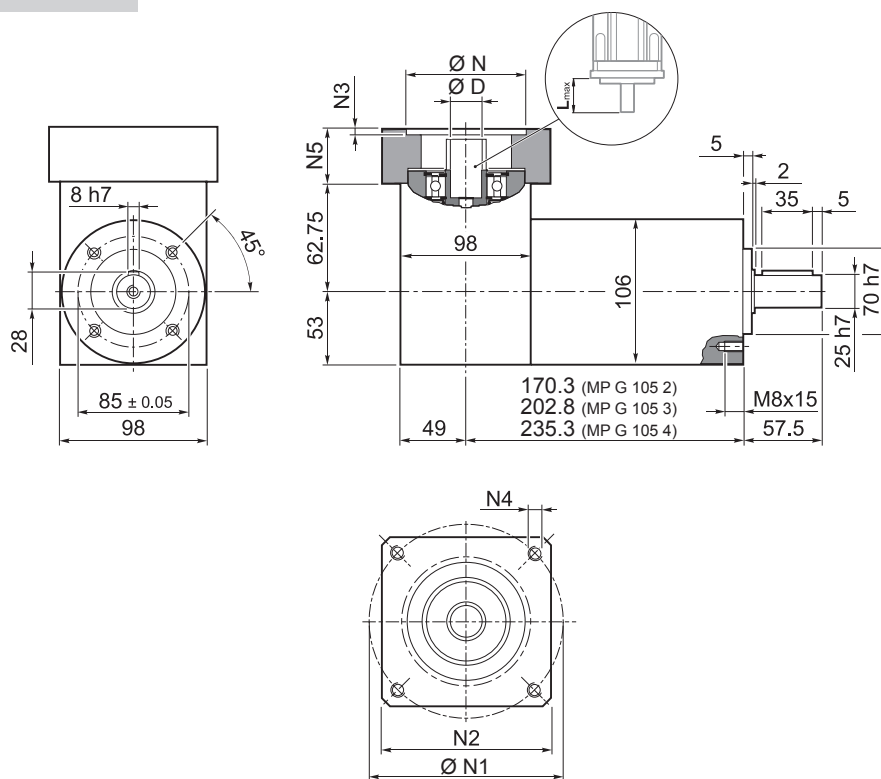
	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	[N]	[N]	[N]	[N]	[N]	%				
																11 ... 12.7	14 ... 19	22 - 24	28 - 32
MP 105 1_3		100	180	360	2500	3500	15'	10'	22.0	600	1500	1600	3800	4000	97	1.70	1.78	2.22	2.59
MP 105 1_4		140	210	450	2800	4500	15'	10'	22.0	600	1500	1600	3800	4000	97	0.99	1.06	1.51	1.87
MP 105 1_5		140	210	450	3000	4500	15'	10'	22.0	600	1500	1600	3800	4000	97	0.72	0.79	1.23	1.60
MP 105 1_6		140	210	450	3000	4500	15'	10'	22.0	600	1500	1600	3800	4000	97	0.36	0.43	0.88	1.24
MP 105 1_7		140	210	450	3500	5000	15'	10'	22.0	600	1500	1600	3800	4000	97	0.47	0.55	0.99	1.35
MP 105 1_10		100	180	360	3500	5000	15'	10'	22.0	600	1500	1600	3800	4000	97	0.33	0.41	0.85	1.21
MP 105 2_9		100	180	360	2500	3500	15'	10'	20.5	600	1500	1600	3800	4000	94	1.58	1.63	2.07	2.44
MP 105 2_12		170	250	600	2500	3500	15'	10'	20.5	600	1500	1600	3800	4000	94	1.52	1.59	2.03	2.40
MP 105 2_15		170	250	600	2500	3500	15'	10'	20.5	600	1500	1600	3800	4000	94	1.47	1.55	1.99	2.36
MP 105 2_16		170	250	600	2800	4500	15'	10'	20.5	600	1500	1600	3800	4000	94	0.87	0.95	1.39	1.76
MP 105 2_20		170	250	600	3000	4500	15'	10'	20.5	600	1500	1600	3800	4000	94	0.86	0.93	1.37	1.74
MP 105 2_25		170	250	600	3000	4500	15'	10'	20.5	600	1500	1600	3800	4000	94	0.63	0.71	1.15	1.51
MP 105 2_28		170	250	600	3500	5000	15'	10'	20.5	600	1500	1600	3800	4000	94	0.43	0.51	0.95	1.32
MP 105 2_30		100	180	360	3500	5000	15'	10'	20.5	600	1500	1600	3800	4000	94	0.32	0.40	0.84	1.20
MP 105 2_35		170	250	600	3500	5000	15'	10'	20.5	600	1500	1600	3800	4000	94	0.43	0.50	0.95	1.31
MP 105 2_36		140	210	450	3000	4500	15'	10'	20.5	600	1500	1600	3800	4000	94	0.32	0.39	0.84	1.20
MP 105 2_40		170	250	600	3500	5000	15'	10'	20.5	600	1500	1600	3800	4000	94	0.31	0.39	0.83	1.20
MP 105 2_50		170	250	600	3500	5000	15'	10'	20.5	600	1500	1600	3800	4000	94	0.31	0.39	0.83	1.19
MP 105 2_70		170	250	600	3500	5000	15'	10'	20.5	600	1500	1600	3800	4000	94	0.31	0.38	0.83	1.19
MP 105 2_100		100	180	360	3500	5000	15'	10'	20.5	600	1500	1600	3800	4000	94	0.31	0.38	0.83	1.19
MP 105 3_48		170	250	600	2800	4500	17'	12'	17.5	600	1500	1600	3800	4000	91	0.91	0.98	1.42	1.79
MP 105 3_64		170	250	600	2800	4500	17'	12'	17.5	600	1500	1600	3800	4000	91	0.87	0.94	1.38	1.75
MP 105 3_75		170	250	600	3000	4500	17'	12'	17.5	600	1500	1600	3800	4000	91	0.66	0.74	1.18	1.55
MP 105 3_80		170	250	600	2800	4500	17'	12'	17.5	600	1500	1600	3800	4000	91	0.86	0.94	1.38	1.75
MP 105 3_84		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.44	0.52	0.96	1.33
MP 105 3_90		100	180	360	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.32	0.39	0.84	1.20
MP 105 3_120		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.32	0.39	0.84	1.20
MP 105 3_125		170	250	600	3000	4500	17'	12'	17.5	600	1500	1600	3800	4000	91	0.63	0.70	1.15	1.51
MP 105 3_140		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.43	0.51	0.95	1.32
MP 105 3_150		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.32	0.39	0.84	1.20
MP 105 3_160		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.39	0.83	1.21
MP 105 3_175		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.43	0.50	0.95	1.31
MP 105 3_200		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.39	0.83	1.20
MP 105 3_210		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.32	0.39	0.84	1.20
MP 105 3_216		170	250	600	3000	4500	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.39	0.83	1.20
MP 105 3_250		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.39	0.83	1.19
MP 105 3_280		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.38	0.83	1.19
MP 105 3_350		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.38	0.83	1.19
MP 105 3_400		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.38	0.83	1.19
MP 105 3_500		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.38	0.83	1.19
MP 105 3_700		170	250	600	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.38	0.83	1.19
MP 105 3_1000		100	180	360	3500	5000	17'	12'	17.5	600	1500	1600	3800	4000	91	0.31	0.38	0.83	1.19

MP

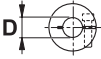


MP G 105

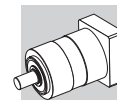
50D ... 130A1



MP

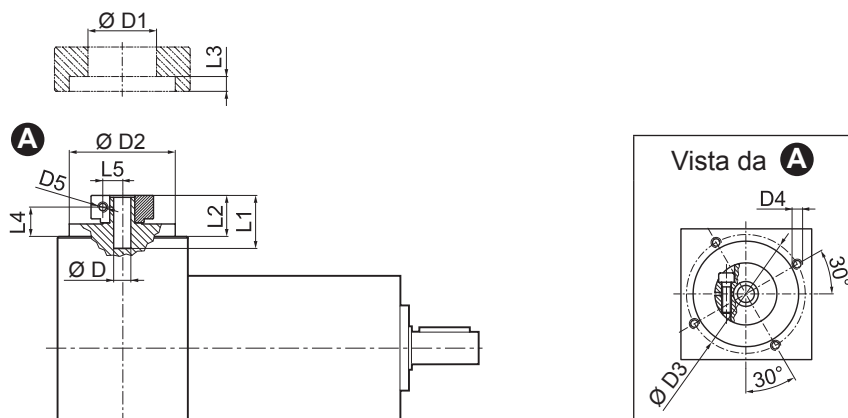
													N	N1	N2	N3	N4	N5	L _{max}
												D							
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75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

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

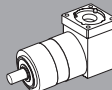


MP G 105

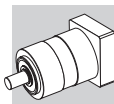
FM



				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

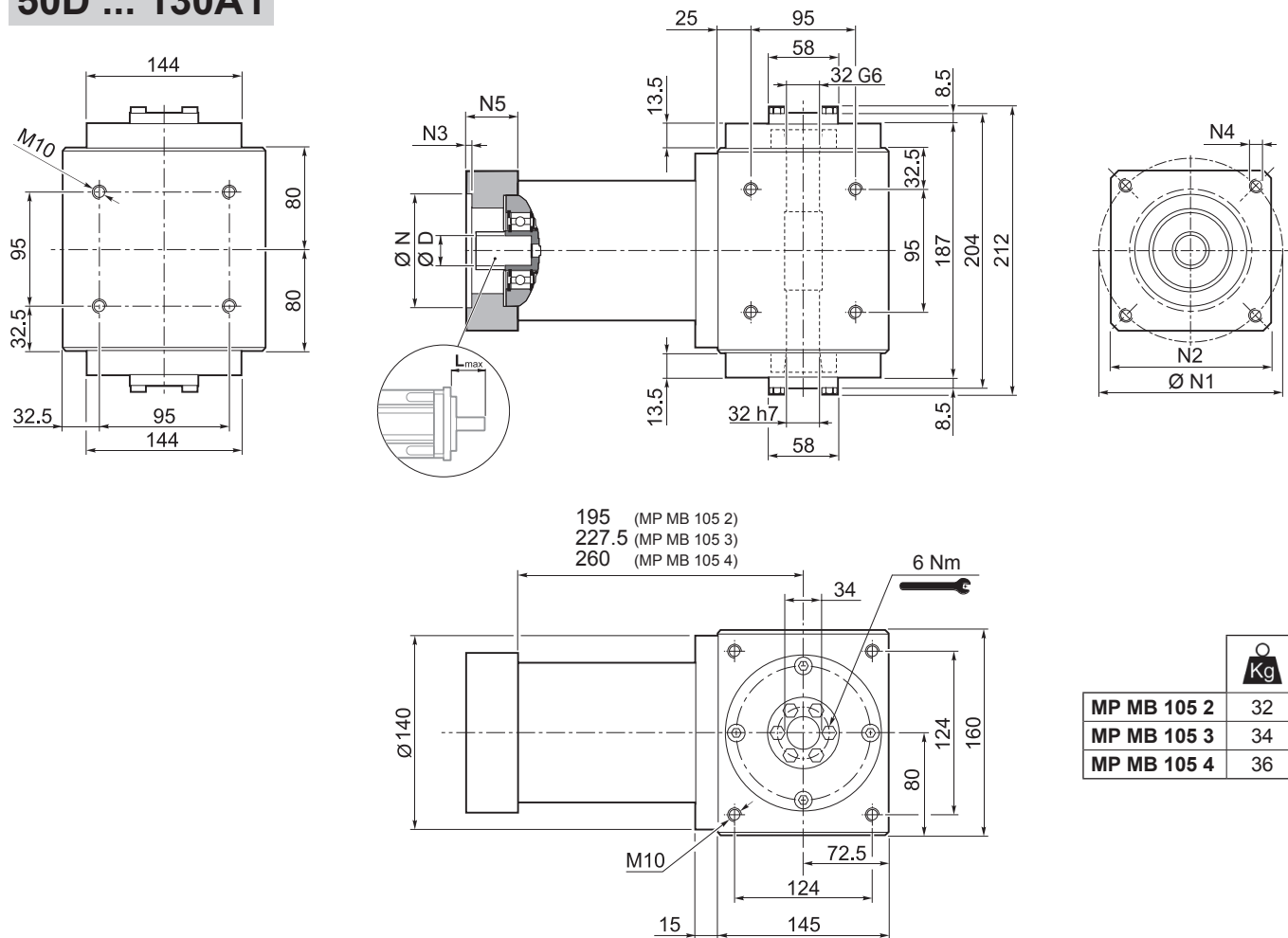
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	SB		HB		η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	%	11 ... 12.7	14 ... 19	22 - 24	28 - 32
MP G 105 2_3		100	180	360	2500	3500	15'	10'	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_216		170	250	600	3000	4500	17'	12'	17.5	1500	1600	3800	4000	89	0.83	0.98	1.11	1.85
MP G 105 4_250		170	250	600	3500	5000	17'	12'	17.5	1500	1600	3800	4000	89	0.92	1.07	1.21	1.93
MP G 105 4_280		170	250	600	3500	5000	17'	12'	17.5	1500	1600	3800	4000	89	0.92	1.06	1.21	1.93
MP G 105 4_350		170	250	600	3500	5000	17'	12'	17.5	1500	1600	3800	4000	89	0.92	1.06	1.21	1.93
MP G 105 4_400		170	250	600	3500	5000	17'	12'	17.5	1500	1600	3800	4000	89	0.92	1.06	1.21	1.93
MP G 105 4_500		170	250	600	3500	5000	17'	12'	17.5	1500	1600	3800	4000	89	0.92	1.06	1.21	1.93
MP G 105 4_700		170	250	600	3500	5000	17'	12'	17.5	1500	1600	3800	4000	89	0.92	1.06	1.21	1.93
MP G 105 4_1000		100	180	360	3500	5000	17'	12'	17.5	1500	1600	3800	4000	89	0.92	1.06	1.21	1.93

MP



MP MB 105

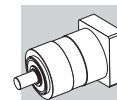
50D ... 130A1



	Kg
MP MB 105 2	32
MP MB 105 3	34
MP MB 105 4	36

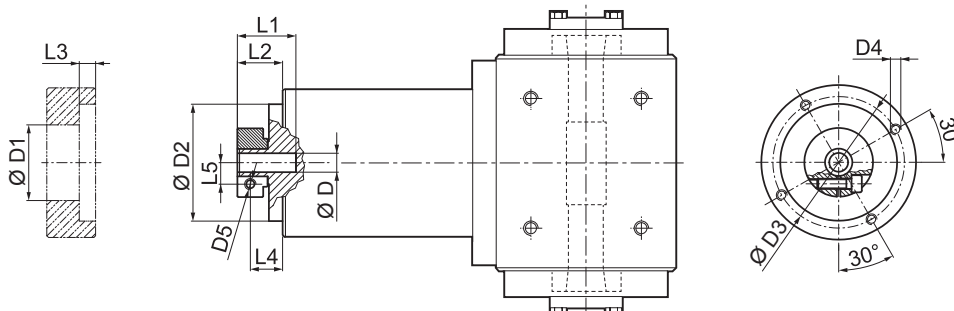
	D											N	N1	N2	N3	N4	N5	Lmax
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	4	6.5	33	40
60B1	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	130	165	140	6.5	M10x25	48	60

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

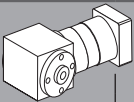


MP MB 105

FM



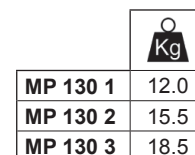
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37	25	7.6	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_216		170	250	600	3000	4500	17'	12'	17.5	89	0.31	0.39	0.83	1.20
MP MB 105 4_250		170	250	600	3500	5000	17'	12'	17.5	89	0.31	0.39	0.83	1.19
MP MB 105 4_280		170	250	600	3500	5000	17'	12'	17.5	89	0.31	0.38	0.83	1.19
MP MB 105 4_350		170	250	600	3500	5000	17'	12'	17.5	89	0.31	0.38	0.83	1.19
MP MB 105 4_400		170	250	600	3500	5000	17'	12'	17.5	89	0.31	0.38	0.83	1.19
MP MB 105 4_500		170	250	600	3500	5000	17'	12'	17.5	89	0.31	0.38	0.83	1.19
MP MB 105 4_700		170	250	600	3500	5000	17'	12'	17.5	89	0.31	0.38	0.83	1.19
MP MB 105 4_1000		100	180	360	3500	5000	17'	12'	17.5	89	0.31	0.38	0.83	1.19

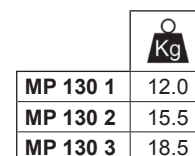
MP



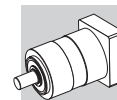
IS



55A1 ... 180A1

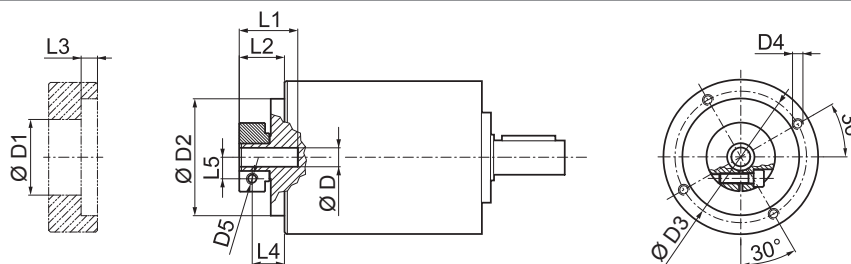


Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

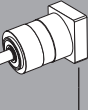


MP 130

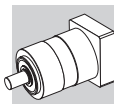
FM



	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

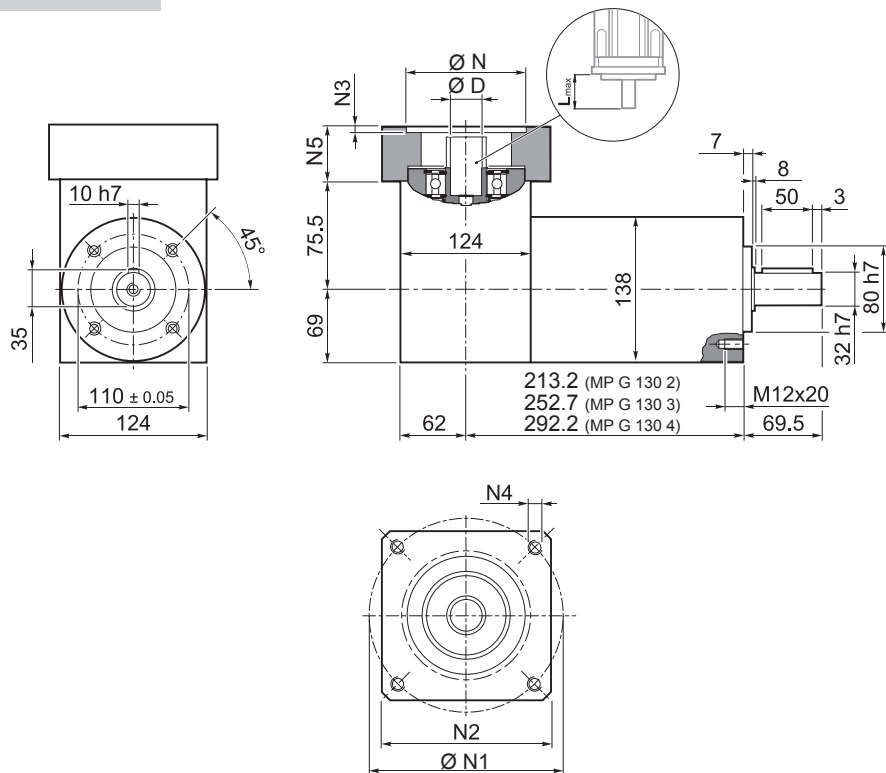
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%	14 ... 19	22 - 24	28 - 32	35 - 38
																	
MP 130 1_3		215	400	800	2100	3000	15'	10'	43.0	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_216		450	700	1300	2900	3500	17'	12'	29.5	800	5500	6500	91	1.05	1.26	1.61	2.96
MP 130 3_250		450	700	1300	3200	4000	17'	12'	29.5	800	5500	6500	91	0.97	1.18	1.53	2.88
MP 130 3_280		450	700	1300	3200	4000	17'	12'	29.5	800	5500	6500	91	0.96	1.17	1.52	2.87
MP 130 3_350		450	700	1300	3200	4000	17'	12'	29.5	800	5500	6500	91	0.96	1.17	1.52	2.87
MP 130 3_400		450	700	1300	3200	4000	17'	12'	29.5	800	5500	6500	91	0.96	1.17	1.52	2.87
MP 130 3_500		450	700	1300	3200	4000	17'	12'	29.5	800	5500	6500	91	0.96	1.17	1.52	2.87
MP 130 3_700		450	700	1300	3200	4000	17'	12'	29.5	800	5500	6500	91	0.96	1.17	1.52	2.87
MP 130 3_1000		215	400	800	3200	4000	17'	12'	29.5	800	5500	6500	91	0.96	1.17	1.52	2.87

MP



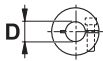
MP G 130

55A1 ... 180A1

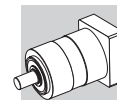


	Kg
MP G 130 2	16.0
MP G 130 3	19.5
MP G 130 4	22.5

MP

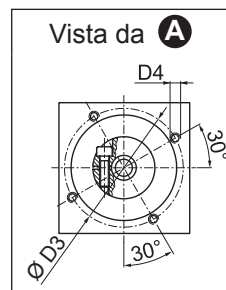
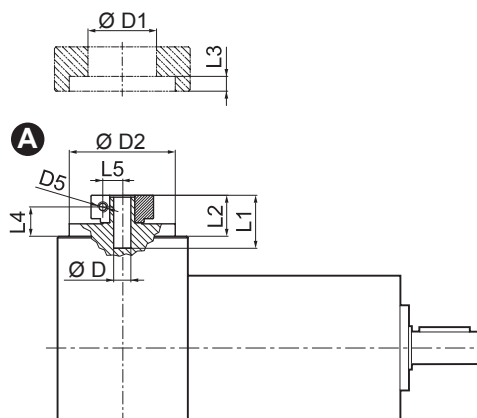
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22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

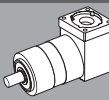


MP G 130

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

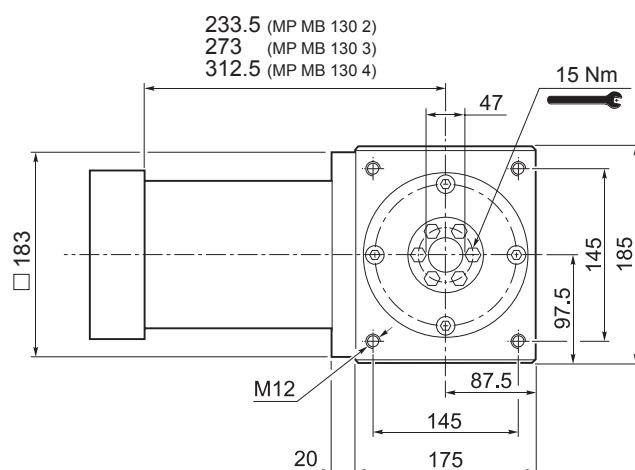
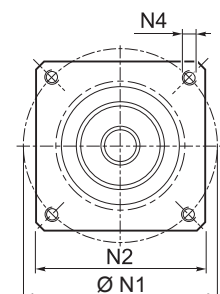
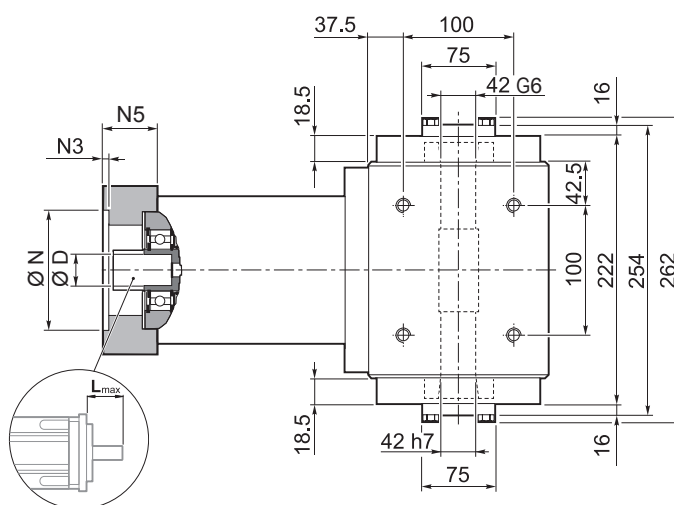
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	%					
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]					14 ... 19	22 - 24	28 - 32	35 - 38	
MP G 130 2_3		215	400	800	2100	3000	15'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

MP



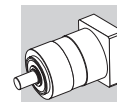
Technical drawing of a square plate with the following dimensions and features:

- Overall width: 172
- Overall height: 172 (92.5 + 92.5)
- Inner square width: 100
- Inner square height: 100
- Distance from top edge to top of inner square: 42.5
- Distance from bottom edge to bottom of inner square: 42.5
- Distance from left edge to left of inner square: 42.5
- Distance from right edge to right of inner square: 42.5
- Four holes are located at the corners of the inner square, with a center-to-center distance of 100 between adjacent holes.
- One hole is labeled *M12*.



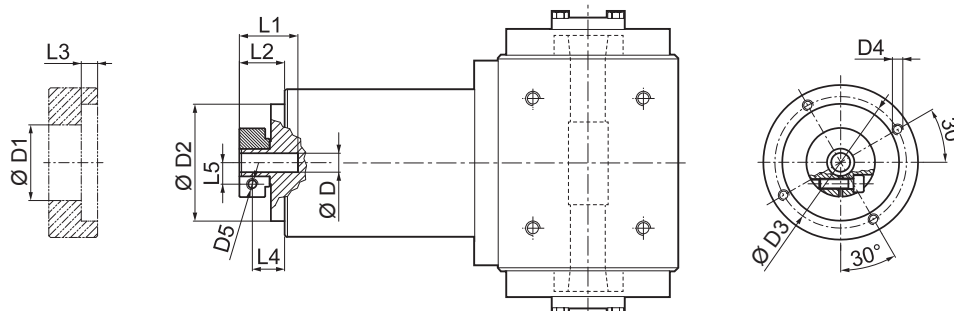
												N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50	
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50	
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	130	4	M8x20	39.5	50	
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	130	4	M8x20	39.5	50	
110B1	14	15.875	16	19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

Ⓜ Bonfiglioli
Tecnoingranaggi

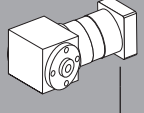


MP MB 130

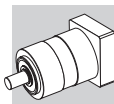
FM



	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

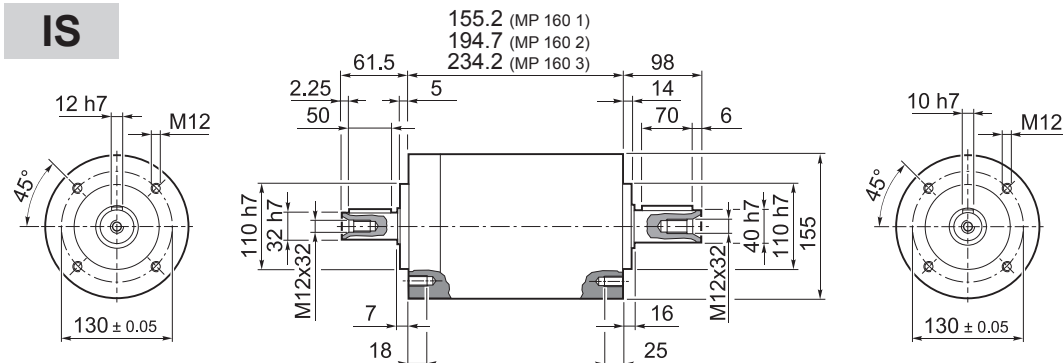
	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	%				
										14 ... 19	22 - 24	28 - 32	35 - 38
MP MB 130 2_3	215	400	800	2100	3000	15'	10'	43.0	94	5.25	5.46	5.81	7.16
MP MB 130 2_4	380	600	1100	2400	3500	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_216	450	700	1300	2900	3500	17'	12'	29.5	89	1.05	1.26	1.61	2.96
MP MB 130 4_250	450	700	1300	3200	4000	17'	12'	29.5	89	0.97	1.18	1.53	2.88
MP MB 130 4_280	450	700	1300	3200	4000	17'	12'	29.5	89	0.96	1.17	1.52	2.87
MP MB 130 4_350	450	700	1300	3200	4000	17'	12'	29.5	89	0.96	1.17	1.52	2.87
MP MB 130 4_400	450	700	1300	3200	4000	17'	12'	29.5	89	0.96	1.17	1.52	2.87
MP MB 130 4_500	450	700	1300	3200	4000	17'	12'	29.5	89	0.96	1.17	1.52	2.87
MP MB 130 4_700	450	700	1300	3200	4000	17'	12'	29.5	89	0.96	1.17	1.52	2.87
MP MB 130 4_1000	215	400	800	3200	4000	17'	12'	29.5	89	0.96	1.17	1.52	2.87

MP



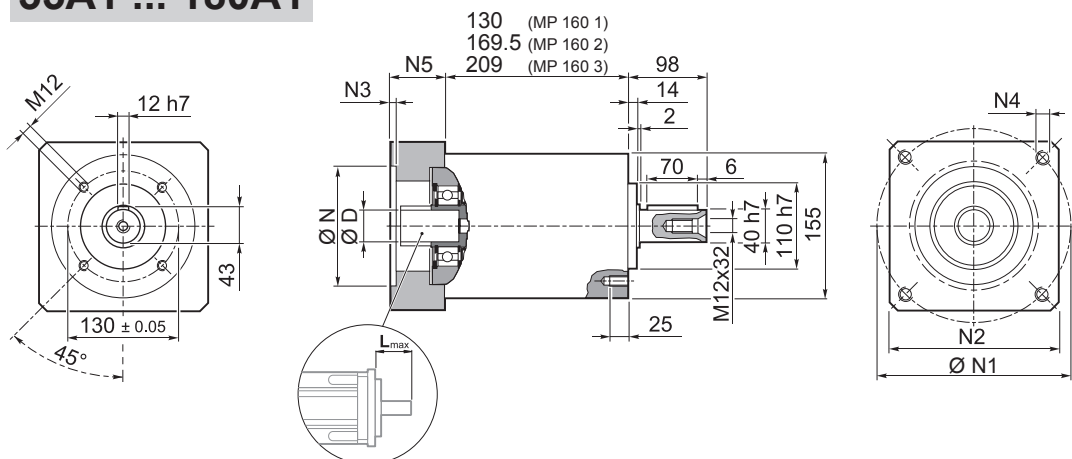
MP 160

IS

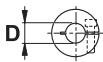


	Kg
MP 160 1	17.0
MP 160 2	21
MP 160 3	28

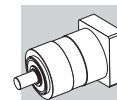
55A1 ... 180A1



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

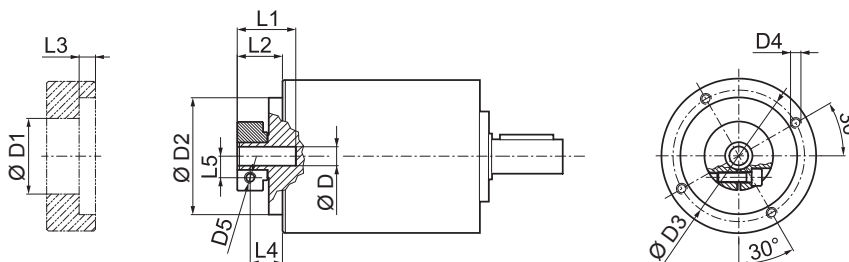
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	15.875	16	19	22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

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

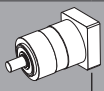


MP 160

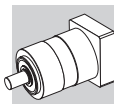
FM



	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

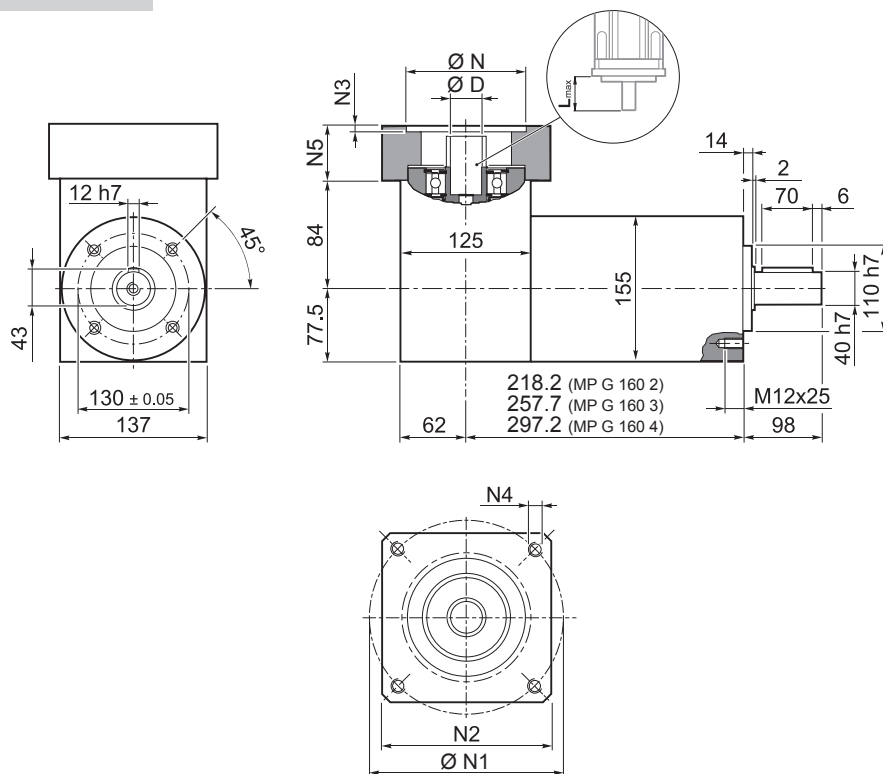
	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%	14 ... 19	22 - 24	28 - 32	35 - 38
MP 160 1_3	350	660	1200	1900	3000	15'	10'	90	1200	6500	7500	97	8.39	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

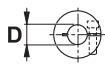


MP G 160

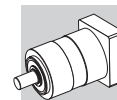
55A1 ... 180A1



MP

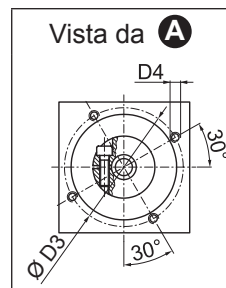
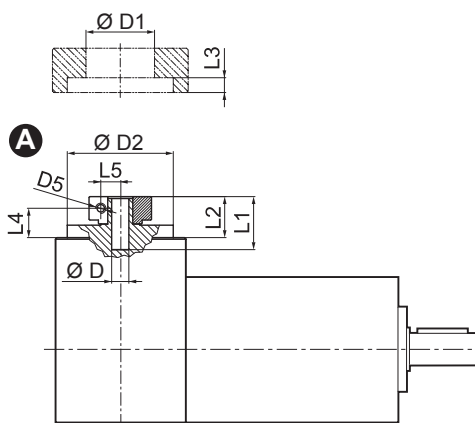
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	140	5	M8x20	39.5	50
110B1	14	15.875	16	19	22	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	6.5	M14x25	49.5	60
180A1	14	15.875	16	19	22	24	28	32	35	38	180	215	190	6.5	M14x25	69.5	80

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

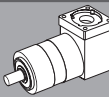


MP G 160

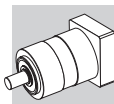
FM



	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

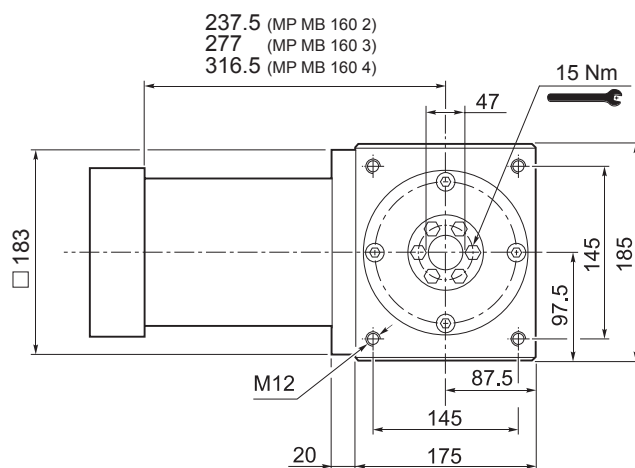
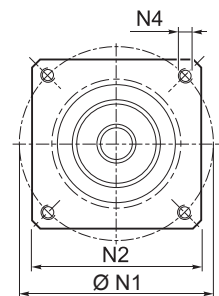
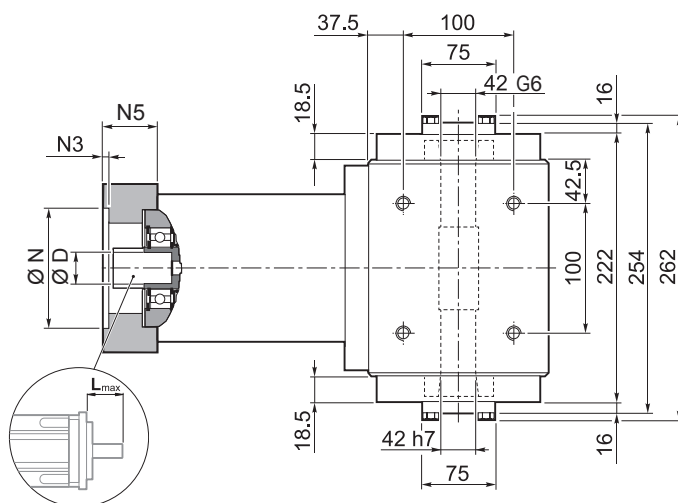
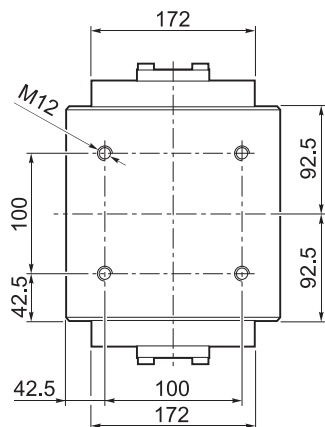
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]			
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%				
		14 ... 19	22 - 24	28 - 32	35 - 38											
MP G 160 2_3		350	660	1200	1900	3000	15'	10'	90	6500	7500	94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

MP



MP MB 160

55A1 ... 180A1

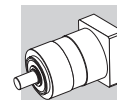


MP MB 160 2	59
MP MB 160 3	63.5
MP MB 160 4	70.5

MP

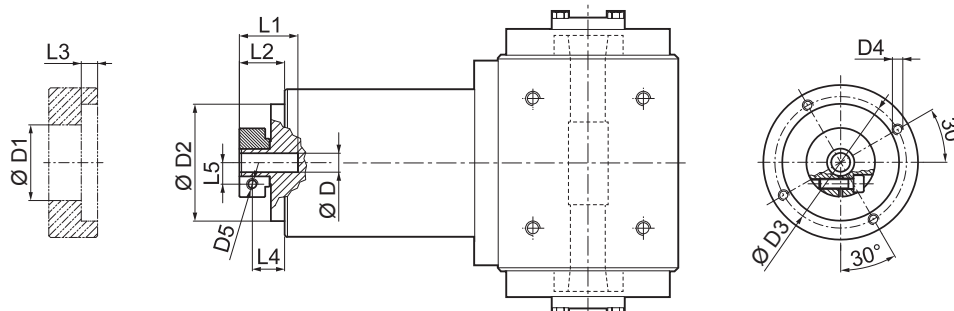
											N	N1	N2	N3	N4	N5	L _{max}
																	
55A1	14	15.875	16	19	—	—	—	—	—	—	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	—	—	—	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	—	—	—	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	—	—	—	110	130	140	5	M8x20	39.5	50
110B1	14	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	6.5	M14x25	49.5	60
180A1	14	15.875	16	19	22	24	28	32	35	38	180	215	190	6.5	M14x25	69.5	80

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

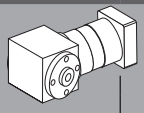


MP MB 160

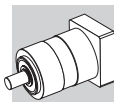
FM



	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

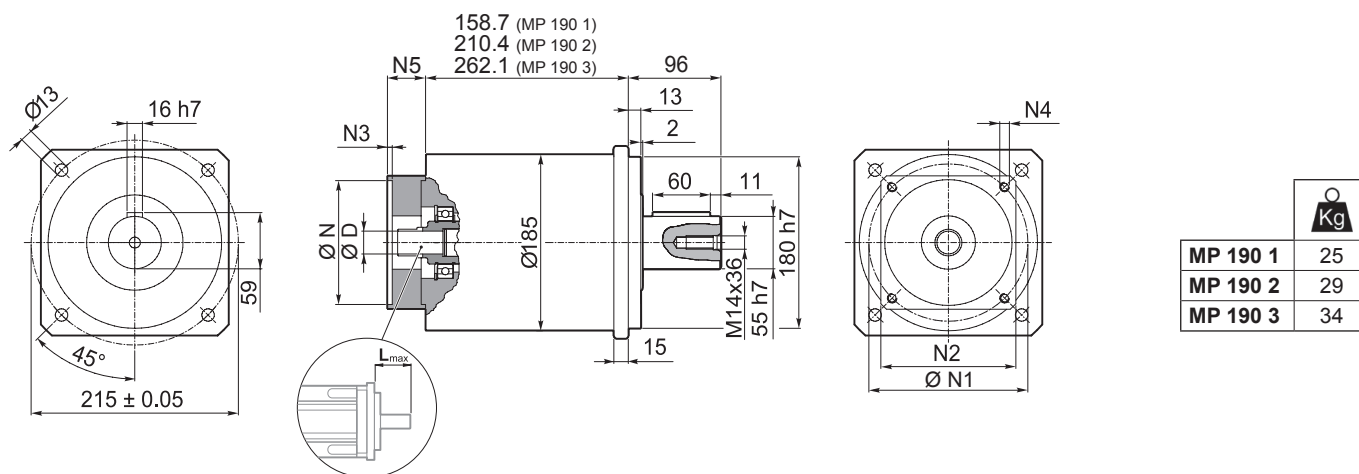
	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_S	φ_R	C_t	η	J_G [kgcm ²]			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		[Nm arcmin]	%				
										14 ... 19	22 - 24	28 - 32	35 - 38
MP MB 160 2_3	350	660	1200	1900	3000	15'	10'	90	94	8.39	8.60	8.95	10.30
MP MB 160 2_4	500	750	1400	2200	3500	15'	10'	90	94	4.68	4.89	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

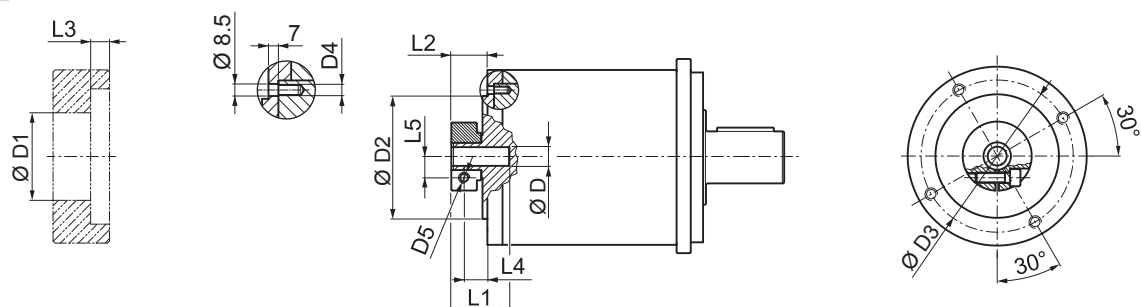
55A1 ... 180A1



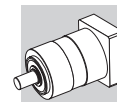
													N	N1	N2	N3	N4	N5	L _{max}
55A1	14	16	19	-	-	-	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	16	19	-	-	-	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	16	19	22	24	-	-	-	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	16	19	22	24	-	-	-	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	16	19	22	24	-	-	-	-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

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

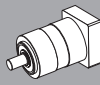
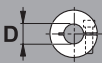
FM



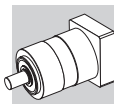
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 16	48	130	142.5	M8x14	M6	45.5	27.5	6	20	14.5
19	51	130	142.5	M8x14	M6	45.5	27.5	6	20	16.5
22 24	56.5	130	142.5	M8x14	M6	47	29	6	20	19
28	67	130	142.5	M8x14	M8	47	29	6	20	22.5
32	71	130	142.5	M8x14	M8	47	29	6	20	24.5
35	73	130	142.5	M8x14	M8	54.5	36.5	6	25	26
38	77.5	130	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

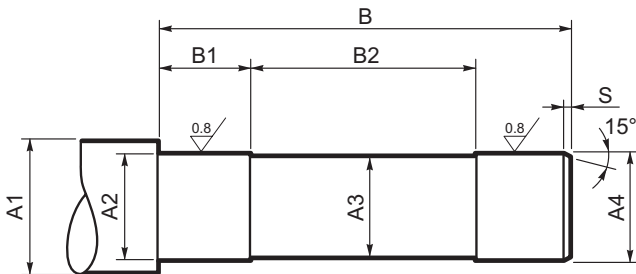
MP



6.3.1 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE

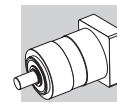
Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Sugeriamo inoltre di completare il montaggio con un dispositivo che garantisca il bloccaggio assiale dell'albero (non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

MB



	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	

MP



LC

RIDUTTORE EPICICLOIDALE COASSIALE DI PRECISIONE

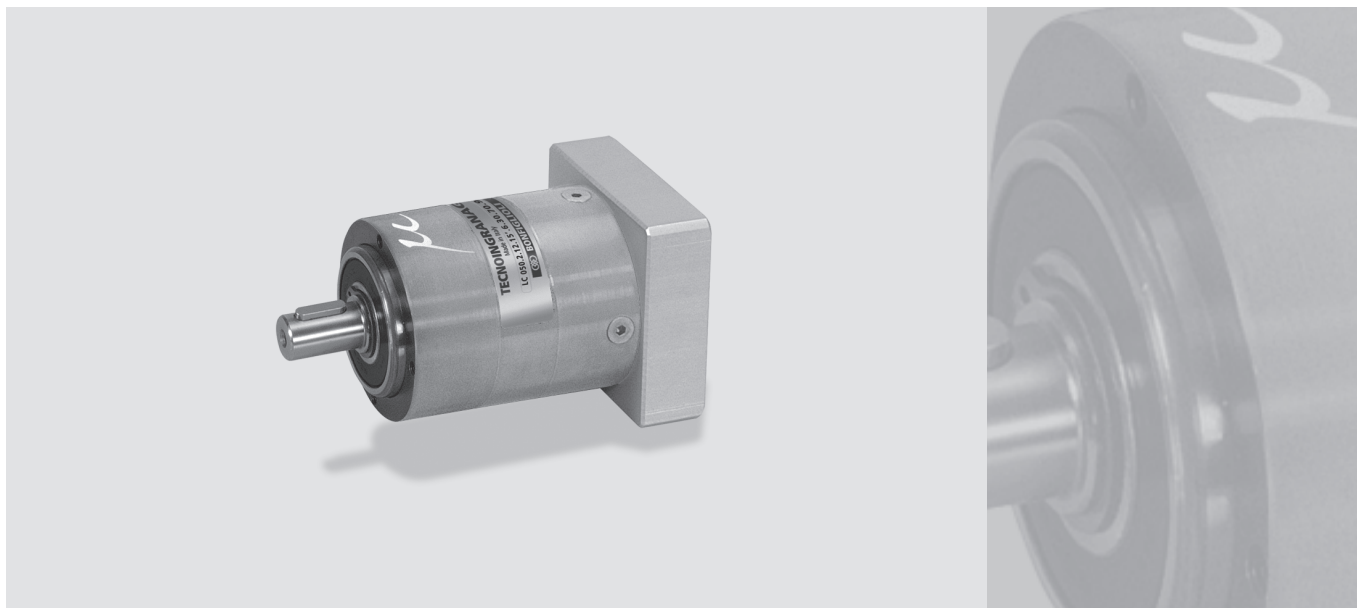
Caratterizzati da prestazioni e affidabilità ottimali, i riduttori epicicloidali di precisione LC rappresentano una soluzione flessibile e un'alternativa economicamente vantaggiosa.

L'aumento delle prestazioni rappresenta la chiave per poter scendere di taglia.

Il potenziamento delle prestazioni dei riduttori epicicloidali di precisione LC (la nuova opzione "P") aprono importanti opportunità in molte applicazioni, dove prima era impossibile assicurare elevate coppie trasmissibili.

Un ulteriore vantaggio consiste nel miglioramento dell'efficienza energetica derivata dalla selezione di un riduttore più compatto e ad alta densità di coppia che riduce di conseguenza significativamente le massi acceleranti.

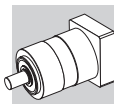
Coppia trasmissibile è stata aumentata fino a 40%.



LC

Caratteristiche di prodotto:

- Disponibile l'opzione alta densità di coppia "P" per aumentare le prestazioni del prodotto
- Coppie nominali e acceleranti ottime
- Ottime capacità di carico radiale e assiale
- Progettato per funzionamenti ciclici e continuativi
- Rigidezza torsionale ottima
- Gioco di precisione ≤ 6 arcmin
- Design universale per ogni posizione di montaggio



7 CARATTERISTICHE DELLA SERIE LC

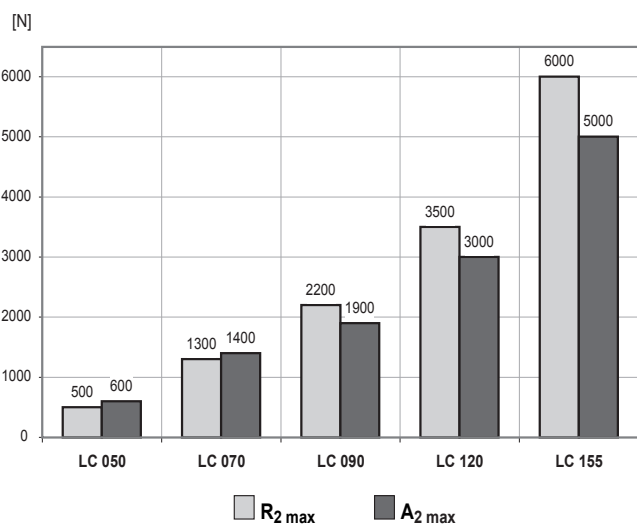
I riduttori epicicloidali a gioco ridotto della serie LC costituiscono una gamma di trasmissioni assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio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

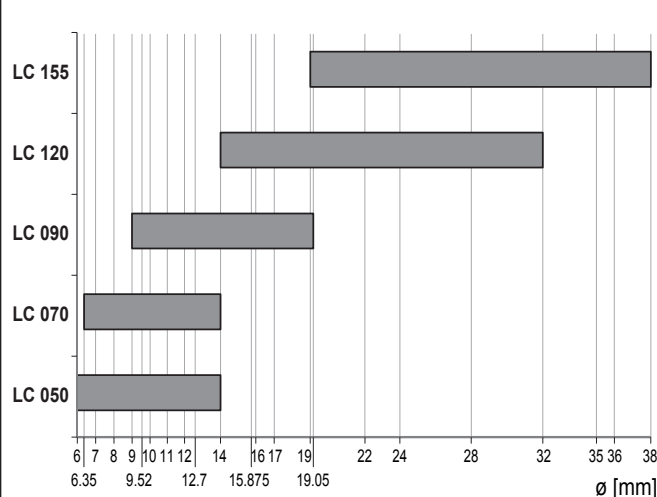
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW)
 - 1 stadio di riduzione: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 6'$
 - 1 stadio di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 8'$
- Ottimo grado di protezione contro la penetrazione di 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.

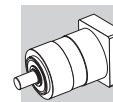
Distribuzione coppia nominale M _{n2} [Nm]																					
[i]	3	4	5	7	9	10	12	15	16	20	25	28	30	35	36	40	45	50	70	81	100
LC 050	10	12	12	12	10	–	12	12	12	12	12	12	–	12	12	–	12	–	–	10	–
LC 070	18	25	25	25	18	18	25	25	25	25	25	25	18	25	–	25	–	25	25	–	18
LC 070P	29	30	25	25	29	18	29	29	30	30	30	30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

Carichi massimi applicabili sull'albero lento

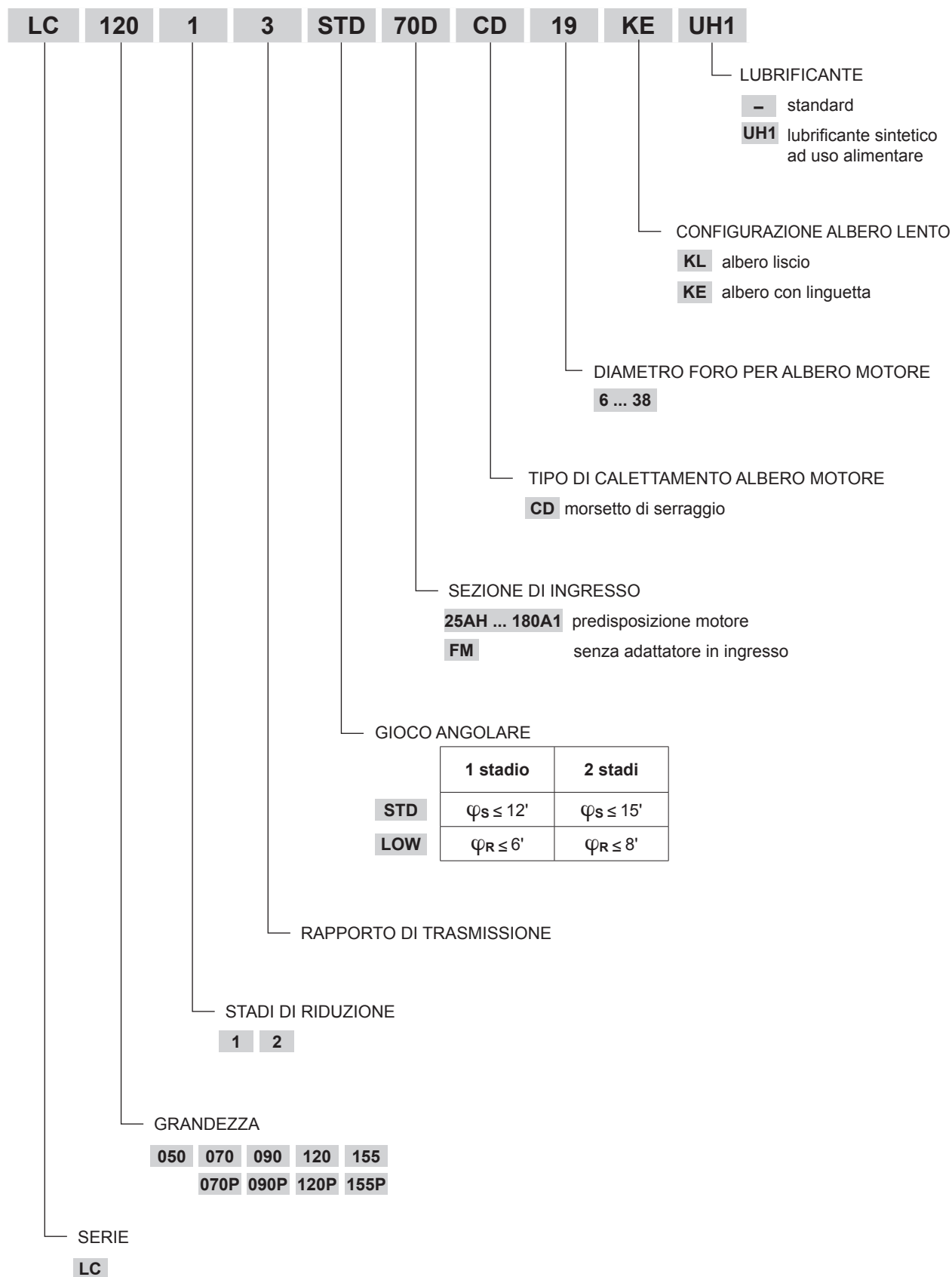


Alberi motore accoppiabili

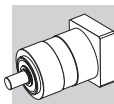




7.1 CODICE ORDINATIVO



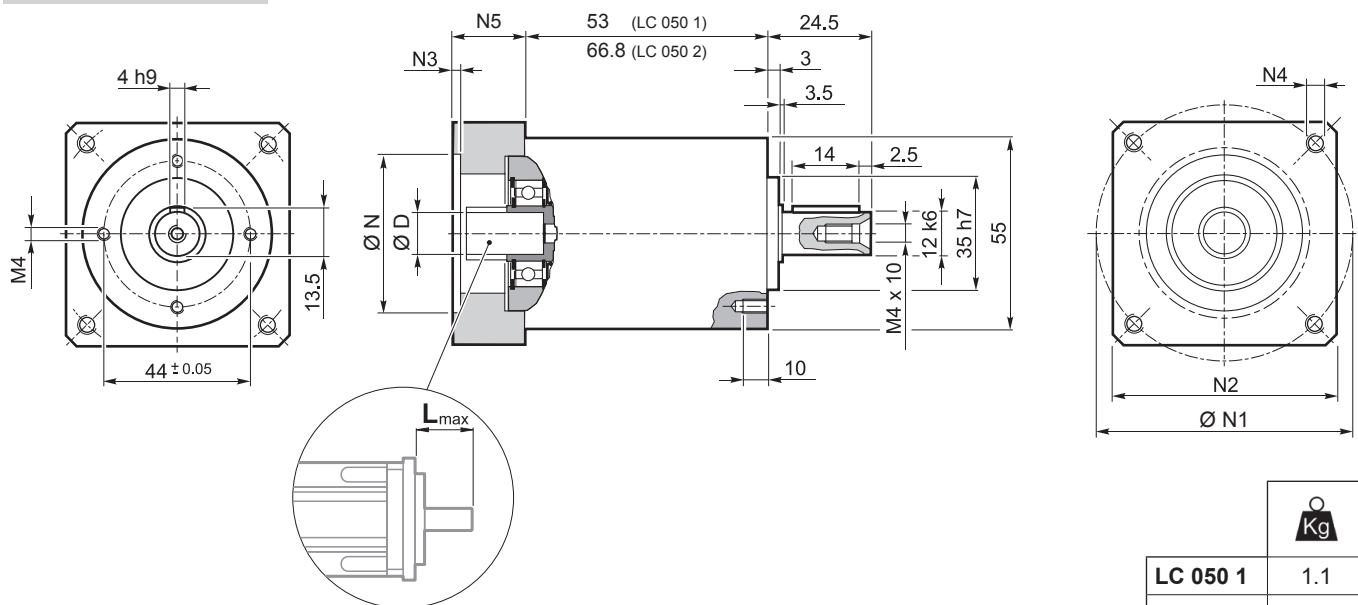
LC



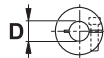
7.2 DIMENSIONI E DATI TECNICI

LC 050

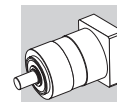
25AH ... 80A



	 Kg
LC 050 1	1.1
LC 050 2	1.3

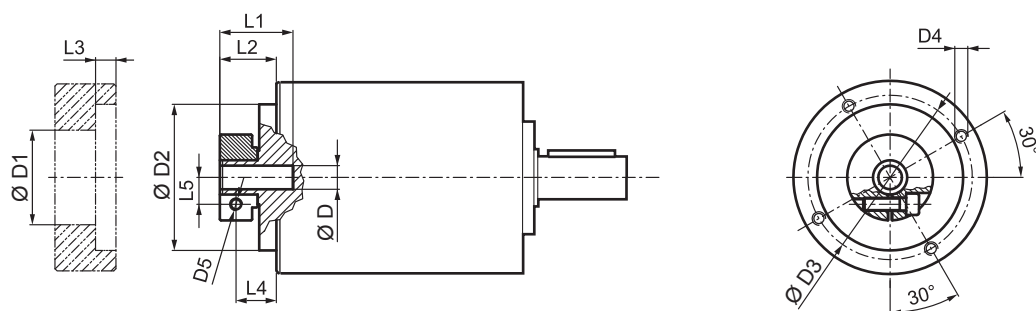
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	–	–	–	–	–	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	–	–	–	–	–	26	36	48					
28AH	6	6.35	7	8	9	9.52	–	–	–	–	–	28	36	48					
30AH	6	6.35	7	8	9	9.52	–	–	–	–	–	30	36	48					
32AH	6	6.35	7	8	9	9.52	–	–	–	–	–	32	38	48					
34AH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

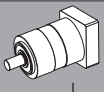


LC 050

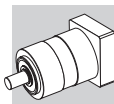
FM



				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

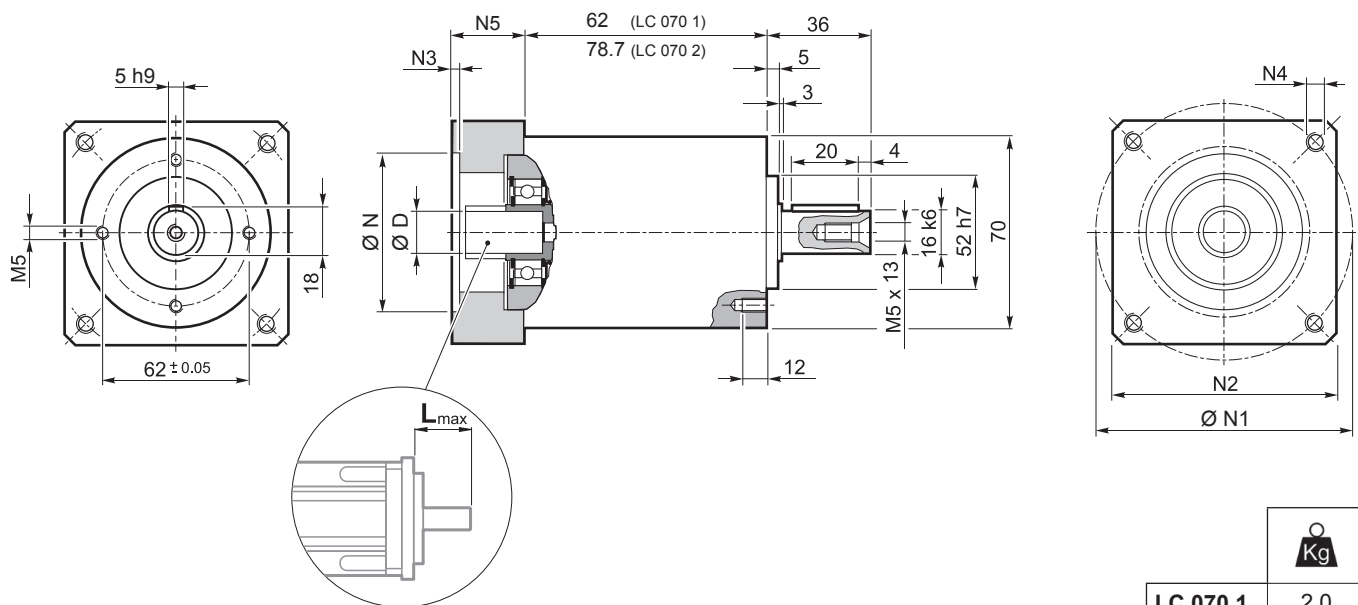
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	 J _G [kgcm ²] D 6 ... 9.52 10 ... 14	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%		
LC 050 1_ 3	10	16	28	3300	4000	12'	6'	0.9	500	600	97	0.07	0.10
LC 050 1_ 4	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



LC 070

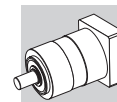
25AH ... 80A



LC 070 1	2.0
LC 070 2	2.3

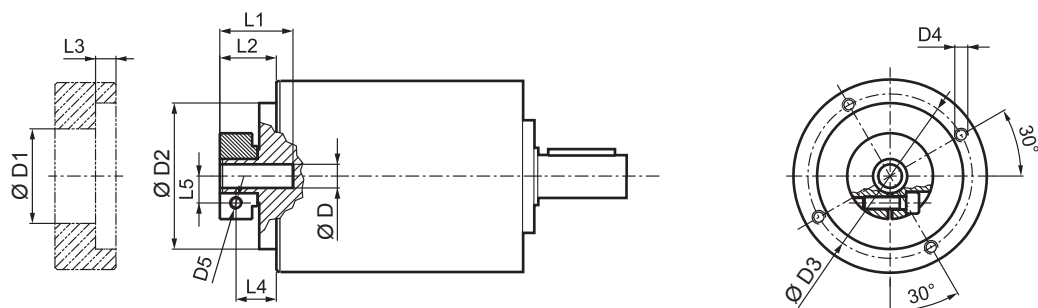
											N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH	6.35	7	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	3	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

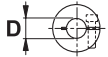
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

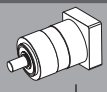


LC 070

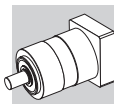
FM



				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

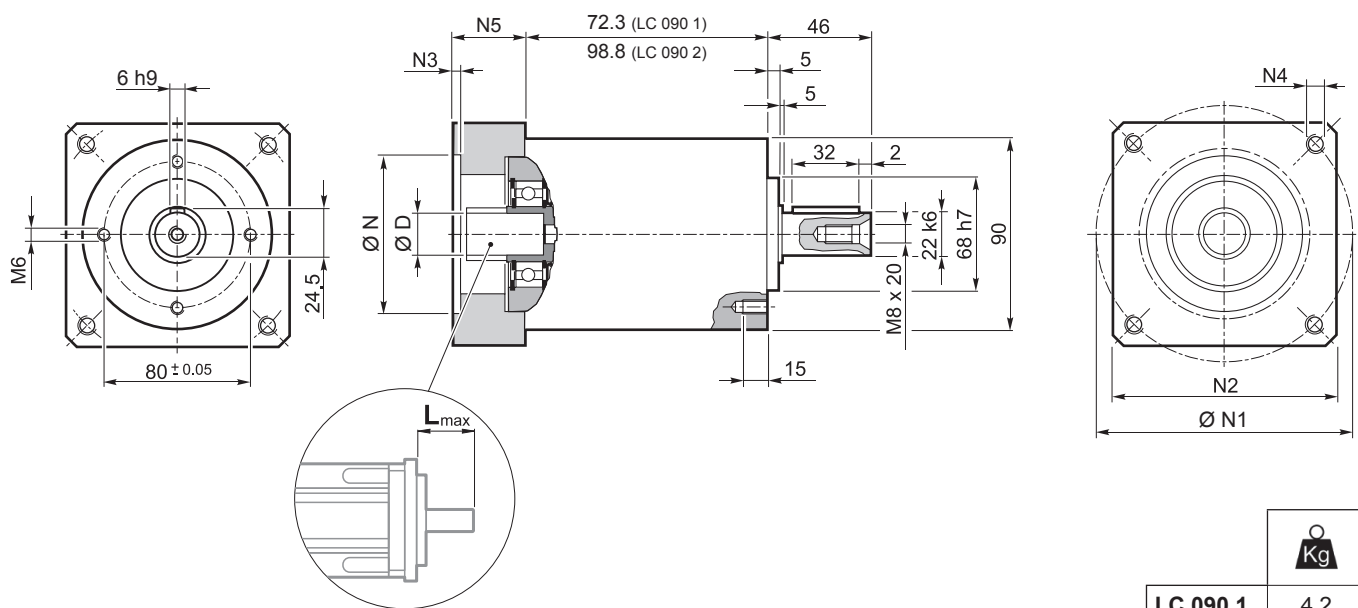
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6.35 ... 9.52	10 ... 14
LC 070 1_3	18	30	60	3300	4000	12'	6'	3	1300	1400	97	0.12	0.14
LC 070 1_4	25	35	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

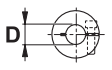


LC 090

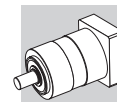
40B1 ... 110B1



	
LC 090 1	4.2
LC 090 2	5.3

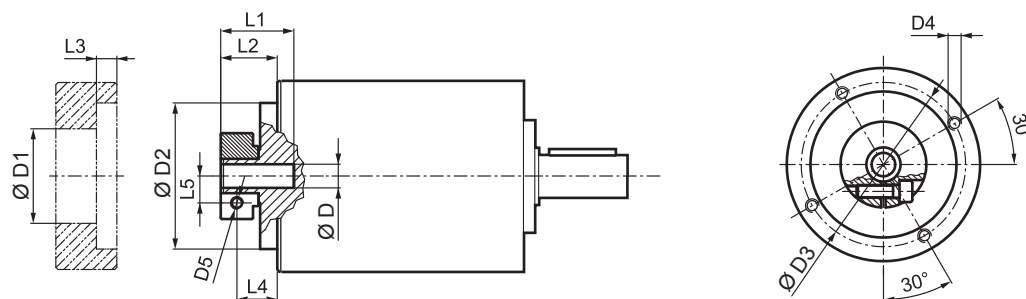
												N	N1	N2	N3	N4	N5	L _{max}
																		
40B1	9	9.52	11	12	12.7	14	-	-	-	-	-	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	-	-	-	-	-	-	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	5.5	34	40
50C1	9	9.52	11	12	12.7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

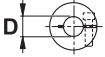
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

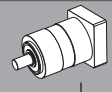


LC 090

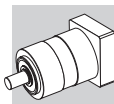
FM



				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	26.8	9.5	18.8	16.5

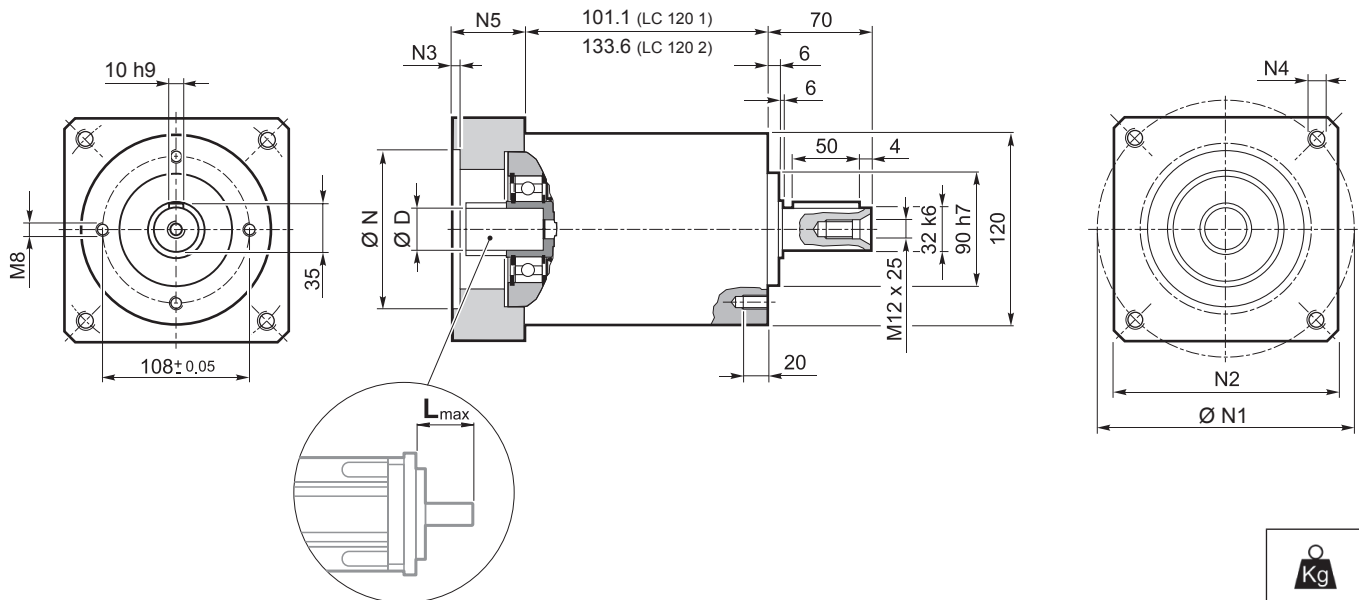
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²] 	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	9 ... 12.7	14 ... 19.05
LC 090 1_3	37	70	150	2900	3500	12'	6'	9	2200	1900	97	0.62	0.77
LC 090 1_4	43	80	160	3100	4500	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

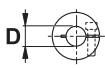


LC 120

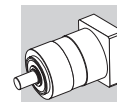
50D ... 130A1



	
LC 120 1	9.6
LC 120 2	12.1

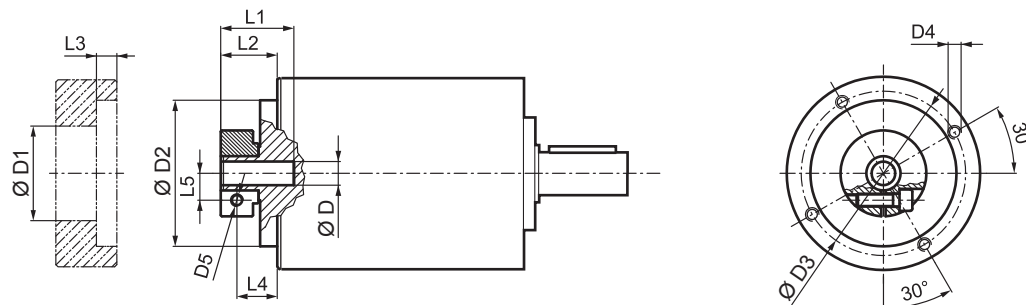
	 									N	N1	N2	N3	N4	N5	L _{max}
50D	14	15	15.875	16	19	—	—	—	—	50	95	100	5	M6x14	28	40
55A	14	15	15.875	16	19	—	—	—	—	55.5	125.7	105	5	M6x16	28	40
60A2	14	15	15.875	16	19	—	—	—	—	60	75	100	5	M5x14	28	40
60AH2	14	15	15.875	16	19	—	—	—	—	60	75	100	5	6.5	33	40
60B1	14	15	15.875	16	19	—	—	—	—	60	85	100	6.5	M5x14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

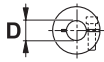
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

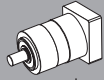
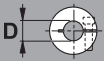


LC 120

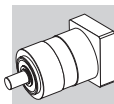
FM



				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

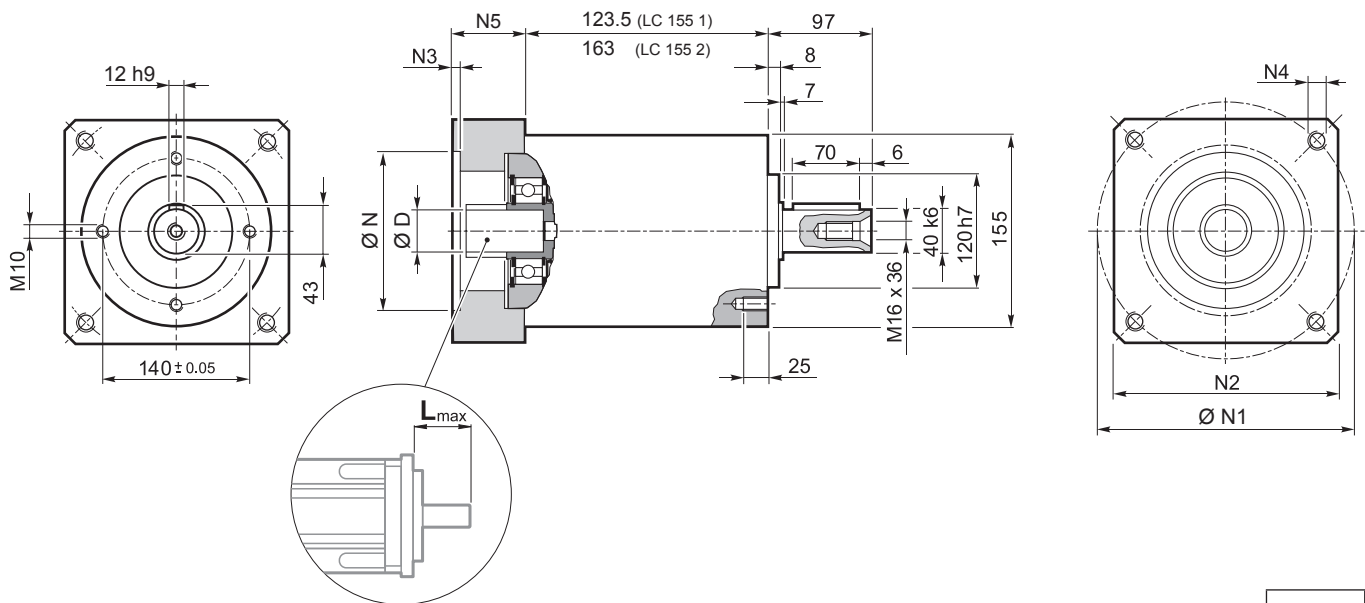
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²] 		
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	14 ... 19	22 ; 24	28 ; 32
LC 120 1_3	95	160	300	2500	3500	12'	6'	25	3500	3000	97	2.17	2.77	3.13
LC 120 1_4	110	190	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

LC



LC 155

55A1 ... 180A1

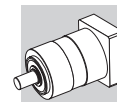


	 Kg
LC 155 1	19.3
LC 155 2	24.3

LC

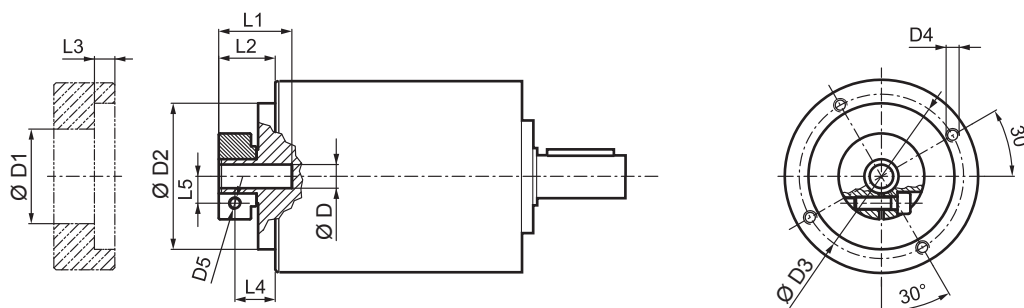
									N	N1	N2	N3	N4	N5	L _{max}
55A1	19	—	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	19	—	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	19	22	24	—	—	—	—	—	95	115	130	4	M8x20	39.5	50
110A1	19	22	24	—	—	—	—	—	110	130	130	4	M8x20	39.5	50
110B1	19	22	24	—	—	—	—	—	110	145	130	6.5	M8x20	49.5	60
114A	19	22	24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

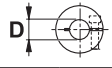
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

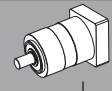


LC 155

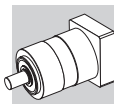
FM



	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

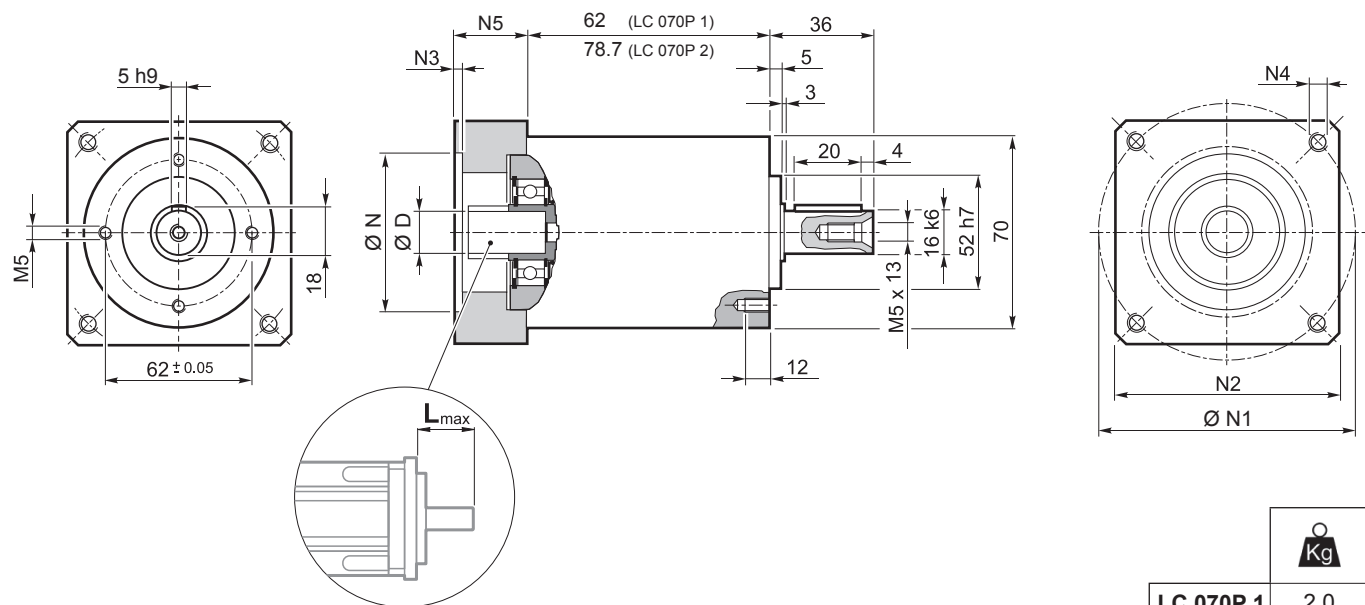
	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]				
	i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%		19	22 ; 24	28 ; 32	35 ; 38
LC 155 1 _ 3		250	380	600	2100	3600	12′	6′	43	6000	5000	97	7.99	8.19	8.54	9.90
LC 155 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



LC 070P

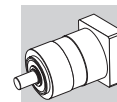
25AH ... 80A



LC 070P 1	2.0
LC 070P 2	2.3

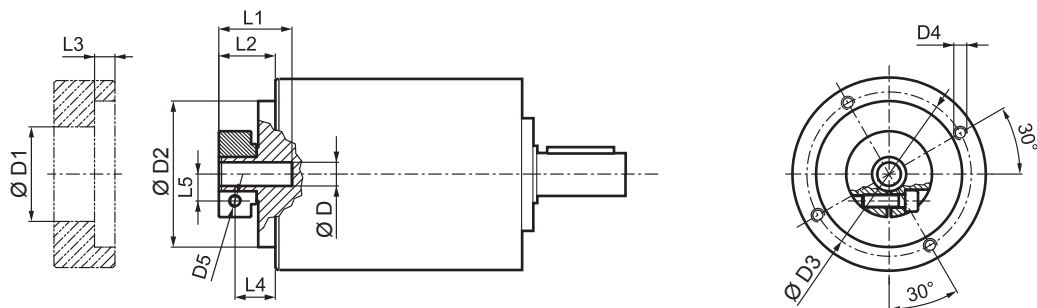
											N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH	6.35	7	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	3	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

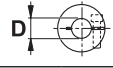
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

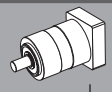
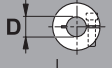


LC 070P

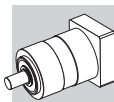
FM



				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

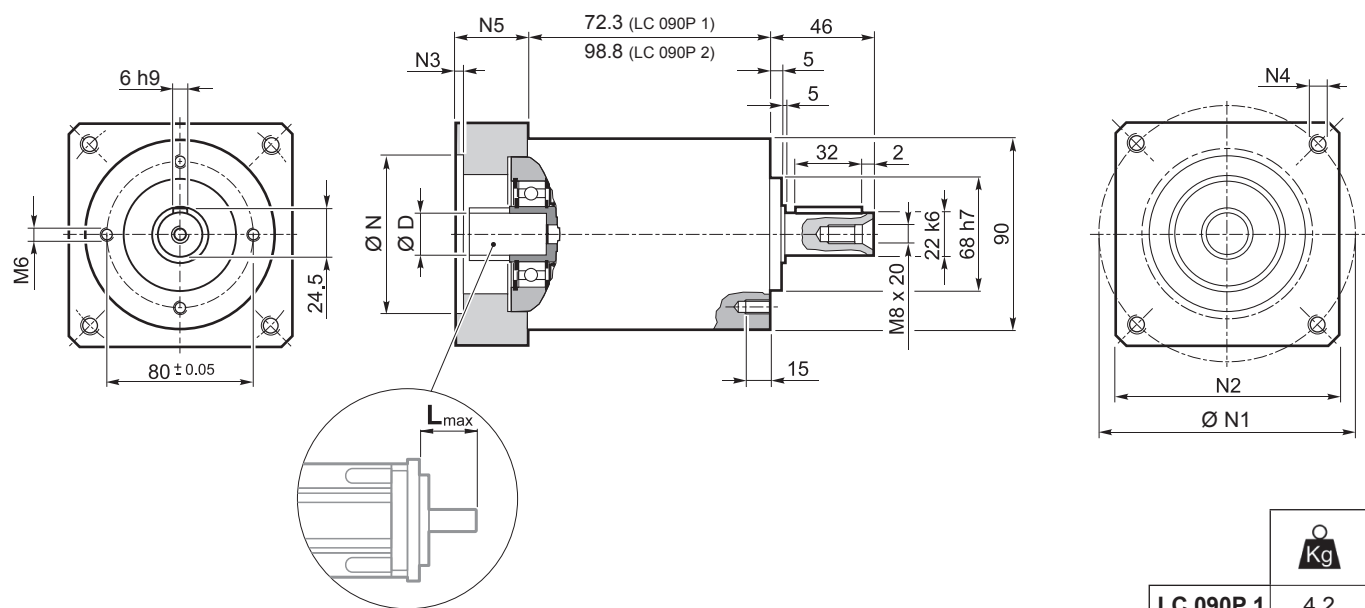
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	 6 ... 9.52	11 ... 14
LC 070P 1_3	29	55	60	3300	4000	12'	6'	3	1300	1400	97	0.12	0.14
LC 070P 1_4	30	45	70	3500	5000	12'	6'	3	1300	1400	97	0.08	0.10
LC 070P 1_5	25	40	70	3500	5000	12'	6'	3	1300	1400	97	0.06	0.09
LC 070P 1_7	25	40	70	4000	5000	12'	6'	3	1300	1400	97	0.05	0.07
LC 070P 1_10	18	30	60	4000	6000	12'	6'	3	3500	1400	97	0.04	0.06
LC 070P 2_9	29	55	60	3300	4000	15'	8'	2.5	1300	1400	94	0.11	0.13
LC 070P 2_12	29	55	70	3300	4000	15'	8'	2.5	1300	1400	94	0.10	0.13
LC 070P 2_15	29	55	70	3300	4000	15'	8'	2.5	1300	1400	94	0.10	0.12
LC 070P 2_16	30	45	70	3500	5000	15'	8'	2.5	1300	1400	94	0.07	0.09
LC 070P 2_20	30	45	70	3500	5000	15'	8'	2.5	1300	1400	94	0.06	0.08
LC 070P 2_25	30	45	70	3500	5000	15'	8'	2.5	1300	1400	94	0.06	0.08
LC 070P 2_28	30	45	70	4000	6000	15'	8'	2.5	1300	1400	94	0.05	0.07
LC 070P 2_30	29	55	60	4000	6000	15'	8'	2.5	1300	1400	94	0.04	0.06
LC 070P 2_35	30	45	70	4000	6000	15'	8'	2.5	1300	1400	94	0.05	0.07
LC 070P 2_40	30	45	70	4000	6000	15'	8'	2.5	1300	1400	94	0.04	0.06
LC 070P 2_50	30	45	70	4000	6000	15'	8'	2.5	1300	1400	94	0.04	0.06
LC 070P 2_70	30	45	70	4000	6000	15'	8'	2.5	1300	1400	94	0.04	0.06
LC 070P 2_100	18	30	60	4000	6000	15'	8'	2.5	1300	1400	94	0.04	0.06

LC

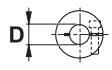


LC 090P

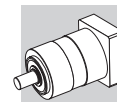
40B1 ... 110B1



	
LC 090P 1	4.2
LC 090P 2	5.3

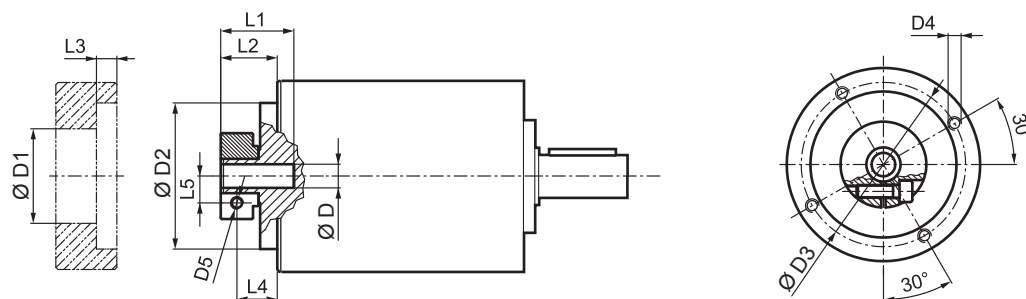
												N	N1	N2	N3	N4	N5	L _{max}
												N	N1	N2	N3	N4	N5	L _{max}
40B1	9	9.52	11	12	12.7	14	—	—	—	—	—	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	—	—	—	—	—	—	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	5.5	34	40
50C1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

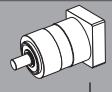


LC 090P

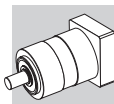
FM



				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

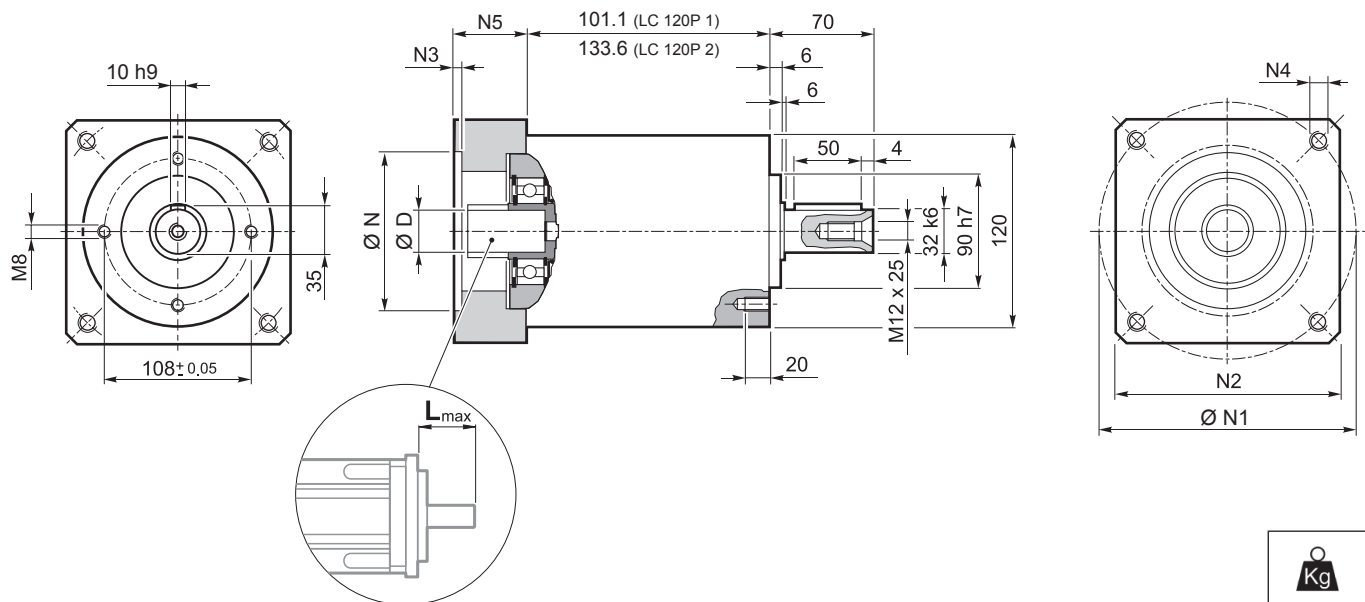
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	 8 ... 12.7	14 ... 19
LC 090P 1_3	65	120	150	3500	4000	12'	6'	12	2200	1900	97	0.62	0.77
LC 090P 1_4	60	110	160	3500	4000	12'	6'	12	2200	1900	97	0.41	0.55
LC 090P 1_5	50	100	160	3200	4500	12'	6'	9	2200	1900	97	0.33	0.47
LC 090P 1_7	50	100	160	4000	6000	12'	6'	9	2200	1900	97	0.26	0.40
LC 090P 1_10	40	70	150	4000	6000	12'	6'	9	2200	1900	97	0.21	0.35
LC 090P 2_9	65	120	150	3500	4000	15'	8'	12	2200	1900	94	0.47	0.61
LC 090P 2_12	65	120	160	3500	4000	15'	8'	12	2200	1900	94	0.44	0.58
LC 090P 2_15	65	120	160	3500	4000	15'	8'	12	2200	1900	94	0.43	0.57
LC 090P 2_16	60	110	160	3500	4500	15'	8'	12	2200	1900	94	0.31	0.45
LC 090P 2_20	60	110	160	3500	4500	15'	8'	12	2200	1900	94	0.26	0.40
LC 090P 2_25	50	100	160	3200	4500	15'	8'	9	2200	1900	94	0.26	0.40
LC 090P 2_28	50	100	160	4000	6000	15'	8'	9	2200	1900	94	0.22	0.36
LC 090P 2_30	65	120	150	4000	6000	15'	8'	12	2200	1900	94	0.20	0.34
LC 090P 2_35	50	100	160	4000	6000	15'	8'	9	2200	1900	94	0.22	0.36
LC 090P 2_40	60	110	160	4000	6000	15'	8'	12	2200	1900	94	0.20	0.34
LC 090P 2_50	50	100	160	4000	6000	15'	8'	9	2200	1900	94	0.20	0.34
LC 090P 2_70	50	100	160	4000	6000	15'	8'	9	2200	1900	94	0.20	0.34
LC 090P 2_100	40	70	150	4000	6000	15'	8'	9	2200	1900	94	0.19	0.34

LC



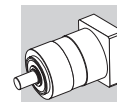
LC 120P

50D ... 130A1



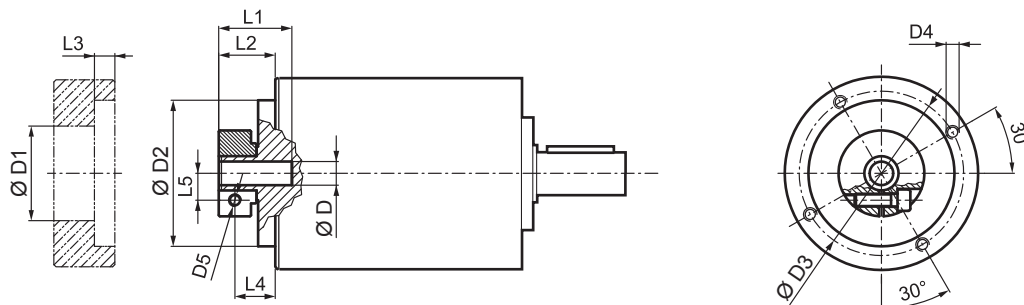
										N	N1	N2	N3	N4	N5	L _{max}
50D	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	14	15	15.875	16	19	-	-	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	M5x14	28	40
60AH2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	6.5	33	40
60B1	14	15	15.875	16	19	-	-	-	-	60	85	100	6.5	M5x14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

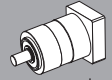


LC 120P

FM



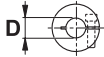
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15	15.875	16	48	90	98	M6x15	M6	33.5	20	7.6	12.5	14.5
19				51	90	98	M6x15	M6	33.5	20	7.6	12.5	16.5
22	24			56.5	90	98	M6x15	M6	36.5	23	7.6	14	19
28				67	90	98	M6x15	M8	36.5	23	7.6	14	22.5
32				71	90	98	M6x15	M8	38	24.5	7.6	15.5	24.5

 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	160	300	3500	5000	12'	6'	25	3500	3000	97	0.49	1.09	1.45
LC 120P 2_9	155	280	300	3000	4000	15'	8'	30	3500	3000	94	1.61	2.20	2.57
LC 120P 2_12	155	300	360	3000	4000	15'	8'	30	3500	3000	94	1.51	2.10	2.47
LC 120P 2_15	155	300	360	3000	4000	15'	8'	30	3500	3000	94	1.47	2.06	2.43
LC 120P 2_16	155	300	360	3000	4500	15'	8'	30	3500	3000	94	0.92	1.52	1.88
LC 120P 2_20	155	300	360	3000	4500	15'	8'	30	3500	3000	94	0.90	1.50	1.86
LC 120P 2_25	125	240	360	3000	4500	15'	8'	22.5	3500	3000	94	0.71	1.30	1.67
LC 120P 2_28	125	240	360	3500	5000	15'	8'	22.5	3500	3000	94	0.54	1.13	1.50
LC 120P 2_30	155	300	300	3500	5000	15'	8'	30	3500	3000	94	0.44	1.04	1.40
LC 120P 2_35	125	240	360	3500	5000	15'	8'	22.5	3500	3000	94	0.53	1.13	1.49
LC 120P 2_40	155	300	360	3500	5000	15'	8'	30	3500	3000	94	0.43	1.03	1.39
LC 120P 2_50	125	240	360	3500	5000	15'	8'	22.5	3500	3000	94	0.43	1.02	1.39
LC 120P 2_70	125	240	360	3500	5000	15'	8'	22.5	3500	3000	94	0.42	1.02	1.38
LC 120P 2_100	100	160	300	3500	5000	15'	8'	22.5	3500	3000	94	0.42	1.02	1.38

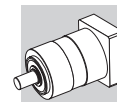
LC



	
LC 155P 1	19.3
LC 155P 2	24.3

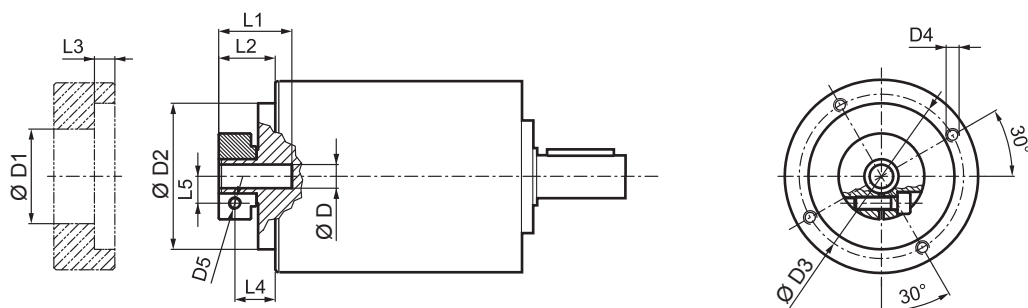
								N	N1	N2	N3	N4	N5	L _{max}
55A1	19	—	—	—	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	19	—	—	—	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	19	22	24	—	—	—	—	95	115	130	4	M8x20	39.5	50
110A1	19	22	24	—	—	—	—	110	130	130	4	M8x20	39.5	50
110B1	19	22	24	—	—	—	—	110	145	130	6.5	M8x20	49.5	60
114A	19	22	24	28	32	35	38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

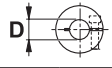
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

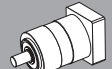
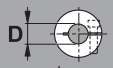


LC 155P

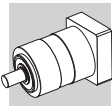
FM



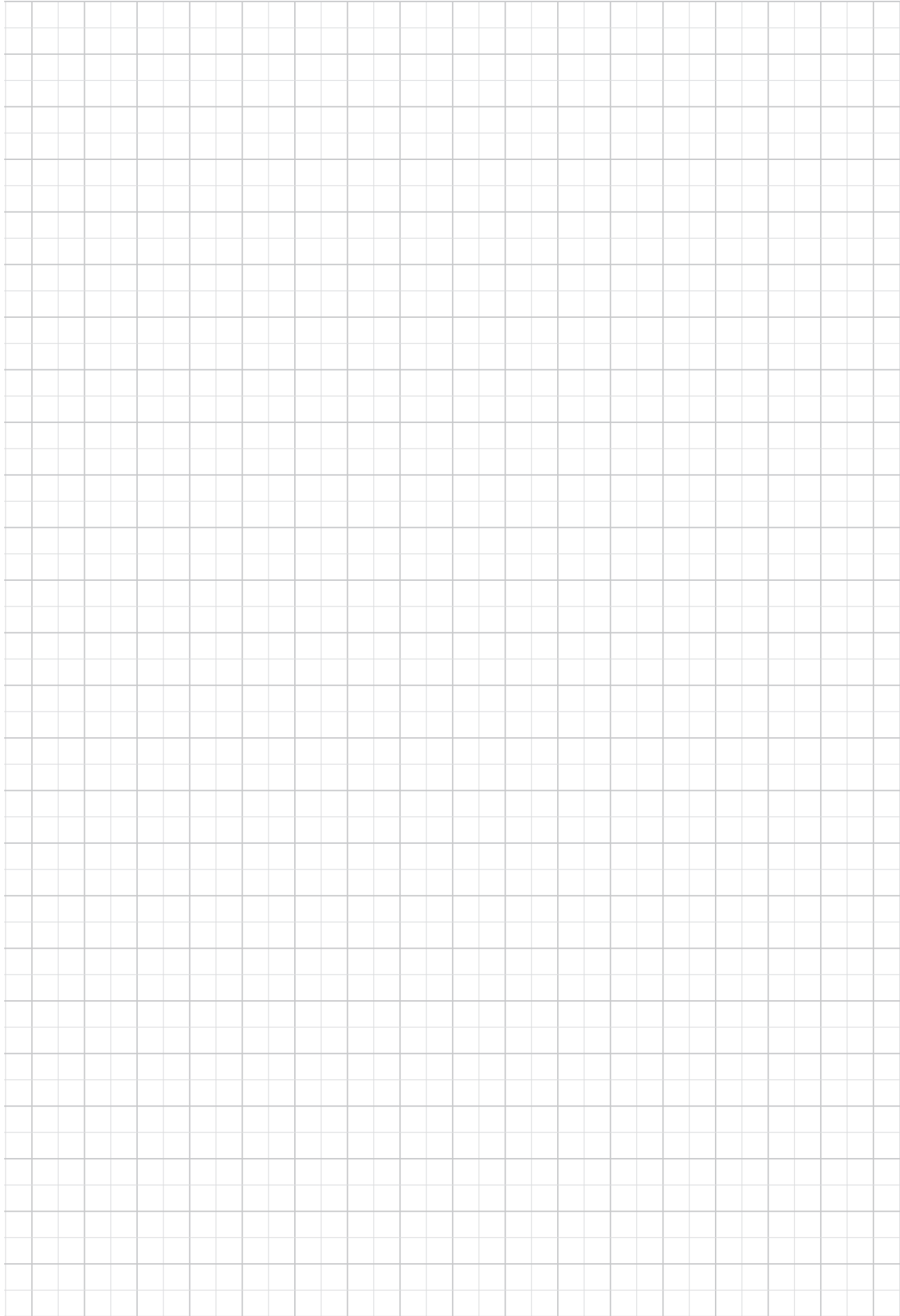
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	18.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25	26	26
38	77.5	113	125.5	M8x15	M8	50	37.5	11.25	26	28

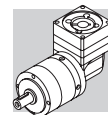
	M_n 2	M_a 2	M_p 2	n_1	n_1 max	φ_s	φ_R	C_t	R_2 max	A_2 max	η	J_G [kgcm ²] 			
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	19	22 ; 24	28 ; 32	35 ; 38
LC 155P 1_3	250	380	600	2100	3600	12'	6'	50	6000	5000	97	7.99	8.19	8.54	9.90
LC 155P 1_4	350	500	1000	2400	3600	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

LC



LC





LCK

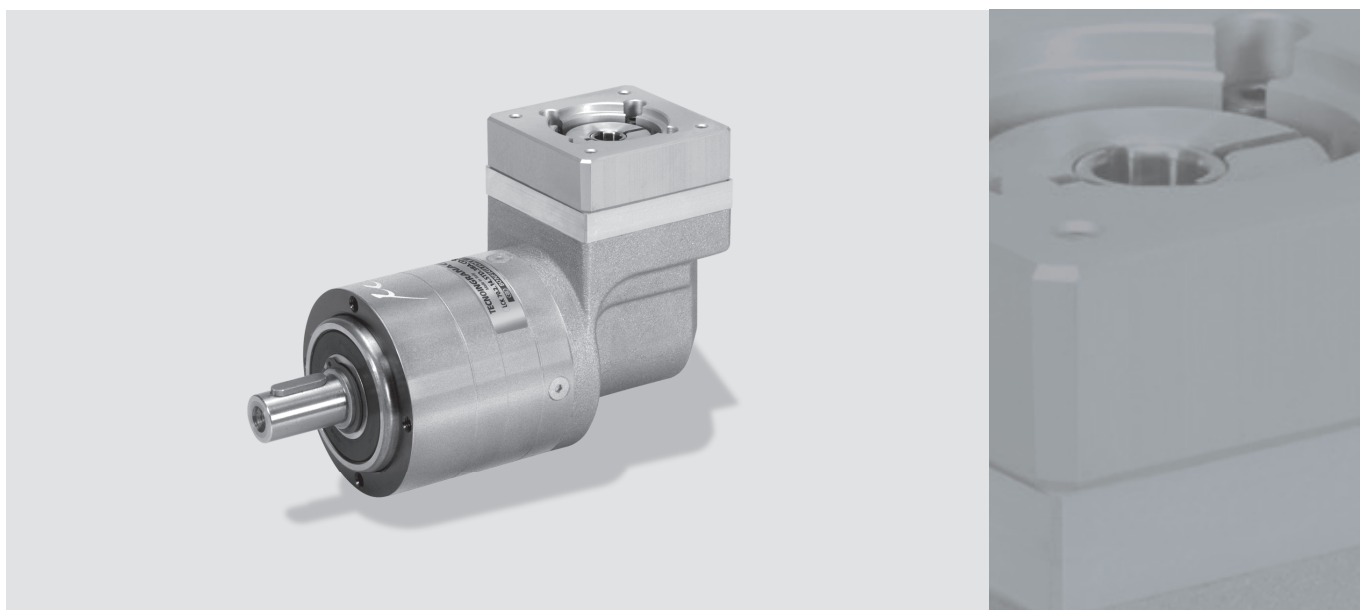
RIDUTTORE EPICICLOIDALE ORTOGONALE DI PRECISIONE

La serie LCK ripropone, nella configurazione ortogonale, le eccellenti caratteristiche tipiche della serie di prodotti coassiali LC. La configurazione ortogonale è la soluzione ideale ai problemi di spazio, spesso richiesti da macchine sempre più compatte. Caratterizzata da prestazioni e affidabilità ottimali, questa serie rappresenta una soluzione flessibile e un'alternativa economicamente vantaggiosa.

L'aumento delle prestazioni rappresenta la chiave per poter scendere di taglia.

Il potenziamento delle prestazioni dei riduttori epicicloidali di precisione LCK (la nuova opzione "P") aprono importanti opportunità in molte applicazioni, dove prima era impossibile assicurare elevate coppie trasmissibili. Un ulteriore vantaggio consiste nel miglioramento dell'efficienza energetica derivata dalla selezione di un riduttore più compatto e ad alta densità di coppia che riduce di conseguenza significativamente le massi acceleranti.

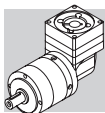
Coppia trasmissibile è stata aumentata fino a 40%.



LCK

Caratteristiche di prodotto:

- Disponibile l'opzione alta densità di coppia "P" per aumentare le prestazioni del prodotto
- Coppie nominali e acceleranti ottime
- Ottime capacità di carico radiale e assiale
- Progettato per funzionamenti ciclici e continuativi
- Rigidezza torsionale ottima
- Gioco di precisione ≤ 6 arcmin
- Design universale per ogni posizione di montaggio



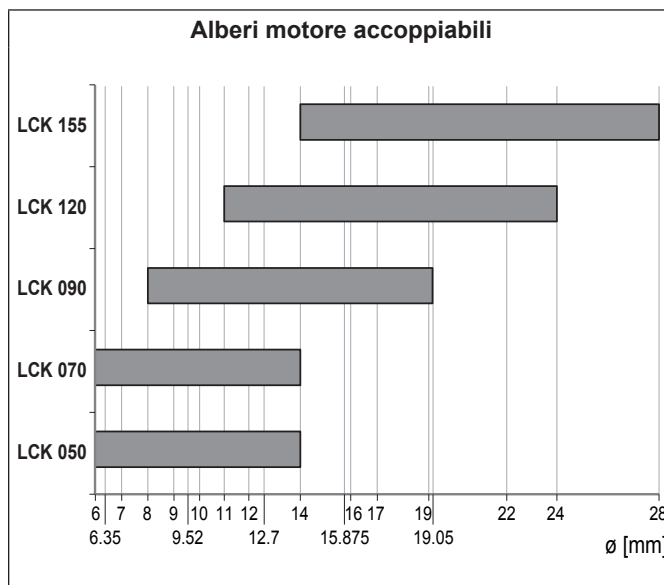
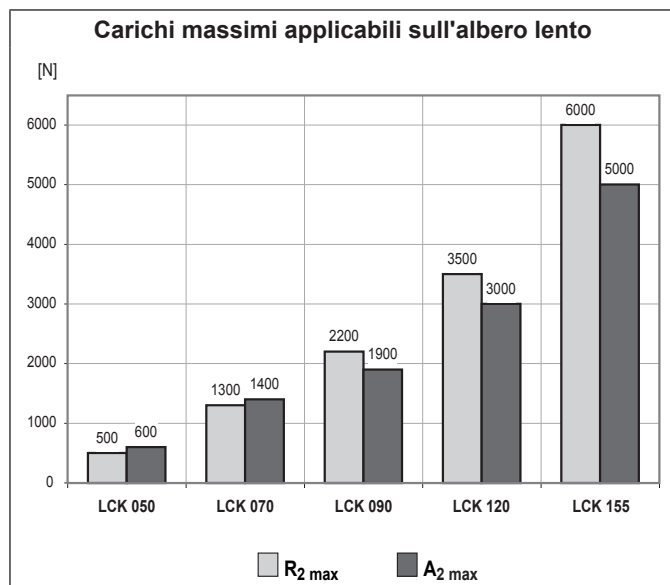
8 CARATTERISTICHE DELLA SERIE LCK

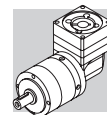
I riduttori della serie LCK trasferiscono nella configurazione angolare le brillanti caratteristiche funzionali che sono proprie della serie coassiale LC, ed a questa aggiungono doti di più facile alloggiamento in spazi ristretti.

- 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.

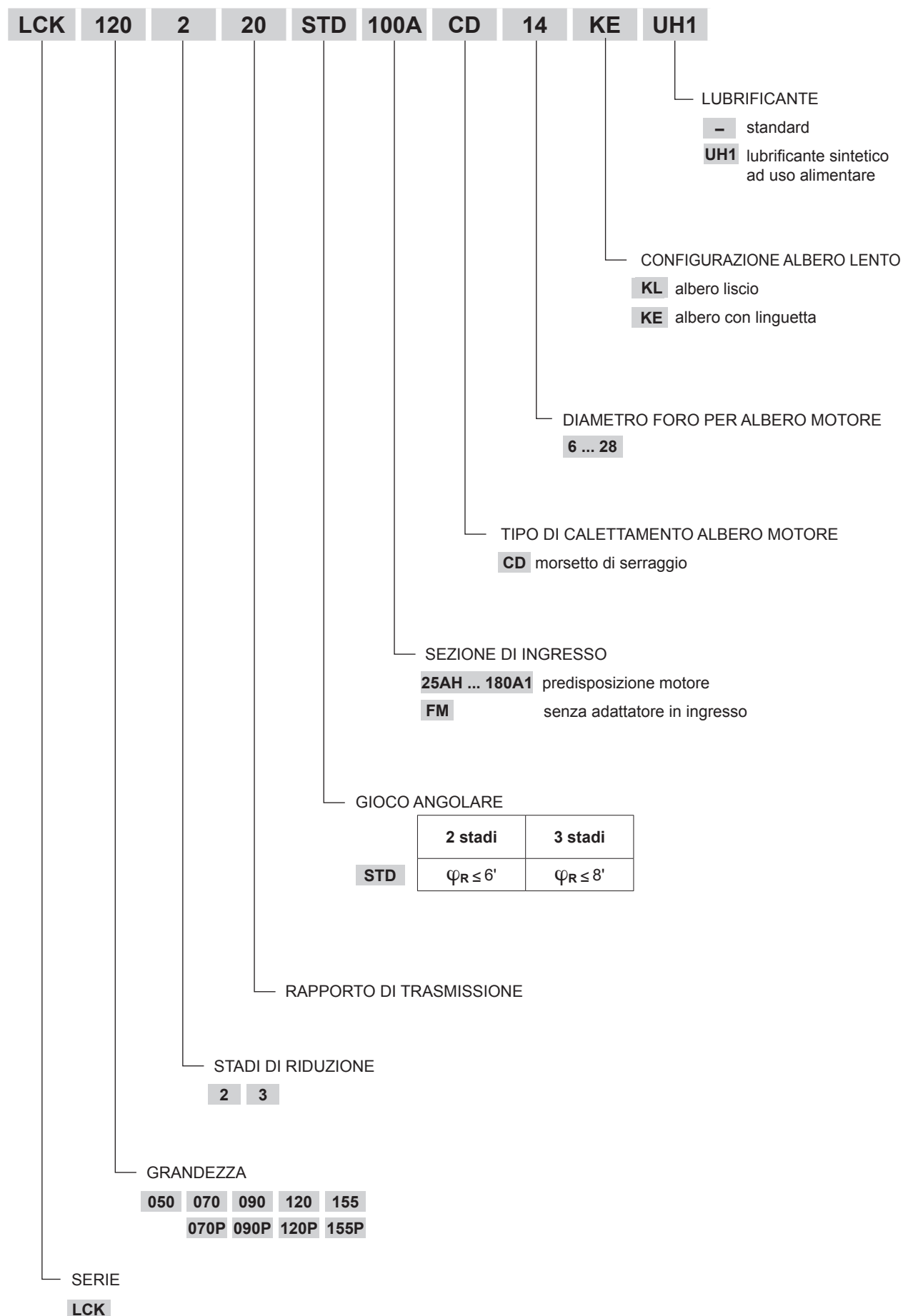
Distribuzione coppia nominale M _{n2} [Nm]												
[i]	6	8	10	14	20	24	30	50	70	80	90	100
LCK 050	10	12	12	12	–	12	12	12	12	–	12	–
LCK 070	18	25	25	25	18	25	25	25	25	25	–	25
LCK 070P	25	30	25	25	18	29	29	30	30	30	–	30
LCK 090	37	43	43	43	37	43	43	43	43	43	–	43
LCK 090P	45	60	50	50	40	60	60	50	50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

LCK

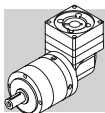




8.1 CODICE ORDINATIVO



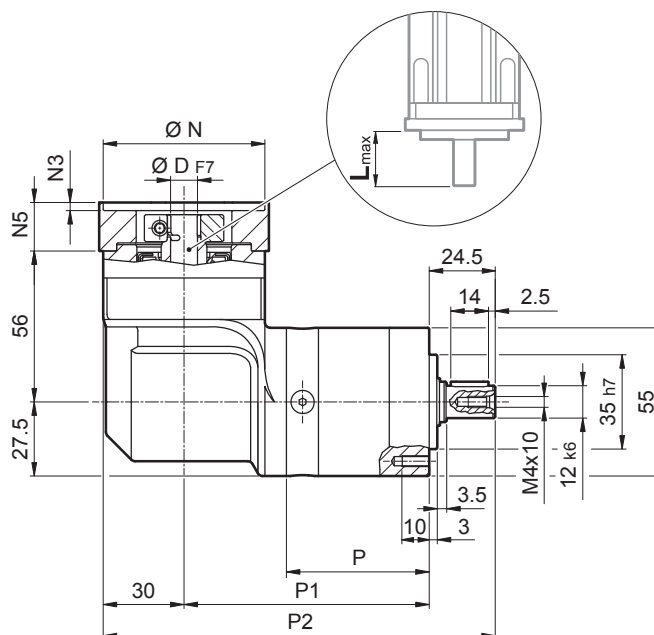
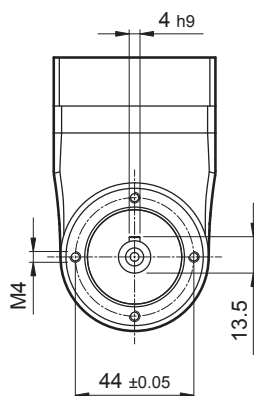
LCK



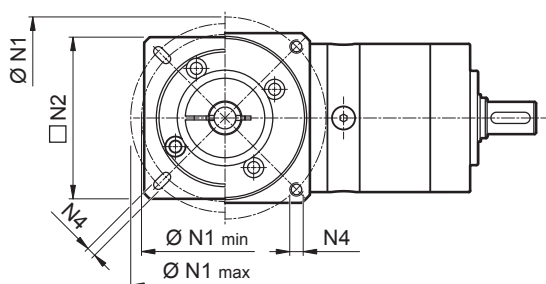
8.2 DIMENSIONI E DATI TECNICI

LCK 050

25AH ... 80A

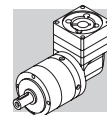


	P	P1	P2	kg
LCK 050 2	53	91	145.5	1.6
LCK 050 3	66.8	104.8	159.3	1.8



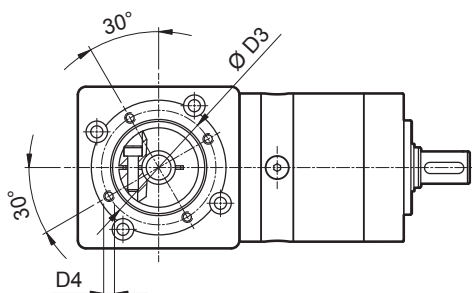
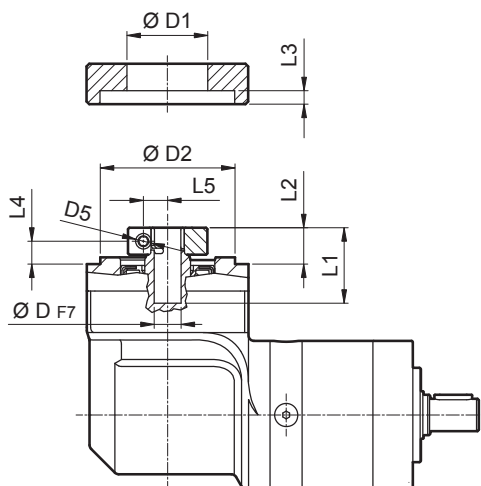
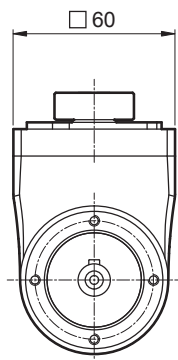
	D											N	N1		N2	N3	N4	N5	L _{max}
													min	max					
																			
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56					
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56	65	3.5	4.5	25	25
34AH	6	6.35	7	8	9	9.52	-	-	-	-	-	34	40	56					
36AH	6	6.35	7	8	9	9.52	-	-	-	-	-	36	42	56					
38AH	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
50MH	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

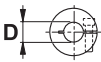
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

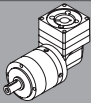


LCK 050

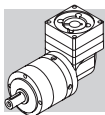
FM



				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

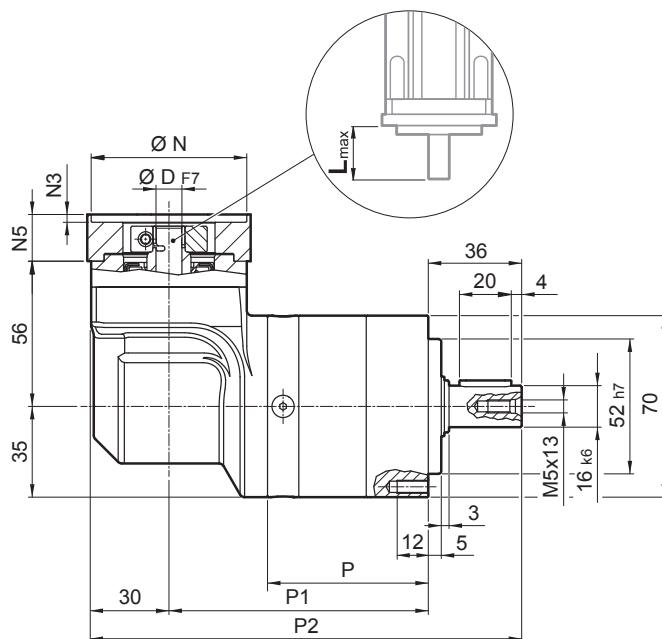
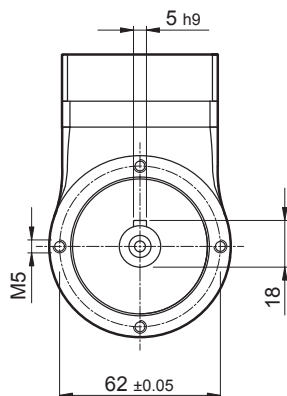
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	6 ... 9.52	10 ... 14
LCK 050 2_6		10	16	28	2500	5000	6'	0.9	500	600	94	0.23	0.25
LCK 050 2_8		12	20	30	2500	5000	6'	0.9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

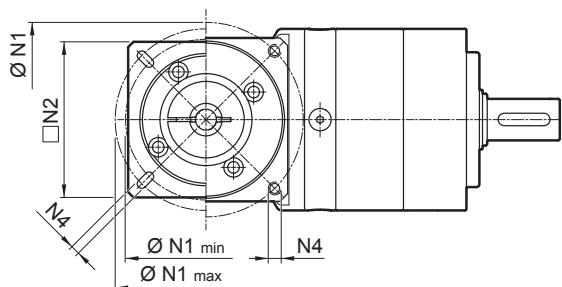


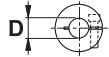
LCK 070

25AH ... 80A

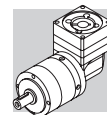


	P	P1	P2	kg
LCK 070 2	62	100	166	2.7
LCK 070 3	78.7	116.7	182.7	3.0



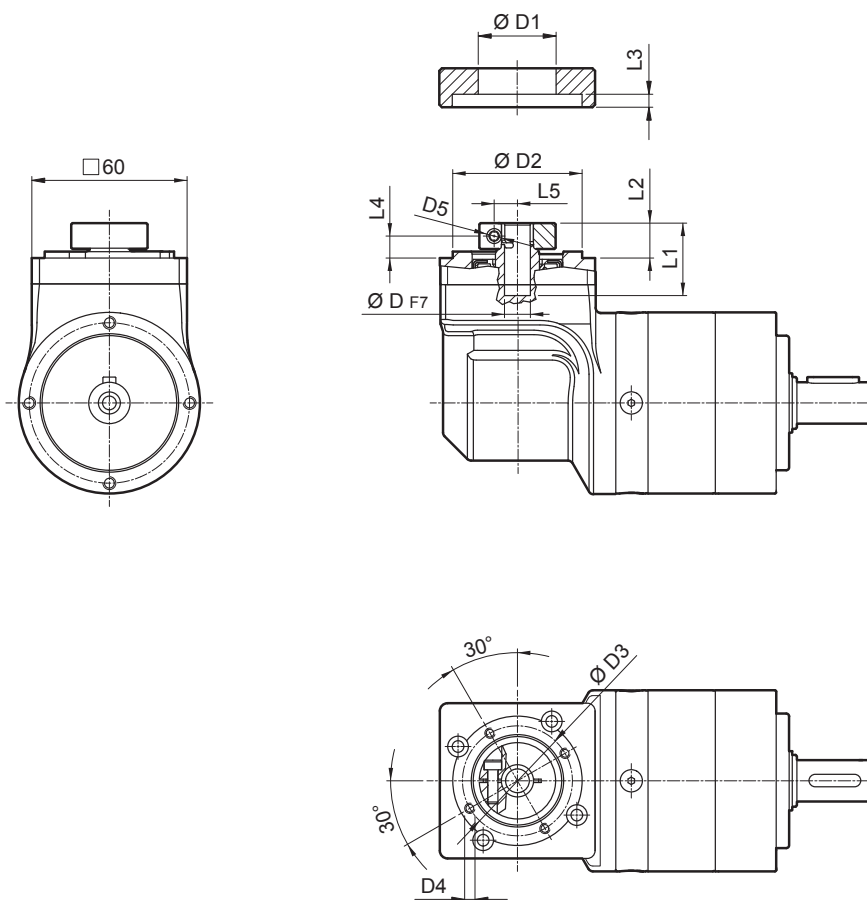
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	—	—	—	—	—	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	—	—	—	—	—	26	39	56					
28AH	6	6.35	7	8	9	9.52	—	—	—	—	—	28	39	56					
30AH	6	6.35	7	8	9	9.52	—	—	—	—	—	30	39	56					
32AH	6	6.35	7	8	9	9.52	—	—	—	—	—	32	39	56					
34AH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

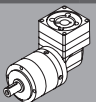


LCK 070

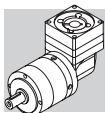
FM



				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

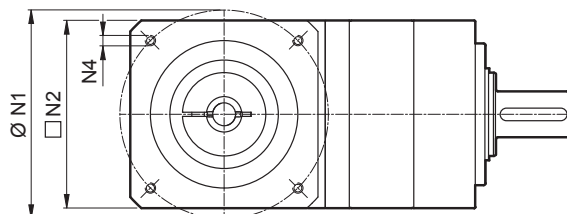
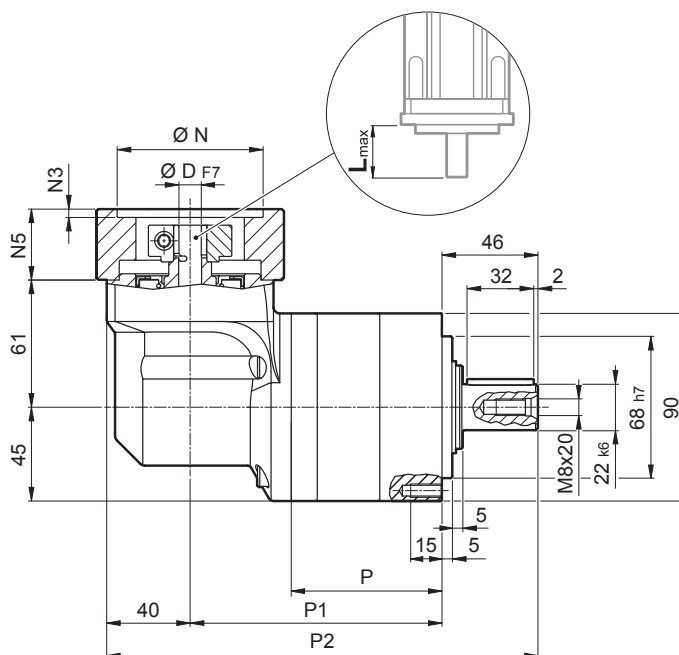
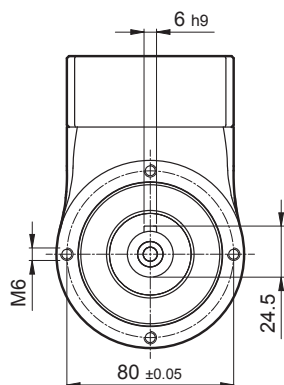
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _s	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	10 ... 14
LCK 070 2_6		18	30	45	2500	5000	6'	2.8	1300	1400	94	0.25	0.26
LCK 070 2_8		25	35	60	2500	5000	6'	2.8	1300	1400	94	0.24	0.25
LCK 070 2_10		25	35	70	2500	5000	6'	2.8	1300	1400	94	0.23	0.25
LCK 070 2_14		25	35	70	2500	5000	6'	2.8	1300	1400	94	0.23	0.24
LCK 070 2_20		18	30	60	2500	5000	6'	2.8	1300	1400	94	0.23	0.24
LCK 070 3_24		25	35	70	2500	5000	8'	2.5	1300	1400	91	0.24	0.26
LCK 070 3_30		25	35	70	2500	5000	8'	2.5	1300	1400	91	0.24	0.26
LCK 070 3_50		25	35	70	2500	5000	8'	2.5	1300	1400	91	0.23	0.24
LCK 070 3_70		25	35	70	2500	5000	8'	2.5	1300	1400	91	0.23	0.24
LCK 070 3_80		25	35	70	2500	5000	8'	2.5	1300	1400	91	0.23	0.24
LCK 070 3_100		25	35	70	2500	5000	8'	2.5	1300	1400	91	0.23	0.24

LCK



LCK 090

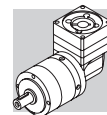
40B1 ... 110B1



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

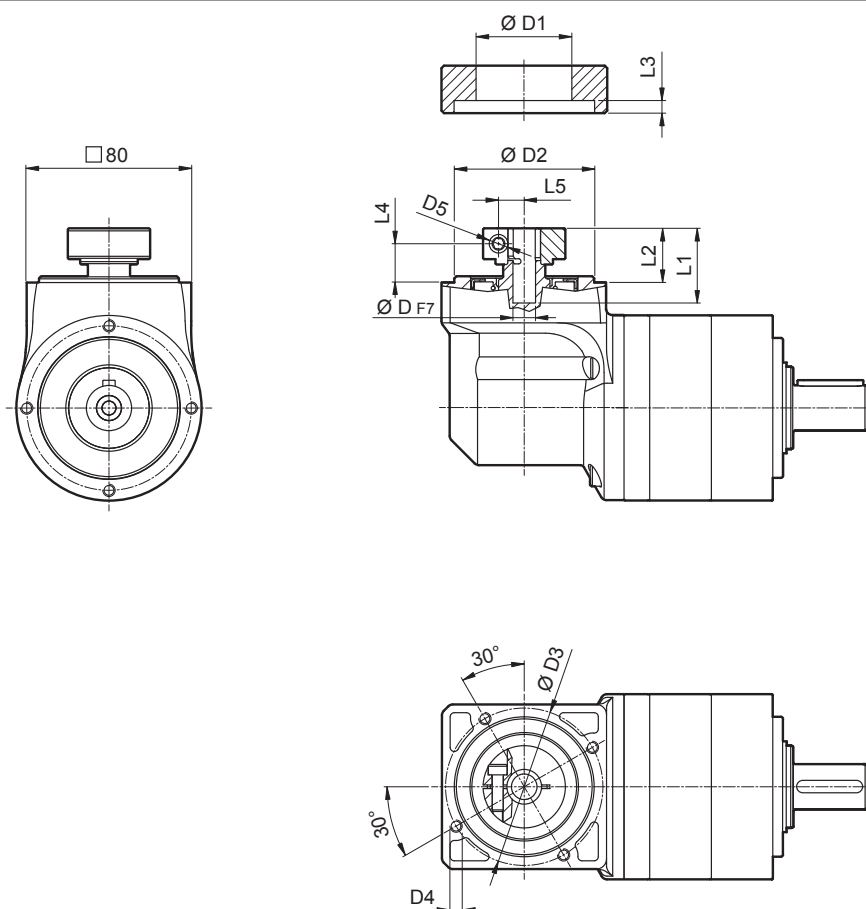
	D											N	N1	N2	N3	N4	N5	L _{max}
	8	9	9.52	11	12	12.7	14	—	—	—	—	40	63	80	4	M4x10	34	40
40B1	8	9	9.52	11	12	12.7	14	—	—	—	—	40	63	80	4	M4x10	34	40
45A	8	9	9.52	11	12	12.7	14	—	—	—	—	50	65	80	4	M5x16	34	40
50B1	8	9	9.52	11	12	12.7	14	—	—	—	—	50	65	80	4	5.5	34	40
50BH1	8	9	9.52	11	12	12.7	14	—	—	—	—	50	70	80	4	M4x10	34	40
50C1	8	9	9.52	11	12	12.7	14	—	—	—	—	50	95	80	4	M6x10	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

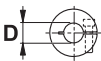
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



LCK 090

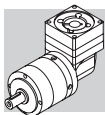
FM



				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

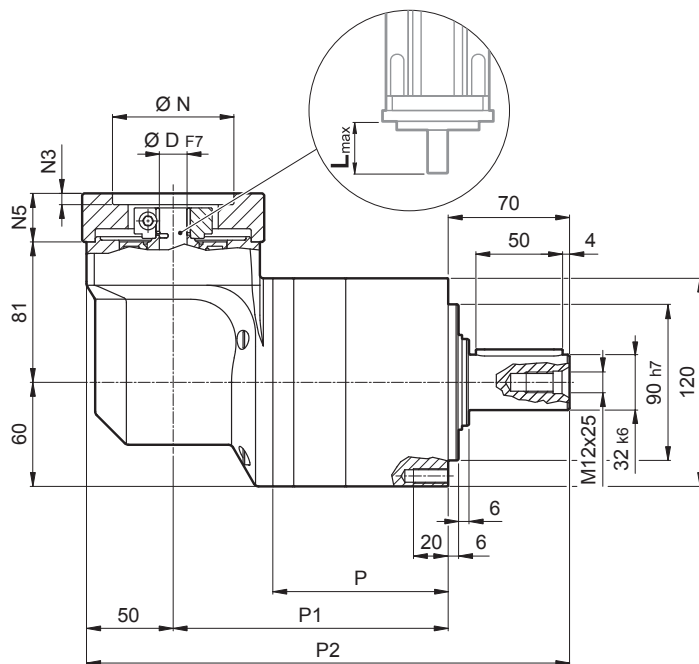
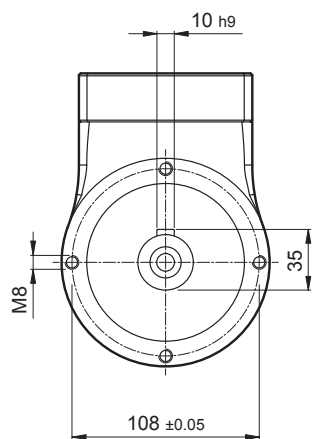
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	8 ... 12.7	14 ... 19.05
LCK 090 2_6		37	63	90	2500	5000	6'	8	2200	1900	94	0.85	1.03
LCK 090 2_8		43	80	120	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		37	70	150	2500	5000	6'	8	2200	1900	94	0.74	0.93
LCK 090 3_24		43	80	160	2500	5000	8'	7.8	2200	1900	91	0.81	1.00
LCK 090 3_30		43	80	160	2500	5000	8'	7.8	2200	1900	91	0.81	1.00
LCK 090 3_50		43	80	160	2500	5000	8'	7.8	2200	1900	91	0.76	0.94
LCK 090 3_70		43	80	160	2500	5000	8'	7.8	2200	1900	91	0.74	0.93
LCK 090 3_80		43	80	160	2500	5000	8'	7.8	2200	1900	91	0.74	0.93
LCK 090 3_100		43	80	160	2500	5000	8'	7.8	2200	1900	91	0.74	0.93

LCK

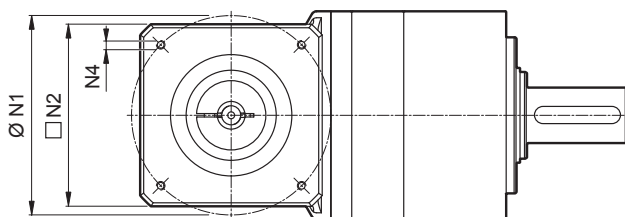


LCK 120

50D ... 130A1

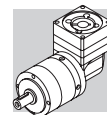


	P	P1	P2	kg
LCK 120 2	101.1	158.6	278.6	11.3
LCK 120 3	133.6	191.1	311.1	13.8



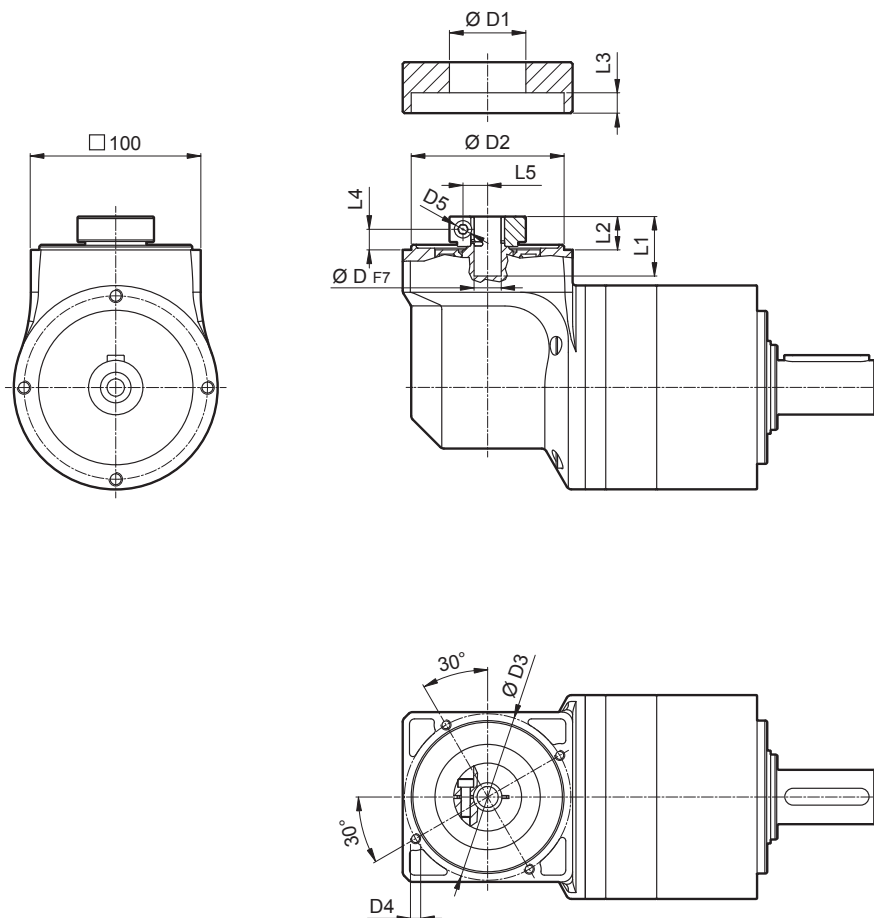
	 										N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	—	—	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	—	—	55.5	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	—	—	60	75	100	5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	—	—	60	75	100	5	6.5	33	40
60B1	11	12	12.7	14	15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

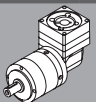


LCK 120

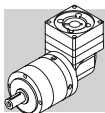
FM



				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

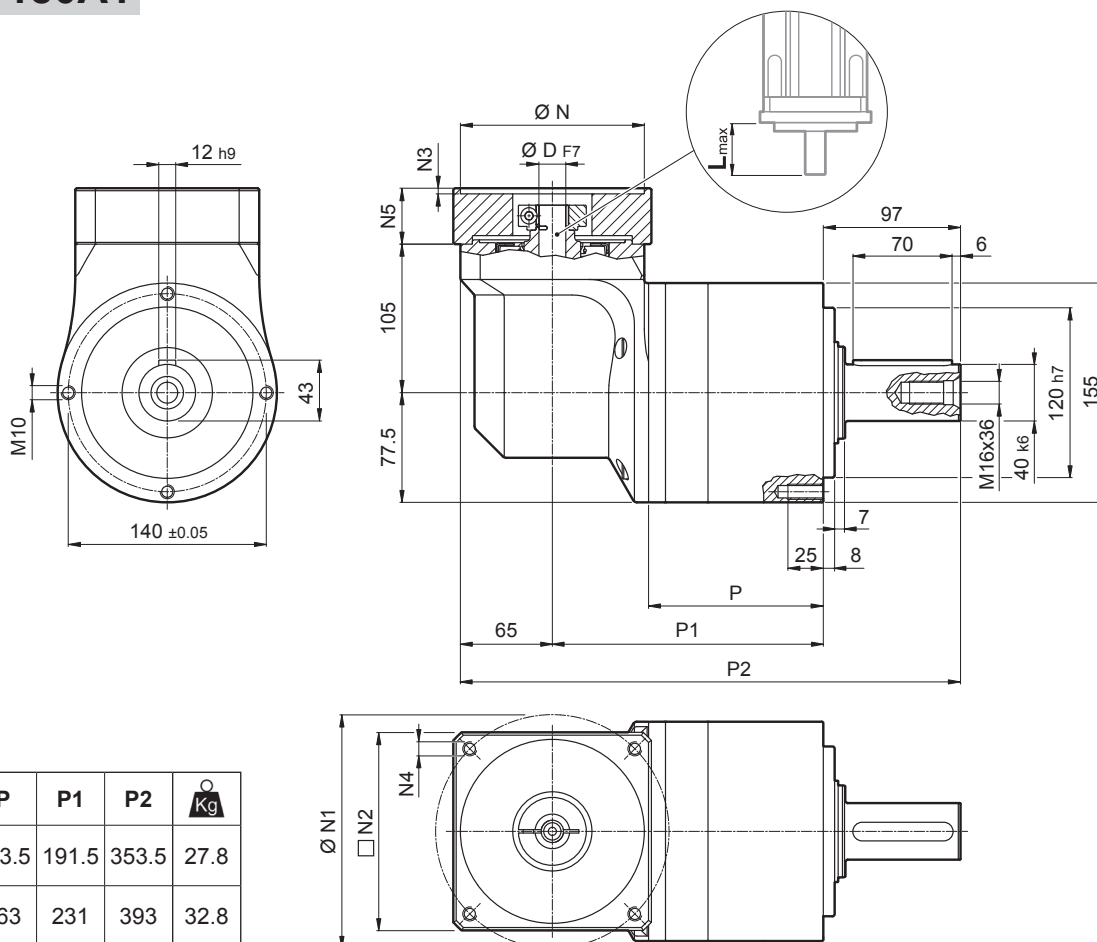
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	11 ... 12.7	14 ... 19	22 ; 24
LCK 120 2_6		95	160	225	2000	4500	6'	23.4	3500	3000	94	1.74	1.82	2.01
LCK 120 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		95	160	300	2000	4500	6'	23.4	3500	3000	94	1.32	1.40	1.59
LCK 120 3_24		110	190	360	2000	4500	8'	22.9	3500	3000	91	1.64	1.72	1.90
LCK 120 3_30		110	190	360	2000	4500	8'	22.9	3500	3000	91	1.63	1.71	1.89
LCK 120 3_50		110	190	360	2000	4500	8'	22.9	3500	3000	91	1.40	1.48	1.67
LCK 120 3_70		110	190	360	2000	4500	8'	22.9	3500	3000	91	1.34	1.42	1.61
LCK 120 3_80		110	190	360	2000	4500	8'	22.9	3500	3000	91	1.31	1.39	1.58
LCK 120 3_100		110	190	360	2000	4500	8'	22.9	3500	3000	91	1.31	1.39	1.58

LCK



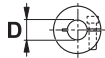
LCK 155

55A1 ... 180A1

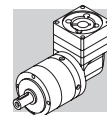


	P	P1	P2	Kg
LCK 155 2	123.5	191.5	353.5	27.8
LCK 155 3	163	231	393	32.8

LCK

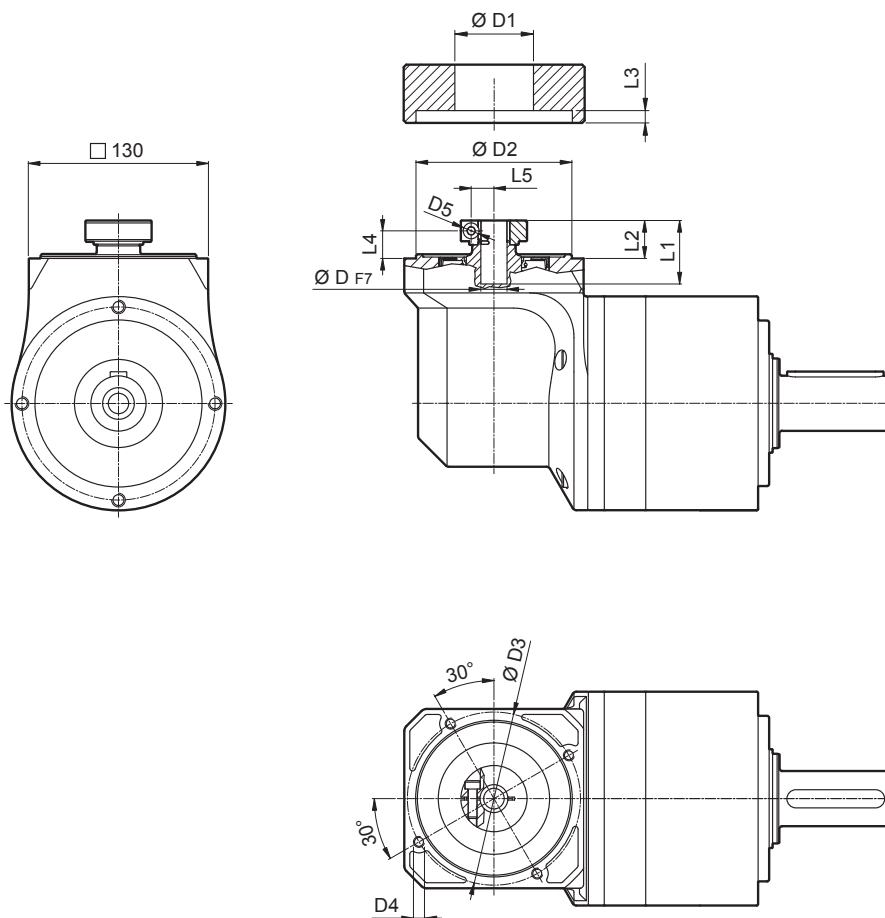
	 							N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24	—	110	145	130	6.5	M8x20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

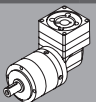


LCK 155

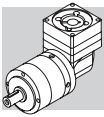
FM



			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

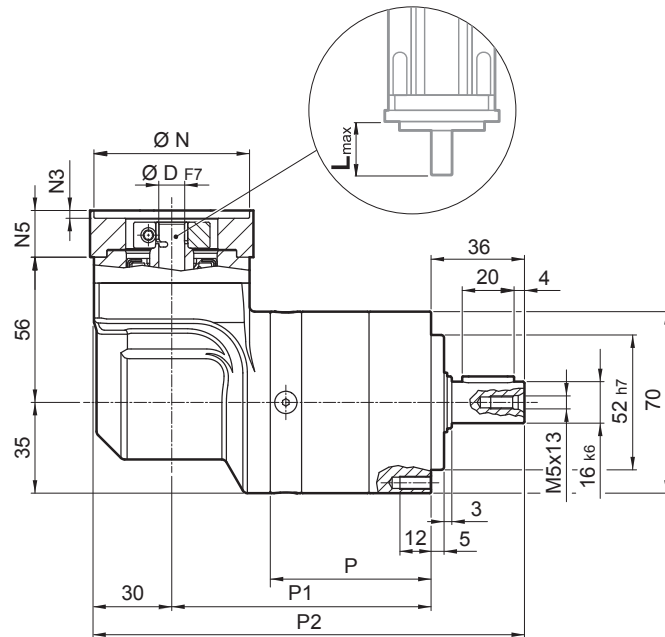
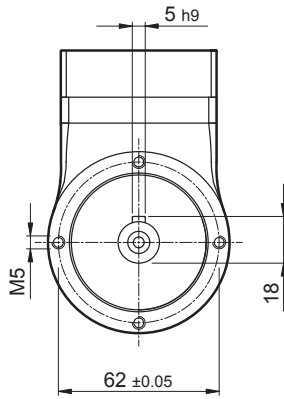
		M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]		
i		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%	14 ... 19	22 ; 24	28
LCK 155 2_6		250	360	510	2000	4500	6'	40.7	6000	5000	94	7.94	8.13	8.53
LCK 155 2_8		300	450	680	2000	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

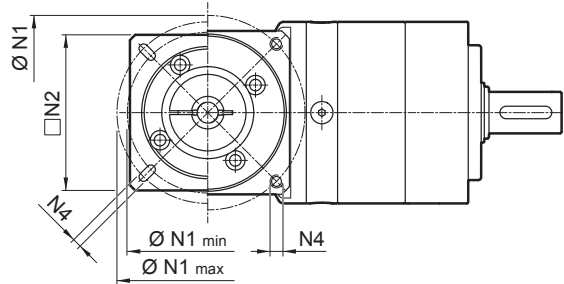


LCK 070P

25AH ... 80A

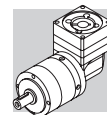


	P	P1	P2	kg
LCK 070P 2	62	100	166	2.7
LCK 070P 3	78.7	116.7	182.7	3.0



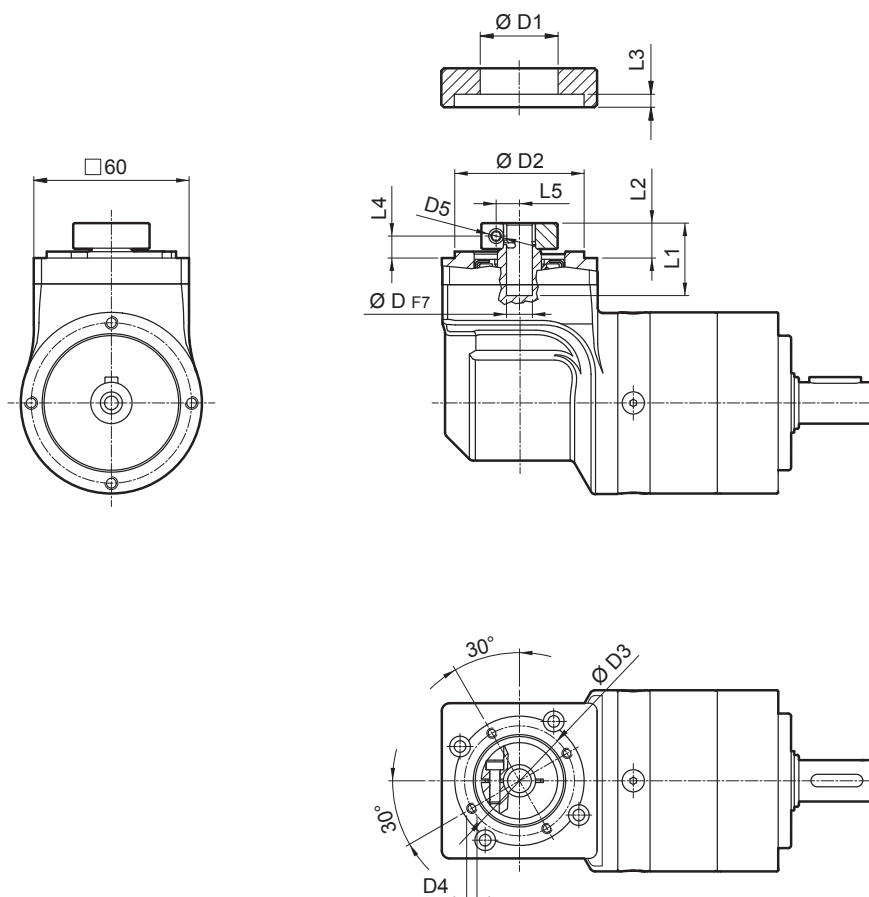
	D											N	N1		N2	N3	N4	N5	L _{max}
													min	max					
	25AH	6	6.35	7	8	9	9.52	—	—	—	—	25	39	56	65	3.5	4.5	25	25
	26AH	6	6.35	7	8	9	9.52	—	—	—	—	26	39	56					
	28AH	6	6.35	7	8	9	9.52	—	—	—	—	28	39	56					
	30AH	6	6.35	7	8	9	9.52	—	—	—	—	30	39	56					
	32AH	6	6.35	7	8	9	9.52	—	—	—	—	32	39	56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

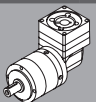


LCK 070P

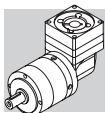
FM



				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

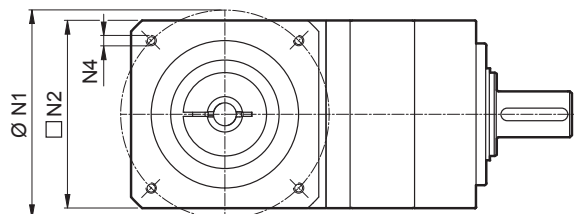
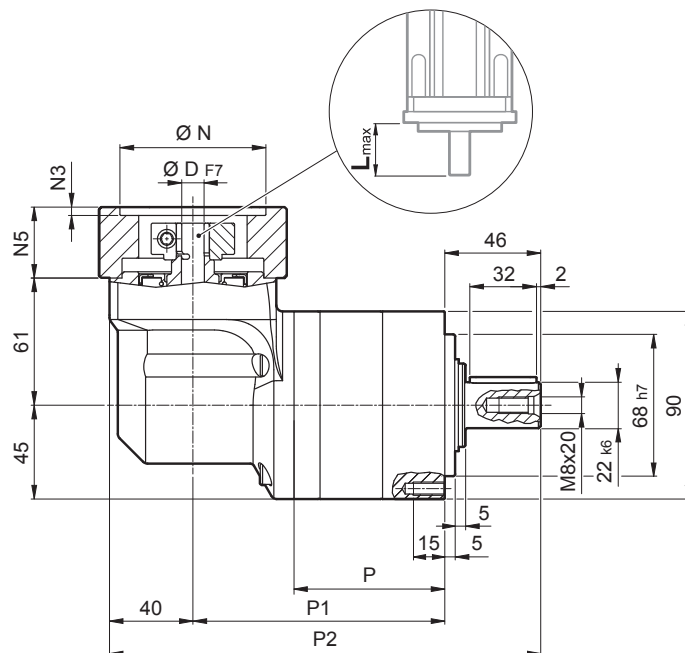
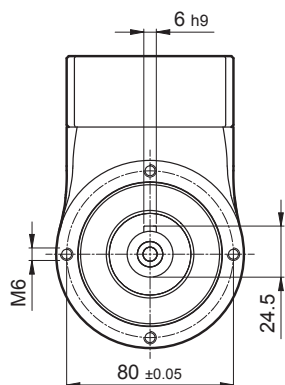
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	6 ... 9.52	11 ... 14
LCK 070P 2_6		25	38	45	2500	5000	6'	2.8	1300	1400	94	0.25	0.26
LCK 070P 2_8		30	40	60	2500	5000	6'	2.8	1300	1400	94	0.24	0.25
LCK 070P 2_10		25	40	70	2500	5000	6'	2.8	1300	1400	94	0.23	0.25
LCK 070P 2_14		25	40	70	2500	5000	6'	2.8	1300	1400	94	0.23	0.24
LCK 070P 2_20		18	30	60	2500	5000	6'	2.8	1300	1400	94	0.23	0.24
LCK 070P 3_24		29	45	70	2500	5000	8'	2.5	1300	1400	91	0.24	0.26
LCK 070P 3_30		29	45	70	2500	5000	8'	2.5	1300	1400	91	0.24	0.26
LCK 070P 3_50		30	45	70	2500	5000	8'	2.5	1300	1400	91	0.23	0.24
LCK 070P 3_70		30	45	70	2500	5000	8'	2.5	1300	1400	91	0.23	0.24
LCK 070P 3_80		30	45	70	2500	5000	8'	2.5	1300	1400	91	0.23	0.24
LCK 070P 3_100		30	45	70	2500	5000	8'	2.5	1300	1400	91	0.23	0.24

LCK



LCK 090P

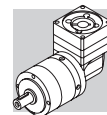
40B1 ... 110B1



	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

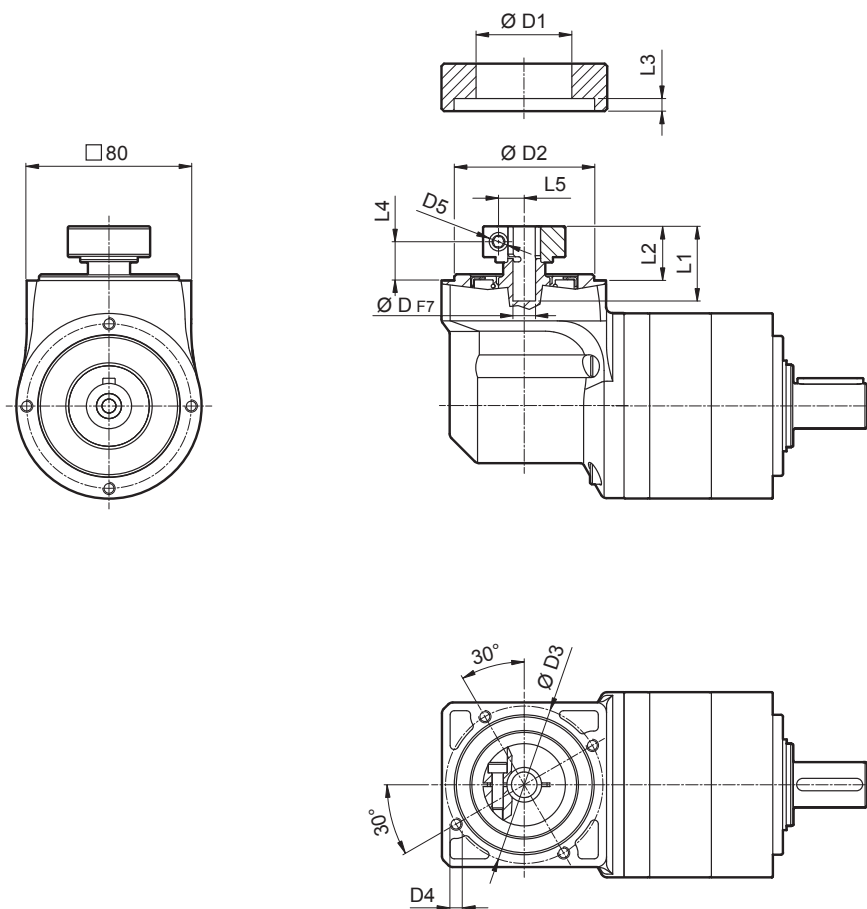
													N	N1	N2	N3	N4	N5	L _{max}
40B1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	40	63	80	4	M4x10	34	40
45A	8	9	9.52	11	12	12.7	—	—	—	—	—	—	45	63	80	4	M4x10	34	40
50B1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	5.5	34	40
50C1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	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.

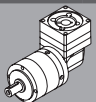


LCK 090P

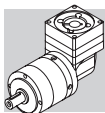
FM



				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

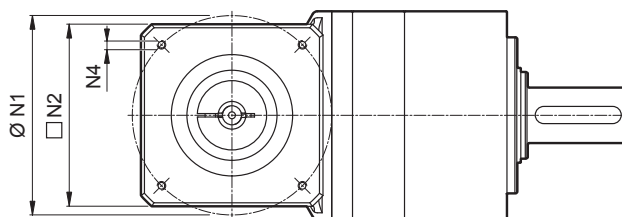
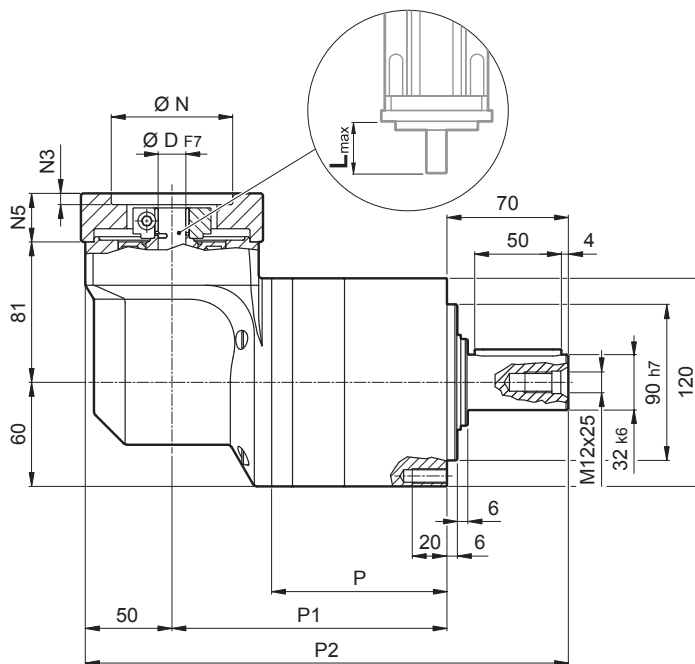
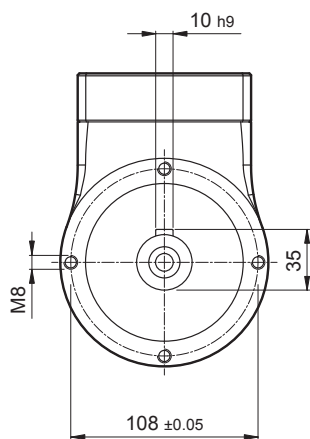
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	8 ... 12.7	14 ... 19
LCK 090P 2_6		45	70	90	2500	5000	6'	11	2200	1900	94	0.85	1.03
LCK 090P 2_8		60	90	120	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	70	150	2500	5000	6'	8	2200	1900	94	0.74	0.93
LCK 090P 3_24		60	90	160	2500	5000	8'	10.8	2200	1900	91	0.81	1.00
LCK 090P 3_30		60	90	160	2500	5000	8'	10.8	2200	1900	91	0.81	1.00
LCK 090P 3_50		50	90	160	2500	5000	8'	7.8	2200	1900	91	0.76	0.94
LCK 090P 3_70		50	90	160	2500	5000	8'	7.8	2200	1900	91	0.74	0.93
LCK 090P 3_80		60	90	160	2500	5000	8'	10.8	2200	1900	91	0.74	0.93
LCK 090P 3_100		50	90	160	2500	5000	8'	7.8	2200	1900	91	0.74	0.93

LCK



LCK 120P

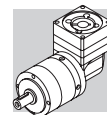
50D ... 130A1



	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

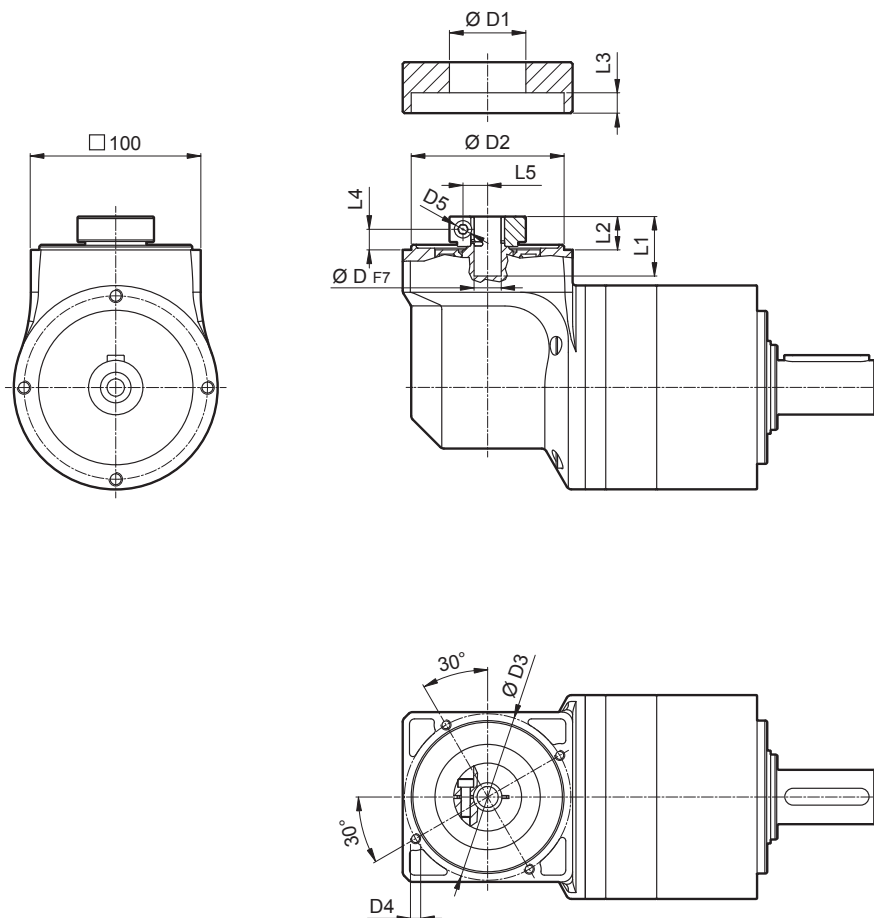
	 										N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	—	—	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	—	—	55.5	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	—	—	60	75	100	5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	—	—	60	75	100	5	6.5	33	40
60B1	11	12	12.7	14	15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

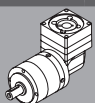


LCK 120P

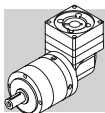
FM



				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

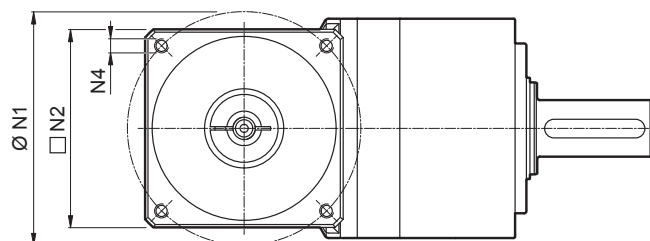
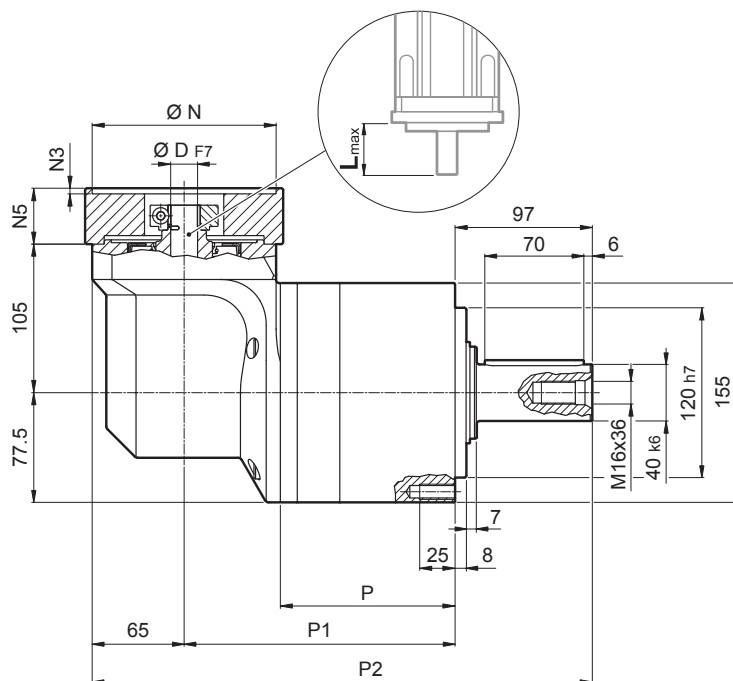
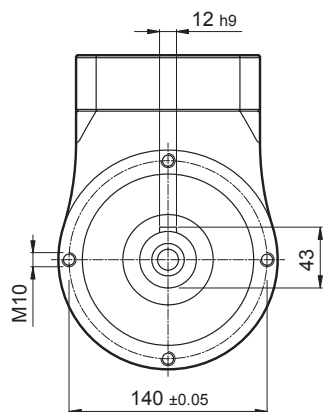
	i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	%		14 ... 19	22 ; 24
LCK 120P 2_6		110	160	225	2000	4500	6'	28.4	3500	3000	94	1.74	1.82	2.01
LCK 120P 2_8		140	220	300	2000	4500	6'	28.4	3500	3000	94	1.52	1.60	1.79
LCK 120P 2_10		125	220	360	2000	4500	6'	28.4	3500	3000	94	1.44	1.52	1.71
LCK 120P 2_14		125	220	360	2000	4500	6'	28.4	3500	3000	94	1.37	1.45	1.63
LCK 120P 2_20		100	160	300	2000	4500	6'	28.4	3500	3000	94	1.32	1.40	1.59
LCK 120P 3_24		155	220	360	2000	4500	8'	28.4	3500	3000	91	1.64	1.72	1.90
LCK 120P 3_30		155	220	360	2000	4500	8'	28.4	3500	3000	91	1.63	1.71	1.89
LCK 120P 3_50		125	220	360	2000	4500	8'	22.9	3500	3000	91	1.40	1.48	1.67
LCK 120P 3_70		125	220	360	2000	4500	8'	22.9	3500	3000	91	1.34	1.42	1.61
LCK 120P 3_80		155	220	360	2000	4500	8'	28.4	3500	3000	91	1.31	1.39	1.58
LCK 120P 3_100		125	220	360	2000	4500	8'	22.9	3500	3000	91	1.31	1.39	1.58

LCK



LCK 155P

55A1 ... 180A1

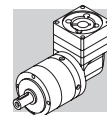


	P	P1	P2	kg
LCK 155P 2	123.5	191.5	353.5	27.8
LCK 155P 3	163	231	393	32.8

LCK

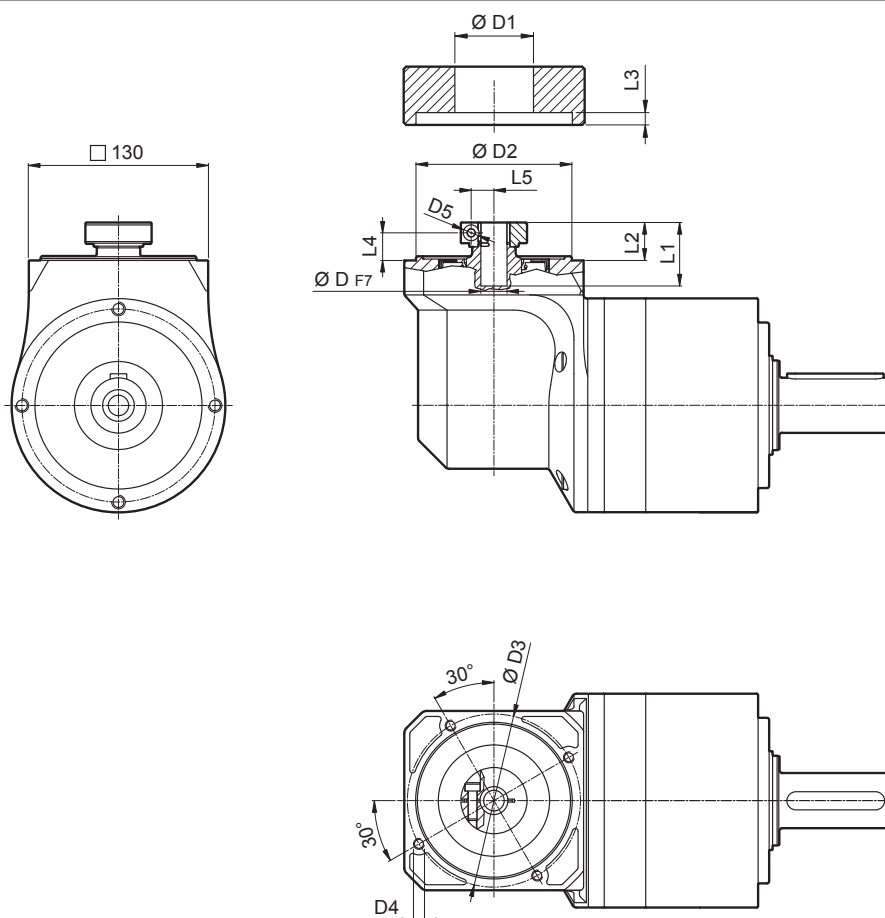
								N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24	—	110	145	130	6.5	M8x20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

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

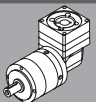


LCK 155P

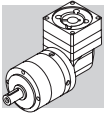
FM



	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

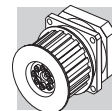
	M_{n2}	M_{a2}	M_{p2}	n_1	n_{1max}	φ_s	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²] 		
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	%	14 ... 19	22 ; 24	28
LCK 155P 2_6	250	380	600	2000	4500	6'	47.9	6000	5000	94	7.94	8.13	8.53
LCK 155P 2_8	350	500	1000	2000	4500	6'	47.9	6000	5000	94	7.11	7.30	7.70
LCK 155P 2_10	350	500	1000	2000	4500	6'	47.9	6000	5000	94	6.78	6.96	7.36
LCK 155P 2_14	350	500	1000	2000	4500	6'	47.9	6000	5000	94	6.48	6.67	7.07
LCK 155P 2_20	230	350	750	2000	4500	6'	47.9	6000	5000	94	6.31	6.49	6.90
LCK 155P 3_24	450	700	1000	2000	4500	8'	44.6	6000	5000	91	7.18	7.37	7.77
LCK 155P 3_30	450	700	1000	2000	4500	8'	44.6	6000	5000	91	7.14	7.33	7.73
LCK 155P 3_50	450	700	1000	2000	4500	8'	44.6	6000	5000	91	6.49	6.68	7.08
LCK 155P 3_70	450	700	1000	2000	4500	8'	44.6	6000	5000	91	6.33	6.52	6.92
LCK 155P 3_80	450	700	1000	2000	4500	8'	44.6	6000	5000	91	6.25	6.43	6.83
LCK 155P 3_100	450	700	1000	2000	4500	8'	44.6	6000	5000	91	6.24	6.43	6.83

LCK



LCK





SL

RIDUTTORE EPICICLOIDALE DI PRECISIONE PER AZIONAMENTI DI PULEGGE

La serie di riduttori epicicloidali di precisione SL non ha rivali in termini di compattezza, efficienza e ottimizzazione per quanto concerne i sistemi di azionamento di pulegge per cinghie dentate. Questa serie è il complemento ideale dei servoazionamenti per nastri trasportatori e di tutte le altre applicazioni che hanno l'esigenza di associare elevata precisione a dimensioni ultra-compatte.

L'aumento delle prestazioni rappresenta la chiave per poter scendere di taglia.

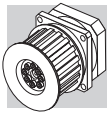
Il potenziamento delle prestazioni dei riduttori epicicloidali di precisione SL (la nuova opzione "P") aprono importanti opportunità in molte applicazioni, dove prima era impossibile assicurare elevate coppie trasmissibili. Un ulteriore vantaggio consiste nel miglioramento dell'efficienza energetica derivata dalla selezione di un riduttore più compatto e ad alta densità di coppia che riduce di conseguenza significativamente le massi acceleranti.

Coppia trasmissibile è stata aumentata fino a 40%.



Caratteristiche di prodotto:

- Disponibile l'opzione alta densità di coppia "P" per aumentare le prestazioni del prodotto
- Coppie nominali e acceleranti elevate
- Capacità di carico radiale e assiale elevate
- Progettato per funzionamento ciclici e continuativi
- Rigidezza torsionale elevata
- Gioco di precisione ≤ 6 arcmin
- Disponibilità opzionale con una puleggia per cinghia dentata
- Funzionamento silenzioso
- Design universale per ogni posizione di montaggio



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.

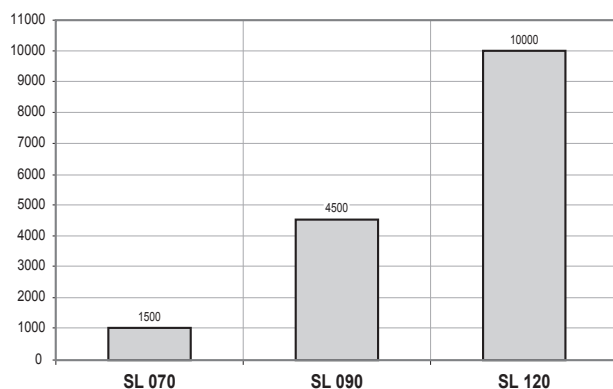
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
1 stadio di riduzione: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 6'$
2 stadi di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 8'$
- Ottimo grado di protezione contro la penetrazione di polvere 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; $i=10$.
- Riempimento in fabbrica con grasso sintetico di consistenza NLGI 00, in assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico f_T .
- La temperatura sulla cassa non deve superare $T_{max} = 90^\circ\text{C}$.
- 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	25	25	29	18	29	29	30	30	30	30	29	30	30	30	30	18
SL 090		37	43	43	43	37	37	43	43	43	43	43	43	37	43	43	43	43	37
SL 090P		65	60	50	50	65	40	65	65	60	60	50	50	65	50	60	50	50	40
SL 120		95	110	110	110	95	95	110	110	110	110	110	110	95	110	110	110	110	95
SL 120P		155	155	125	125	155	100	155	155	155	155	125	125	155	125	155	125	125	100

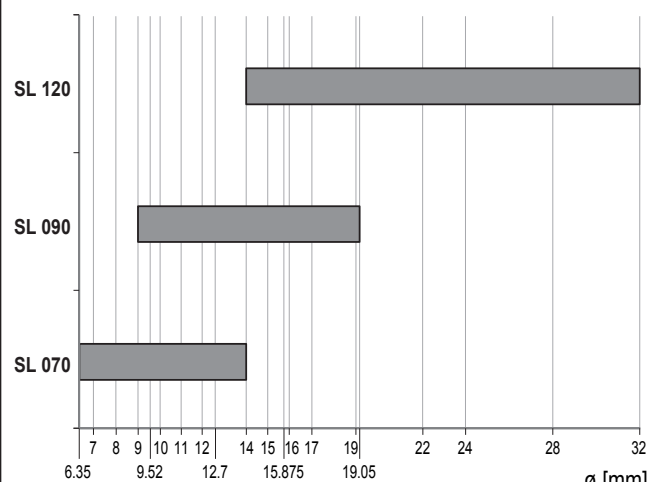
Carichi massimi applicabili sull'albero lento

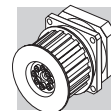


$R_2 \text{ max [N]}$

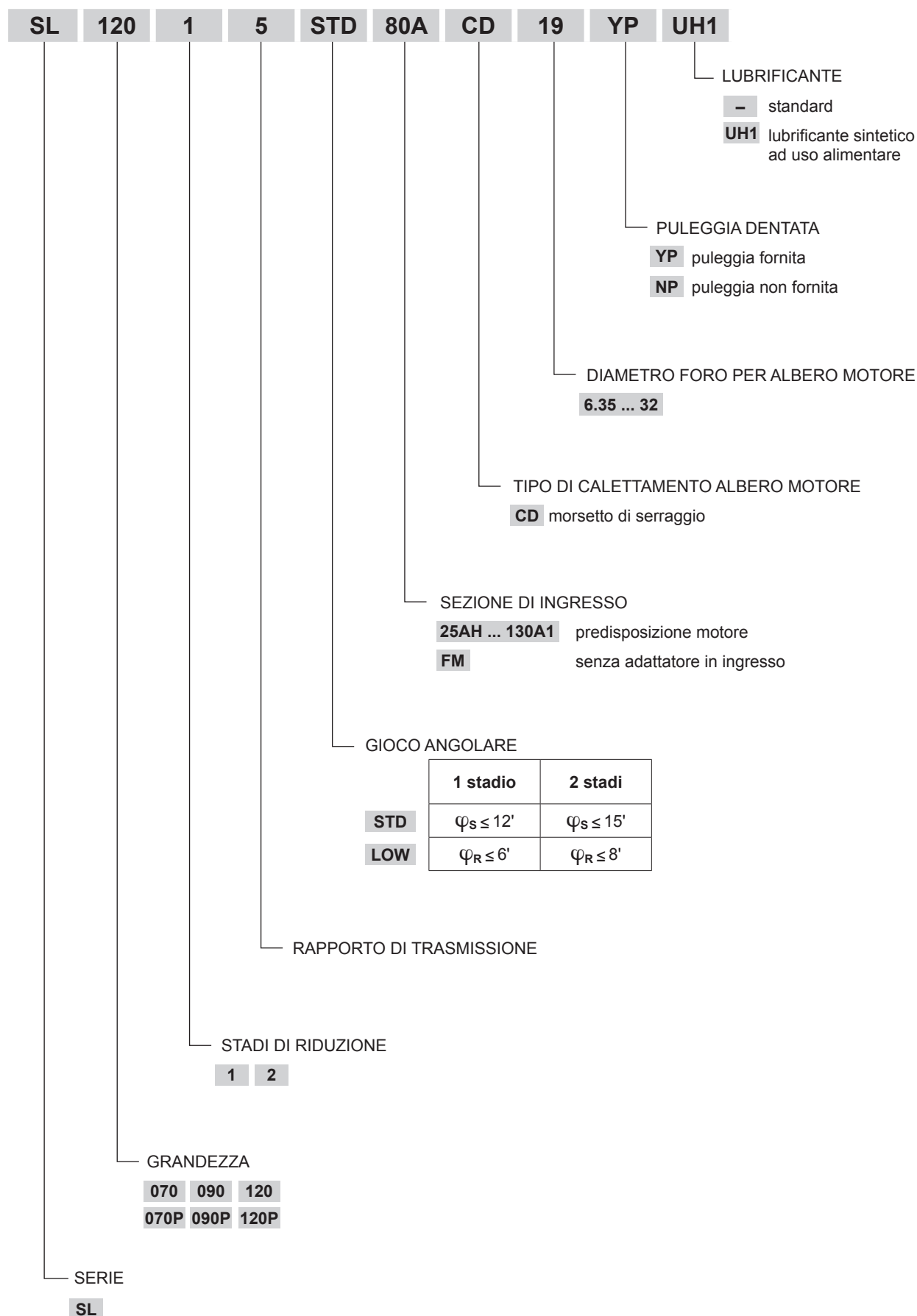


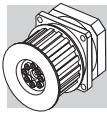
Alberi motore accoppiabili





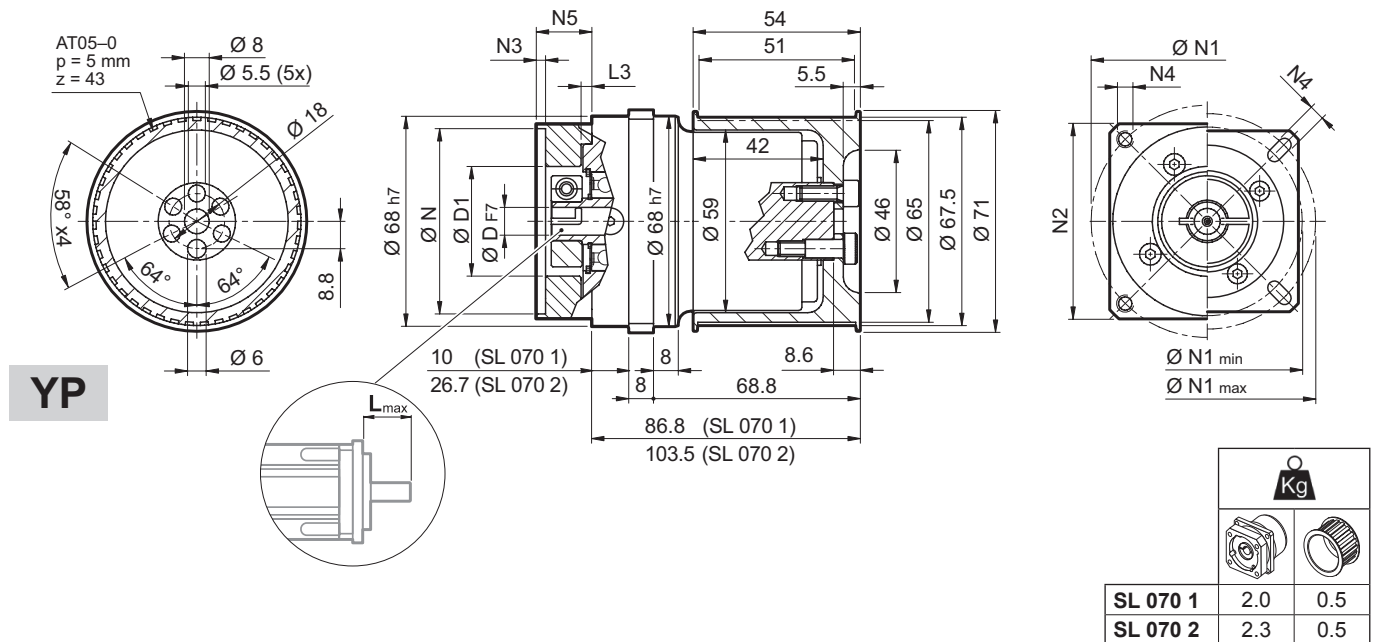
9.1 CODICE ORDINATIVO

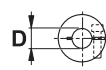




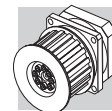
9.2 DIMENSIONI E DATI TECNICI

SL 070

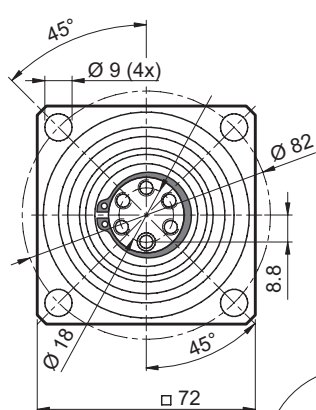


											N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	–	–	–	–	–	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	–	–	–	–	–	26	39	56					
28AH	6.35	7	8	9	9.52	–	–	–	–	–	28	39	56					
30AH	6.35	7	8	9	9.52	–	–	–	–	–	30	39	56					
32AH	6.35	7	8	9	9.52	–	–	–	–	–	32	39	56					
34AH	6.35	7	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	3	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	

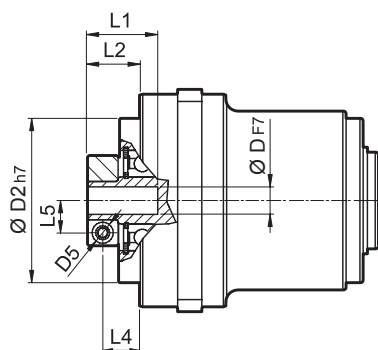
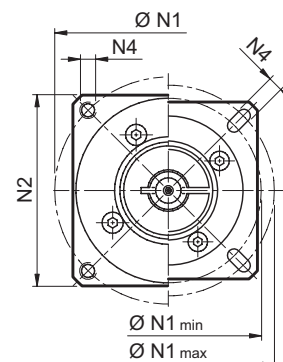
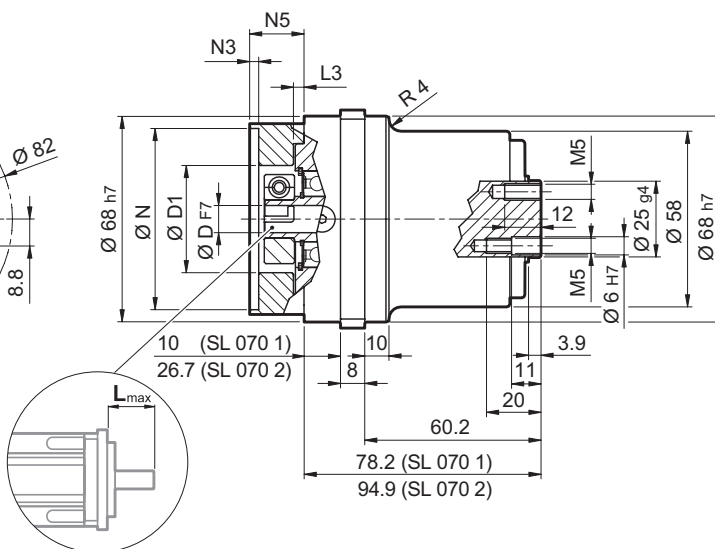
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



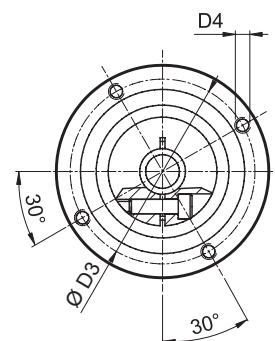
SL 070



NP



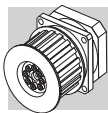
FM



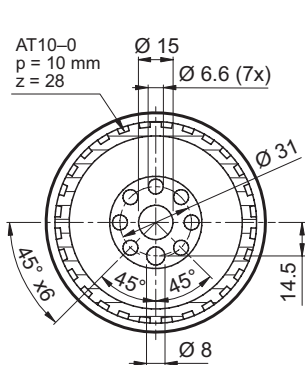
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6.35	7			32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5

	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]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[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	

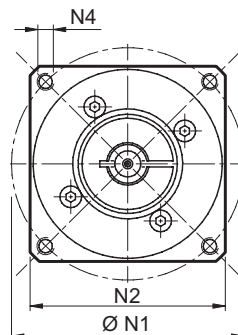
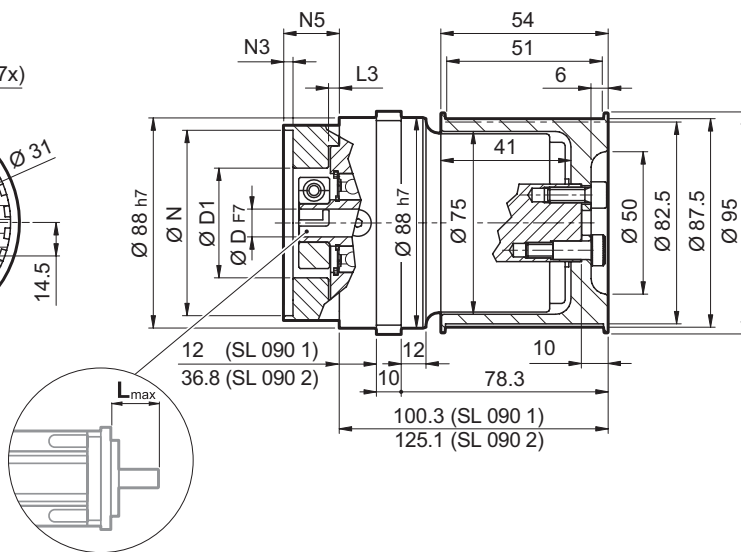
* Applicabile nell'uso con puleggia dentata



SL 090



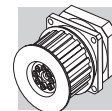
YP



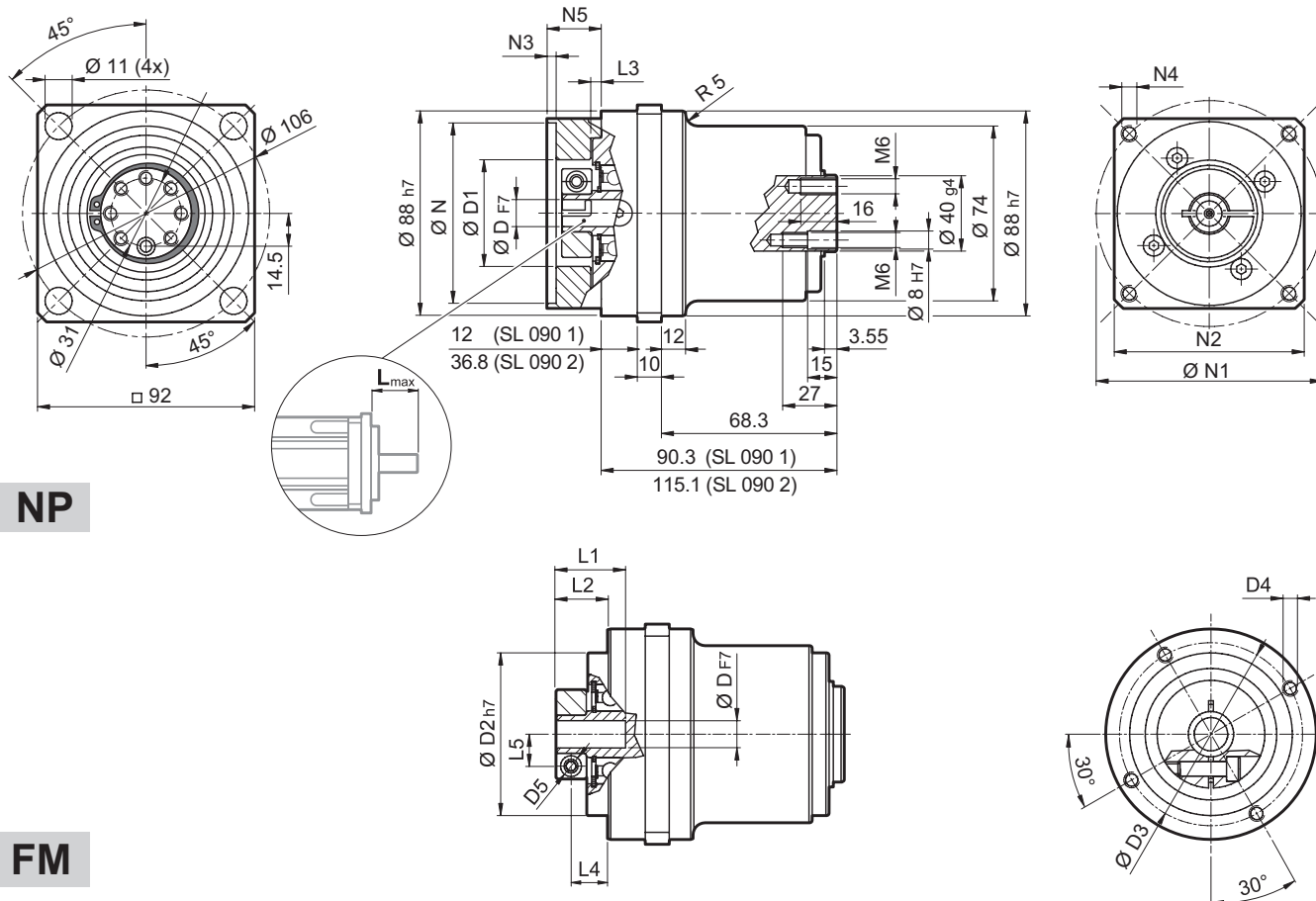
	Kg	
SL 090 1	3.6	0.8
SL 090 2	4.7	0.8

	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



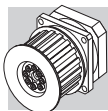
NP

FM

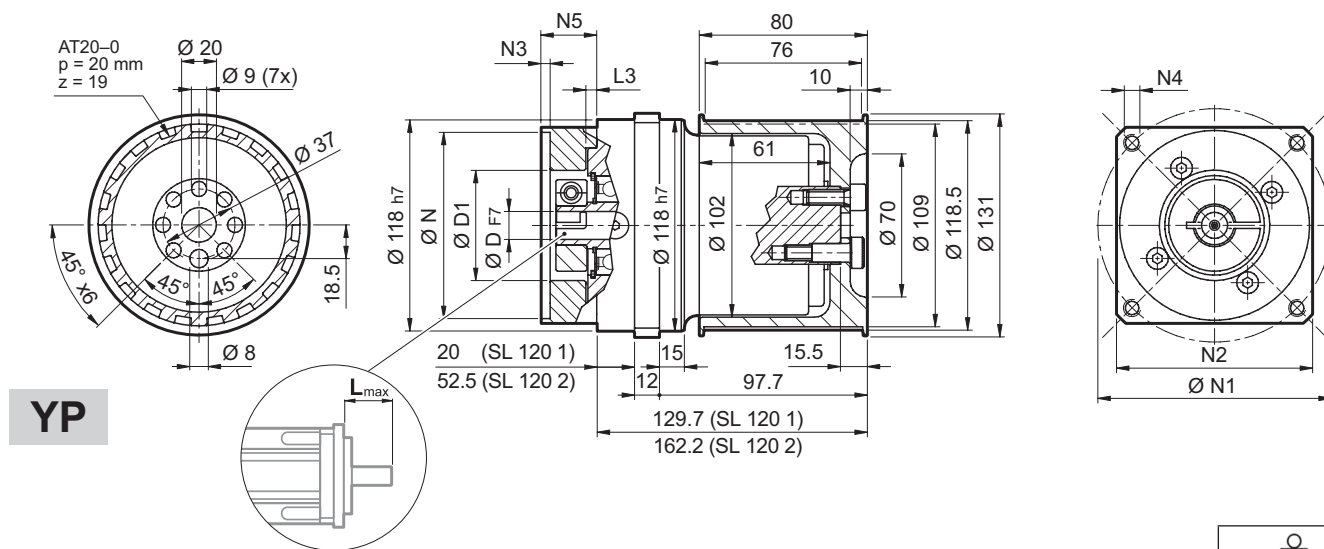
					D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
9	9.52				38	68	76.5	M6x10	M6	34	26.8	9.5	18.8	10.5
11	12	12.7			52	68	76.5	M6x10	M6	34	26.8	9.5	18.8	12.5
14	15.875	16	17		48	68	76.5	M6x10	M6	34	26.8	9.5	18.8	14.5
19	19.05				51	68	76.5	M6x10	M6	34	26.8	9.5	18.8	16.5

	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



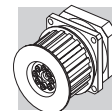
SL 120



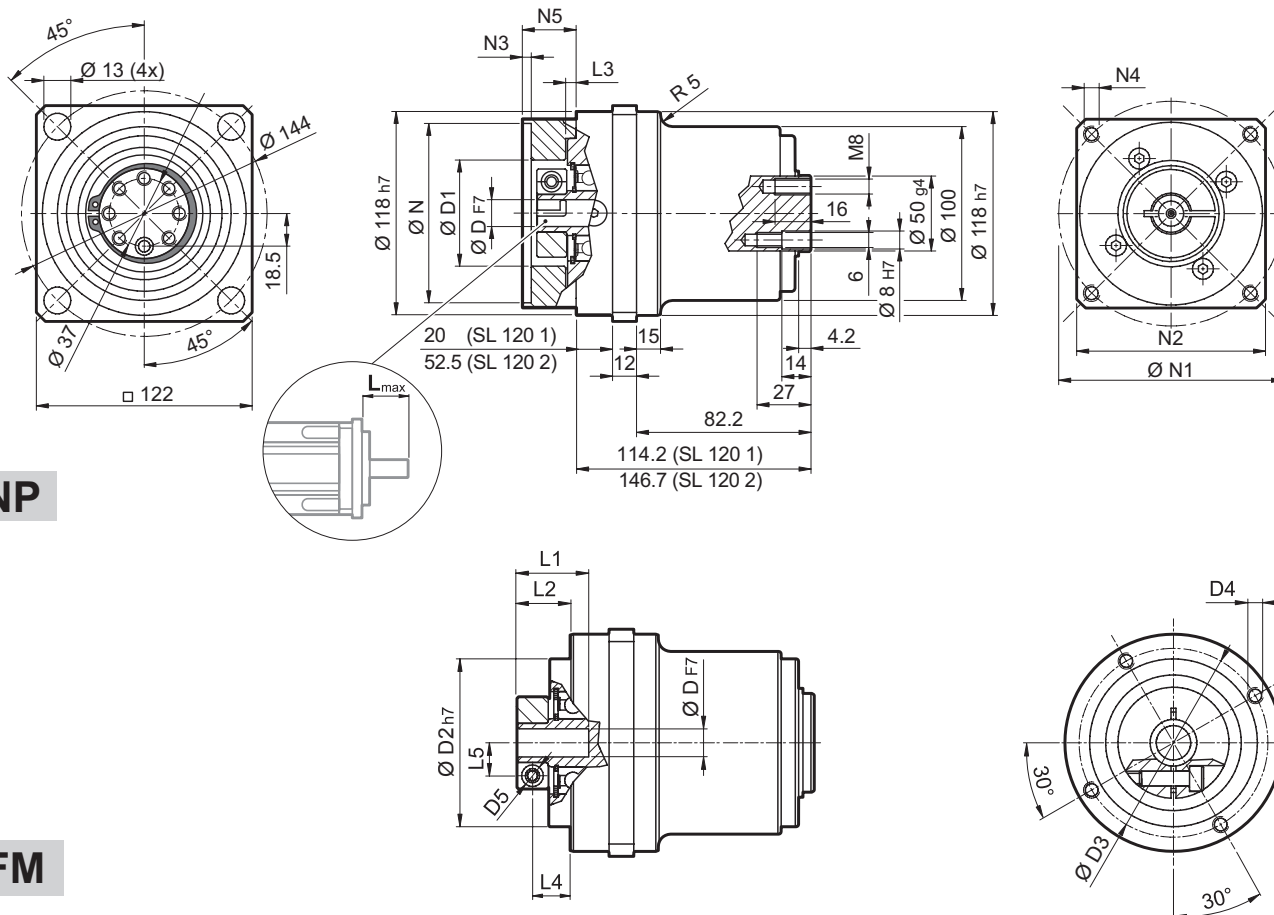
	Kg	
SL 120 1	8.4	2.6
SL 120 2	10.9	2.6

										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	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.



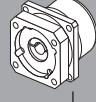
SL 120



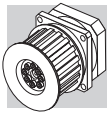
NP

FM

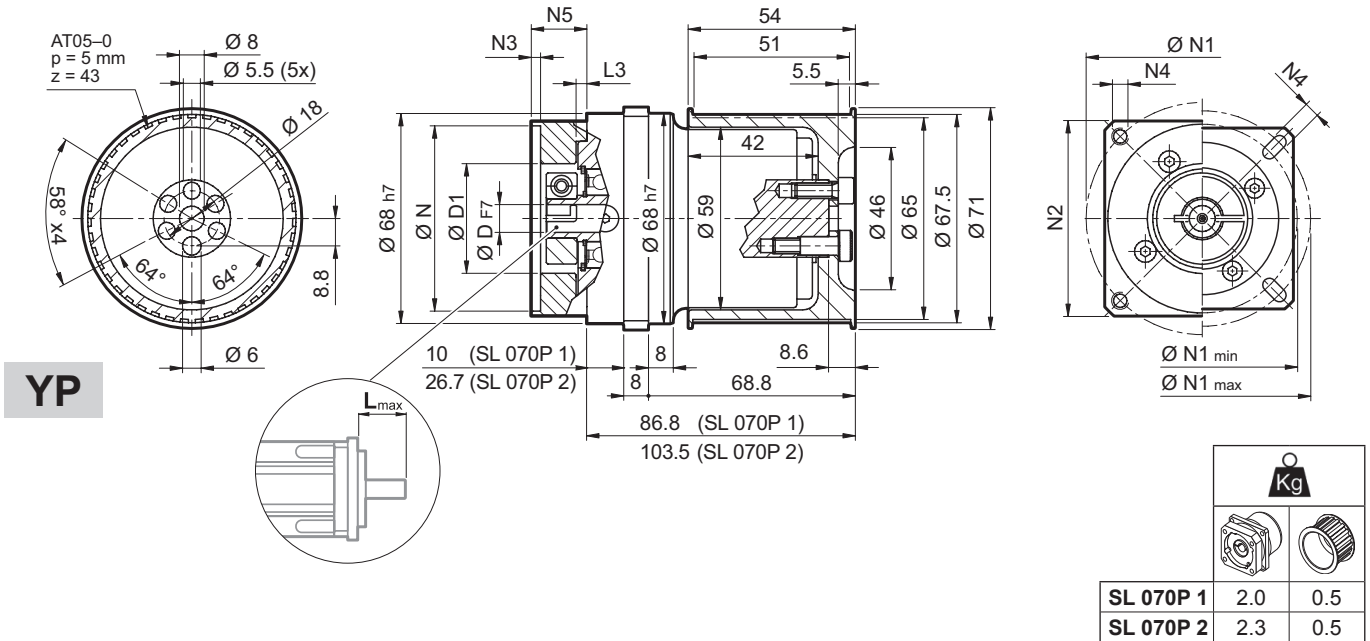
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15	15.875	16	48	90	98	M6x15	M6	33.5	20	7.6	12.5	14.5
19				51	90	98	M6x15	M6	33.5	20	7.6	12.5	16.5
22	24			56.5	90	98	M6x15	M6	36.5	23	7.6	14	19
28				70	90	98	M6x15	M8	36.5	23	7.6	14	22.5
32				71	90	98	M6x15	M8	38	24.5	7.6	15.5	24.5

	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 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

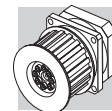


SL 070P

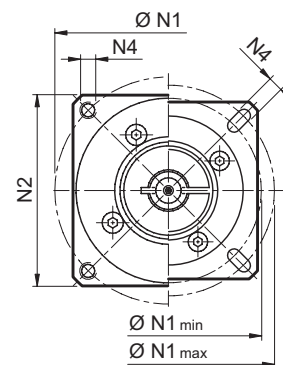
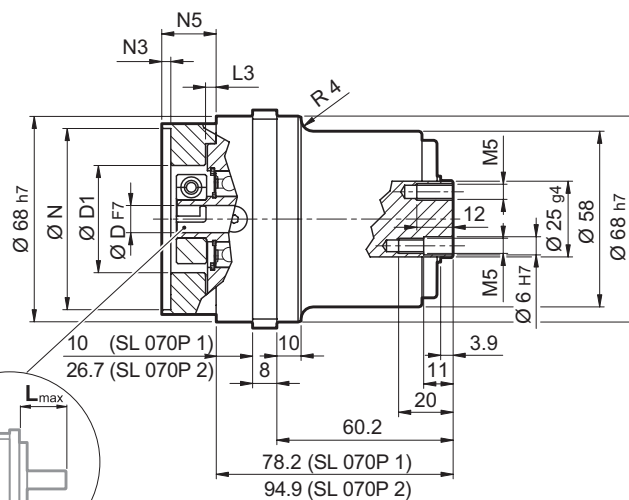
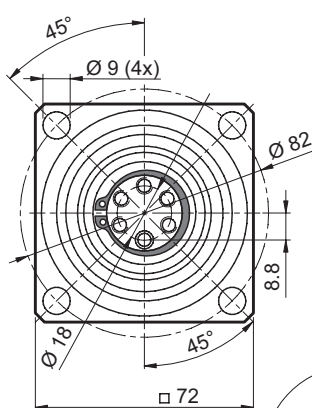


	D										N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56					
34AH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

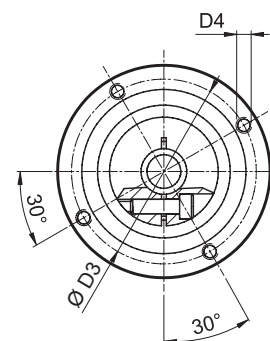
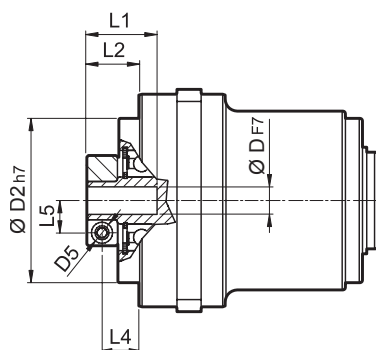
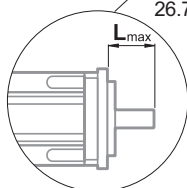
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



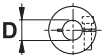
SL 070P



NP

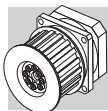


FM

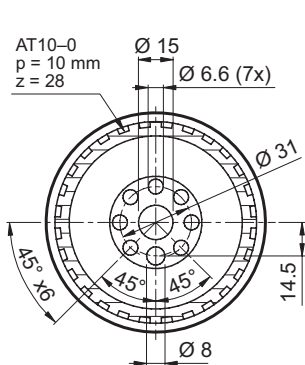
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6.35	7			32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5

	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		25	40	70	3500	5000	12'	6'	6.5	3500	1600	97	0.07	0.09	
SL 070P 1_7		25	40	70	4000	5000	12'	6'	6.5	3500	1600	97	0.05	0.07	
SL 070P 1_10		18	30	60	4000	6000	12'	6'	6.5	3500	1600	97	0.04	0.06	
SL 070P 2_9		29	55	60	3300	4000	15'	8'	6	3500	1600	94	0.11	0.13	
SL 070P 2_12		29	55	70	3300	4000	15'	8'	6	3500	1600	94	0.10	0.13	
SL 070P 2_15		29	55	70	3300	4000	15'	8'	6	3500	1600	94	0.10	0.12	
SL 070P 2_16		30	45	70	3500	5000	15'	8'	6	3500	1600	94	0.07	0.09	
SL 070P 2_20		30	45	70	3500	5000	15'	8'	6	3500	1600	94	0.06	0.08	
SL 070P 2_25		30	45	70	3500	5000	15'	8'	6	3500	1600	94	0.06	0.08	
SL 070P 2_28		30	45	70	4000	6000	15'	8'	6	3500	1600	94	0.05	0.07	
SL 070P 2_30		29	55	60	4000	6000	15'	8'	6	3500	1600	94	0.04	0.06	
SL 070P 2_35		30	45	70	4000	6000	15'	8'	6	3500	1600	94	0.05	0.07	
SL 070P 2_40		30	45	70	4000	6000	15'	8'	6	3500	1600	94	0.04	0.06	
SL 070P 2_50		30	45	70	4000	6000	15'	8'	6	3500	1600	94	0.04	0.06	
SL 070P 2_70		30	45	70	4000	6000	15'	8'	6	3500	1600	94	0.04	0.06	
SL 070P 2_100		18	30	60	4000	6000	15'	8'	6	3500	1600	94	0.04	0.06	

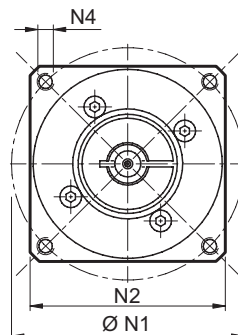
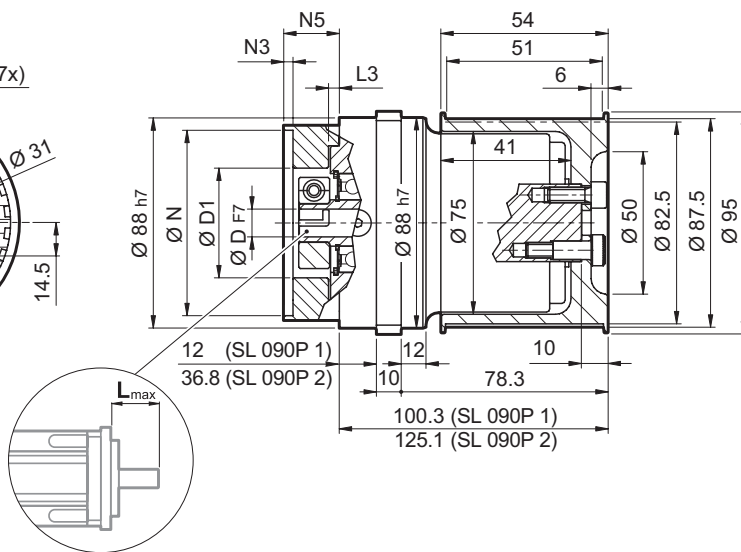
* Applicabile nell'uso con puleggia dentata



SL 090P



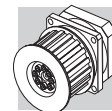
YP



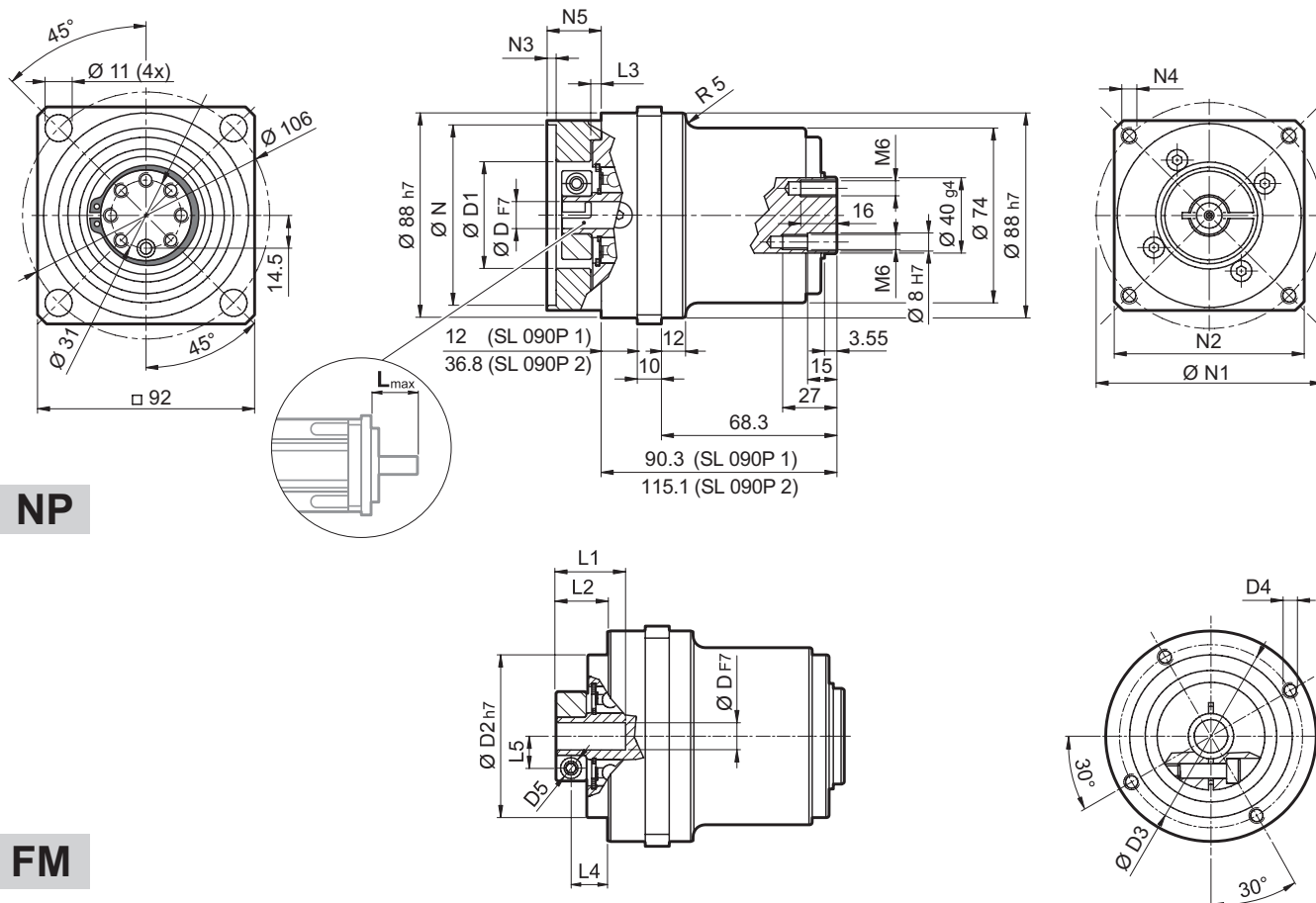
	Kg	
SL 090P 1	3.6	0.8
SL 090P 2	4.7	0.8

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

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



SL 090P



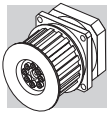
NP

FM

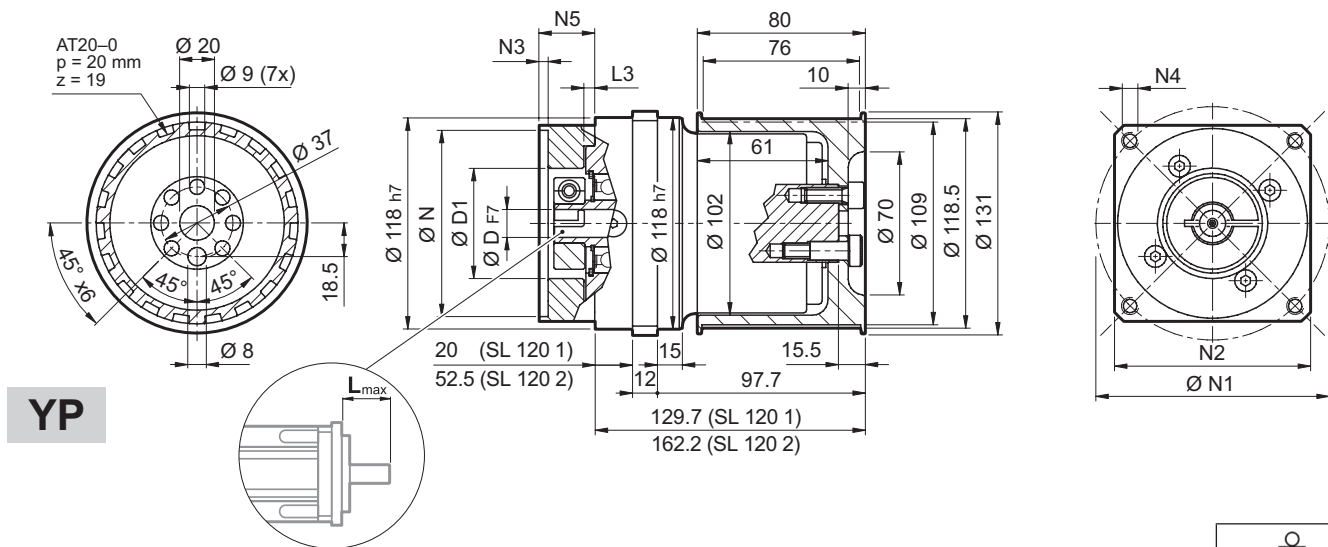
					D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
9	9.52				38	68	76.5	M6x10	M6	34	26.8	9.5	18.8	10.5
11	12	12.7			52	68	76.5	M6x10	M6	34	26.8	9.5	18.8	12.5
14	15.875	16	17		48	68	76.5	M6x10	M6	34	26.8	9.5	18.8	14.5
19	19.05				51	68	76.5	M6x10	M6	34	26.8	9.5	18.8	16.5

	i	M _{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	70	150	4000	6000	12'	6'	12	4500	2000	97	0.27	0.35	
SL 090P 2_9		65	120	150	3500	4000	15'	8'	11.5	4500	2000	94	0.47	0.61	
SL 090P 2_12		65	120	160	3500	4000	15'	8'	11.5	4500	2000	94	0.44	0.58	
SL 090P 2_15		65	120	160	3500	4000	15'	8'	11.5	4500	2000	94	0.43	0.57	
SL 090P 2_16		60	110	160	3500	4500	15'	8'	11.5	4500	2000	94	0.31	0.45	
SL 090P 2_20		60	110	160	3500	4500	15'	8'	11.5	4500	2000	94	0.26	0.40	
SL 090P 2_25		50	100	160	3200	4500	15'	8'	11.5	4500	2000	94	0.26	0.40	
SL 090P 2_28		50	100	160	4000	6000	15'	8'	11.5	4500	2000	94	0.22	0.36	
SL 090P 2_30		65	120	150	4000	6000	15'	8'	11.5	4500	2000	94	0.20	0.34	
SL 090P 2_35		50	100	160	4000	6000	15'	8'	11.5	4500	2000	94	0.22	0.36	
SL 090P 2_40		60	110	160	4000	6000	15'	8'	11.5	4500	2000	94	0.20	0.34	
SL 090P 2_50		50	100	160	4000	6000	15'	8'	11.5	4500	2000	94	0.20	0.34	
SL 090P 2_70		50	100	160	4000	6000	15'	8'	11.5	4500	2000	94	0.20	0.34	
SL 090P 2_100		40	70	150	4000	6000	15'	8'	11.5	4500	2000	94	0.19	0.34	

* Applicabile nell'uso con puleggia dentata



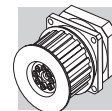
SL 120P



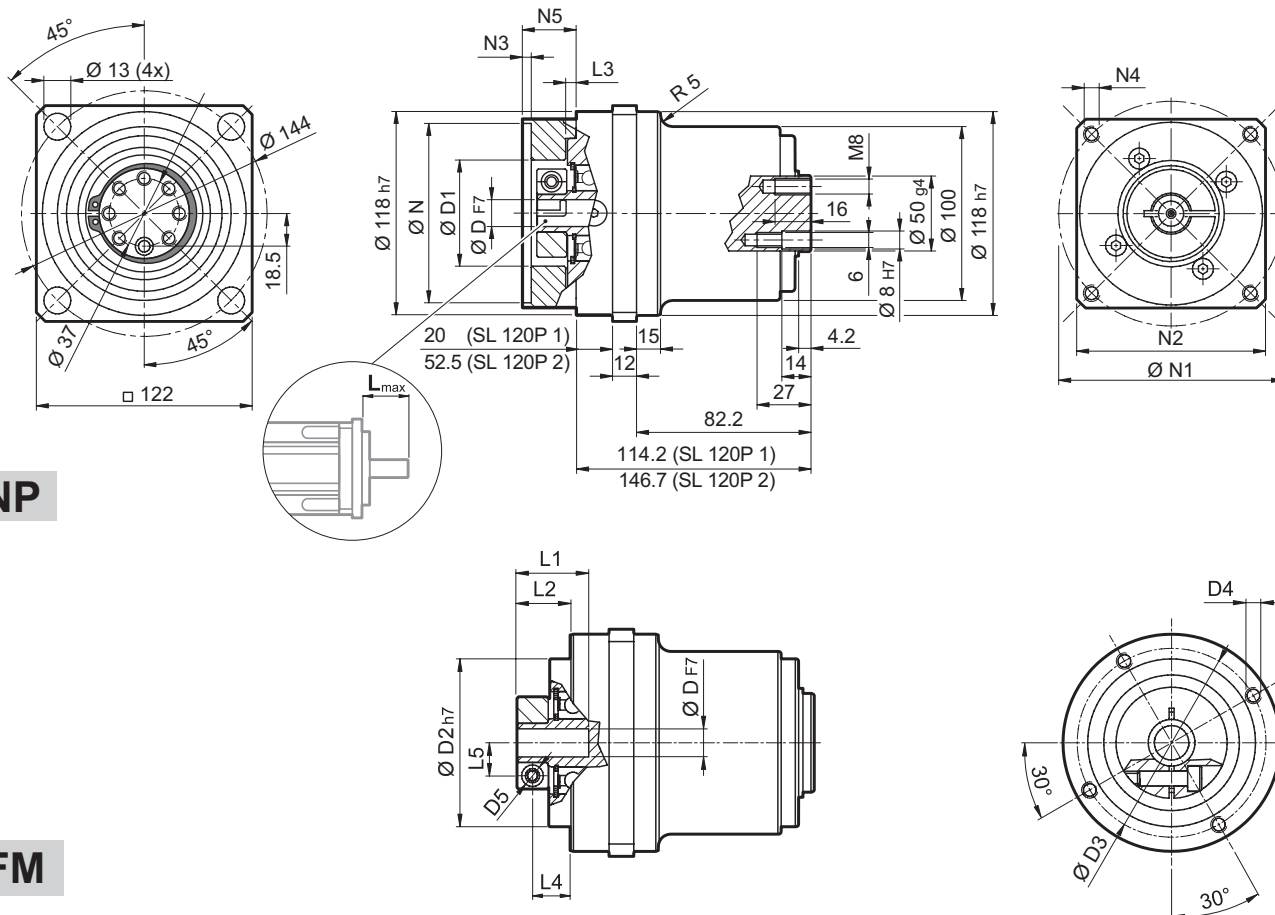
	Kg	
SL 120P 1	8.4	2.6
SL 120P 2	10.9	2.6

	D								N	N1	N2	N3	N4	N5	L _{max}
50D	14	15	15.875	16	19	-	-	-	50	95	100	5	M6x14	28	40
55A	14	15	15.875	16	19	-	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	14	15	15.875	16	19	-	-	-	60	75	100	5	M5x14	28	40
60AH2	14	15	15.875	16	19	-	-	-	60	75	100	5	6.5	33	40
60B1	14	15	15.875	16	19	-	-	-	60	85	100	6.5	M5x14	28	40
70A1	14	15	15.875	16	19	-	-	-	70	85	100	5	M6x14	28	40
70AH1	14	15	15.875	16	19	-	-	-	70	85	100	5	6	33	40
70B1	14	15	15.875	16	19	-	-	-	70	90	100	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	130	165	140	6.5	M10x25	48	60

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



SL 120P



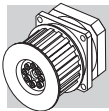
NP

FM

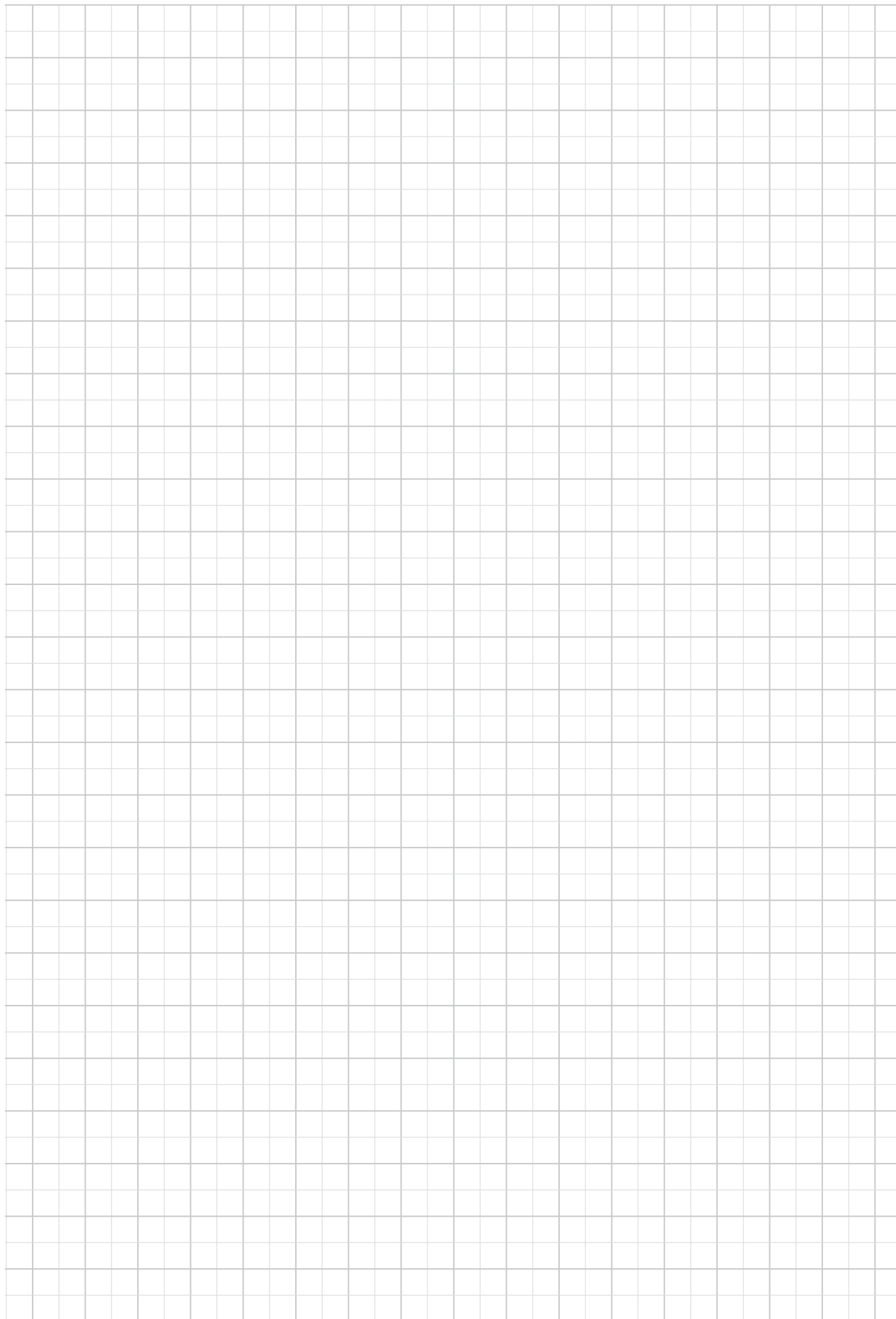
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15	15.875	16	48	90	98	M6x15	M6	33.5	20	7.6	12.5	14.5
19				51	90	98	M6x15	M6	33.5	20	7.6	12.5	16.5
22	24			56.5	90	98	M6x15	M6	36.5	23	7.6	14	19
28				70	90	98	M6x15	M8	36.5	23	7.6	14	22.5
32				71	90	98	M6x15	M8	38	24.5	7.6	15.5	24.5

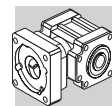
	i	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_S [arcmin]	φ_R [arcmin]	C_t [Nm/arcmin]	R_{2max}^* [N]	A_{2max} [N]	η %	J_G [kgcm ²]			
													14 ... 19	22 ; 24	28 ; 32	
SL 120P 1_3		155	280	300	3000	4000	12'	6'	45	10000	4500	97	2.18	2.81	3.25	50.62
SL 120P 1_4		155	300	360	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	160	300	3500	5000	12'	6'	45	10000	4500	97	0.49	1.11	1.55	
SL 120P 2_9		155	280	300	3000	4000	15'	8'	40	10000	4500	94	1.61	2.20	2.57	
SL 120P 2_12		155	300	360	3000	4000	15'	8'	40	10000	4500	94	1.51	2.10	2.47	
SL 120P 2_15		155	300	360	3000	4000	15'	8'	40	10000	4500	94	1.47	2.06	2.43	
SL 120P 2_16		155	300	360	3000	4500	15'	8'	40	10000	4500	94	0.92	1.52	1.88	
SL 120P 2_20		155	300	360	3000	4500	15'	8'	40	10000	4500	94	0.90	1.50	1.86	
SL 120P 2_25		125	240	360	3000	4500	15'	8'	40	10000	4500	94	0.71	1.30	1.67	
SL 120P 2_28		125	240	360	3500	5000	15'	8'	40	10000	4500	94	0.54	1.13	1.50	
SL 120P 2_30		155	300	300	3500	5000	15'	8'	40	10000	4500	94	0.44	1.04	1.40	
SL 120P 2_35		125	240	360	3500	5000	15'	8'	40	10000	4500	94	0.53	1.13	1.49	
SL 120P 2_40		155	300	360	3500	5000	15'	8'	40	10000	4500	94	0.43	1.03	1.39	
SL 120P 2_50		125	240	360	3500	5000	15'	8'	40	10000	4500	94	0.43	1.02	1.39	
SL 120P 2_70		125	240	360	3500	5000	15'	8'	40	10000	4500	94	0.42	1.02	1.38	
SL 120P 2_100		100	160	300	3500	5000	15'	8'	40	10000	4500	94	0.42	1.02	1.38	

* Applicabile nell'uso con puleggia dentata



TS



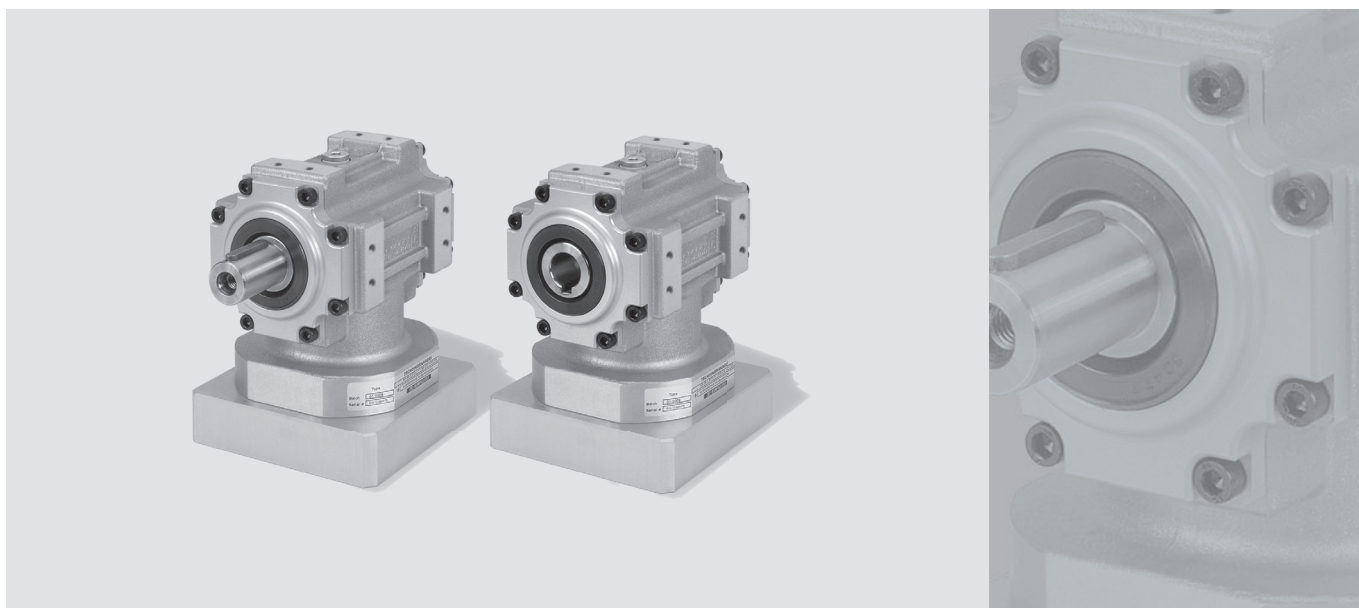


KR

RIDUTTORE ORTOGONALE DI PRECISIONE

Soluzione flessibile, efficiente ed economicamente vantaggiosa per applicazioni che richiedono azionamenti ortogonali con ingombro ridotto e gioco minimo.

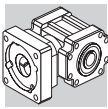
Disponibile in svariate versioni con differenti configurazioni di ingresso e uscita.



Caratteristiche di prodotto:

- Dinamicità, compattezza e precisione in una combinazione perfetta
- Progettato per funzionamenti ciclici e continuativi
- Buona rigidezza torsionale
- Gioco di precisione ≤ 8 arcmin

KR



10 CARATTERISTICHE DELLA SERIE KR

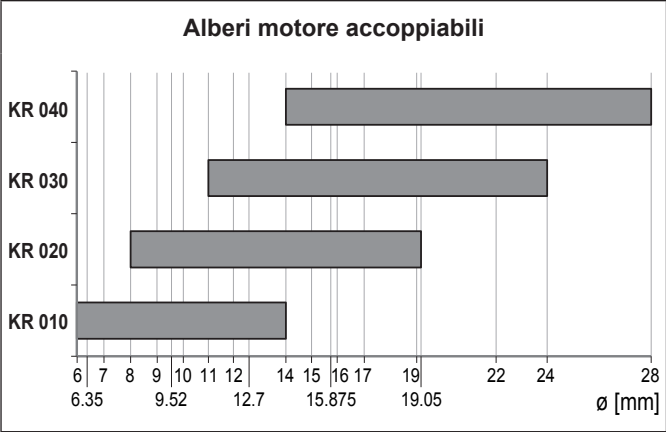
I rinvii angolari della serie KR sono realizzati sotto le più stringenti specifiche di qualità e sono progettati per le applicazioni dinamiche e precise dove il peso e l'ingombro sono fattori determinanti. L'installazione è facilitata dalle molte opzioni offerte dal catalogo per quanto riguarda le flange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

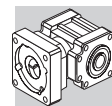
- Disponibile in un'unica classe di gioco angolare ($\Psi_S \leq 8'$)
- Rapporti di trasmissione $i = 1, 2, 5$
- Cuscinetti radiali a sfere (SB) fanno parte della configurazione standard del prodotto, mentre cuscinetti del tipo a rulli conici (HB) possono essere specificati in opzione per applicazioni 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 $n_1=3000$ min⁻¹; $i=10$.
- Lubrificazione ottimale in funzione del tipo di servizio specificato. In assenza di contaminazione dall'esterno il lubrificante adottato non richiede sostituzioni periodiche.

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

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

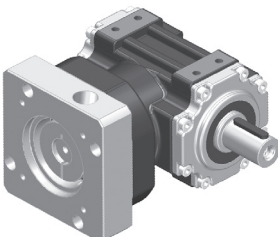
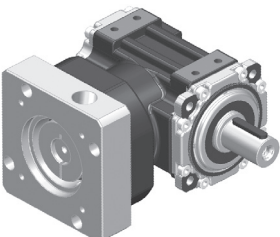
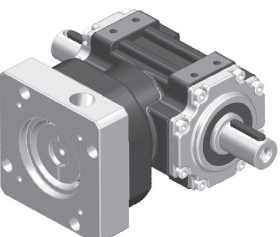
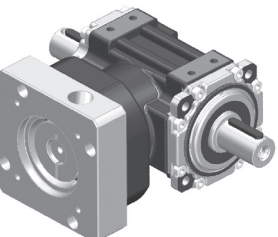
Distribuzione coppia nominale		M_{n2} [Nm]		
	[i]	1	2	5
KR 010		10	7	3
KR 020		24	15	10
KR 030		55	37	22
KR 040		120	85	45



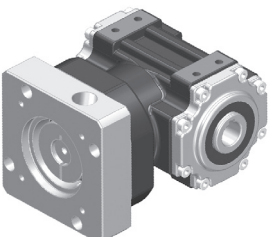
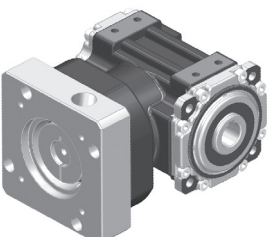
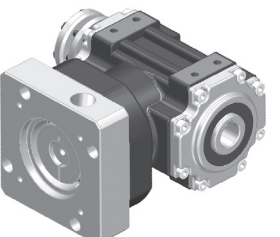
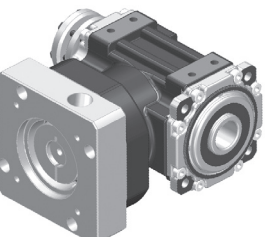


10.1 VERSIONI

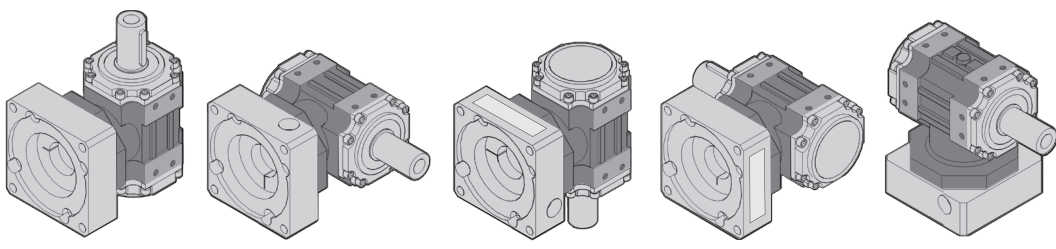
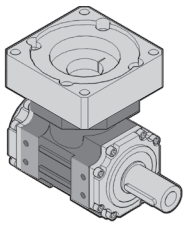
Albero pieno

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

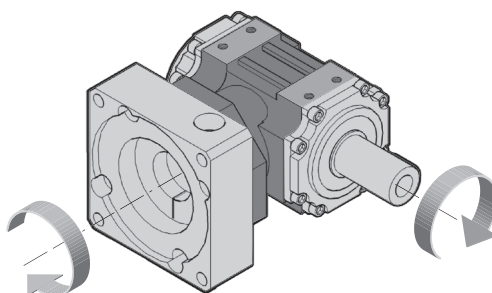
Albero cavo

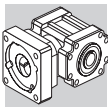
H	HF	S	SF
			
con linguetta (KR 030...KR 040)	con linguetta + flangia (KR 030...KR 040)	con giunto calettatore	con giunto calettatore + flangia

10.2 POSIZIONI DI MONTAGGIO

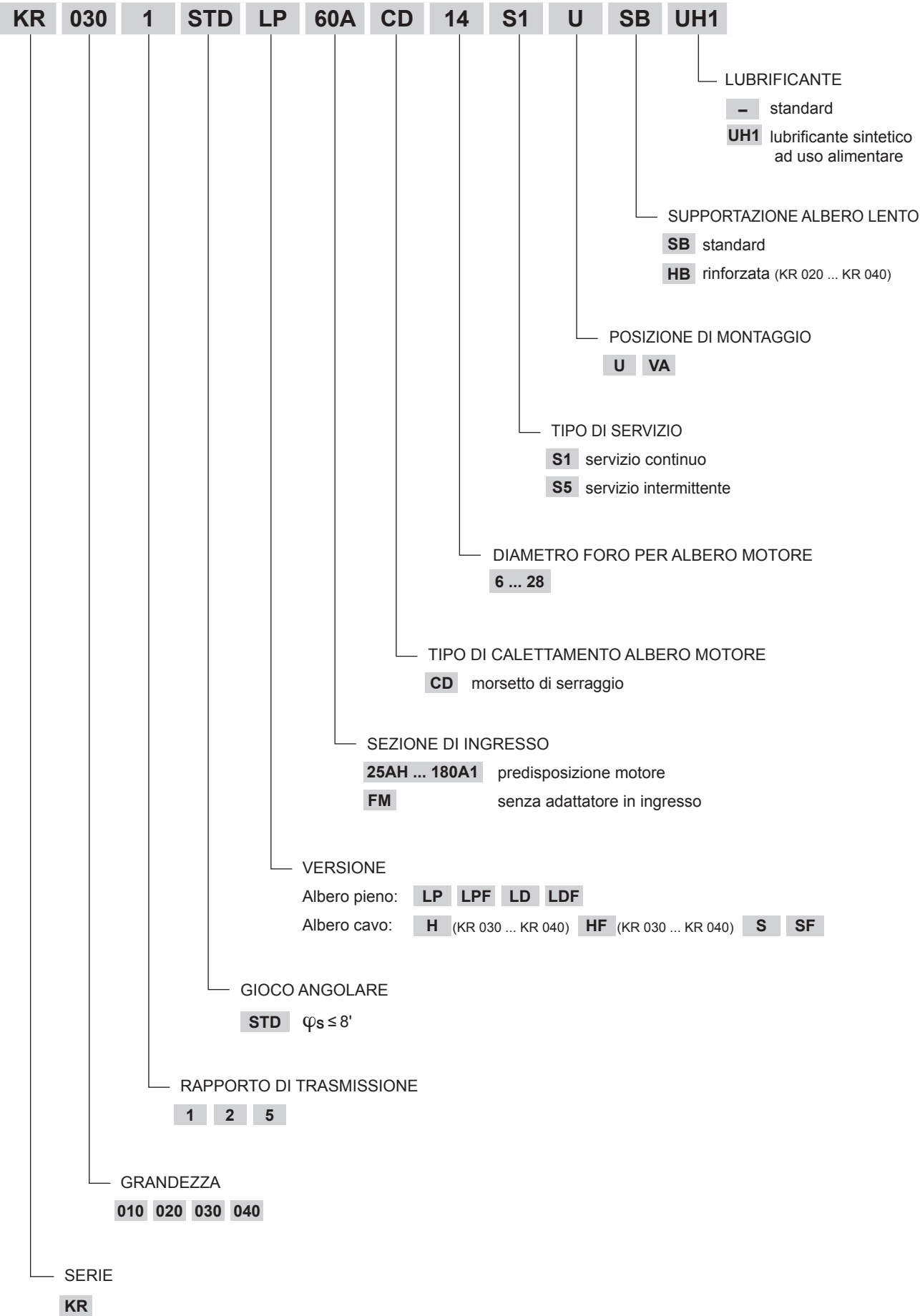
U	VA
	

10.3 ROTAZIONE DEGLI ALBERI D'INGRESSO E DI USCITA CONCORDE

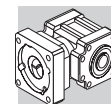




10.4 CODICE ORDINATIVO



KR



10.5 DATI TECNICI

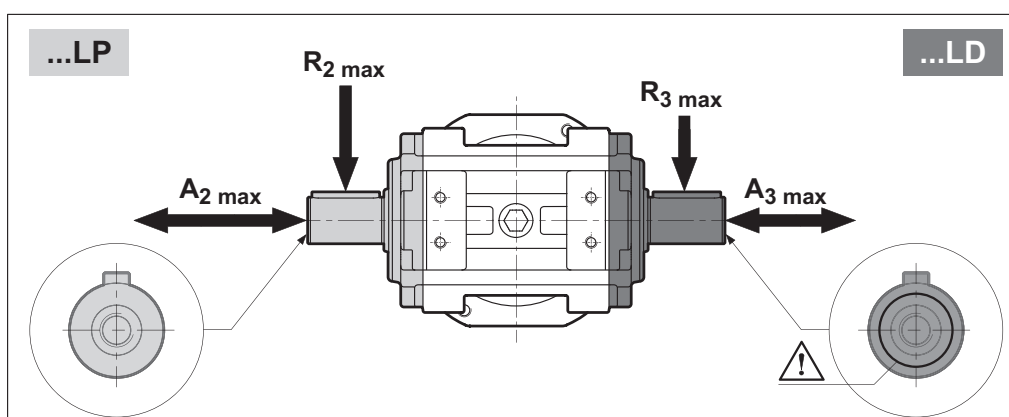
KR 010								
	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	C_t [$\frac{Nm}{arcmin}$]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_s [arcmin]	η %
i = 1	10	14	20	0.5	2000	4000	8'	97
i = 2	7	10	15	0.4	2500	5000		
i = 5	3	4	6	0.2	3000	5000		

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		

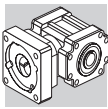
KR 030								
	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	C_t [$\frac{Nm}{arcmin}$]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_s [arcmin]	η %
i = 1	55	75	110	4	1500	3500	8'	97
i = 2	37	52	75	3	2000	4500		
i = 5	22	29	45	2	2800	4500		

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						



10.6 MOMENTO D'INERZIA

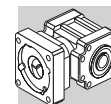
10.6.1 KR 010...KR 040 con cuscinetti standard a sfere - SB

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

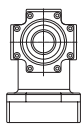
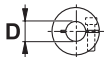
KR 020			
		J_G [kgcm ²]	
			
		$8 \leq D \leq 12.7$	$14 \leq D \leq 19.05$
$i = 1$	S, SF	1.61	1.80
	LP, LPF	1.34	1.52
	LD, LDF	1.37	1.55
$i = 2$	S, SF	0.86	1.05
	LP, LPF	0.80	0.98
	LD, LDF	0.80	0.99
$i = 5$	S, SF	0.66	0.84
	LP, LPF	0.64	0.83
	LD, LDF	0.65	0.83

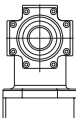
KR 030				
		J_G [kgcm ²]		
				
		$11 \leq D \leq 12.7$	$14 \leq D \leq 19$	$22 \leq D \leq 24$
$i = 1$	H, HF	4.37	4.45	4.64
	S, SF	5.00	5.08	5.27
	LP, LPF	4.70	4.78	4.97
	LD, LDF	4.63	4.71	4.90
$i = 2$	H, HF	2.04	2.12	2.31
	S, SF	2.20	2.28	2.47
	LP, LPF	2.12	2.20	2.39
	LD, LDF	2.11	2.19	2.37
$i = 5$	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

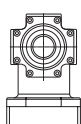
KR 040			
		J_G [kgcm ²]	
			
		$14 \leq D \leq 19$	$22 \leq D \leq 24$
$i = 1$	H, HF	17.19	17.37
	S, SF	20.46	20.65
	LP, LPF	18.21	18.40
	LD, LDF	18.90	19.08
$i = 2$	H, HF	4.47	4.65
	S, SF	5.29	5.47
	LP, LPF	4.73	4.91
	LD, LDF	4.90	5.08
$i = 5$	H, HF	5.23	5.42
	S, SF	5.36	5.55
	LP, LPF	5.27	5.46
	LD, LDF	5.30	5.49

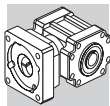


10.6.2 KR 020...KR 040 con cuscinetti a rulli conici - HB

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

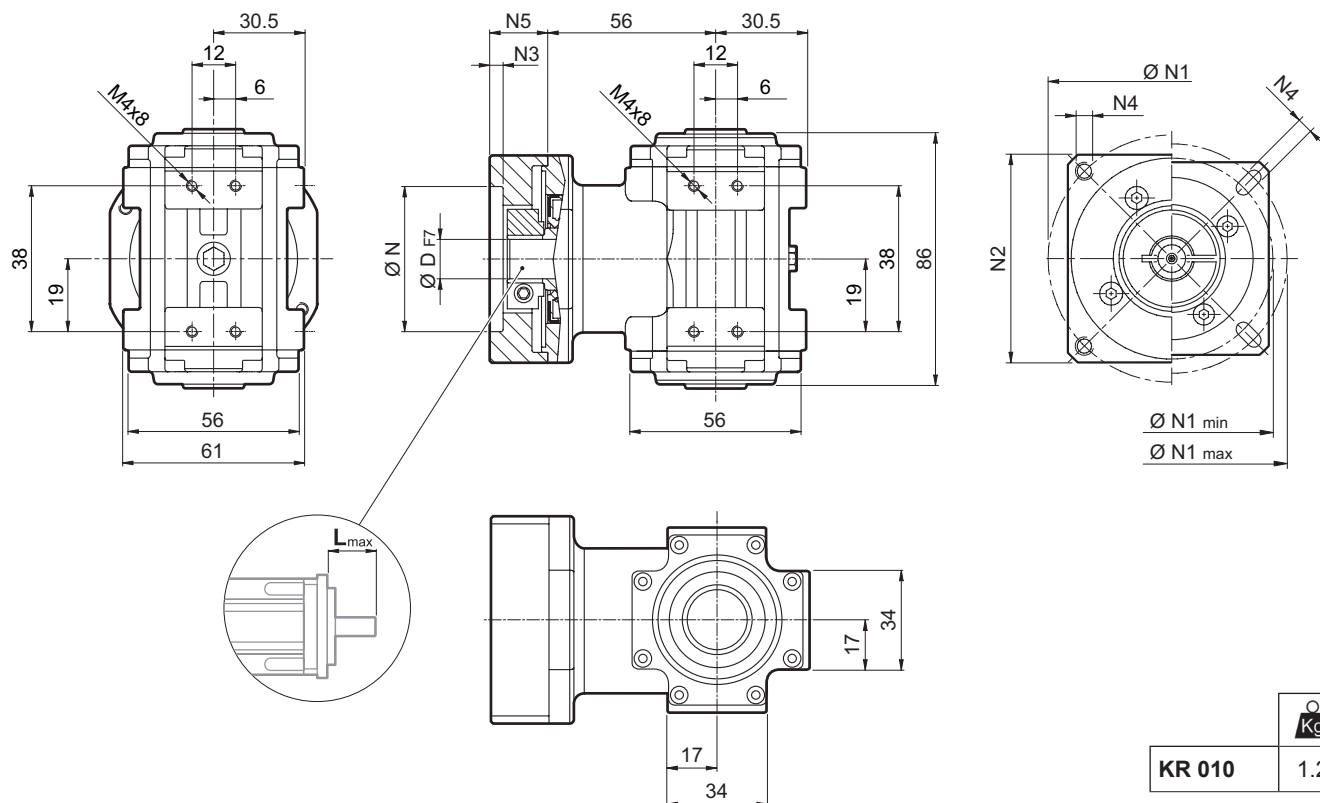
KR 040				
		J_G [kgcm ²]		
		 		
HB 		$14 \leq D \leq 19$	$22 \leq D \leq 24$	$D = 28$
i = 1	H, HF	18.82	19.01	19.41
	S, SF	22.10	22.28	22.69
	LP, LPF	19.85	20.04	20.44
	LD, LDF	20.53	20.72	21.12
i = 2	H, HF	4.88	5.06	5.47
	S, SF	5.70	6.28	6.28
	LP, LPF	5.13	5.72	5.72
	LD, LDF	5.31	5.89	5.89
i = 5	H, 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



10.7 DIMENSIONI

KR 010

25AH ... 80A



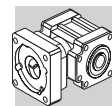
KR 010



1.2

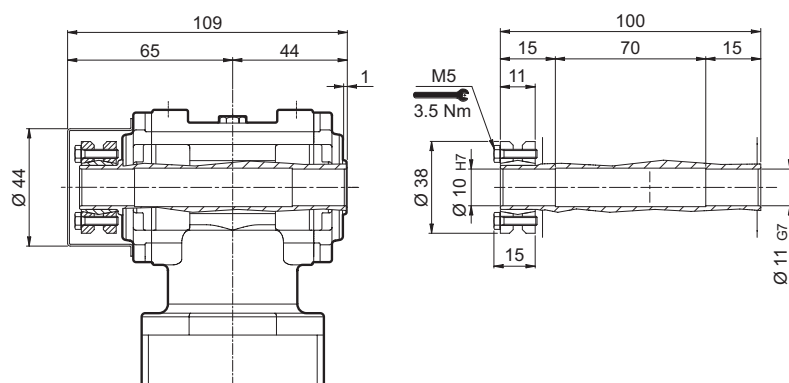
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56					
34AH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

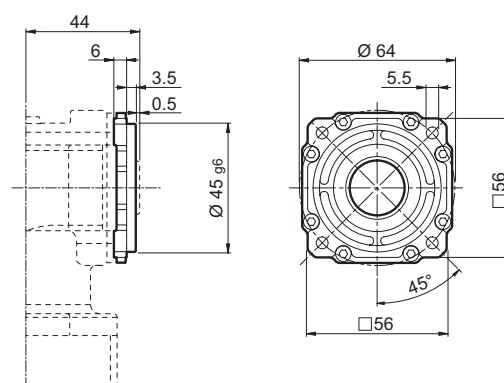


KR 010

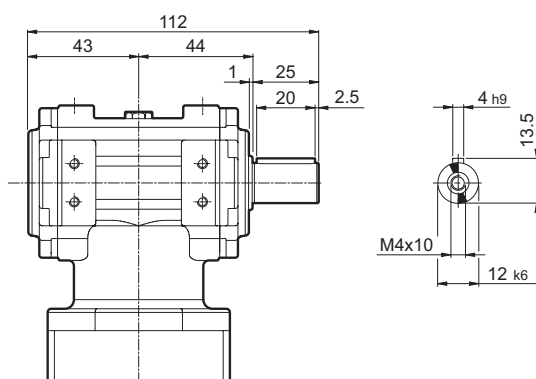
KR 010... S



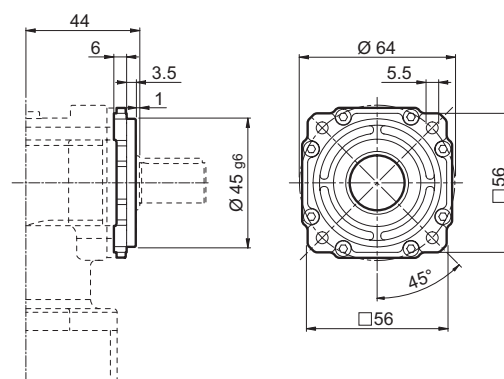
KR 010... SF



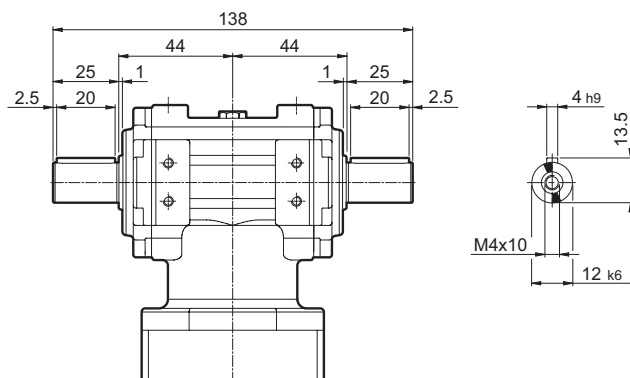
KR 010... LP



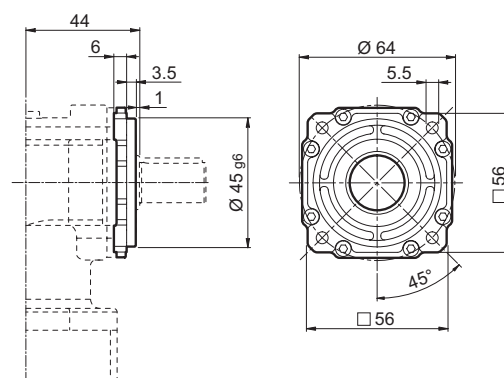
KR 010... LPF



KR 010... LD



KR 010... LDF





Technical drawing of the KR 020 hydraulic cylinder, showing four views and dimensions in mm.

Front View (Top Left): Shows the cylinder body with a total width of 76 mm and a height of 51 mm. The top flange has a width of 38 mm and a height of 13 mm. The main body has a width of 69 mm and a height of 25.5 mm. The mounting holes are spaced 6.5 mm apart. The rod end is labeled M5x8.

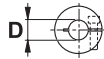
Side View (Top Middle): Shows the cylinder body with a total length of 104 mm. The main body has a length of 61 mm and a height of 25.5 mm. The end flange has a width of 13 mm and a height of 6.5 mm. The mounting holes are spaced 6.5 mm apart. The rod end is labeled M5x8.

End View (Top Right): Shows the cylinder body with a total width of 76 mm and a height of 51 mm. The top flange has a width of 38 mm and a height of 13 mm. The main body has a width of 69 mm and a height of 25.5 mm. The mounting holes are spaced 6.5 mm apart. The rod end is labeled M5x8.

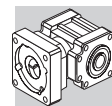
Detail View (Bottom Left): Shows the rod end with a dimension L_{max} indicating the maximum length of the rod.

Bottom View (Bottom Middle): Shows the cylinder body with a total width of 76 mm and a height of 51 mm. The top flange has a width of 38 mm and a height of 13 mm. The main body has a width of 69 mm and a height of 25.5 mm. The mounting holes are spaced 6.5 mm apart. The rod end is labeled M5x8.

Right View (Right): Shows the cylinder body with a total width of 76 mm and a height of 51 mm. The top flange has a width of 38 mm and a height of 13 mm. The main body has a width of 69 mm and a height of 25.5 mm. The mounting holes are spaced 6.5 mm apart. The rod end is labeled M5x8.

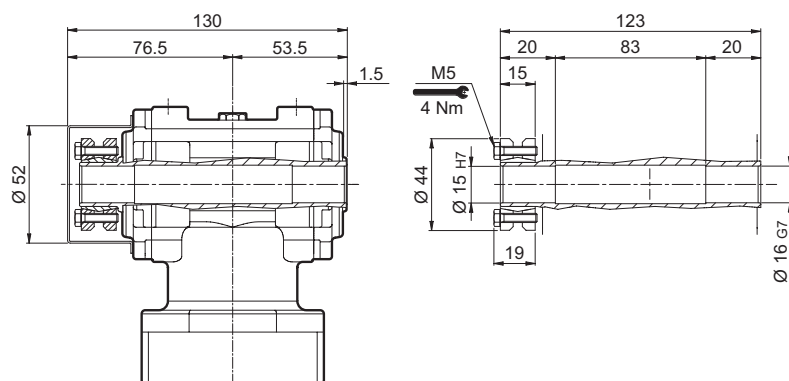
													N	N1	N2	N3	N4	N5	L _{max}
40B1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	40	63	80	4	M4x10	34	40
45A	8	9	9.52	11	12	12.7	—	—	—	—	—	—	45	63	80	4	M4x10	34	40
50B1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	M5x16	34	40
50BH1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	50	65	80	4	5.5	34	40
50C1	8	9	9.52	11	12	12.7	14	—	—	—	—	—	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

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Tecnoingranaggi

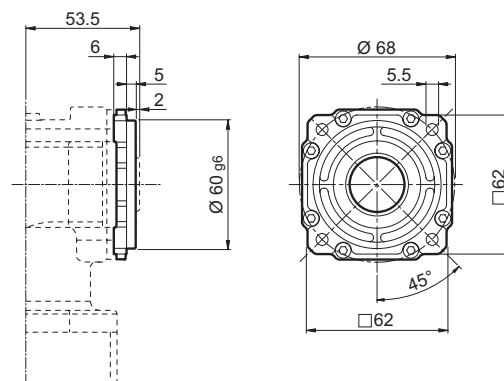


KR 020

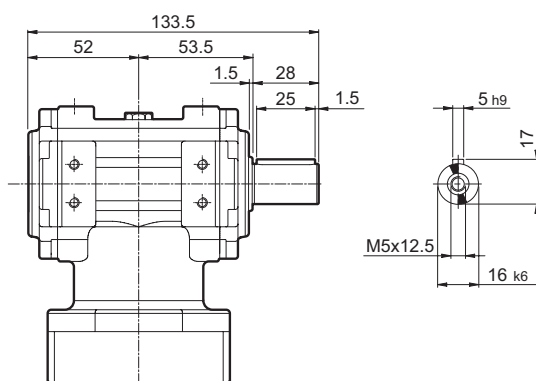
KR 020... S



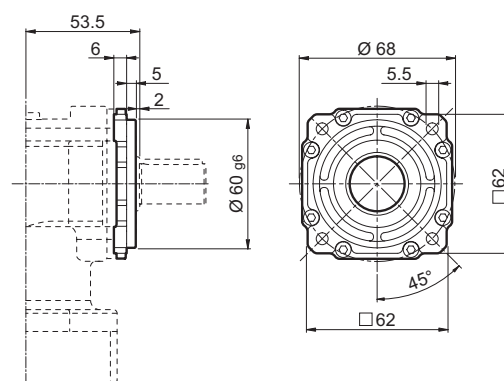
KR 020... SF



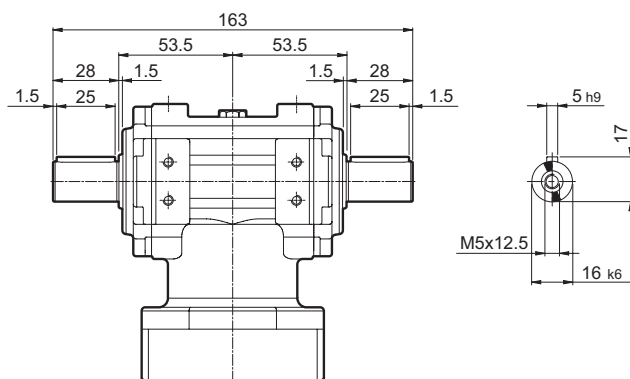
KR 020... LP



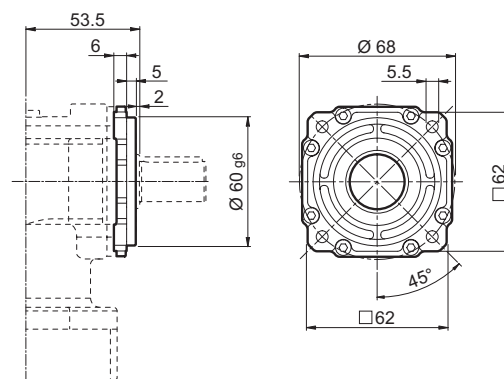
KR 020... LPF



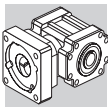
KR 020... LD



KR 020... LDF

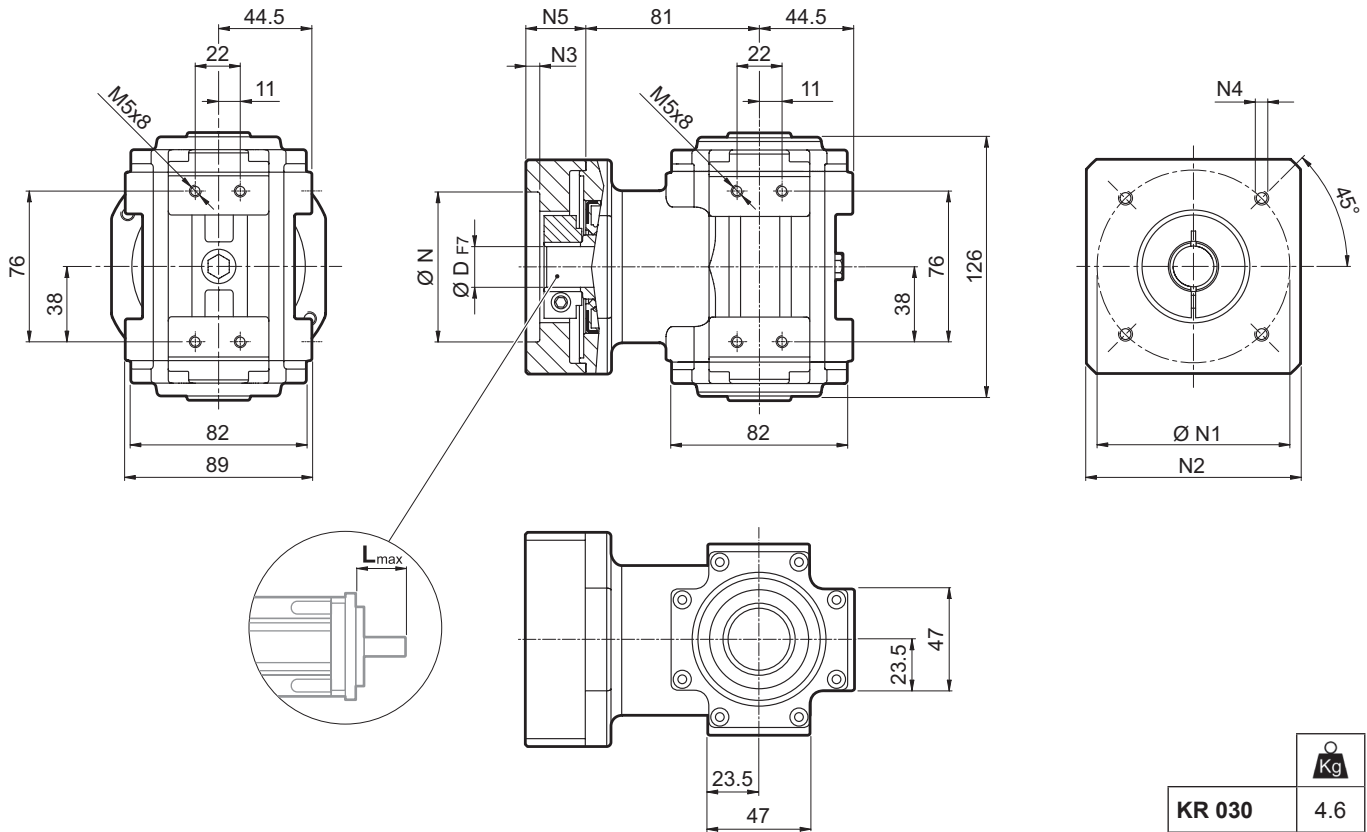


KR



KR 030

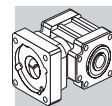
50D ... 130A1



KR 030	4.6

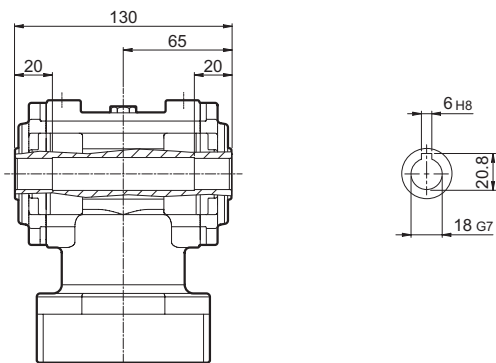
											N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	—	—	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	—	—	55.5	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	—	—	60	75	100	5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	—	—	60	75	100	5	6.5	33	40
60B1	11	12	12.7	14	15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

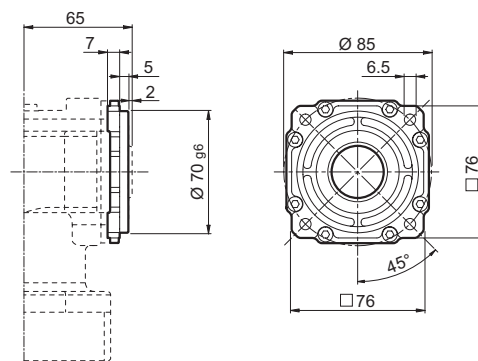


KR 030

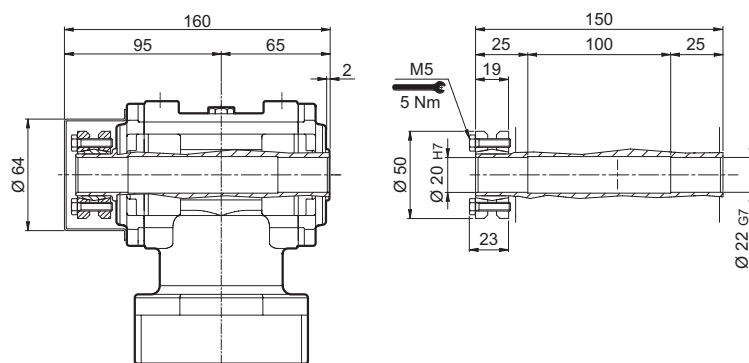
KR 030... H



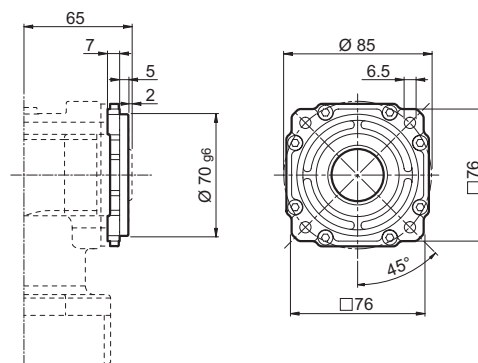
KR 030... HF



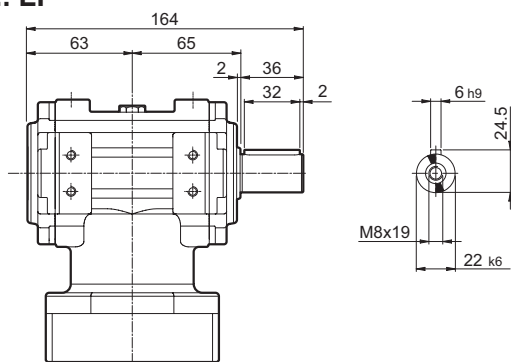
KR 030... S



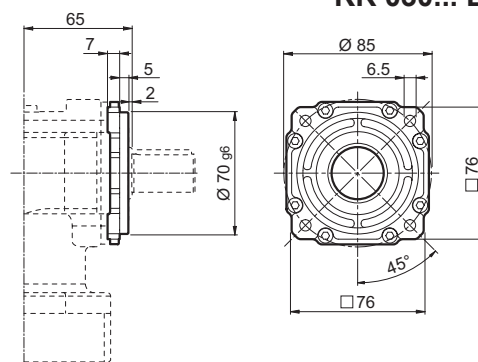
KR 030... SF



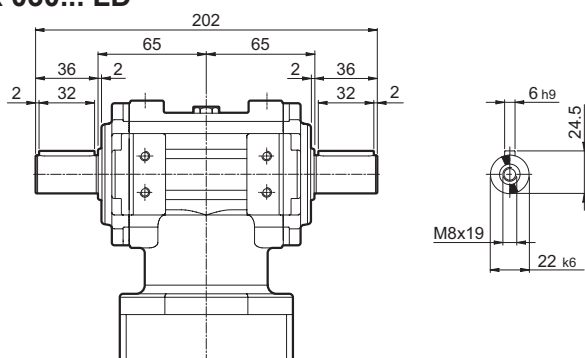
KR 030... LP



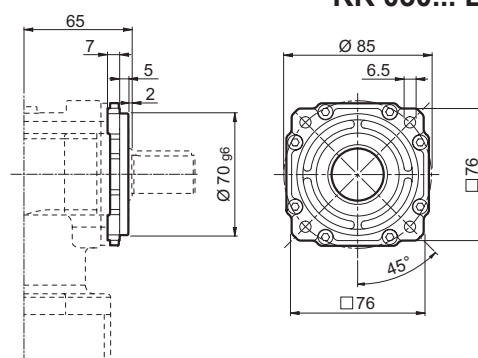
KR 030... LPF

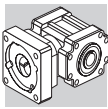


KR 030... LD



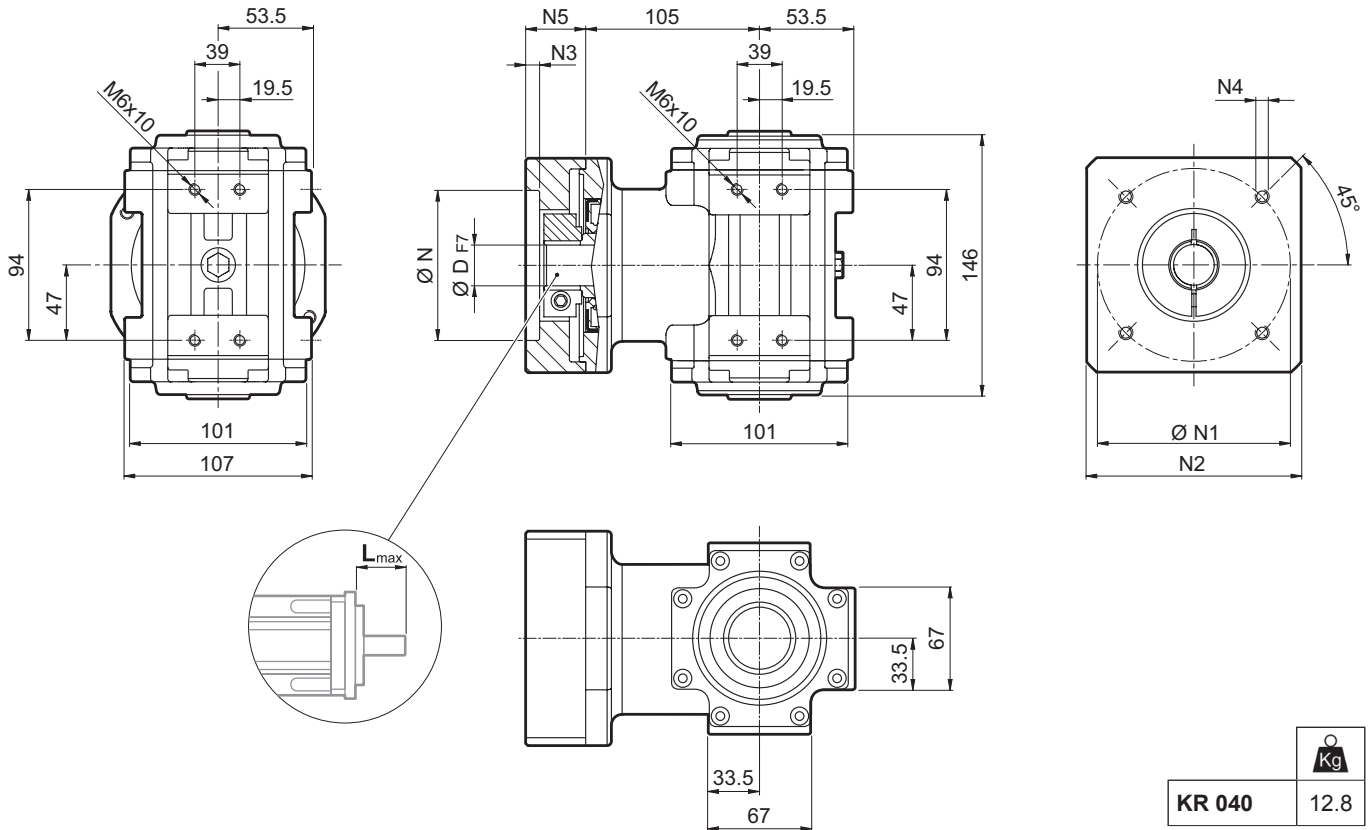
KR 030... LDF





KR 040

55A1 ... 180A1



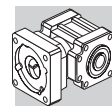
KR 040



12.8

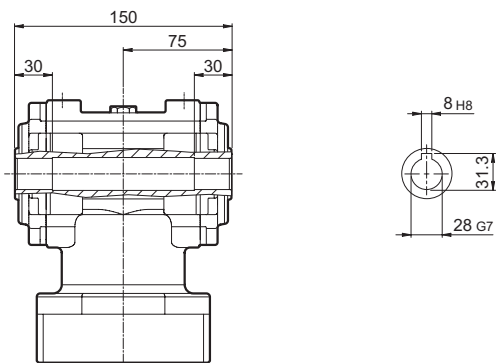
	D							N	N1	N2	N3	N4	N5	L _{max}
														
55A1	14	15.875	16	19	—	—	—	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	—	—	—	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	—	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	—	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24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

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

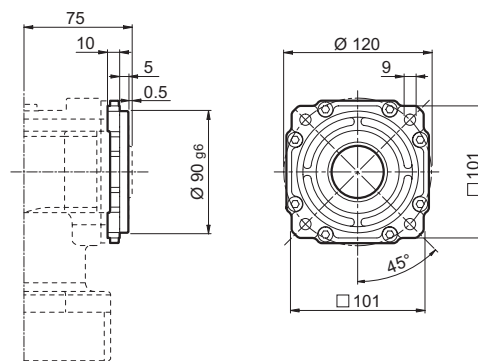


KR 040

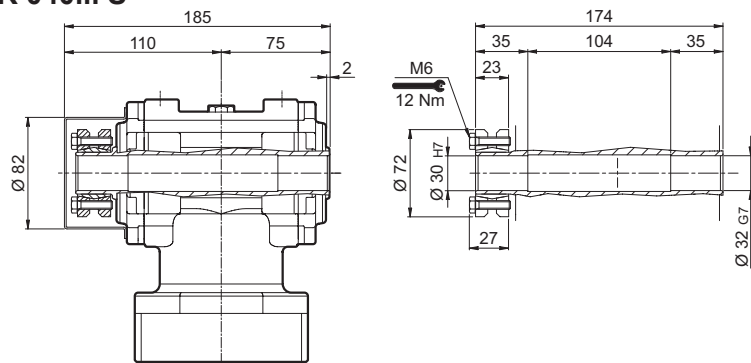
KR 040... H



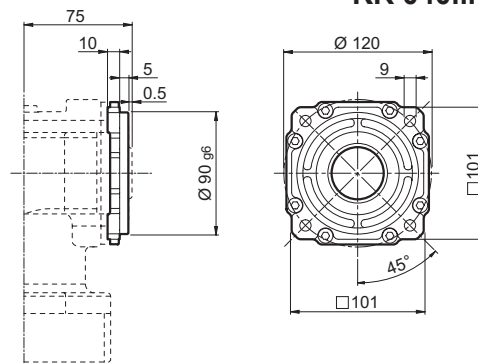
KR 040... HF



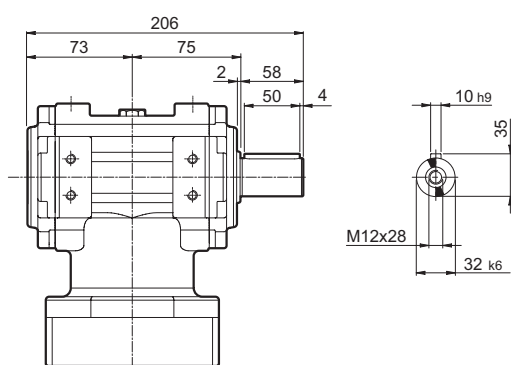
KR 040... S



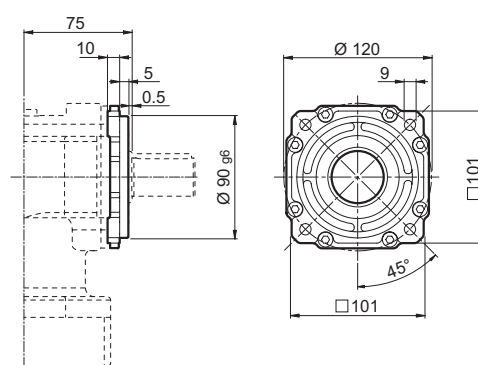
KR 040... SF



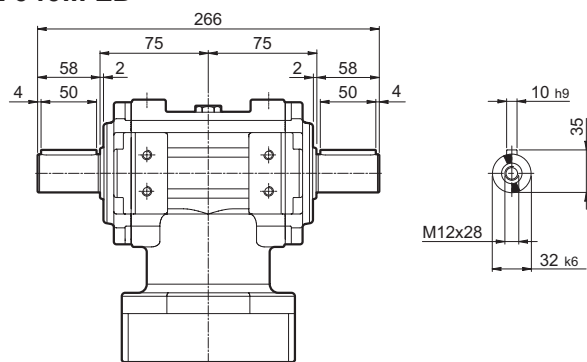
KR 040... LP



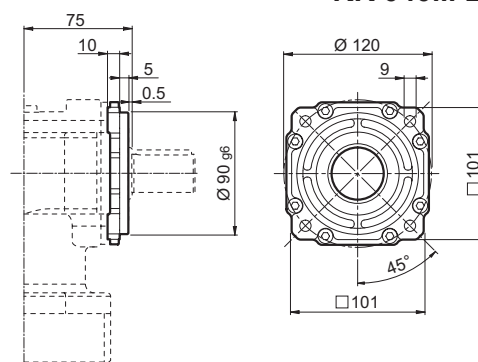
KR 040... LPF



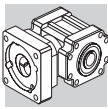
KR 040... LD



KR 040... LDF

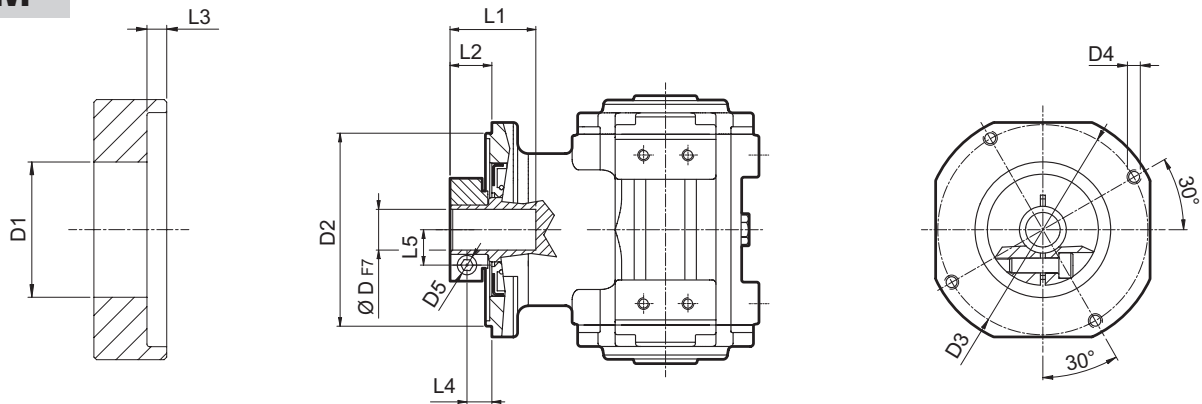


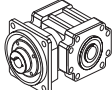
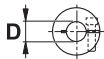
KR

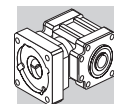


10.7.1 RIDUTTORE PRIVO DI FLANGIA MOTORE

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	

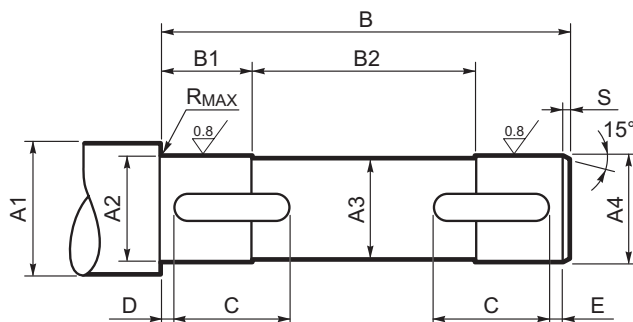


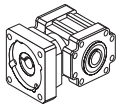
10.7.2 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE

Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Suggeriamo inoltre di completare il montaggio con un dispositivo che garantisca il bloccaggio assiale dell'albero (non illustrato).

Il numero e la dimensione del/i relativi fori all'estremità dell'albero saranno determinati dalle diverse esigenze applicative.

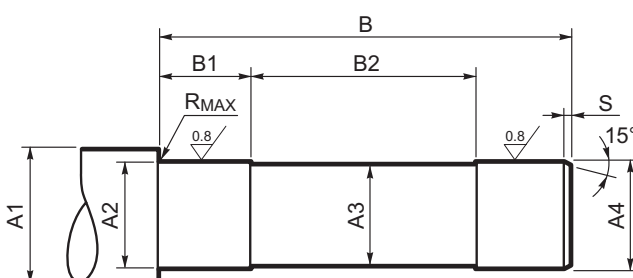
H

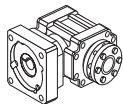


	A1	A2	A3	A4	B	B1	B2	C	D	E	R _{MAX}	 UNI 6604	S
KR 030	≥ 26	18 h7	17	18 h7	129	18	90	32	2	2	0.5	6x6x25 A	1
KR 040	≥ 36	28 h7	27	28 h7	149	28	90	50	2	2	0.5	8x7x35 A	

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

S



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



INDICE DI REVISIONE (R)

	TI_CAT_TIR_STD_ITA_R03_0
	Descrizione
...	Rivisti alcuni dati tecnici

2016 06 20

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

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