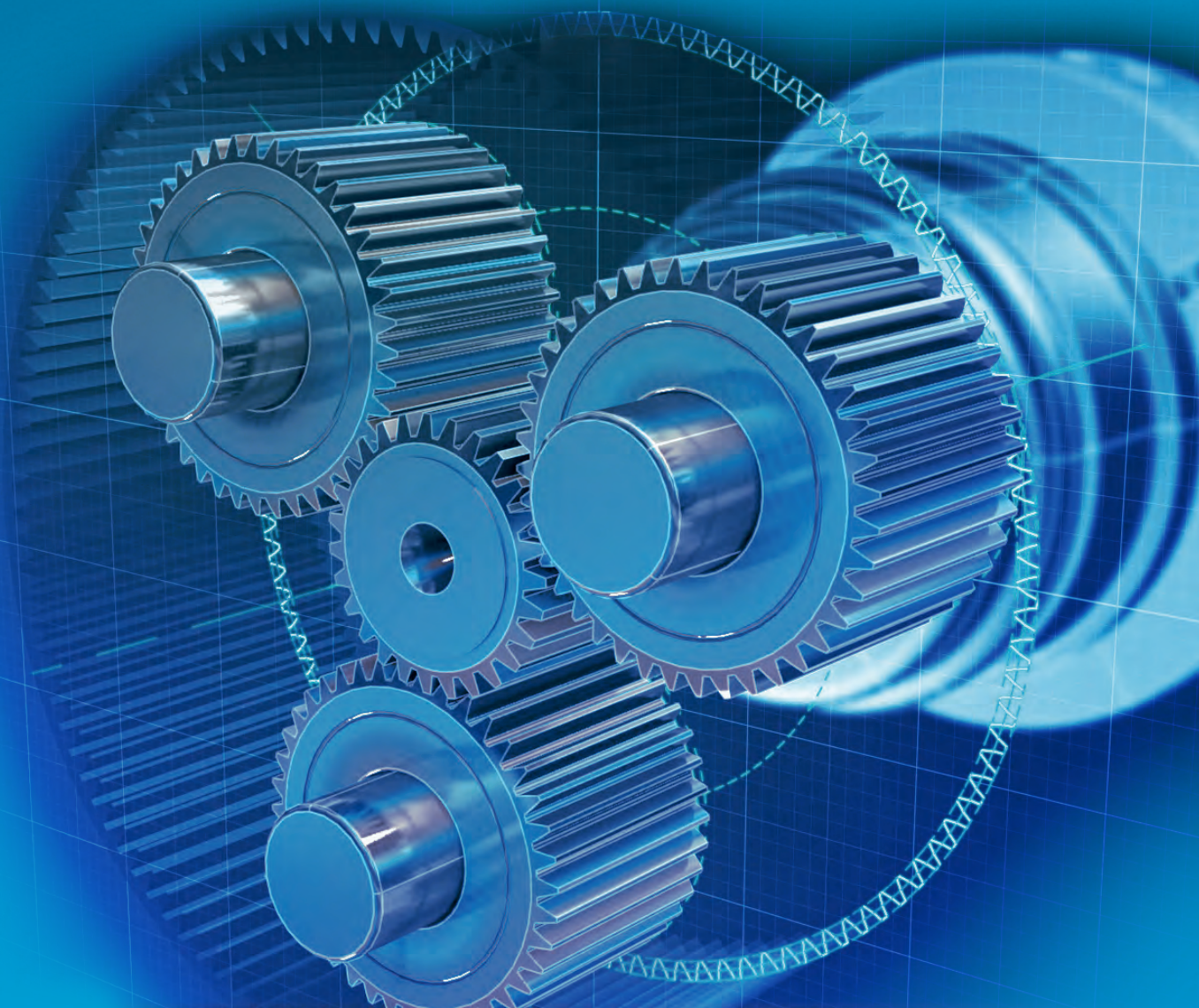


 **Bonfiglioli**
Tecnoingranaggi

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

Riduttori epiciclodali a gioco ridotto



 **Bonfiglioli**
Forever Forward

Bonfiglioli solutions



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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.



MECCATRONICA - LA SFIDA PER COSTRUIRE IL VOSTRO SUCCESSO

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

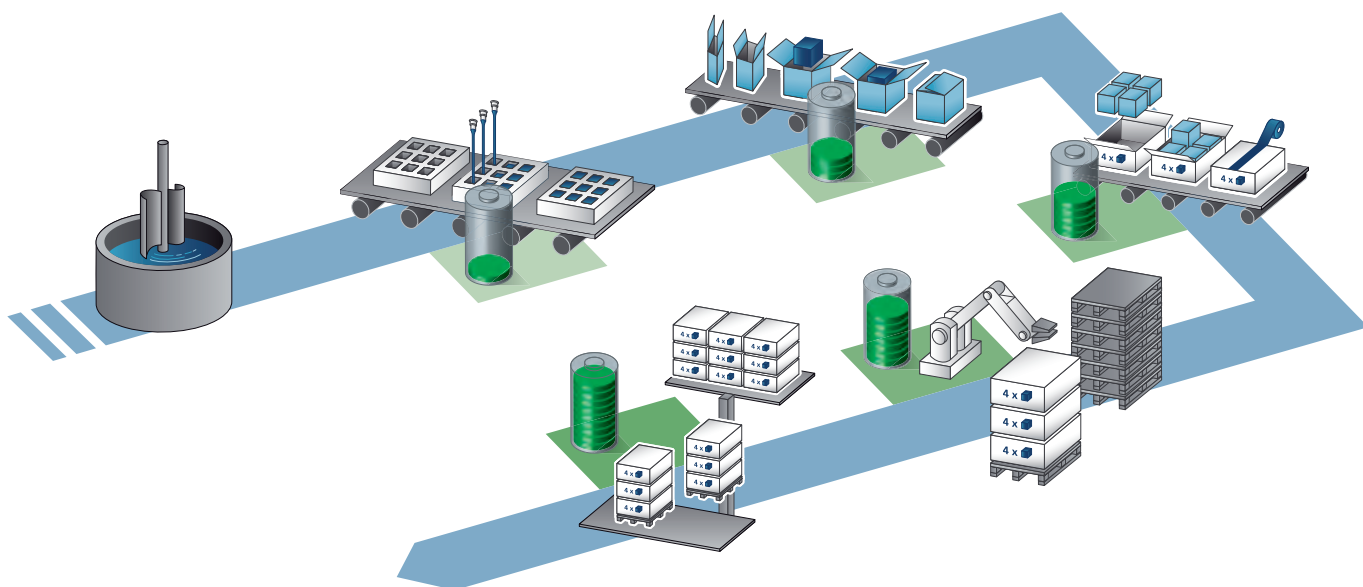
Le crescenti esigenze di produttività delle macchine in impianti complessi e la maggiore flessibilità delle macchine operanti ai massimi livelli di efficienza richiedono oggi nuove e intelligenti soluzioni tecniche che contribuiranno alla crescita di domani. Per raggiungere questo obiettivo Bonfiglioli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

FORMAZIONE

STUDI DI MECCANICA E
MECCATRONICA

PERSONALIZZAZIONE
DEL PRODOTTO

REALIZZAZIONE DI PROTOTIPI,
TEST E REPORT DI ANALISI

LA NOSTRA COMPETENZA DALL'INIZIO ALLA FINE!



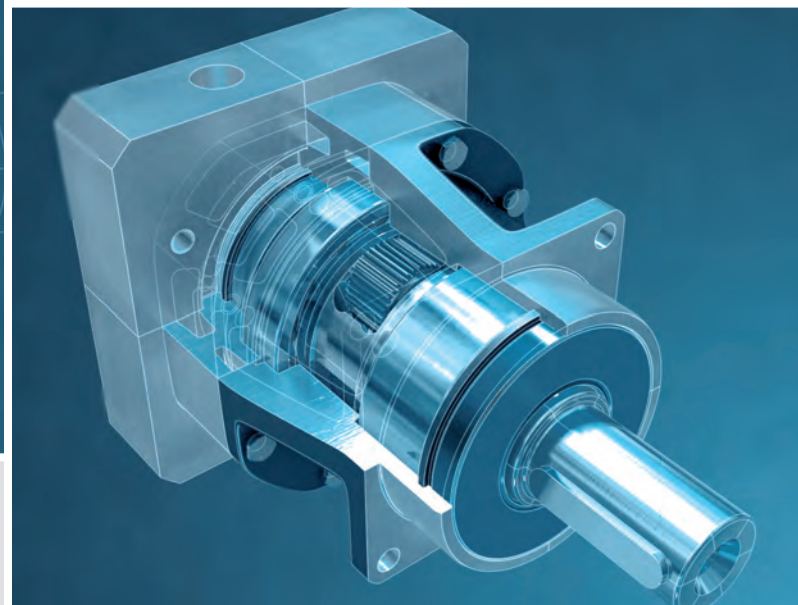
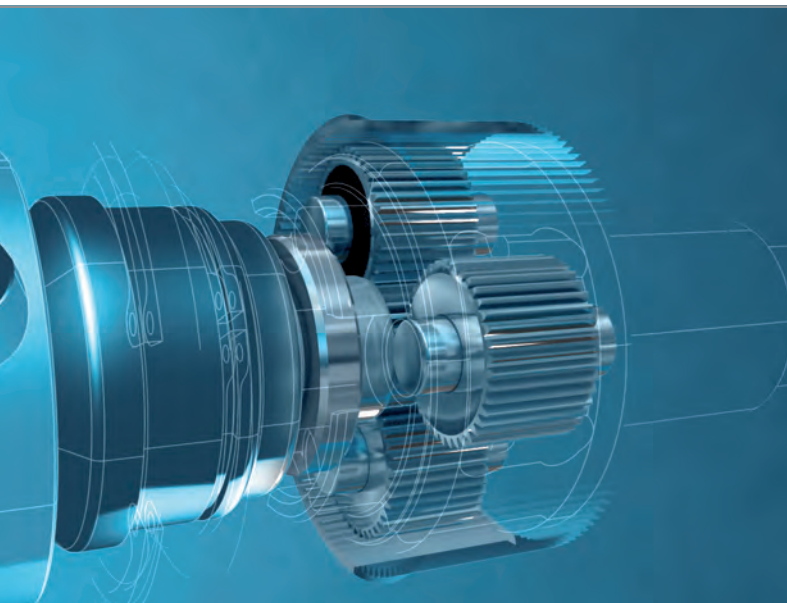
Due centri di eccellenza sono il motore dell'innovazione di MDS:

- 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.

Req'd

- Sequence: 6,961 s
- Velocity: 1.636 %/s
- Acceleration: 4,002 %/s²
- Deceleration: 4,002 %/s²
- Load + Payload: 0,0392 kg-m²
- Thrust: -12 Nm
- Drive pulley output torque: 14,74 Nm
- Belt tensile force: 421 N
- Input torque: 15,51 Nm
- Rigidity at input: 3,567e+13 Nm/lacr

No.	Location	Size	Time	Duration	Displacement	Velocity	Accel.	Decel.	Profile	Start	End
1	Axis Z - Decena Millis	4.26	0	0	-120	0	0	0	S	0	0
2	Axis Z - Decena Millis	4.26	0.0205	0.18	750	0	490	11951	S	0	0
3	Axis Z - Decena Millis	4.40	0	0	0	0	0	0	C	0	0
4	Apertura presa	5.18	0.0205	0.18	0	0	0	0	S	0	0
5	Axis Z - Salto 100 mm	5.4	0	0	750	0	0	0	S	0	0
6	Axis Z - Salto 100 mm	5.4	0.2225	0.18	750	0	-402	11251	S	0	0
7	Axis Z - Salto 100 mm	5.63	0	0	0	0	0	0	S	0	0
8	Axis Z - Salto 100 mm	5.62	1.220	0	0	0	0	0	S	0	0

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.

Energy: \$ 129,12/year	Units	Sistema B asse Z	Sistema B asse Y
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	1,80
Energy cost	\$/year	2,05	1,80
Mechanism		Belt and Pulley	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

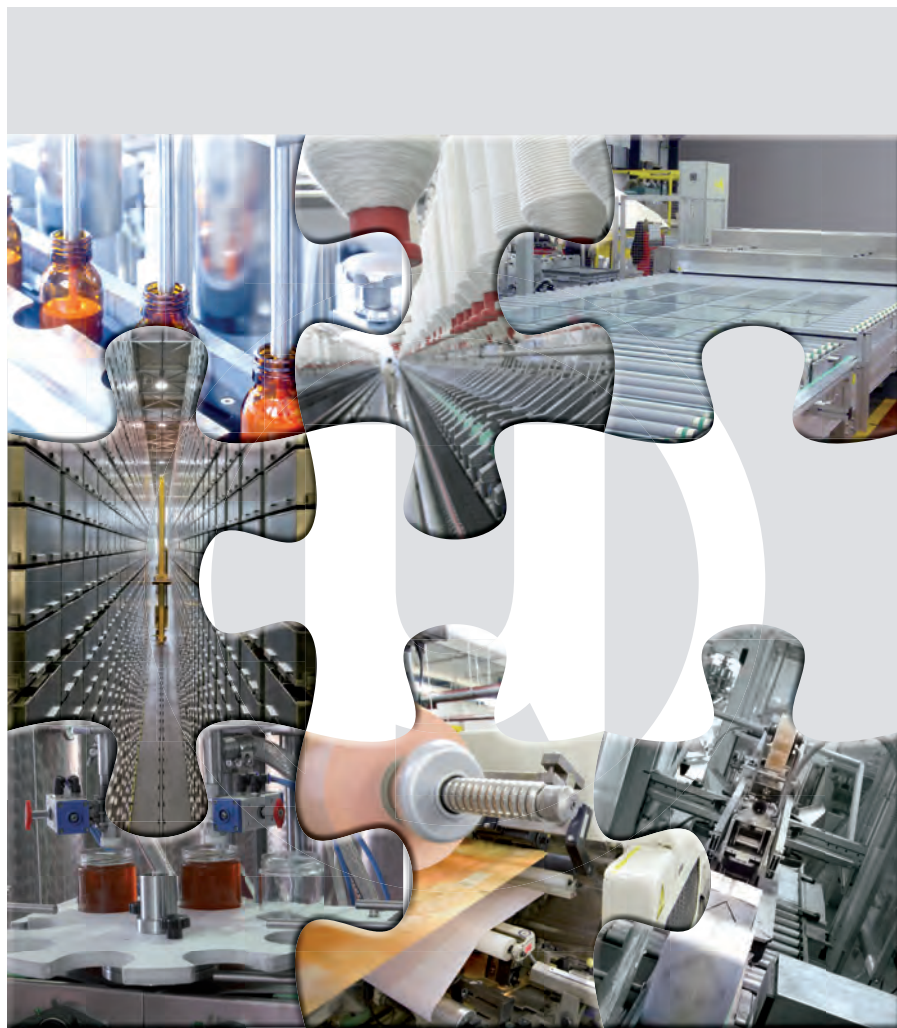
UN PARTNER AFFIDABILE PER LA VOSTRA IMPRESA



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

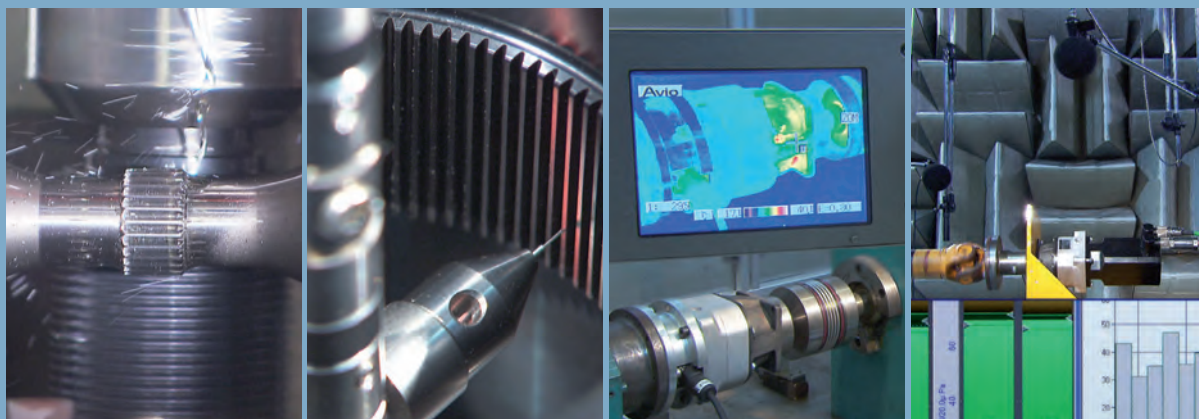
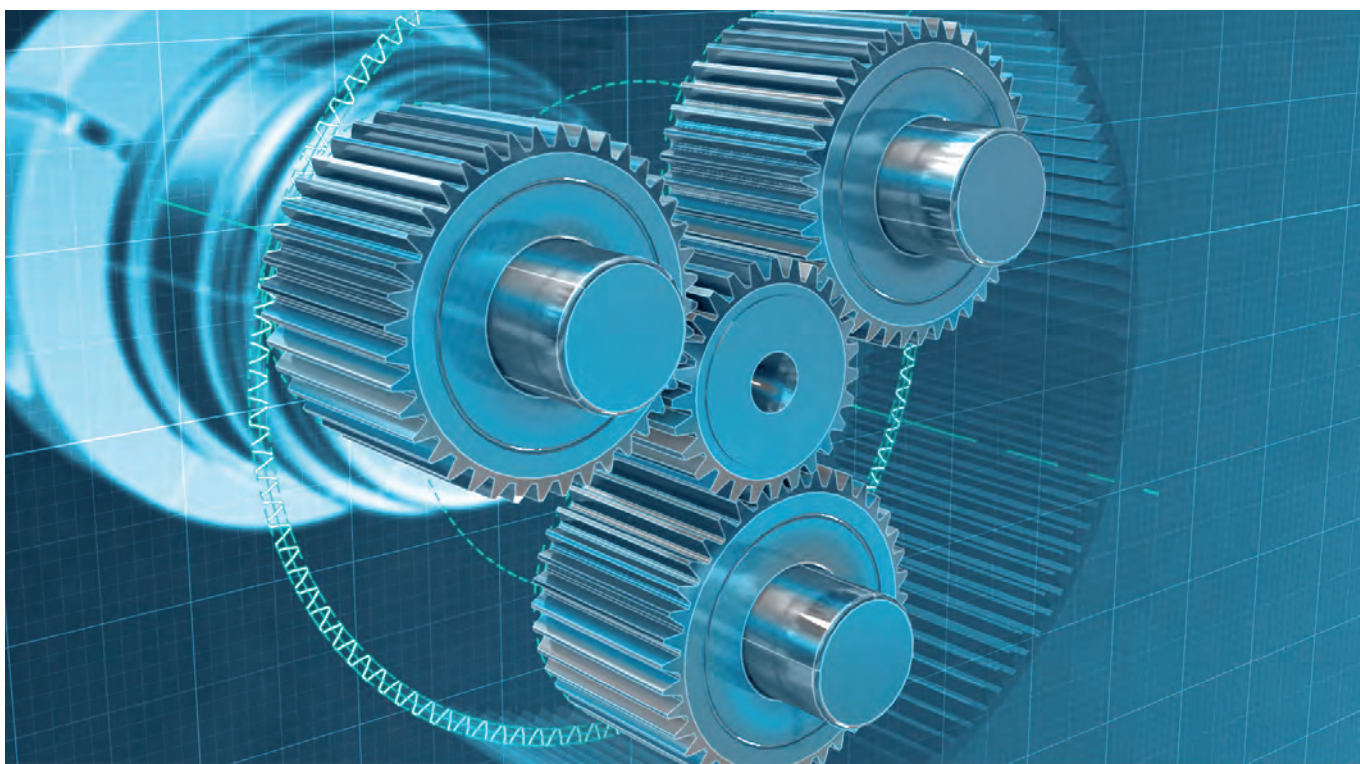
FORMAZIONE

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

ALTA DENSITÀ DI POTENZA

	PRODOTTO	COASSIALE	ORTOGONALE	VANTAGGI APPLICATIVI	CONFIGURAZIONI		
ALTE PRESTAZIONI	TQ 	Si		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Prestazioni elevate • Precisione elevata • Design modulare in base alle vostre esigenze 	<ul style="list-style-type: none"> • Albero pieno • Albero cavo • Albero veloce 	
	MP 	Si		Si	<ul style="list-style-type: none"> • Prestazioni elevate • Precisione standard • Design modulare in base alle vostre esigenze 	<ul style="list-style-type: none"> • Albero pieno • Albero cavo • Albero veloce 	
FLESSIBILITÀ	LC 	Si			<ul style="list-style-type: none"> • Flessibilità • Precisione a un prezzo vantaggioso • Disponibile nuova versione con coppia aumentata 	<ul style="list-style-type: none"> • Albero pieno • Albero veloce 	
	LCK 			Si	<ul style="list-style-type: none"> • Flessibilità • Precisione a un prezzo vantaggioso • Disponibile nuova versione con coppia aumentata 	<ul style="list-style-type: none"> • Albero pieno • Albero veloce 	
	SL 		Si			<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 \leq 4-6 RIDOTTO \leq 2-4	●●●●●
800 1200	4-100	●●●●●	●●●●●	STANDARD \leq 5-7 RIDOTTO \leq 3-5	●●●●●
800 1200	6-200	●●●●●	●●●●	STANDARD \leq 5-7 RIDOTTO \leq 4-6	●●●●●
1000 1200	3-1000	●●●	●●●	STANDARD \leq 5-7 RIDOTTO \leq 3-5	●●●
1000 1200	3-1000	●●●	●●●	STANDARD \leq 15-17 RIDOTTO \leq 10-12	●●●
450 700	3-100	●●●	●●●	STANDARD \leq 12-15 RIDOTTO \leq 6-8	●●●
450 700	6-100	●●●	●●●	STANDARD \leq 6-8	●●●
155 300	3-100	●●●	●●●	STANDARD \leq 12 RIDOTTO \leq 6	●●●
120 170	1-5	●	●	STANDARD \leq 8	●

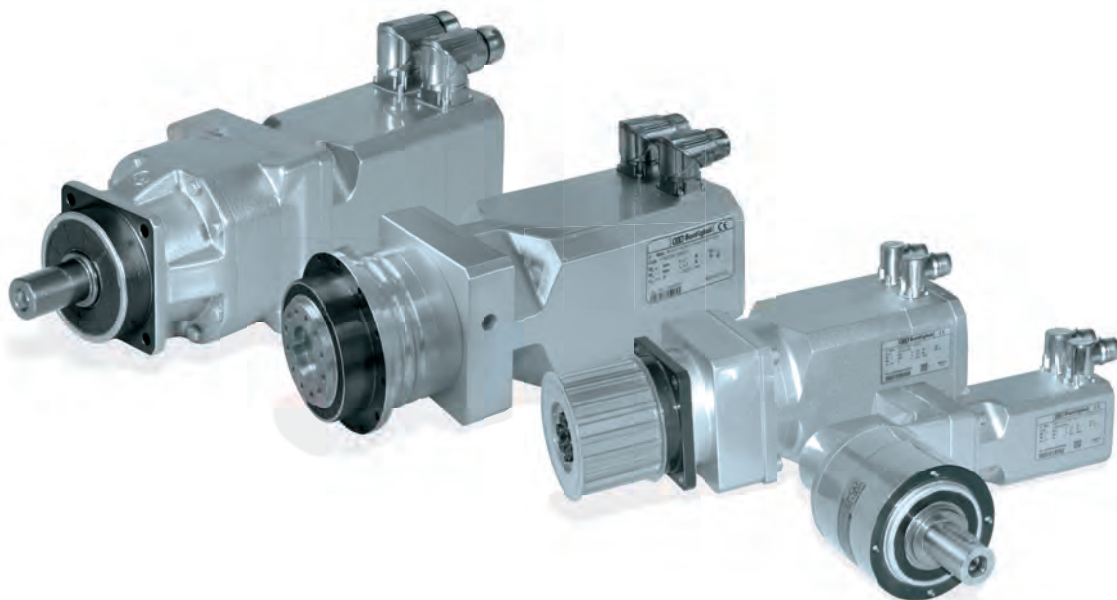
SERVORIDUTTORI

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
A_2	[N]	Forza assiale applicata sull'albero lento
$A_2 \text{ EQU}$	[N]	Forza assiale equivalente applicata sull'albero lento
$A_2 \text{ MAX}$	[N]	Forza assiale massima applicata sull'albero lento
R_2	[N]	Forza radiale applicata sull'albero lento
$R_2 \text{ EQU}$	[N]	Forza radiale equivalente applicata sull'albero lento
$R_2 \text{ MAX}$	[N]	Forza radiale massima applicata sull'albero lento
ED	[s]	Tempo di funzionamento (senza freno)
$ED\%$	[%]	Fattore di utilizzo %
$L_{10h} \text{ TARGET}$	[h]	Durata di base dei cuscinetti dell'albero lento desiderata
$M_1 \text{ PEAK}$	[Nm]	Coppia massima in ingresso (limitata dall' inverter)
$M_{2(1)} \dots M_{2(n)}$	[Nm]	Coppia di uscita nei singoli intervalli $t_1 \dots t_n$
$M_2 \text{ EQU}$	[Nm]	Coppia di uscita equivalente
$M_2 \text{ MAX}$	[Nm]	Coppia di uscita massima in condizioni di emergenza
$M_{T2} \text{ EQU}$	[Nm]	Coppia di ribaltamento equivalente applicata sull'albero lento
$M_{T2} \text{ MAX}$	[Nm]	Coppia di ribaltamento massima applicata sull'albero lento
n_1	[min ⁻¹]	Velocità nominale in ingresso
n_2	[min ⁻¹]	Velocità di uscita
$n_{2(1)} \dots n_{2(n)}$	[min ⁻¹]	Velocità di uscita nei singoli intervalli $t_1 \dots t_n$
$n_2 \text{ EQU}$	[min ⁻¹]	Velocità di uscita equivalente
$n_2 \text{ MAX}$	[min ⁻¹]	Velocità massima in uscita
T	[C°]	Temperatura ambiente
$t_1 \dots t_n$	[s]	Intervalli di funzionamento
t_Σ	[s]	Ciclo di funzionamento totale comprese le fasi di inattività
Z	[1/h]	Numero di cicli orari

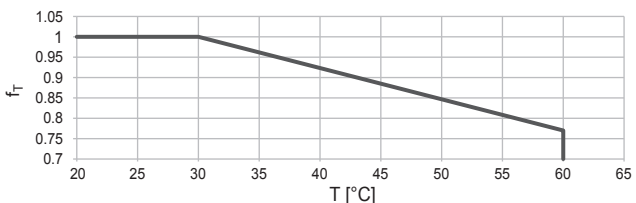
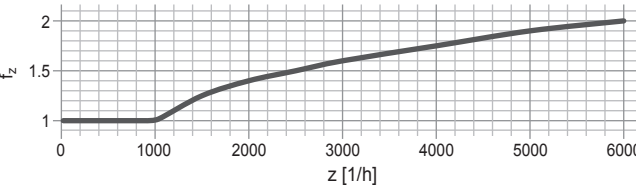


Parametri dipendenti dal **RIDUTTORE DI VELOCITÀ**

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 presenza 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	$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	Rigidità 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
$M_{a 2}$	[Nm]	Massima coppia accelerante in uscita
$M_{n 2}$	[Nm]	Coppia nominale in uscita
$M_{p 2}$	[Nm]	Coppia di emergenza. Consentita 1000 volte nella vita del riduttore
$M_{T2 \max}$	[Nm]	Coppia di ribaltamento massima applicata sull'albero lento
$n_1 \max$	[min ⁻¹]	Velocità massima momentanea. La velocità alla quale può essere comandato il riduttore occasionalmente e in condizioni non ripetitive. Per servizi intermittenti tipo S5 la velocità non può essere sviluppata continuamente per più di 30 secondi.
p	—	Esponente nel calcolo della durata teorica dei cuscinetti
η	[%]	Rendimento
φ_R	[arcmin]	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	—	 <p>*Per Z>6000 contattateci!</p>
(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

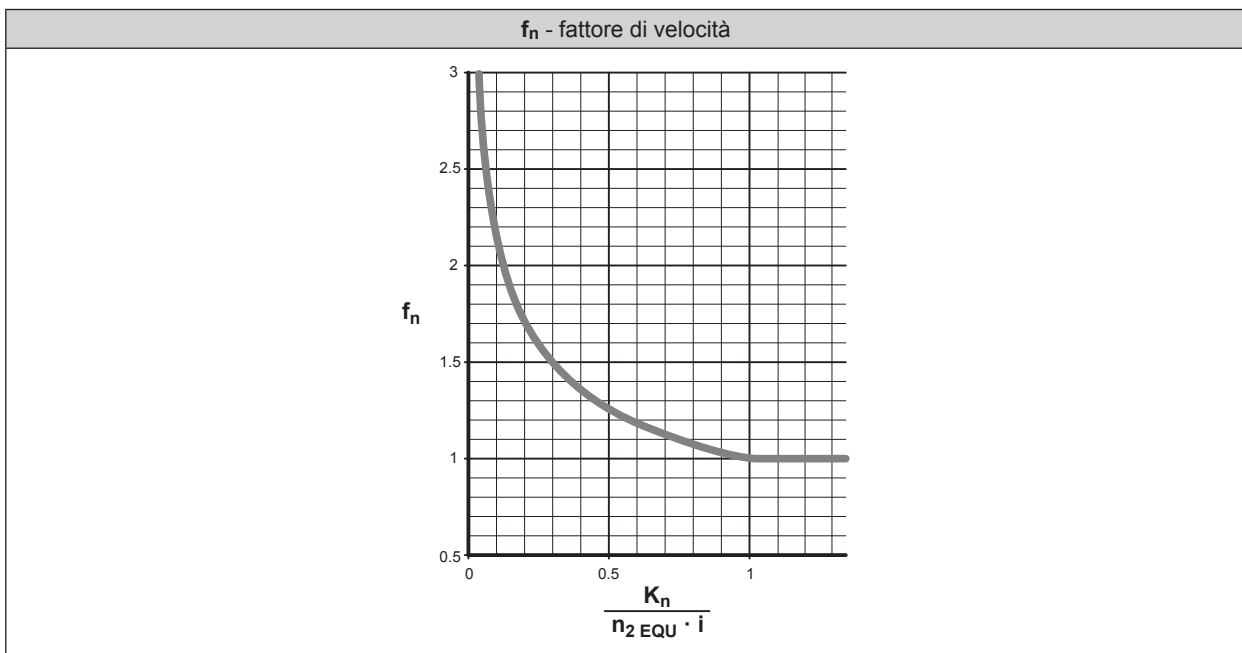


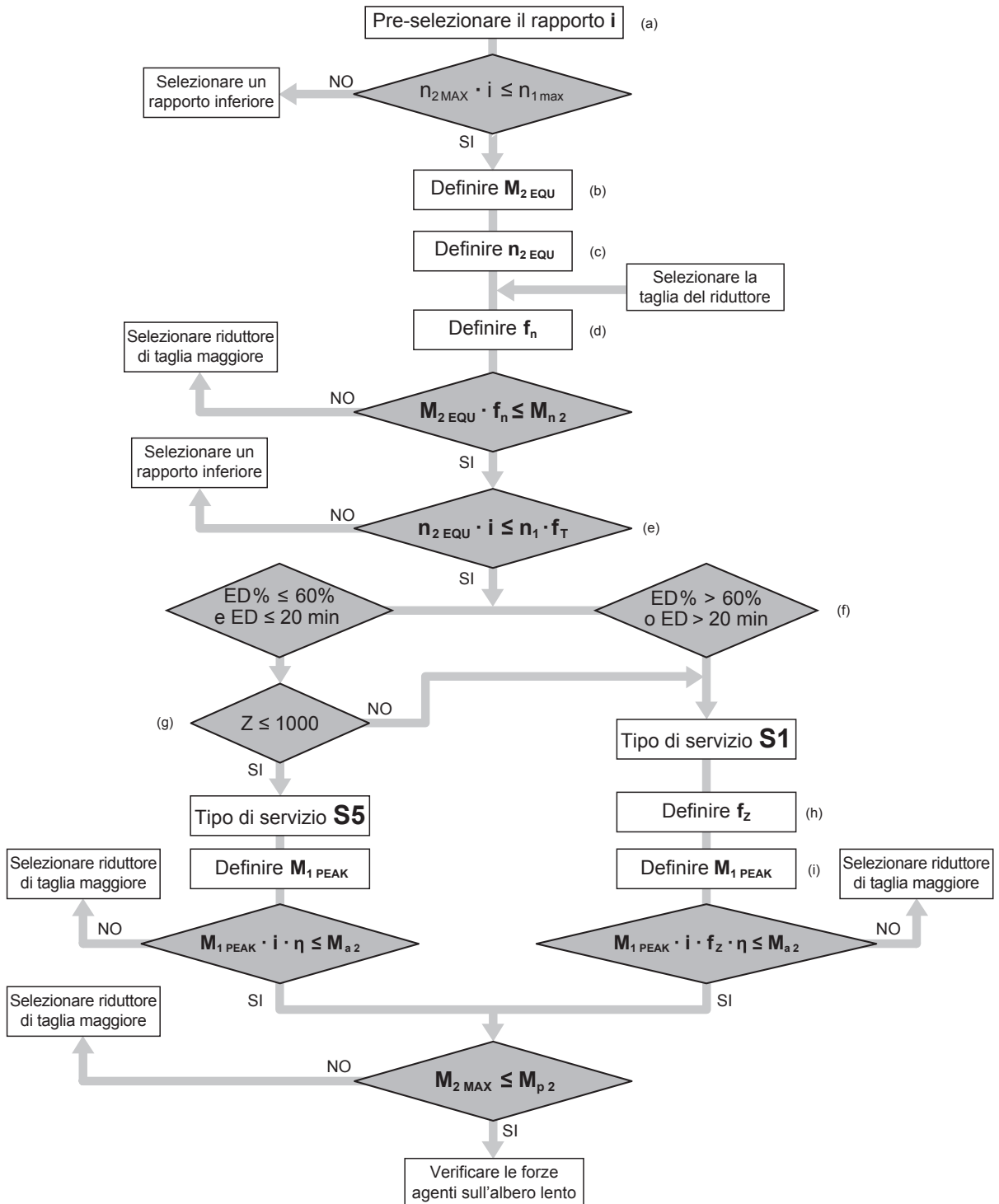
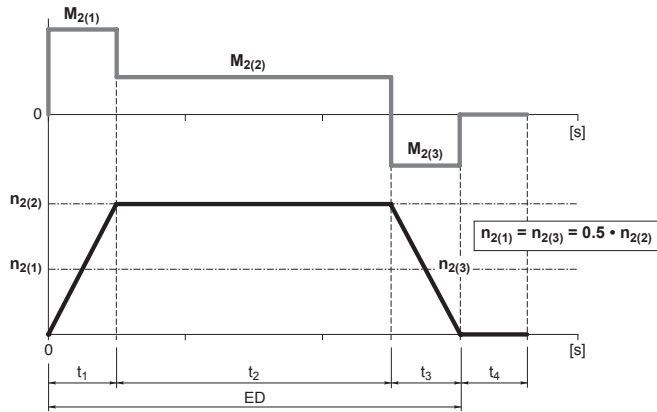


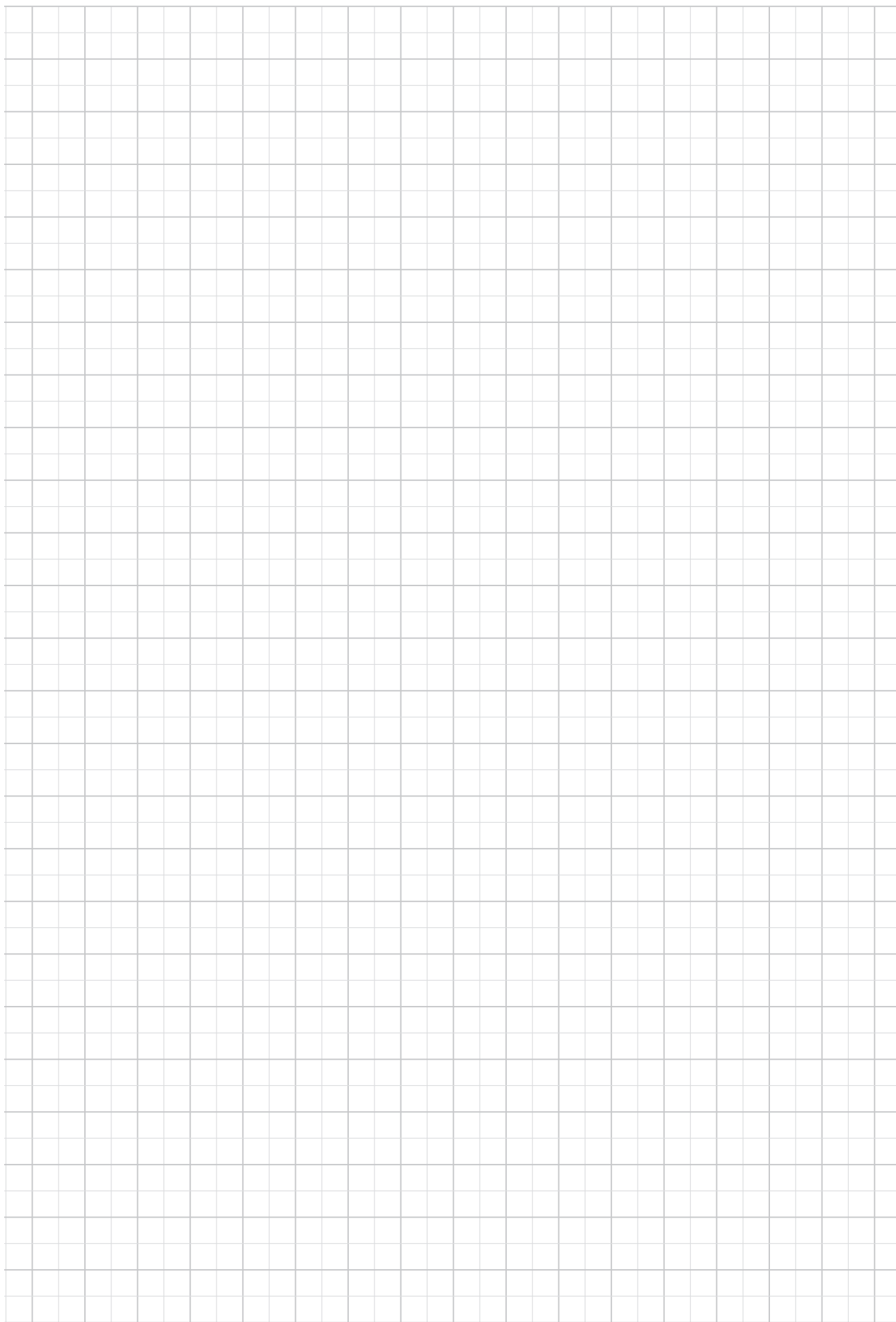
Diagramma di carico

— M_2 : Coppia in uscita

Diagramma di velocità

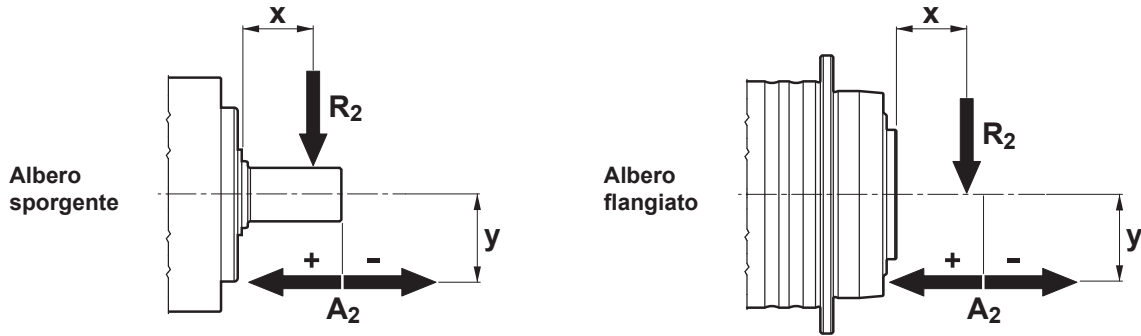
— n_2 : Velocità in uscita







1.3 CALCOLO DELLA DURATA DI VITA DEI CUSCINETTI



(a)	Forza radiale massima applicata sull'albero lento Forza assiale massima applicata sull'albero lento	$R_{2\text{ MAX}}$ $A_{2\text{ MAX}}$	[N] [N]	Valutare eventuali condizioni applicative (es. la tensione di una cinghia durante la fase di accelerazione)
(b)	Coppia di ribaltamento massima applicata sull'albero lento	$M_{T2\text{ MAX}}$	[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]	$M_{T2\text{ EQU}} = \frac{R_{2\text{ EQU}} \cdot (x + L_z) + A_{2\text{ EQU}} \cdot y}{1000}$
(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]	$L_{10h} = \frac{16666}{n_{2\text{ EQU}}} \cdot \left(\frac{C_B}{M_{T2\text{ EQU}}} \right)^p$

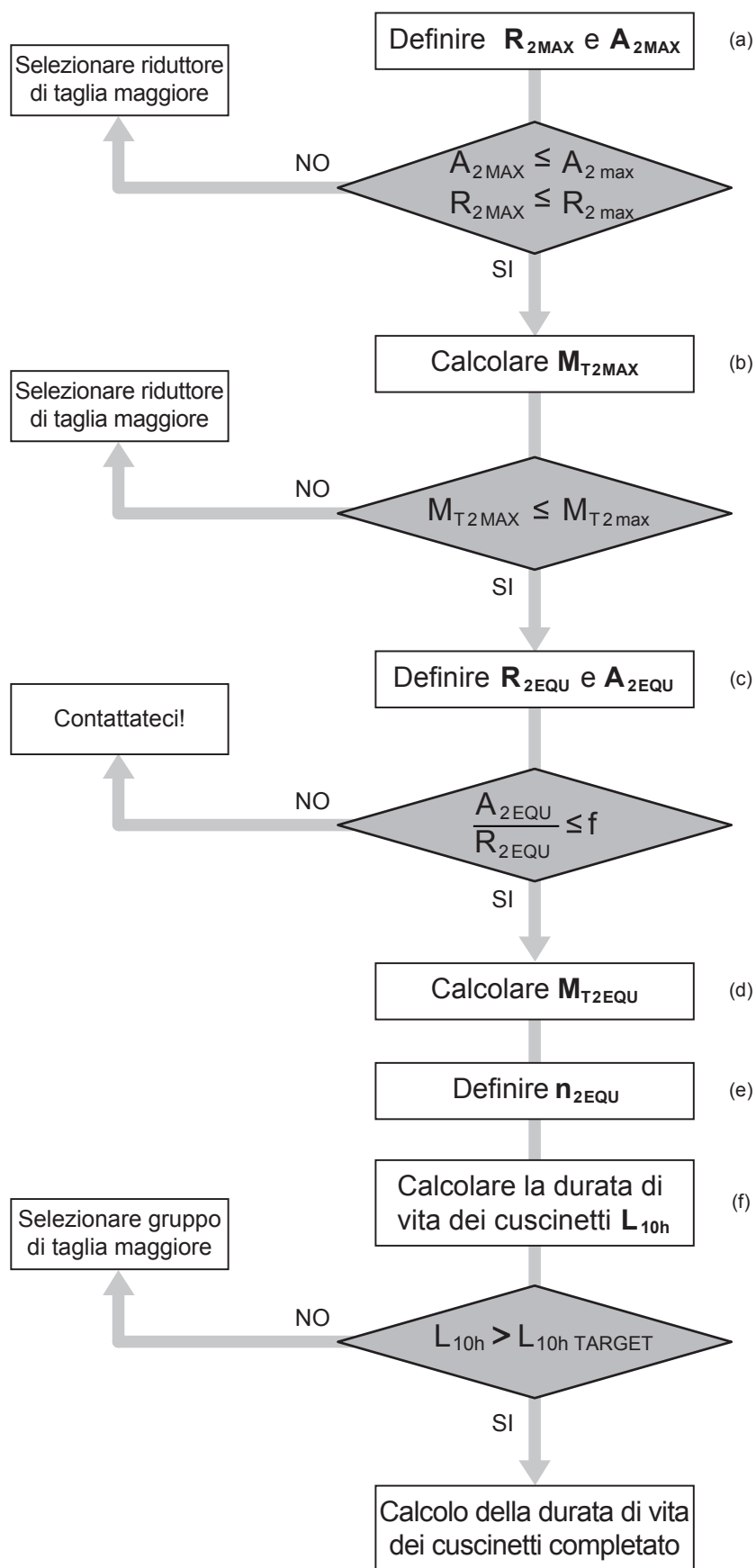
		TQ / TQK 060		TQ / TQK 070		TQ / TQK 090		TQ / TQK 130	TQ / TQK 160
		SB	SB	HB	SB	HB	SB	SB	
Lz	[mm]	56	67	64	95	89	96	114	
MT2 max	[Nm]	129.5	221	343	592	772	1233	2331	
CB	[Nm]	632	1065	1510	2898	3325	6395	9795	
p	—	3	3	3.33	3	3.33	3.33	3.33	

		TQF 060	TQF 070	TQF 090	TQF 130	TQF 160
Lz	[mm]	48	72	78	100	128
MT2 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
MT2 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

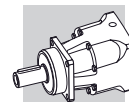
		MP 053	MP 060	MP 080		MP 105		MP 130	MP 160	MP 190
		SB	SB	SB	HB	SB	HB	SB	SB	SB
Lz	[mm]	22	23	44	42	46	53	74	94	100
MT2 max	[Nm]	16	23	83	155	99	278	515	739	1683
CB	[Nm]	91	143	407	994	637	2048	3893	5824	8680
p	—	3	3	3	3.33	3	3.33	3.33	3.33	3.33

		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
MT2 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



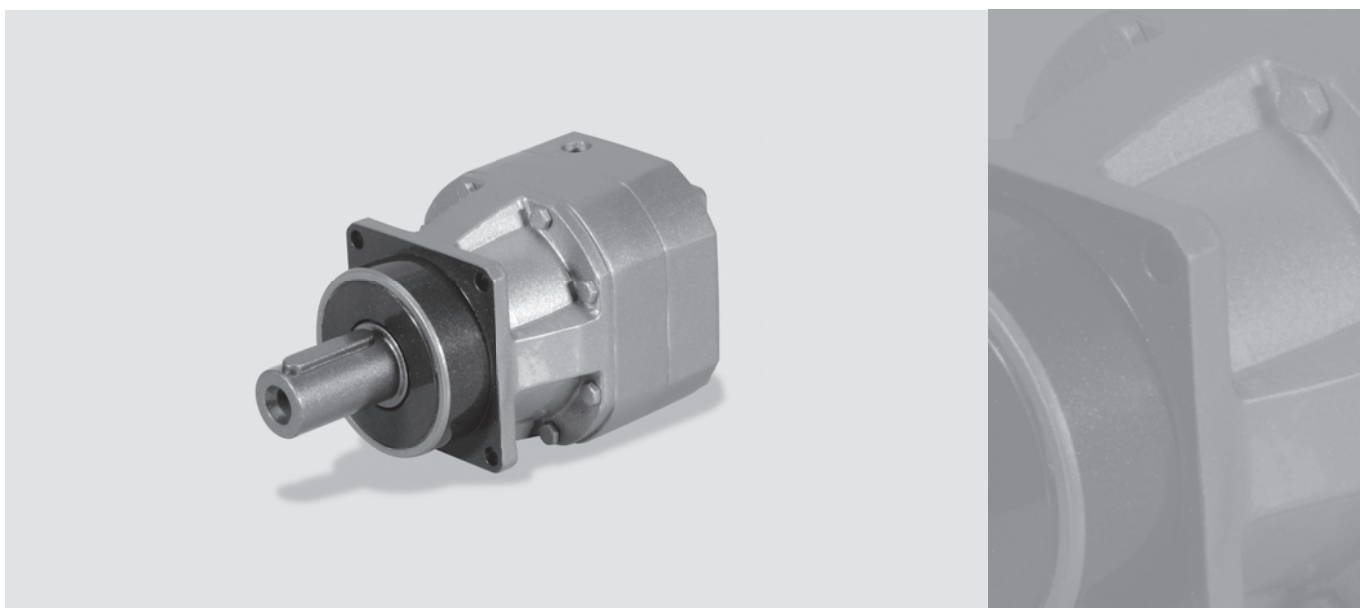


TQ

RIDUTTORE EPICICLOIDALE COASSIALE DI PRECISIONE

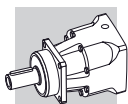
TQ

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 epicycloidali 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.

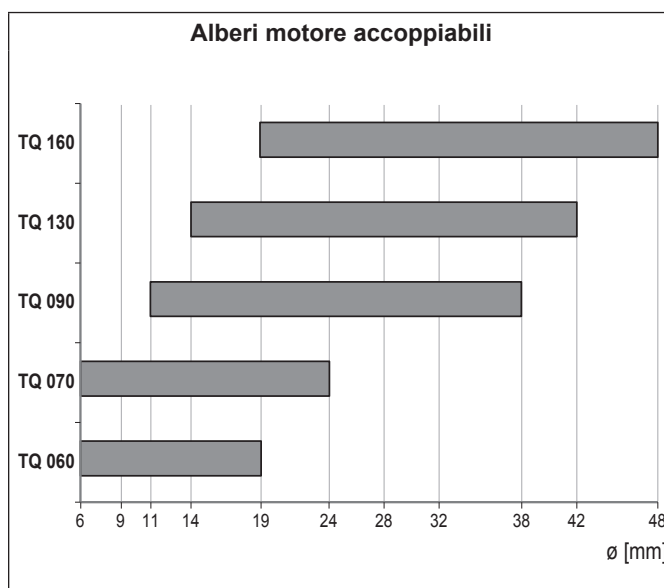
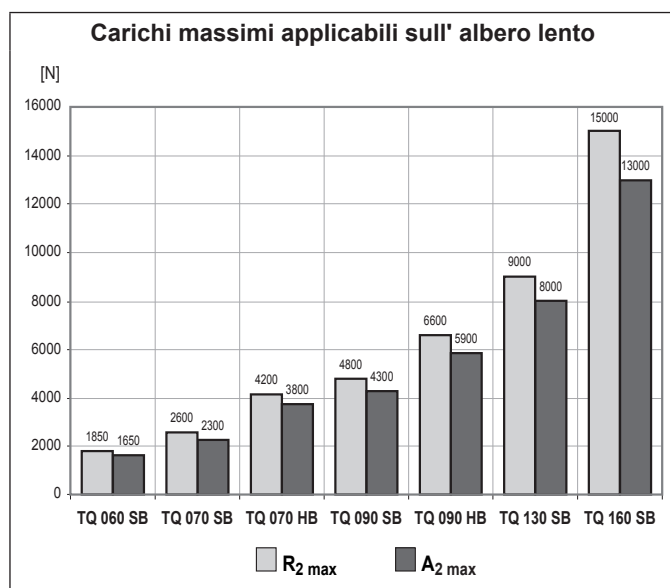
La loro progettazione e costruzione è stata sviluppata con l'obiettivo primario di offrire agli utilizzatori una serie di prodotti di Qualità assoluta, affidabile e ripetibile, tale da costituire vantaggio competitivo per macchine e sistemi che li integrano come organi di trasmissione.

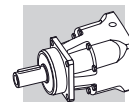
- La serie TQ dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
 1 stadio di riduzione: standard $\varphi_S \leq 3'$ ridotto $\varphi_R \leq 2'$ ($\varphi_S \leq 4'$; $\varphi_R \leq 2'$ per TQ 060 e TQ 070)
 2 stadi di riduzione: standard $\varphi_S \leq 5'$ ridotto $\varphi_R \leq 3'$ ($\varphi_S \leq 6'$; $\varphi_R \leq 4'$ 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

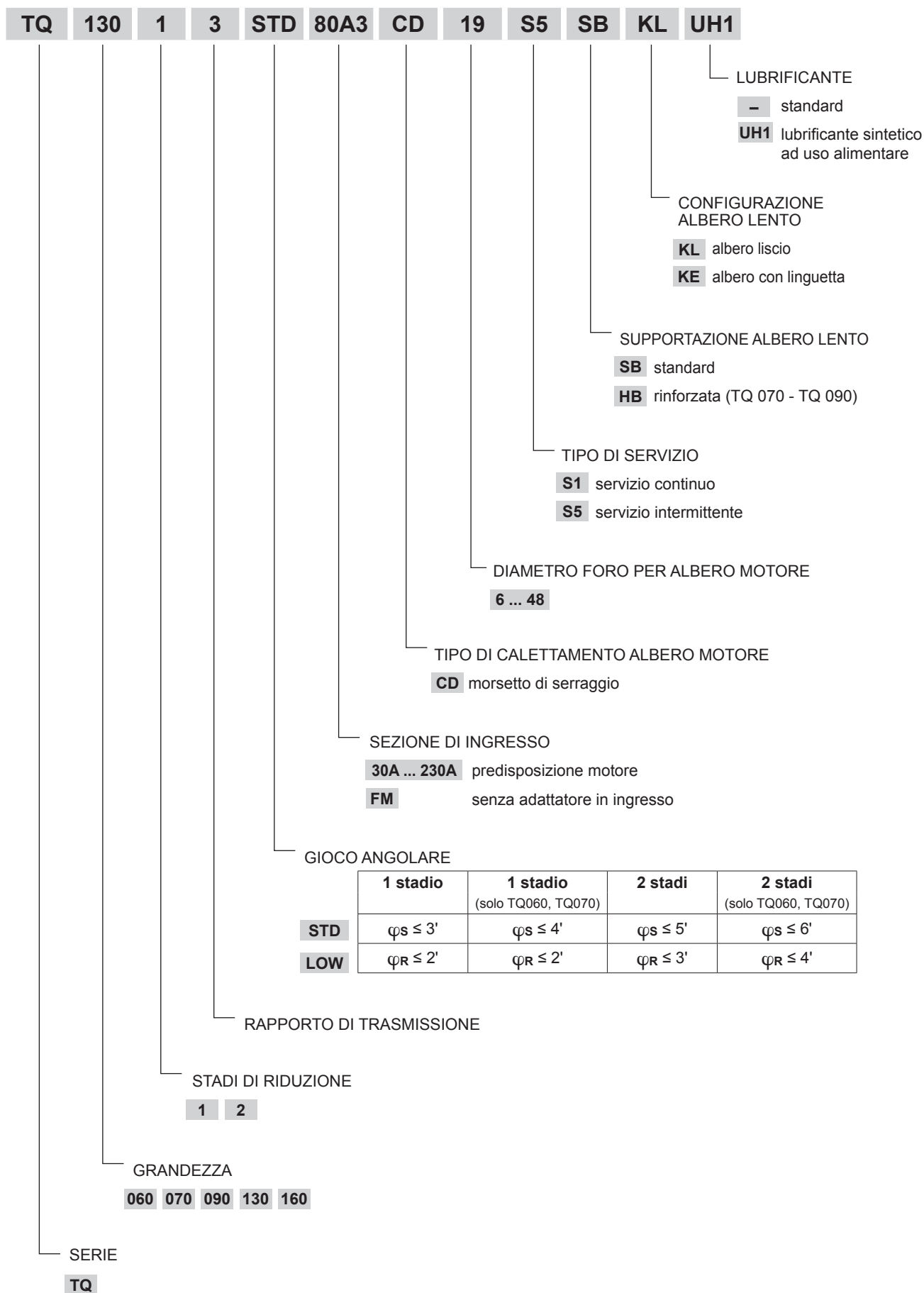
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico f_T .
- La temperatura sulla cassa non deve superare $T_{max} = 90^\circ\text{C}$.

		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

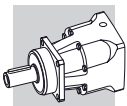




2.1 CODICE ORDINATIVO



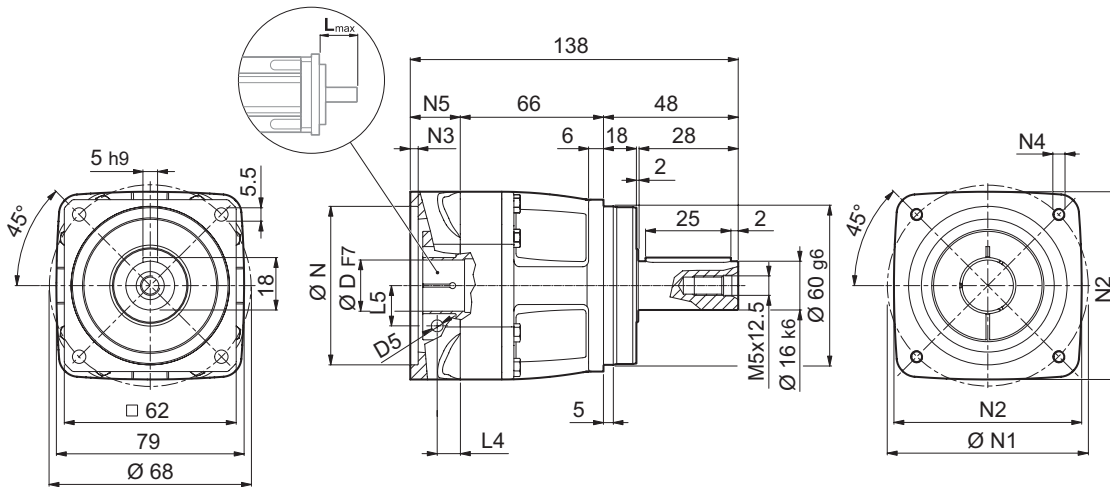
TQ



2.2 DIMENSIONI E DATI TECNICI

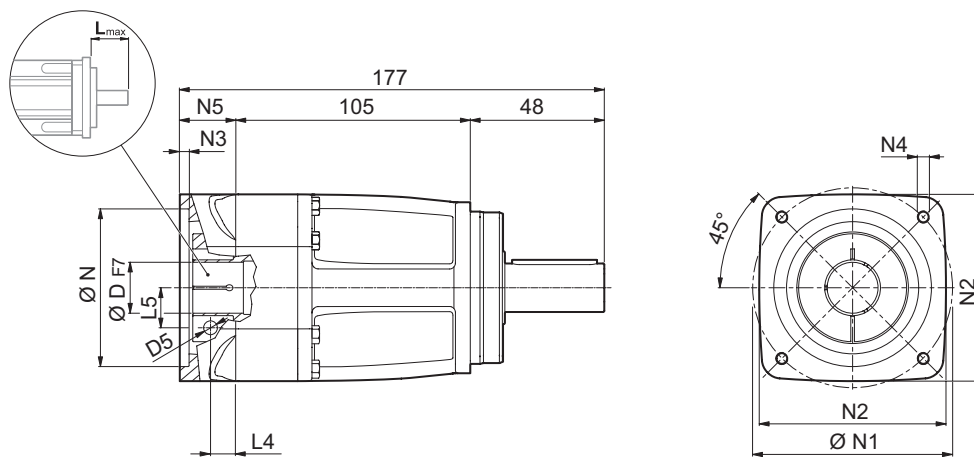
TQ

TQ 060



TQ 060 1	2.5

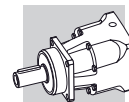
30A ... 110B0



TQ 060 2	3.5

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

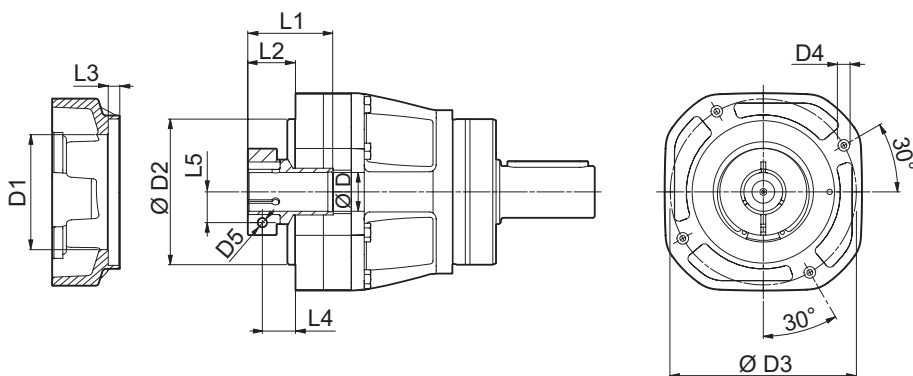
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

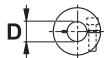


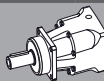

TQ 060

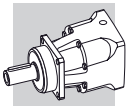
TQ

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

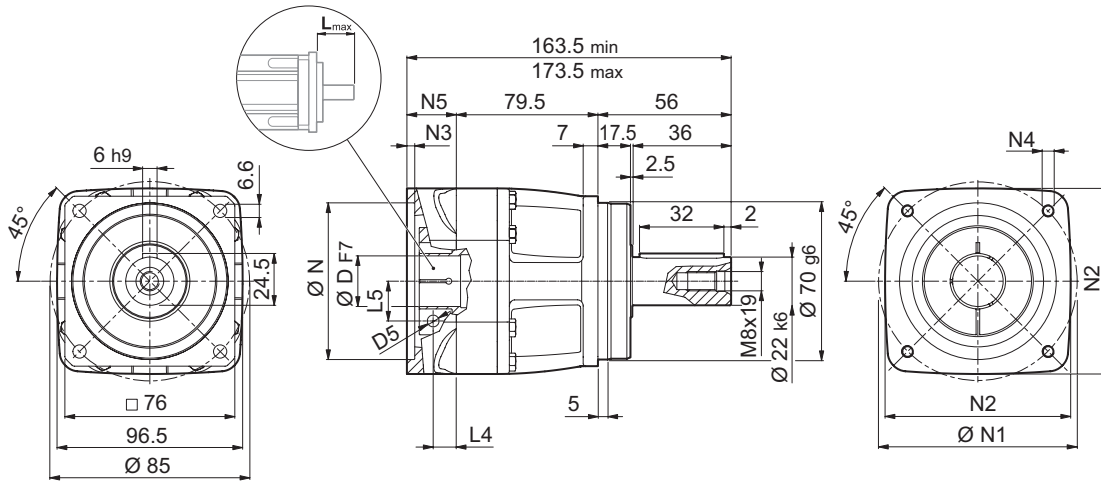
	M_{n2}	M_{a2}	M_{p2}	n_1	$n_{1\ max}$	$\varphi_S \leq \varphi_R$		C_t	$R_{2\ max}$	$A_{2\ max}$	η	J_G [kgcm ²]		
						[arcmin]								
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]			$\frac{Nm}{arcmin}$	[N]	[N]	%	6 - 9	11 - 14	19
TQ 060 1_3	21	32	60	3500	6000	4'	2'	4.8	1850	1650	97	0.36	0.47	0.51
TQ 060 1_4	30	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

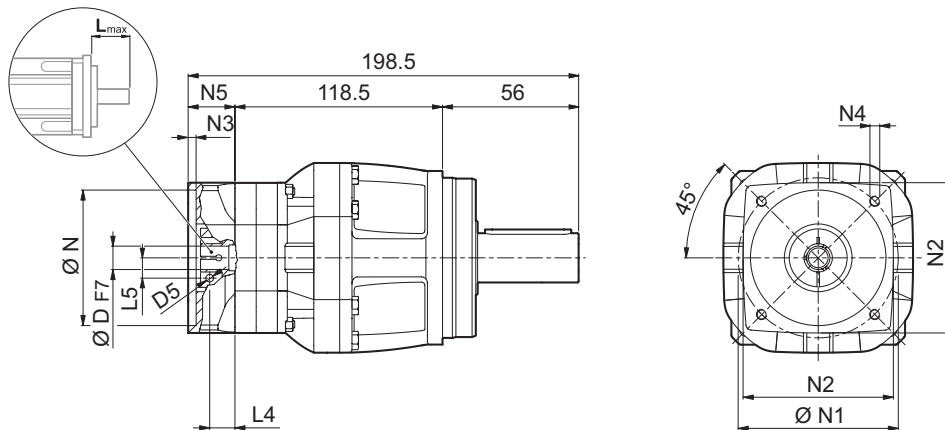
TQ

50C ... 130A



TQ 070 1	3.6

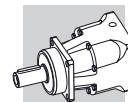
30A ... 110B0



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

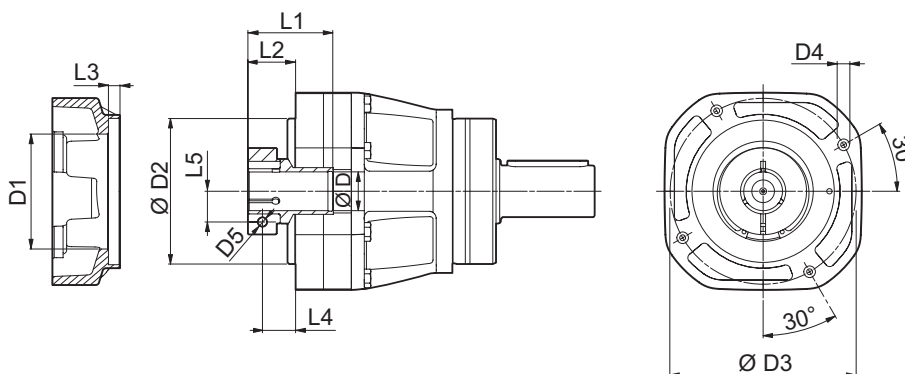
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



TQ 070

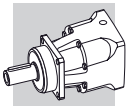
TQ

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

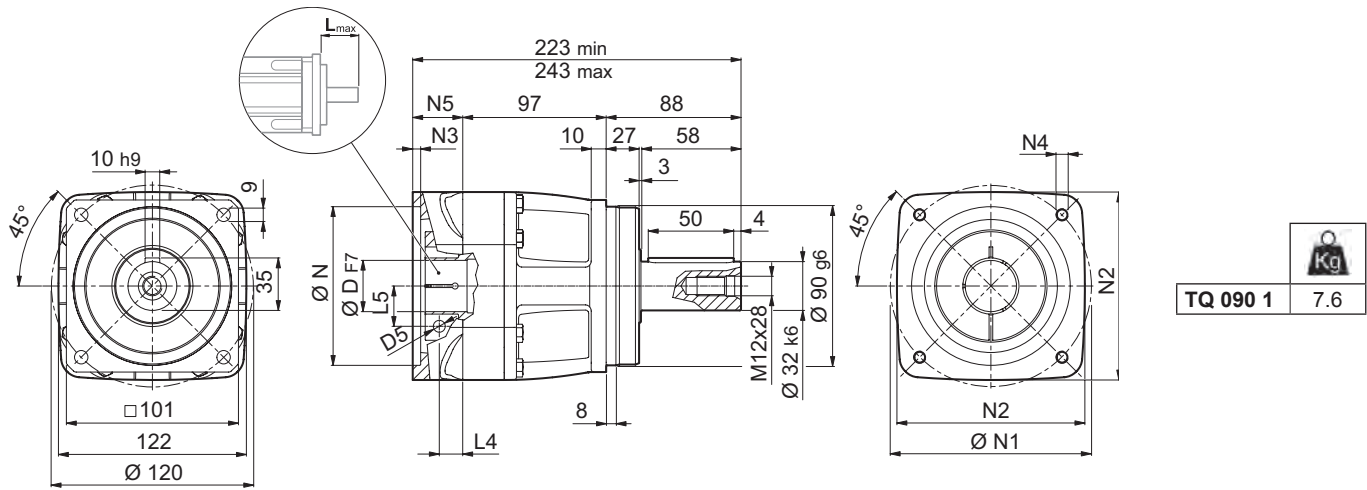
	M_{N2}	M_{A2}	M_{P2}	n_1	$n_{1\max}$	φ_S	φ_R	C_t	SB		HB		η	J_G [kgcm ²]			
									$R_{2\max}$	$A_{2\max}$	$R_{2\max}$	$A_{2\max}$					
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	\leq	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	[N]	%	6 - 9	11 - 14	19	24
TQ 070 1_3	45	65	120	3000	6000	4'	2'	11.3	2600	2300	4200	3800	97	-	0.99	1.02	1.15
TQ 070 1_4	70	100	180	3000	6000	4'	2'	11.3	2600	2300	4200	3800	97	-	0.76	0.79	0.92
TQ 070 1_5	70	100	180	3000	6000	4'	2'	11.3	2600	2300	4200	3800	97	-	0.67	0.70	0.83
TQ 070 1_7	60	90	160	3500	6000	4'	2'	11.3	2600	2300	4200	3800	97	-	0.59	0.62	0.75
TQ 070 1_10	40	60	110	3500	6000	4'	2'	11.3	2600	2300	4200	3800	97	-	0.55	0.58	0.71
TQ 070 2_16	70	100	180	3500	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.28	0.40	0.43	-
TQ 070 2_20	70	100	180	3500	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.28	0.39	0.43	-
TQ 070 2_25	70	100	180	3500	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.25	0.36	0.40	-
TQ 070 2_28	70	100	180	3500	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.22	0.34	0.37	-
TQ 070 2_35	70	100	180	3500	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.22	0.34	0.37	-
TQ 070 2_40	70	100	180	3500	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.21	0.32	0.36	-
TQ 070 2_50	70	100	180	3500	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.21	0.32	0.36	-
TQ 070 2_70	60	90	160	4000	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.21	0.32	0.36	-
TQ 070 2_100	40	60	110	4500	6000	6'	4'	11.3	2600	2300	4200	3800	94	0.21	0.32	0.36	-



TQ 090

TQ

60A4 ... 180A1



50C2 ... 130A

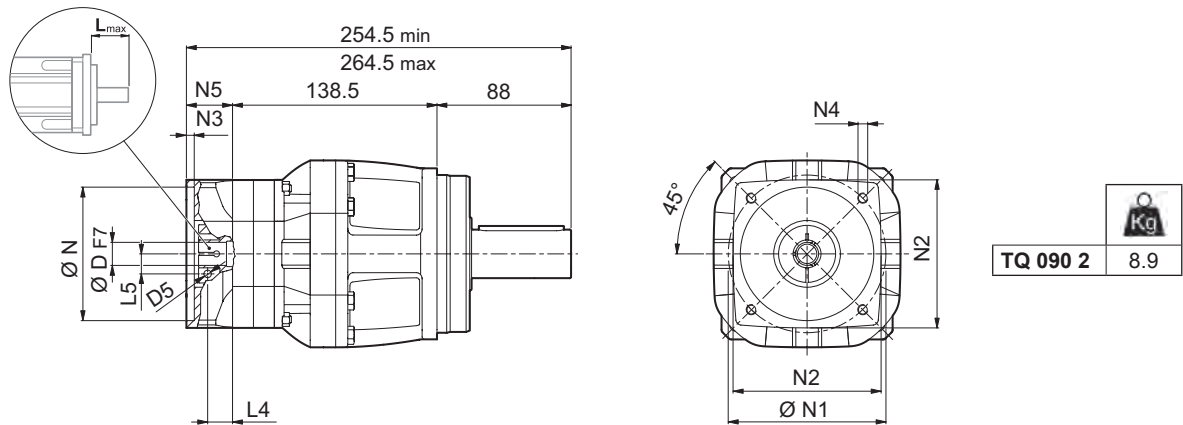
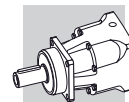


Image	D	N							N1	N2	N3	N4	N5	L _{max}
TQ 090 1														
60A4	11	14	19	-	-	-	-	60	75	100	6.5	M5x14	38	60
80A3	11	14	19	-	-	-	-	80	100	100	6.5	M6x14	38	60
95A2	11	14	19	24	28	-	-	95	115	100	6.5	M8x18	38	60
110A2	11	14	19	24	-	-	-	110	130	122	6.5	M8x20	38	60
110B1	11	14	19	24	28	-	-	110	145	122	6.5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

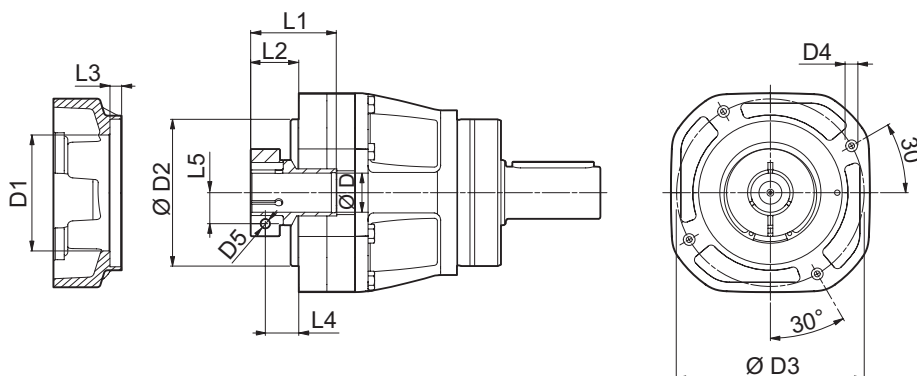
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

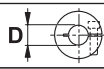


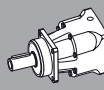

TQ 090

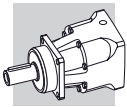
TQ

FM



	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

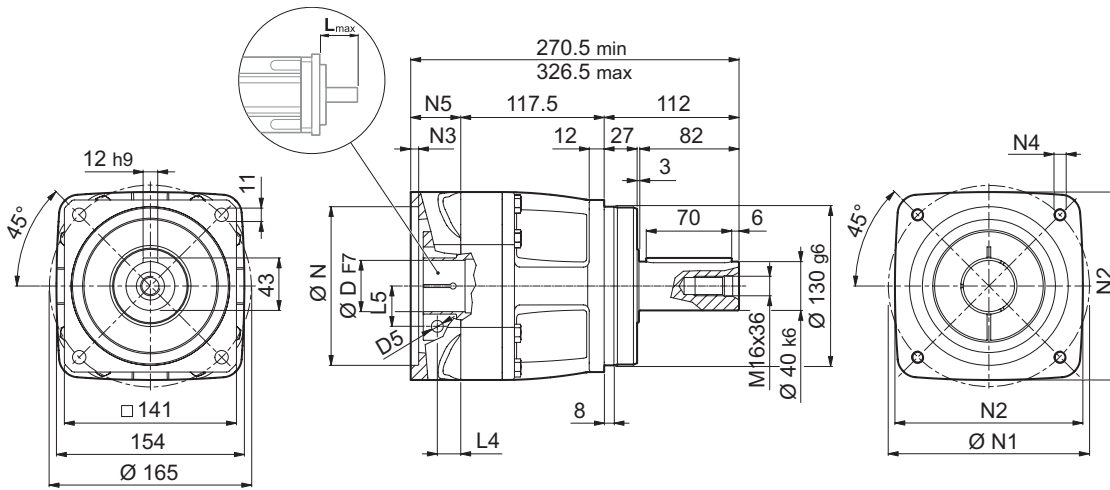
	M_{n2}	M_{a2}	M_{p2}	n_1	$n_{1\max}$	φ_S	φ_R	C_t	SB		HB		η	J_G [kgcm ²]				
									$R_{2\max}$	$A_{2\max}$	$R_{2\max}$	$A_{2\max}$		11	14 - 19	24	28	32-38
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	\leq	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	[N]	%					
TQ 090 1_3	130	200	400	2500	4500	3'	2'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



TQ 130

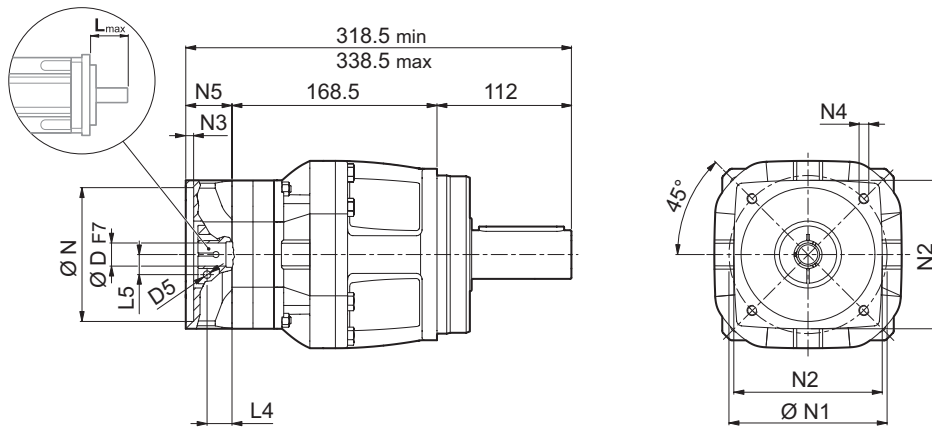
TQ

80A3 ... 200A



	TQ 130 1	15.6
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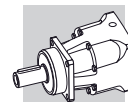
60A4 ... 180A1



	TQ 130 2	19.1
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								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

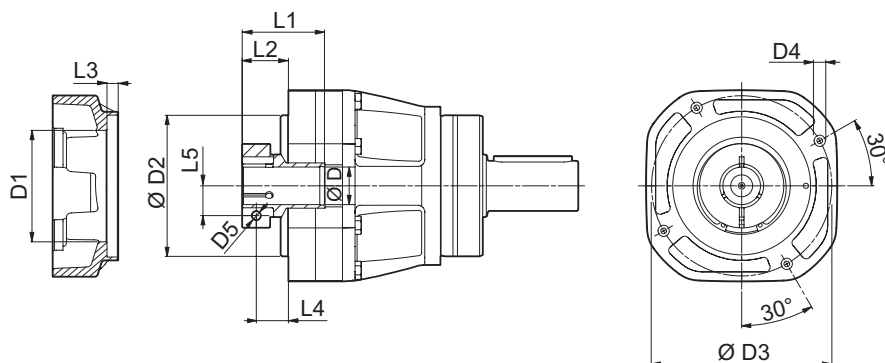
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

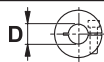


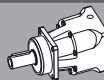

TQ 130

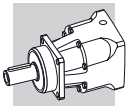
TQ

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

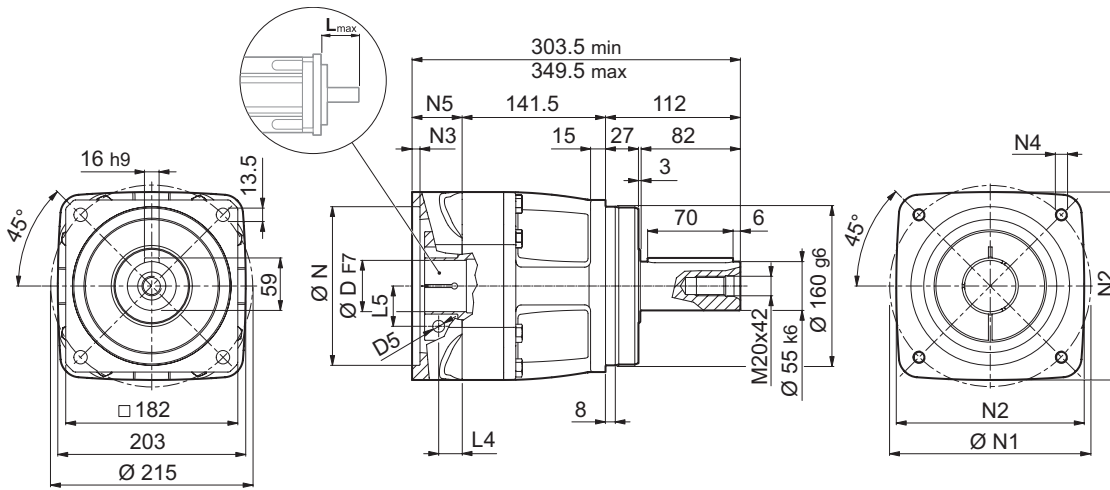
	M_{n2}	M_{a2}	M_{p2}	n_1	$n_{1\max}$	$\varphi_S \leq \varphi_R$		C_t	$R_{2\max}$	$A_{2\max}$	η	J_G [kgcm ²]				
						φ_S	φ_R									
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	[Nm/arcmin]	[N]	[N]	%	14	19 - 24	28 - 32	38	42
TQ 130 1_3	260	400	900	2100	4000	3'	2'	59	9000	8000	97	-	10.02	10.48	11.12	17.12
TQ 130 1_4	400	600	1000	2100	4000	3'	2'	59	9000	8000	97	-	6.38	6.85	7.49	13.49
TQ 130 1_5	400	600	1000	2500	4000	3'	2'	59	9000	8000	97	-	5.01	5.47	6.11	12.11
TQ 130 1_7	360	550	950	2500	4000	3'	2'	59	9000	8000	97	-	3.82	4.28	4.93	10.93
TQ 130 1_10	280	420	900	2500	4000	3'	2'	59	9000	8000	97	-	3.15	3.61	4.25	10.25
TQ 130 2_16	400	600	1000	2800	4000	5'	3'	58	9000	8000	94	1.72	1.87	3.53	4.05	-
TQ 130 2_20	400	600	1000	2800	4000	5'	3'	58	9000	8000	94	1.64	1.80	3.46	3.98	-
TQ 130 2_25	400	600	1000	2800	4000	5'	3'	58	9000	8000	94	1.39	1.55	3.21	3.73	-
TQ 130 2_28	400	600	1000	2800	4000	5'	3'	58	9000	8000	94	1.20	1.36	3.02	3.54	-
TQ 130 2_35	400	600	1000	2800	4000	5'	3'	58	9000	8000	94	1.17	1.33	2.99	3.51	-
TQ 130 2_40	400	600	1000	3200	4000	5'	3'	58	9000	8000	94	1.07	1.23	2.89	3.41	-
TQ 130 2_50	400	600	1000	3200	4000	5'	3'	58	9000	8000	94	1.06	1.21	2.87	3.39	-
TQ 130 2_70	360	550	950	3500	4000	5'	3'	58	9000	8000	94	1.05	1.20	2.86	3.38	-
TQ 130 2_100	280	420	900	4000	4000	5'	3'	58	9000	8000	94	1.04	1.20	2.86	3.38	-



TQ 160

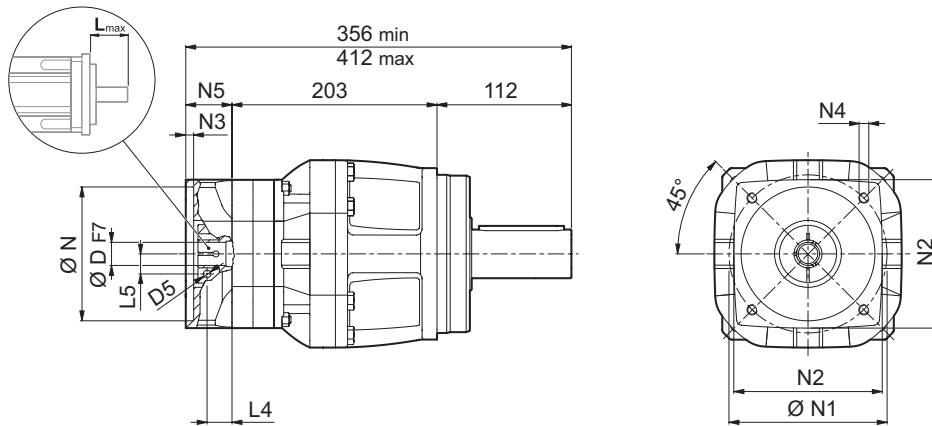
TQ

95A2 ... 230A



TQ 160 1 29.7

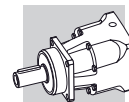
80A3 ... 200A



TQ 160 2 37.4

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

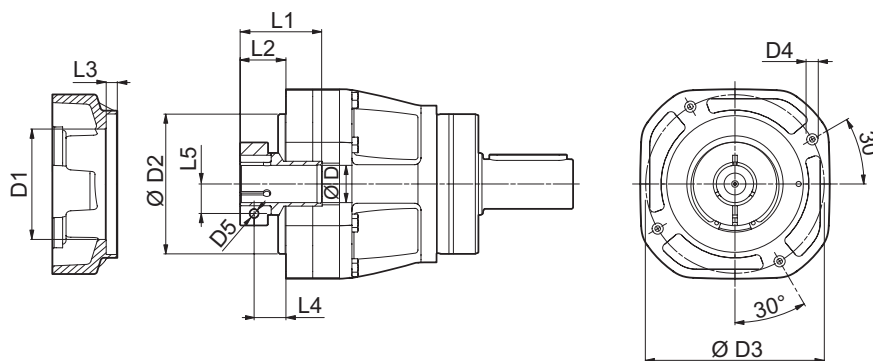
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

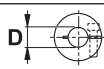


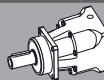
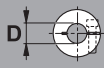
TQ 160

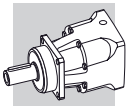
TQ

FM



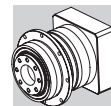
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQ 160 1										
19	58	150	175	M12x20	M6	47	37	9.5	28	19
24	58	150	175	M12x20	M6	47	37	9.5	28	19
28	70	150	175	M12x20	M8	47	37	9.5	28	22.5
32	72	150	175	M12x20	M8	47	37	9.5	28	24.5
38	100	150	175	M12x20	M8	59.5	39.5	9.5	28	28
42	114	150	175	M12x20	M10	57	43	9.5	28	33
48	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	$n_{1\max}$	$\varphi_S \leq \varphi_R$		C_t	$R_{2\max}$	$A_{2\max}$	η	J_G [kgcm ²]				
						φ_S	φ_R									
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	[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



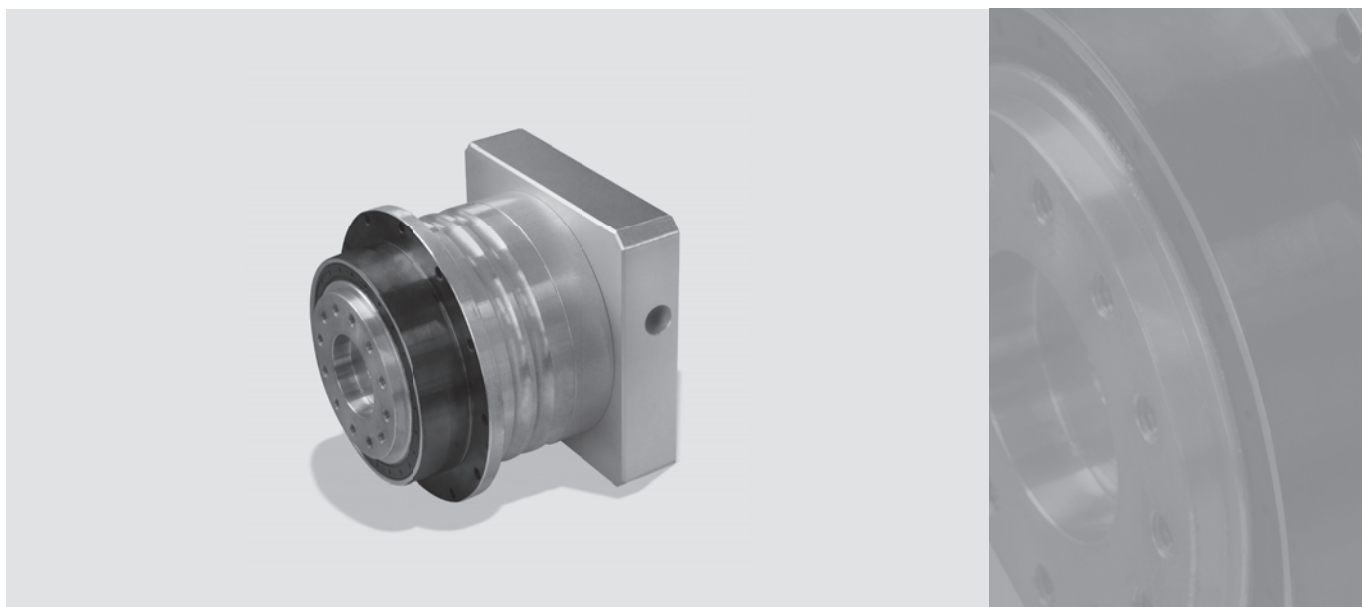


Nuovo TQF

RIDUTTORE EPICICLOIDALE DI PRECISIONE FLANGIATO

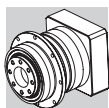
La serie TQF si posiziona ai vertici della gamma. Questo riduttore planetario è impressionante sotto molti aspetti. Offre prestazioni di assoluto rilievo in termini di coppia, robustezza e precisione. Ideale dove sono richieste elevata precisione di posizionamento, funzionamento ciclico altamente dinamico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

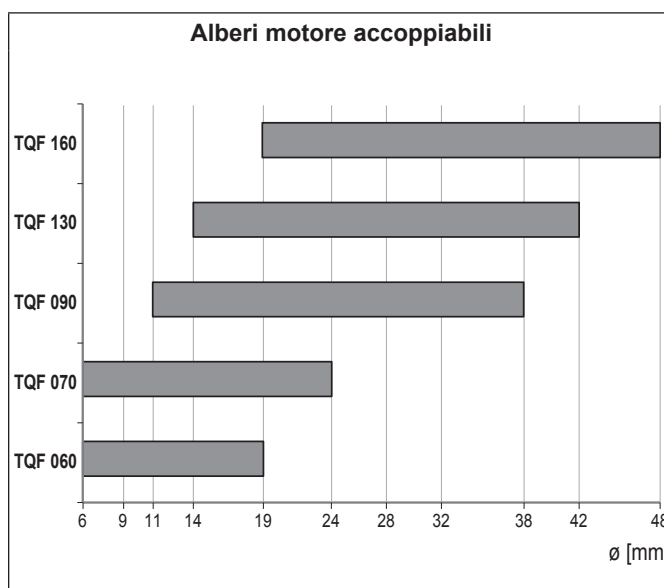
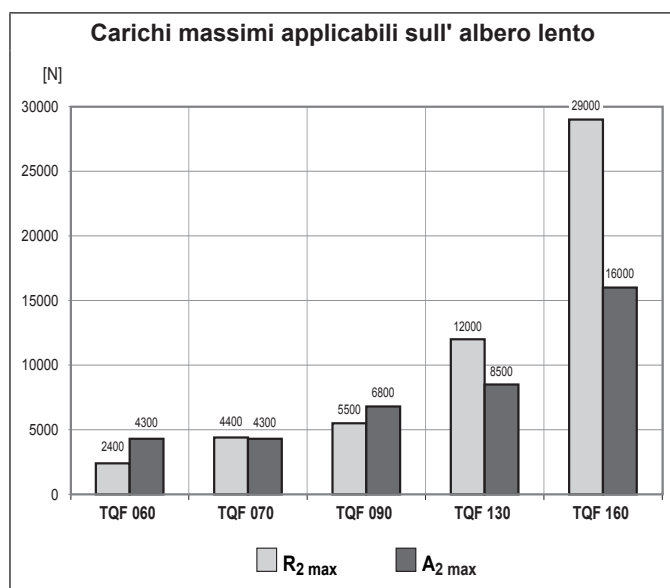
TQF

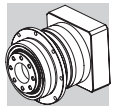
- La serie TQF dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
1 stadio di riduzione: standard $\varphi_S \leq 5'$ ridotto $\varphi_R \leq 3'$
2 stadi di riduzione: standard $\varphi_S \leq 7'$ ridotto $\varphi_R \leq 5'$
- Elevato grado di protezione contro 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

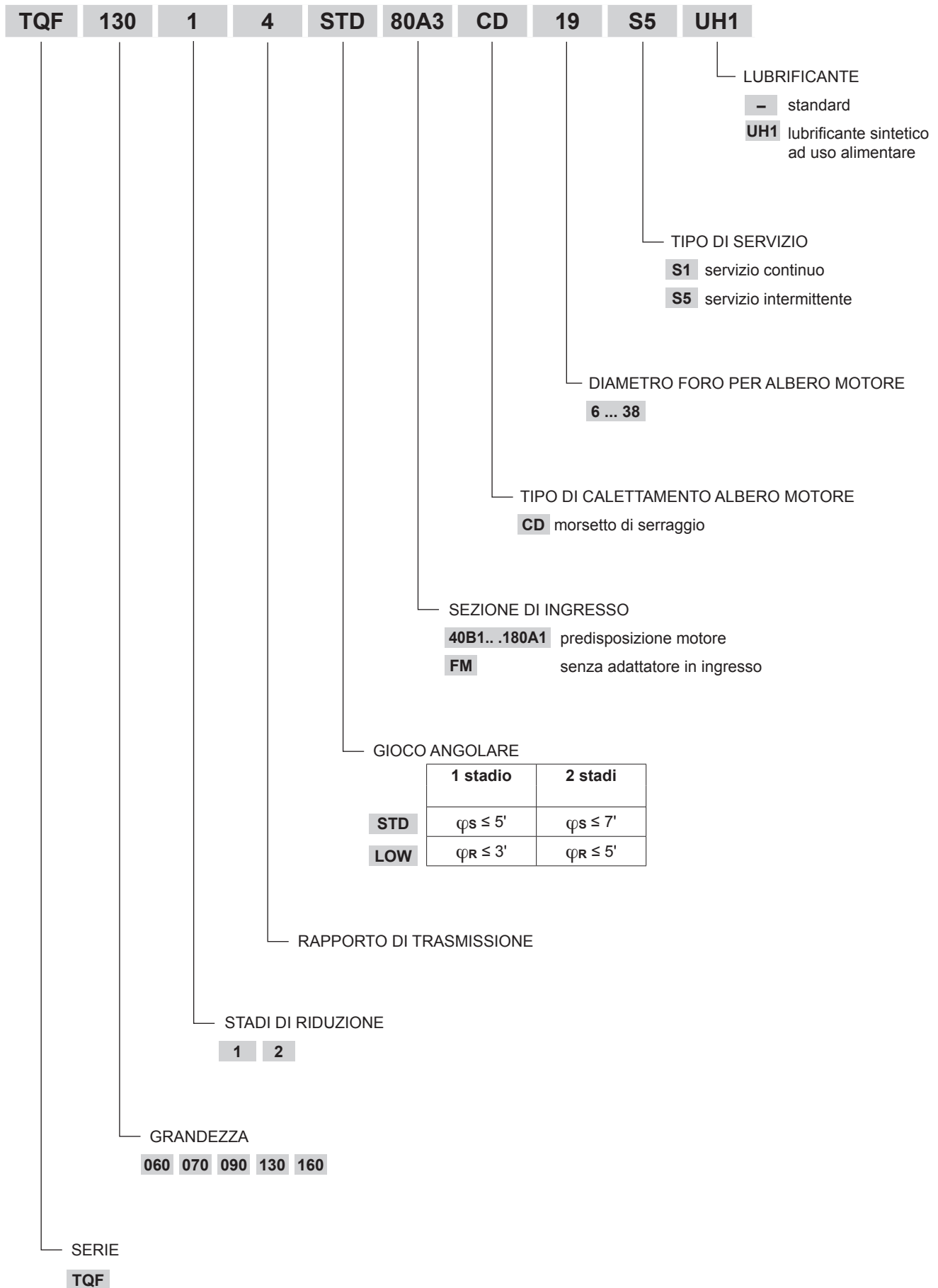
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore temico f_T .
- La temperatura sulla cassa non deve superare $T_{max} = 90^\circ\text{C}$.

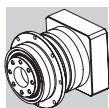
		Distribuzione coppia nominale M_{n2} [Nm]												
[i]		4	5	7	10	16	20	25	28	35	40	50	70	100
TQF 060		30	30	25	20	30	30	30	30	30	30	30	25	20
TQF 070		70	70	60	40	70	70	70	70	70	70	70	60	40
TQF 090		200	180	160	110	200	180	180	200	180	200	180	160	110
TQF 130		400	400	360	280	400	400	400	400	400	400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





3.1 CODICE ORDINATIVO

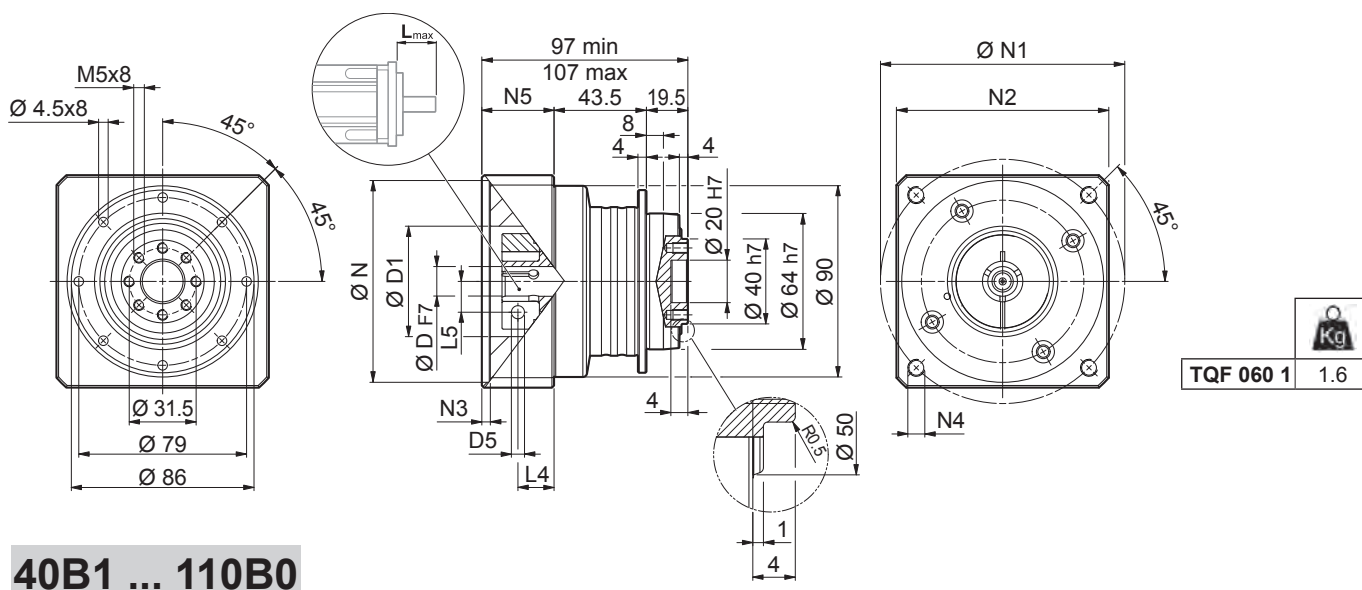




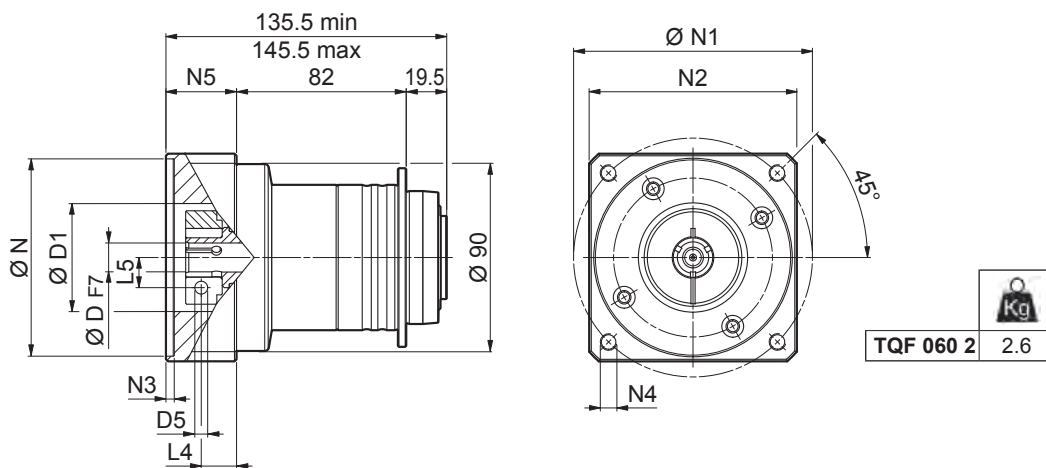
3.2 DIMENSIONI E DATI TECNICI



TQF 060

TQF

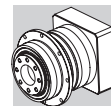


40B1 ... 110B0



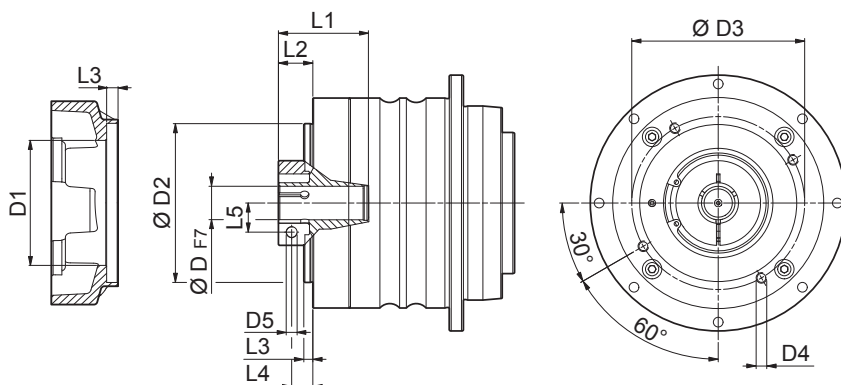
						N	N1	N2	N3	N4	N5	L _{max}
40B1	6	9	11	14	-	40	63	80	4	M4x12	34	40
50A1	6	9	11	14	-	50	60	80	4	M4x10	34	40
50C1	6	9	11	14	-	50	70	80	4	M4x10	34	40
60A2	6	9	11	14	19	60	75	80	4	M5x16	34	40
70B1	6	9	11	14	19	70	90	80	4	M5x16	34	40
80A1	6	9	11	14	19	80	100	90	4	M6x16	34	40
95A	6	9	11	14	19	95	115	100	6.5	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.

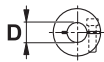




TQF 060

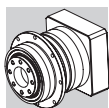
FM



TQF

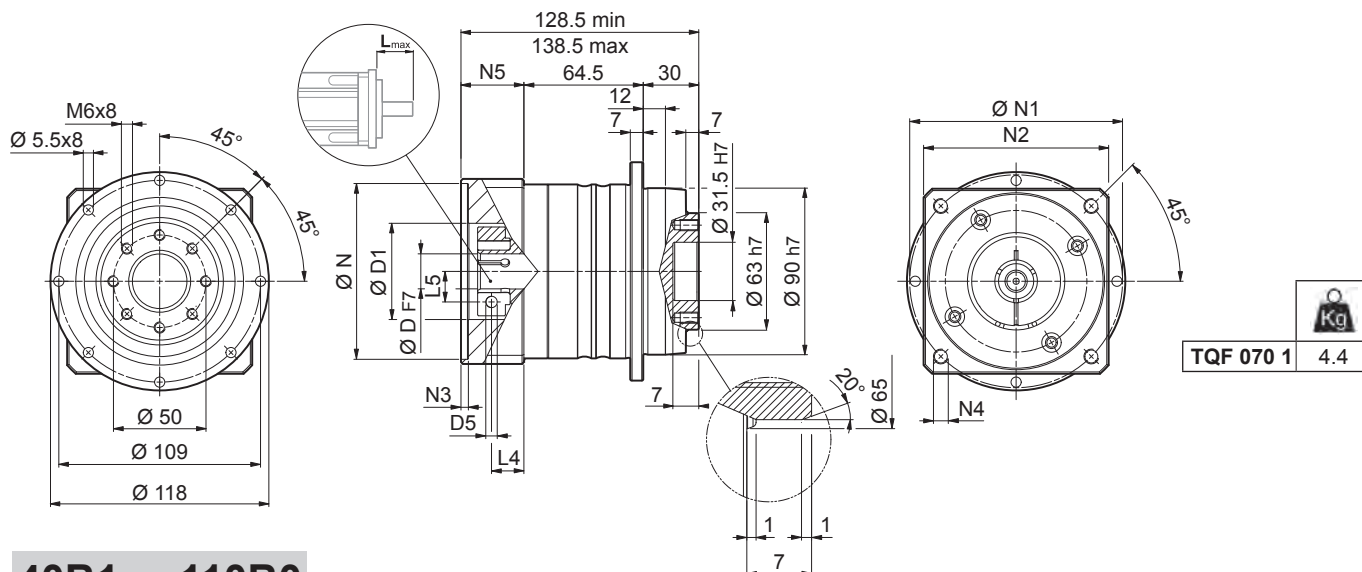
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	37	68	76.5	M6x12	M4	31.5	21.5	7.5	16	8
9	49	68	76.5	M6x12	M5	35	24.5	7.5	17	10.5
11	49	68	76.5	M6x12	M6	35	24.5	7.5	17	12.5
14	49	68	76.5	M6x12	M6	35	24.5	7.5	17	14.5
19	54	68	76.5	M6x12	M6	35	24.5	7.5	17	16.5

	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]	[arcmin]	[Nm/arcmin]	[N]	[N]	%		6 - 9	11 - 14	19
TQF 060 1_4		30	45	80	3500	6000	5'	3'	12	2400	4300	97	0.32	0.43	0.47
TQF 060 1_5		30	45	80	3500	6000	5'	3'	12	2400	4300	97	0.27	0.39	0.42
TQF 060 1_7		25	38	70	4000	6000	5'	3'	12	2400	4300	97	0.23	0.35	0.38
TQF 060 1_10		20	30	55	4000	6000	5'	3'	12	2400	4300	97	0.21	0.33	0.36
TQF 060 2_16		30	45	80	4500	6000	7'	5'	12	2400	4300	94	0.28	0.39	0.43
TQF 060 2_20		30	45	80	4500	6000	7'	5'	12	2400	4300	94	0.27	0.39	0.42
TQF 060 2_25		30	45	80	4500	6000	7'	5'	12	2400	4300	94	0.25	0.36	0.40
TQF 060 2_28		30	45	80	4500	6000	7'	5'	12	2400	4300	94	0.22	0.34	0.37
TQF 060 2_35		30	45	80	4500	6000	7'	5'	12	2400	4300	94	0.22	0.33	0.37
TQF 060 2_40		30	45	80	4500	6000	7'	5'	12	2400	4300	94	0.21	0.32	0.36
TQF 060 2_50		30	45	80	4500	6000	7'	5'	12	2400	4300	94	0.21	0.32	0.36
TQF 060 2_70		25	38	70	5000	6000	7'	5'	12	2400	4300	94	0.21	0.32	0.36
TQF 060 2_100		20	30	55	5000	6000	7'	5'	12	2400	4300	94	0.21	0.32	0.36



TQF 070

50C2 ... 130A



40B1 ... 110B0

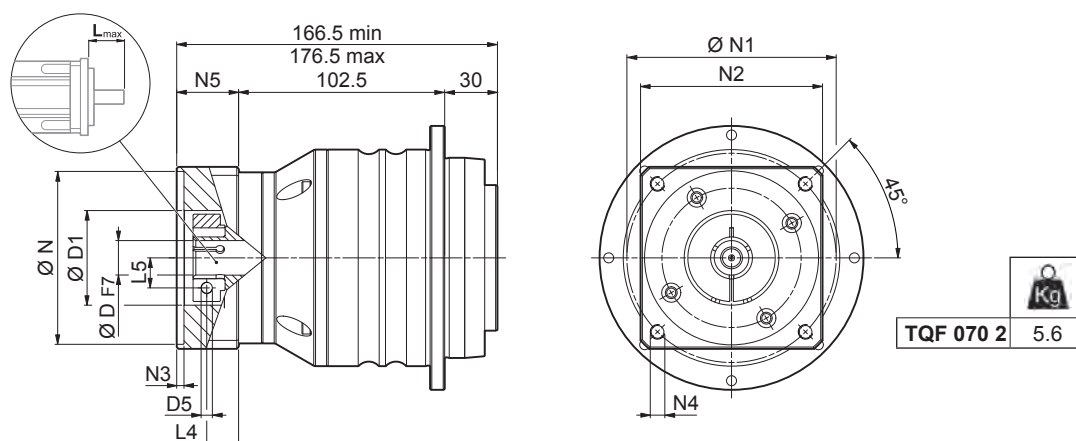
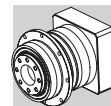


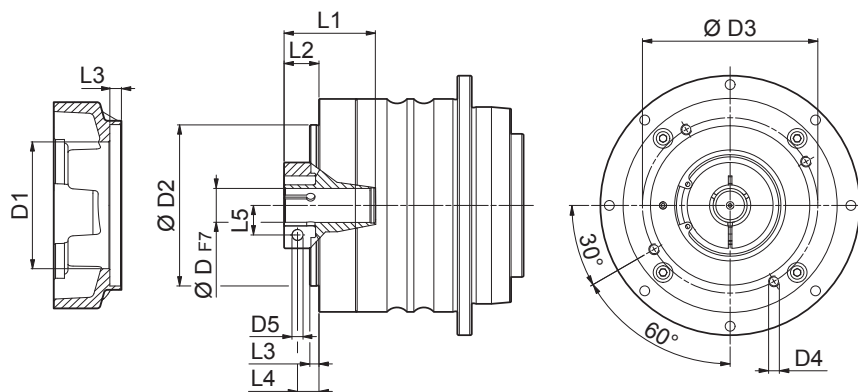
Image	D						N	N1	N2	N3	N4	N5	L _{max}
	Ø	Ø	Ø	Ø	Ø	Ø							
TQF 070 1													
50C2	6	9	11	14	-	-	50	70	80	4	M4x10	34	50
60A3	6	9	11	14	19	-	60	75	80	4	M5x16	34	50
70B2	6	9	11	14	19	-	70	90	80	4	M5x16	34	50
80A2	6	9	11	14	19	-	80	100	90	4	M6x16	34	50
95A1	6	9	11	14	19	24	95	115	100	6.5	M8x20	34	50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

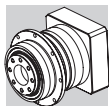
FM



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

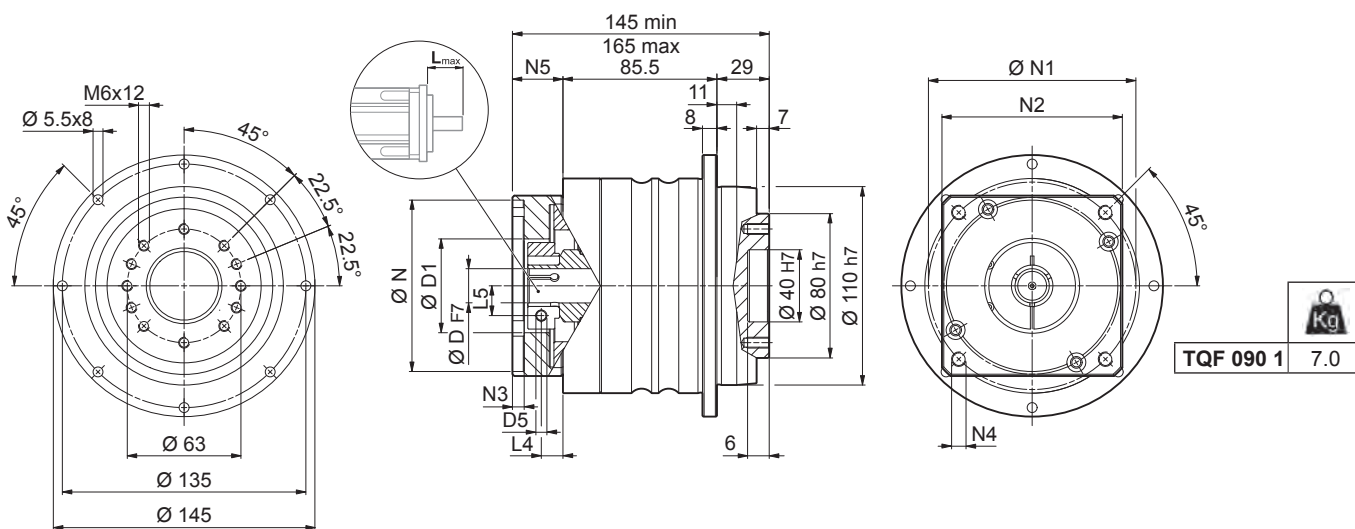
	M_{n2}	M_{a2}	M_{p2}	n_1	$n_{1\max}$	φ_S	φ_R	C_t	$R_{2\max}$	$A_{2\max}$	η	J_G [kgcm ²]			
												D	6 - 9	11 - 14	19
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	\leq	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	%				
TQF 070 1_4	70	100	180	3000	6000	5'	3'	29	4400	4300	97	-	1.05	1.09	1.22
TQF 070 1_5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



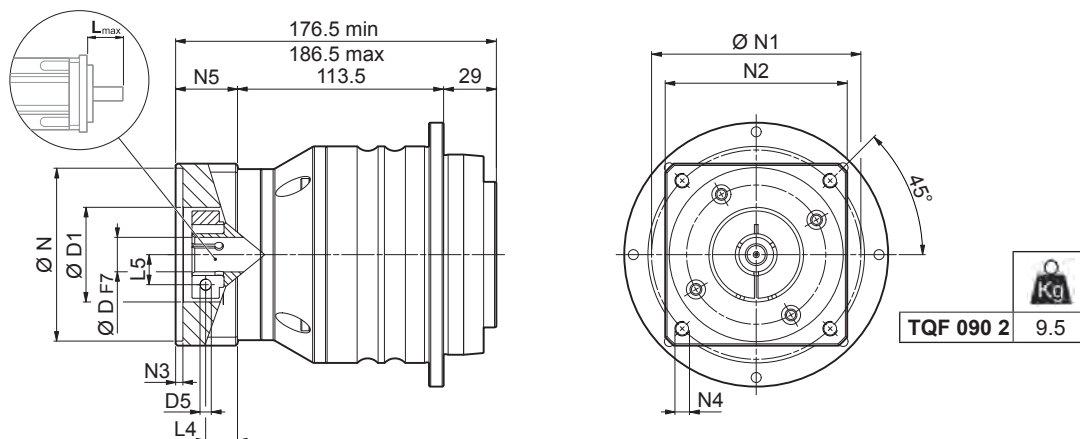
TQF 090

60A4 ... 180A

TQF

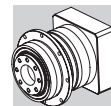


50C2 ... 130A



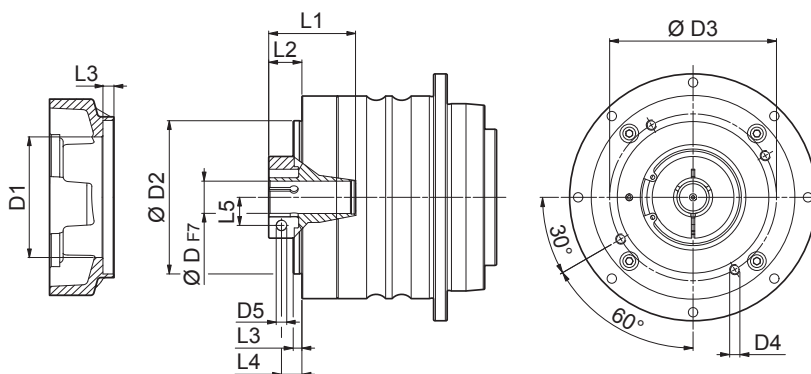
	D						N	N1	N2	N3	N4	N5	L _{max}
TQF 090 1													
60A4	11	14	19	-	-	-	60	75	100	6.5	M5x14	28	60
80A3	11	14	19	-	-	-	80	100	100	6.5	M6x16	28	60
95A2	11	14	19	24	28	-	95	115	100	6.5	M8x18	28	60
110A2	11	14	19	24	-	-	110	130	115	6.5	M8x18	28	60
110B1	11	14	19	24	28	-	110	145	120	6.5	M8x20	38	60
130A1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

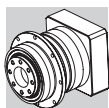
FM



TQF

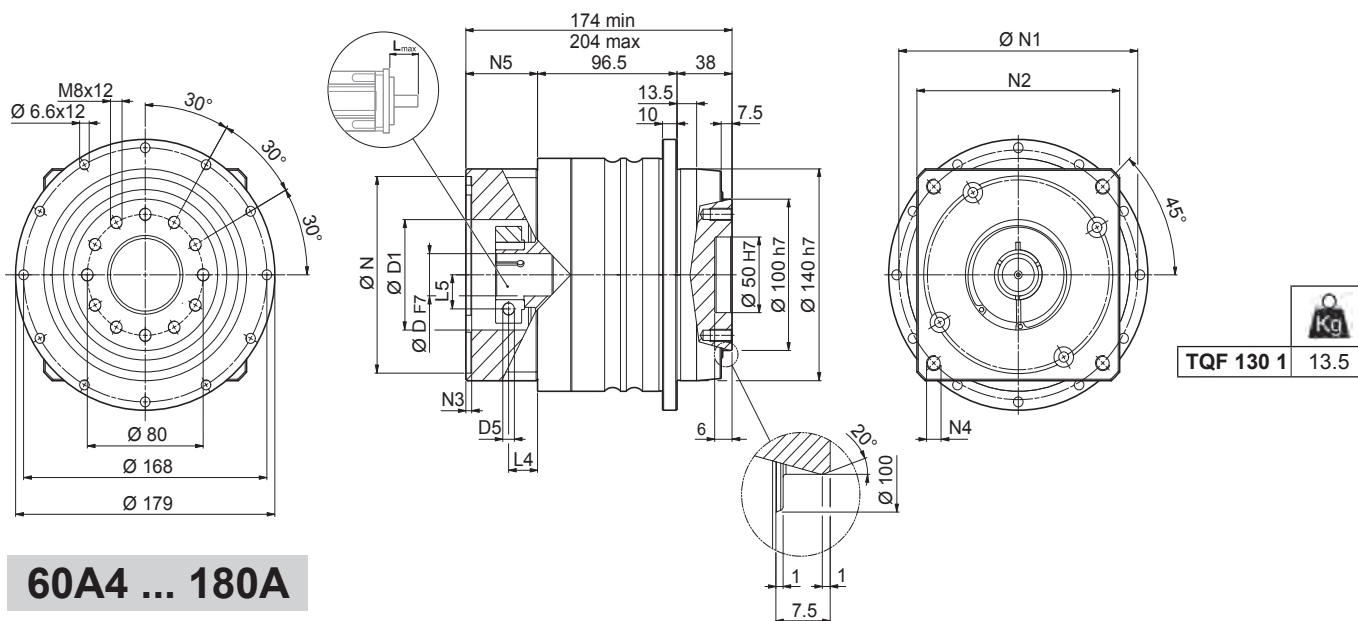
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 090 1										
11	49	90	98	M6x12	M6	50	17	4	9.5	12.5
14	51	90	98	M6x12	M6	50	17	4	9.5	14.5
19	51	90	98	M6x12	M6	50	17	4	9.5	16.5
24	60	90	98	M6x12	M6	51.5	18.5	4	9.5	19
28	72	90	98	M6x12	M8	51.5	18.5	4	9.5	22.5
32	72	90	98	M6x12	M8	51.5	18.5	5	12	24.5
38	80	90	98	M6x12	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_{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 [kgm ²]				
												i	[Nm]	[Nm]	[Nm]	[min ⁻¹]
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	-	-

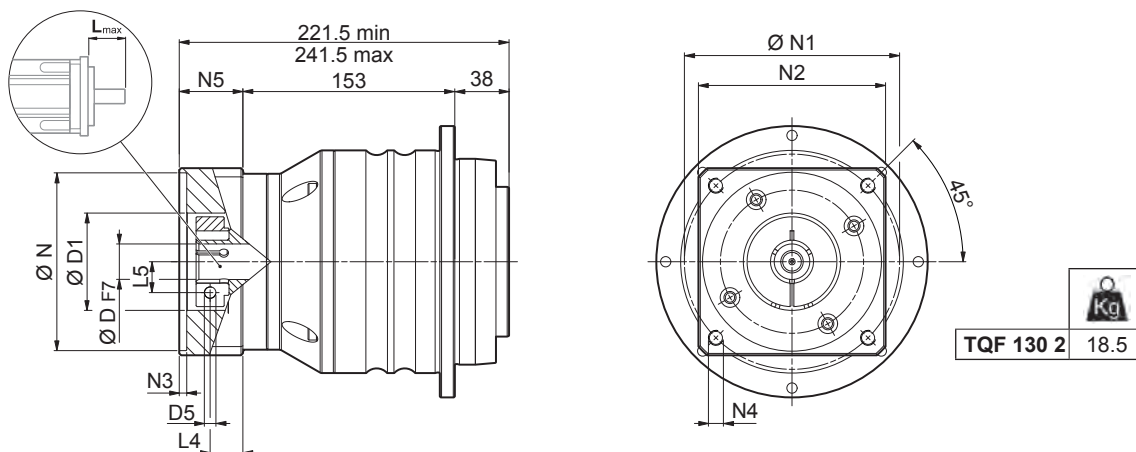


TQF 130

80A3 ... 180A1

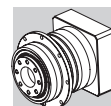


60A4 ... 180A



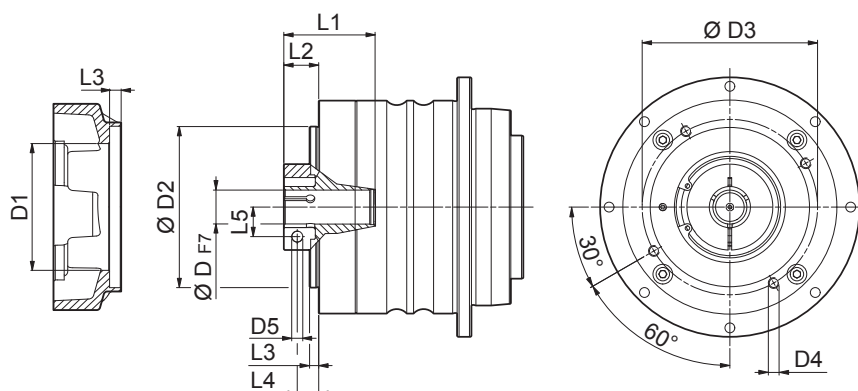
	D						N	N1	N2	N3	N4	N5	L _{max}
TQF 130 1													
80A3	14	19	-	-	-	-	80	100	130	4	M6x15	39.5	60
95A2	14	19	24	28	-	-	95	115	130	6.5	M8x20	39.5	60
110A2	14	19	24	-	-	-	110	130	130	4	M8x20	39.5	60
110B1	14	19	24	28	-	-	110	145	130	6.5	M8x20	49.5	60
130A1	14	19	24	28	32	-	130	165	140	4	M10x20	39	60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

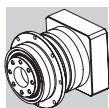
FM



TQF

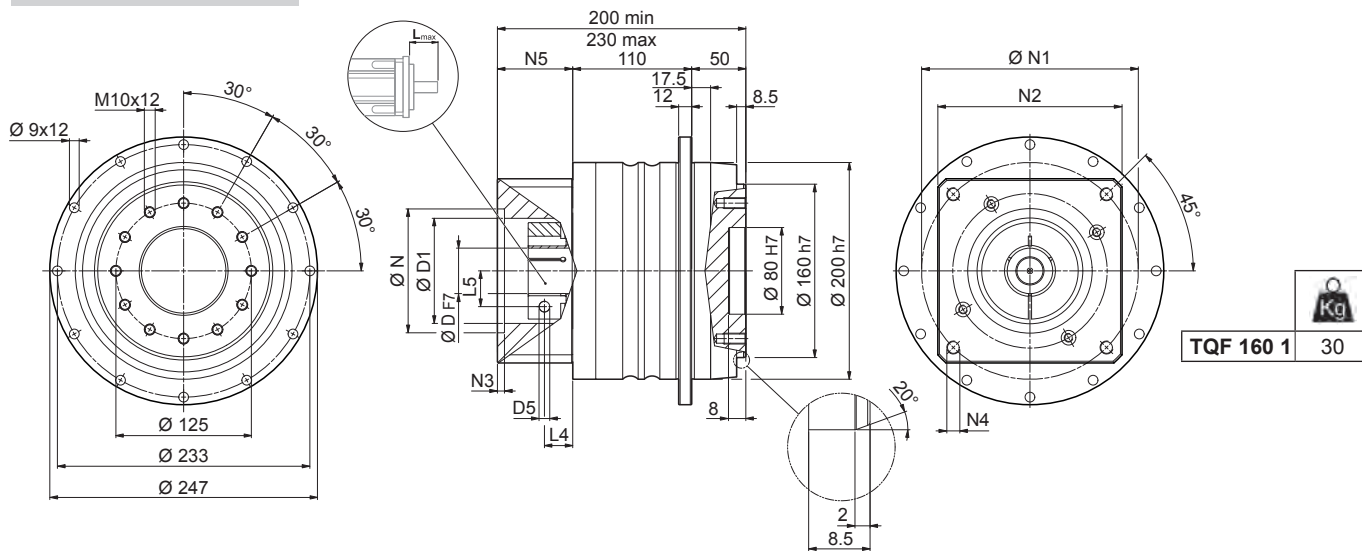
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 130 1										
14	51	113	125.5	M8x16	M6	50	30.5	5	23	14.5
19	54	113	125.5	M8x16	M6	50	27.5	5	20	16.5
24	70	113	125.5	M8x16	M6	51.5	29	5	20	19
28	70	113	125.5	M8x16	M8	51.5	29	5	20	22.5
32	72	113	125.5	M8x16	M8	51.5	29	5	20	24.5
38	100	113	125.5	M8x16	M8	54	31.5	5	20	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_{n2}	M_{a2}	M_{p2}	n_1	$n_{1\max}$	$\varphi_S \leq \varphi_R$		C_t	$R_{2\max}$	$A_{2\max}$	η	J_G [kgcm ²]				
						[Nm]	[Nm]					[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[Nm/arcmin]
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	-

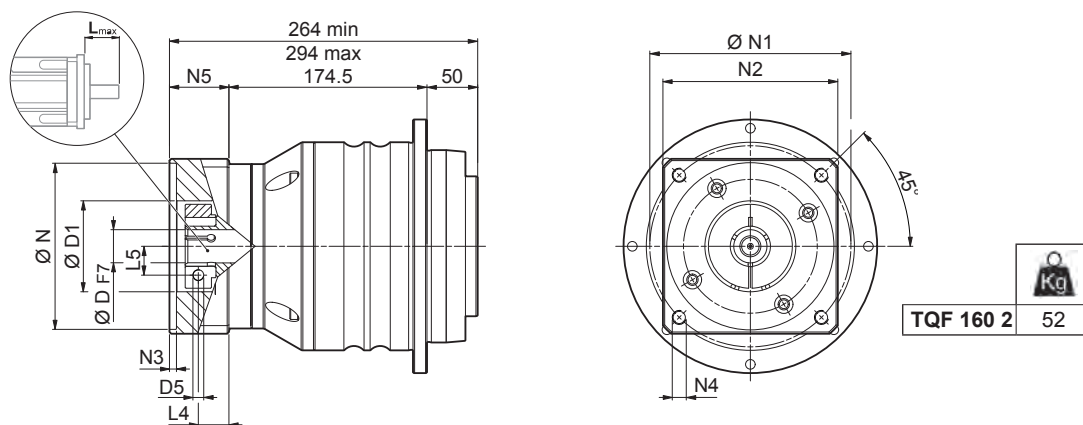


TQF 160

95A2 ... 180A1

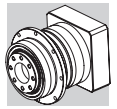


80A3 ... 180A1



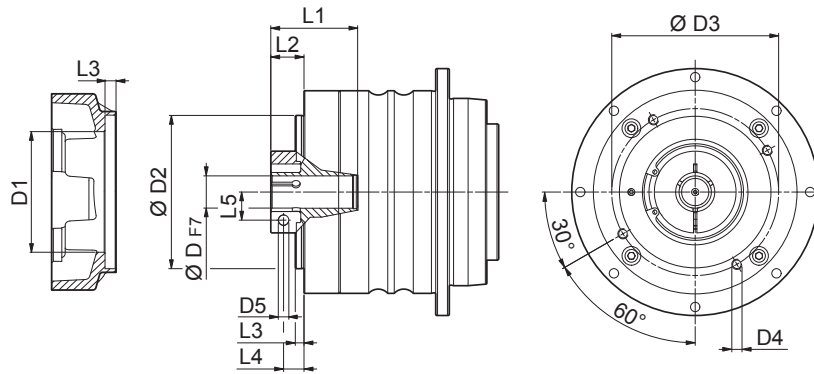
	D					N	N1	N2	N3	N4	N5	L _{max}
TQF 160 1												
95A2	19	24	28	-	-	95	115	140	6.5	M8x20	39.5	60
110A2	19	24	-	-	-	110	130	140	5	M8x20	39.5	60
130A1	19	24	28	32	-	130	165	140	5	M10x20	39.5	60
180A	-	24	28	32	-	180	215	190	6.5	M14x25	49.5	60
180A1	19	24	28	32	38	180	215	190	6.5	M14x25	69.5	80
TQF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

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





TQF 160

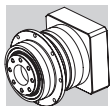
FM



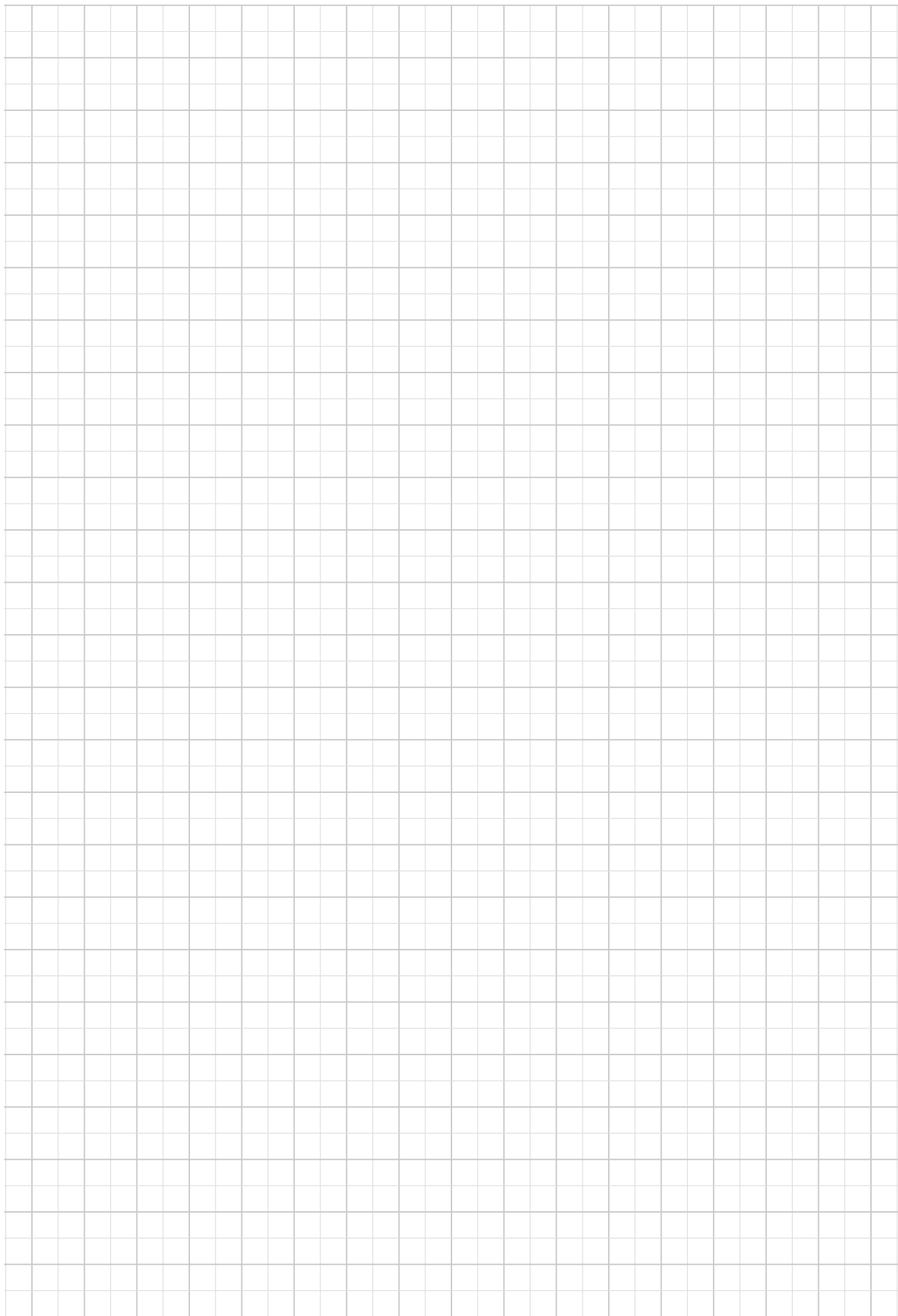
TQF

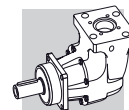
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQF 160 1										
19	54	130	142.5	M8x16	M6	47	33.5	8	26	16.5
24	58	130	142.5	M8x16	M6	47	35	8	26	19
28	70	130	142.5	M8x16	M8	47	35	8	26	22.5
32	72	130	142.5	M8x16	M8	47	35	8	26	24.5
38	100	130	142.5	M8x16	M8	59.5	37.5	8	26	28
42	114	130	142.5	M8x16	M10	57	41	8	26	33
48	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	$n_1 \max$	φ_s	φ_R	C_t	$R_2 \max$	$A_2 \max$	η	J_G [kgcm ²]						
												\leq	$\frac{Nm}{arcmin}$	[N]	[N]	%	19	24 - 28
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]												
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

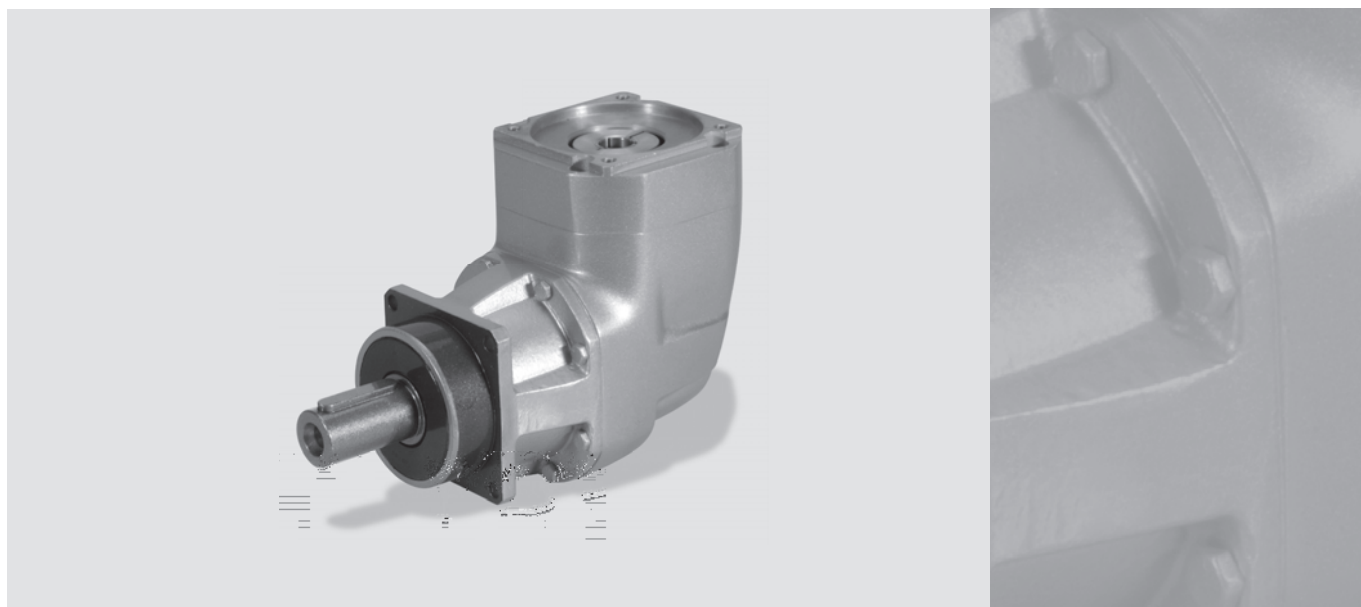
RIDUTTORE EPICICLOIDALE ORTOGONALE DI PRECISIONE

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.

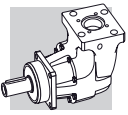
Questo interessante prodotto offre prestazioni di assoluto rilievo in termini di coppia, robustezza e precisione.

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.

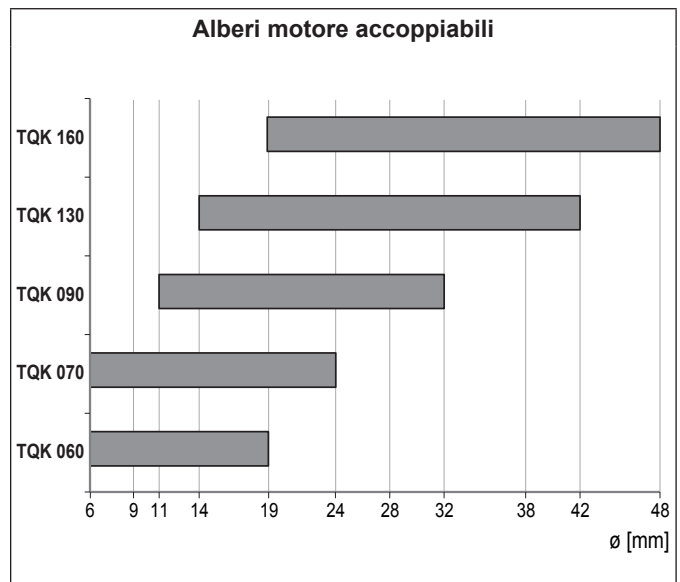
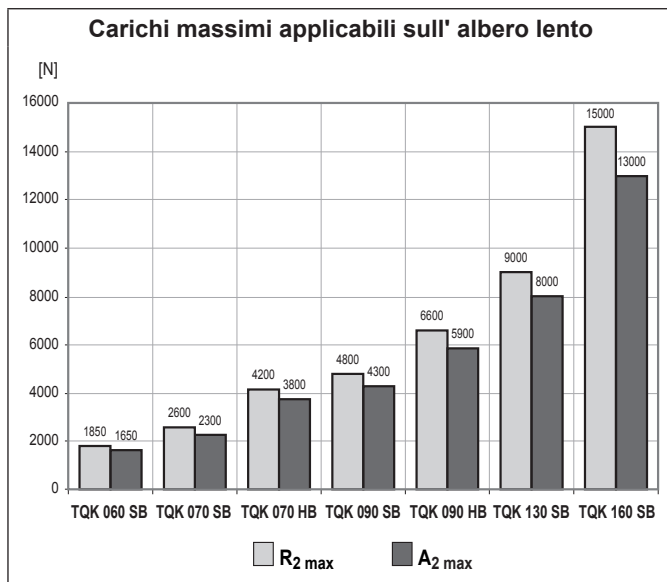
I gruppi ortogonali TQK coniugano prestazioni dinamiche elevate con una precisione al vertice della categoria, e tale da consentire grande accuratezza e ripetibilità ai posizionamenti in cui sono utilizzati. I gruppi TQK inoltre sono caratterizzati da un design tipicamente Italiano, che li rende immediatamente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

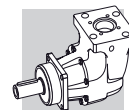
- La serie TQK dispone di due classi di precisione, corrispondenti ai seguenti valori di gioco angolare:
2 stadi di riduzione: standard $\varphi_S \leq 5'$; ridotto $\varphi_R \leq 4'$ ($\varphi_S \leq 6'$; $\varphi_R \leq 5'$ per TQK 060 e TQK 070)
3 stadi di riduzione: standard $\varphi_S \leq 7'$; 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

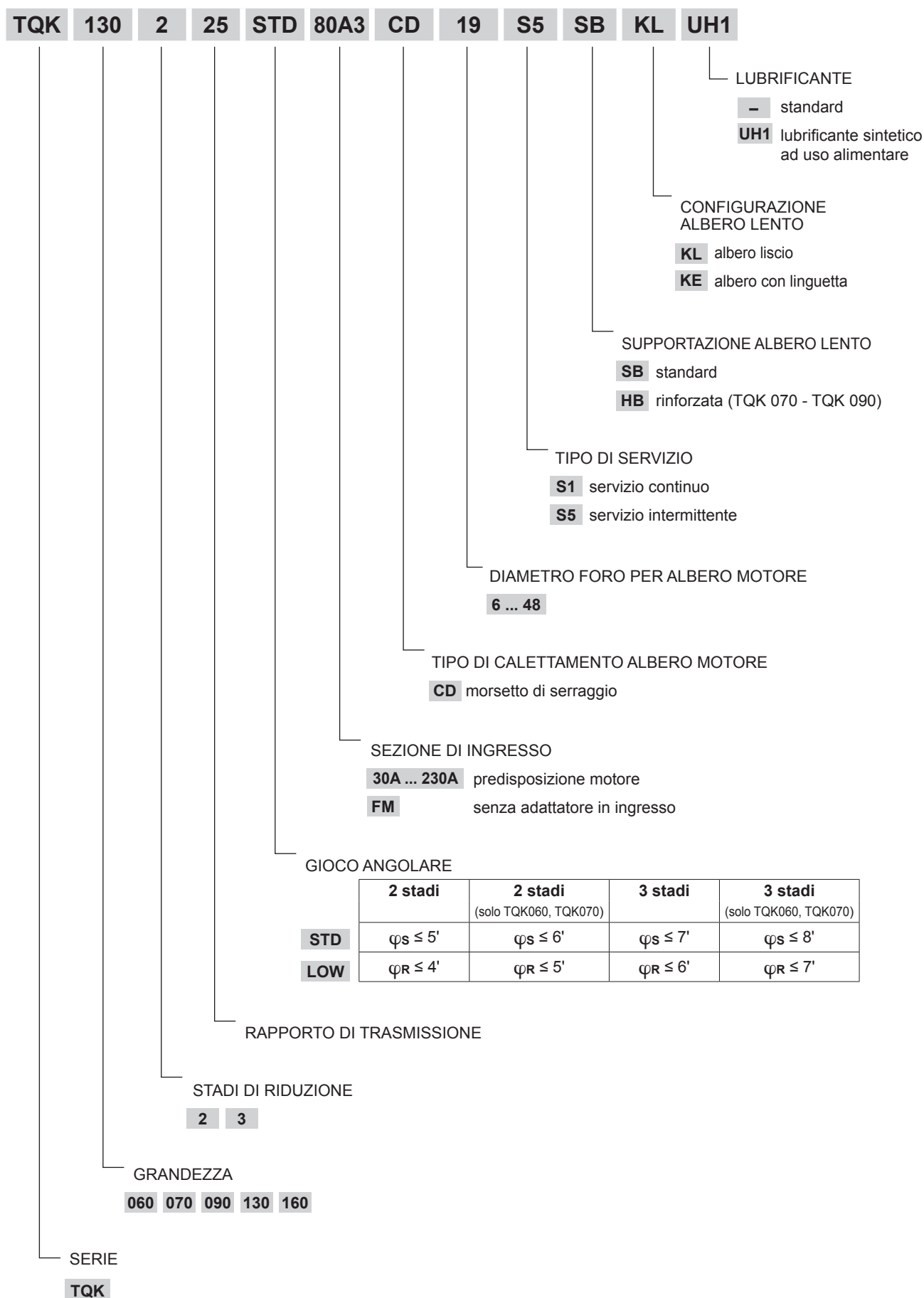
- Temperatura ambiente min -20°C , max $+30^\circ\text{C}$. Per temperature superiori a 30°C deve essere considerato il fattore termico f_T .
- La temperatura sulla cassa non deve superare $T_{\text{max}} = 90^\circ\text{C}$.

		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

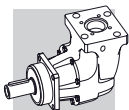




4.1 CODICE ORDINATIVO

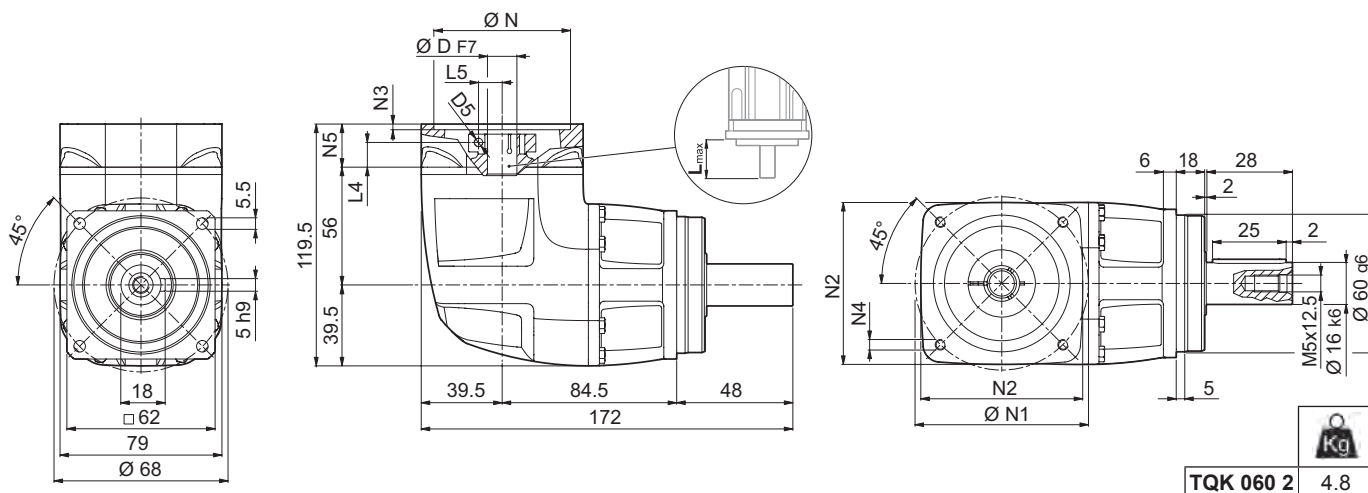


TQK



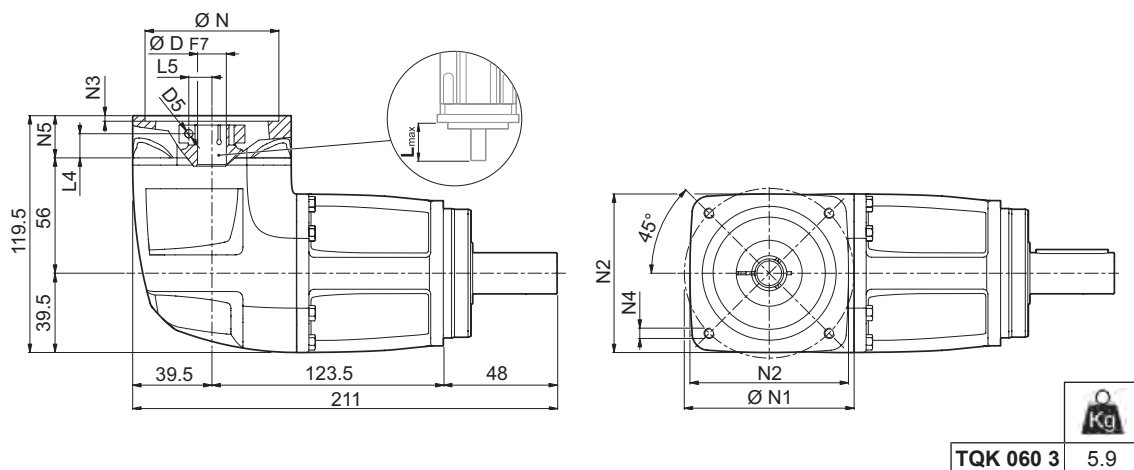
4.2 DIMENSIONI E DATI TECNICI

TQK 060



TQK 060 2 4.8

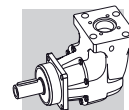
30A ... 110B0



TQK 060 3 5.9

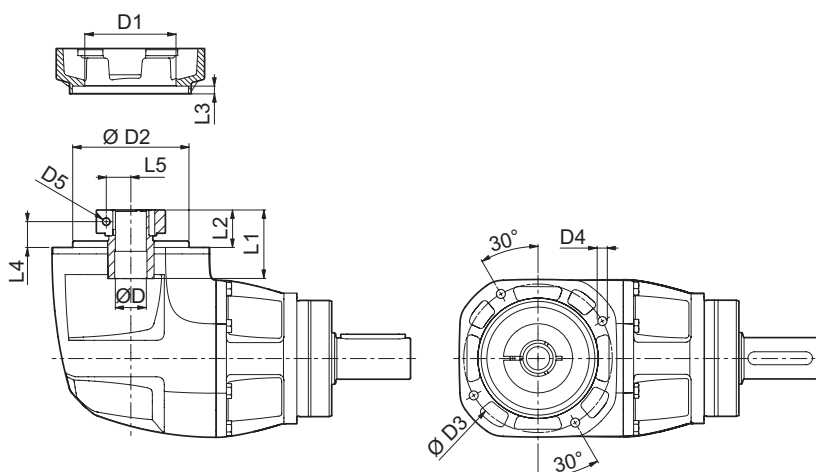
						N	N1	N2	N3	N4	N5	Lmax
30A	6	-	-	-	-	30	46	60	3.5	M4x10	24	40
40B1	6	9	11	14	-	40	63	60	3.5	M4x10	24	40
50A1	6	9	11	14	-	50	60	60	4.0	M4x10	24	40
50C1	6	9	11	14	-	50	70	60	4.0	M4x10	24	40
60A2	6	9	11	14	19	60	75	80	4.0	M5x12	24	40
70B1	6	9	11	14	19	70	90	80	4.0	M5x12	24	40
80A1	6	9	11	14	19	80	100	100	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.



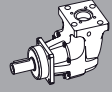
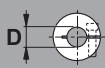
TQK 060

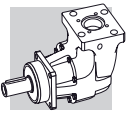
FM



	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

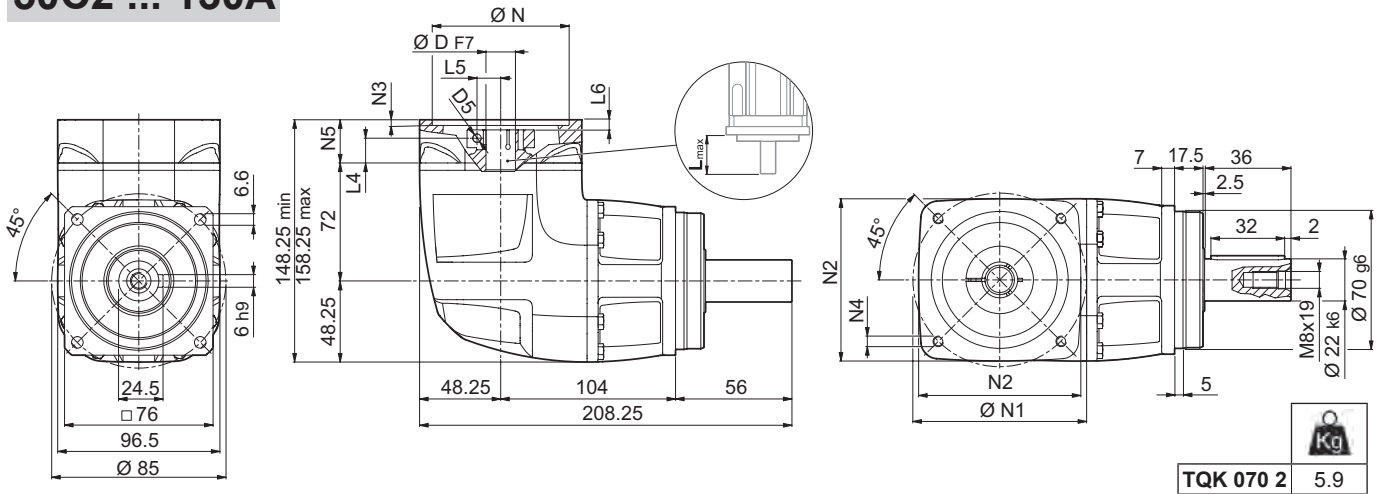
TQK

	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 [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]		
														6 - 9	11 - 14
TQK 060 2_6		21	30	45	2500	5000	6'	5'	4.3	1850	1650	94	0.76	0.78	0.78
TQK 060 2_8		28	40	60	2500	5000	6'	5'	4.3	1850	1650	94	0.75	0.76	0.77
TQK 060 2_10		30	45	70	2500	5000	6'	5'	4.3	1850	1650	94	0.73	0.75	0.75
TQK 060 2_14		25	38	70	2500	5000	6'	5'	4.3	1850	1650	94	0.72	0.73	0.74
TQK 060 2_20		20	30	55	2500	5000	6'	5'	4.3	1850	1650	94	0.71	0.72	0.73
TQK 060 3_18		21	32	60	2500	5000	8'	7'	4.3	1850	1650	91	0.61	0.62	0.63
TQK 060 3_24		30	45	80	2500	5000	8'	7'	4.3	1850	1650	91	0.61	0.62	0.63
TQK 060 3_30		30	45	80	2500	5000	8'	7'	4.3	1850	1650	91	0.60	0.62	0.62
TQK 060 3_40		30	45	80	2500	5000	8'	7'	4.3	1850	1650	91	0.60	0.61	0.62
TQK 060 3_50		30	45	80	2500	5000	8'	7'	4.3	1850	1650	91	0.60	0.61	0.62
TQK 060 3_70		30	45	80	2500	5000	8'	7'	4.3	1850	1650	91	0.60	0.61	0.62
TQK 060 3_80		30	45	80	2500	5000	8'	7'	4.3	1850	1650	91	0.60	0.61	0.62
TQK 060 3_100		30	45	80	2500	5000	8'	7'	4.3	1850	1650	91	0.59	0.61	0.61
TQK 060 3_140		25	38	70	2500	5000	8'	7'	4.3	1850	1650	91	0.59	0.61	0.61
TQK 060 3_200		20	30	55	2500	5000	8'	7'	4.3	1850	1650	91	0.59	0.61	0.61



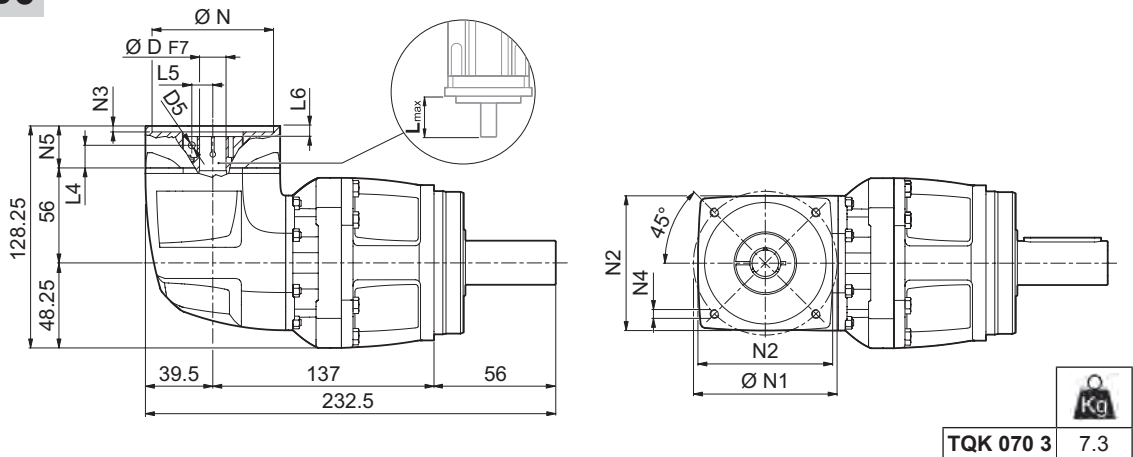
TQK 070

50C2 ... 130A



TQK 070 2 5.9

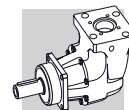
30A ... 110B0



TQK 070 3 7.3

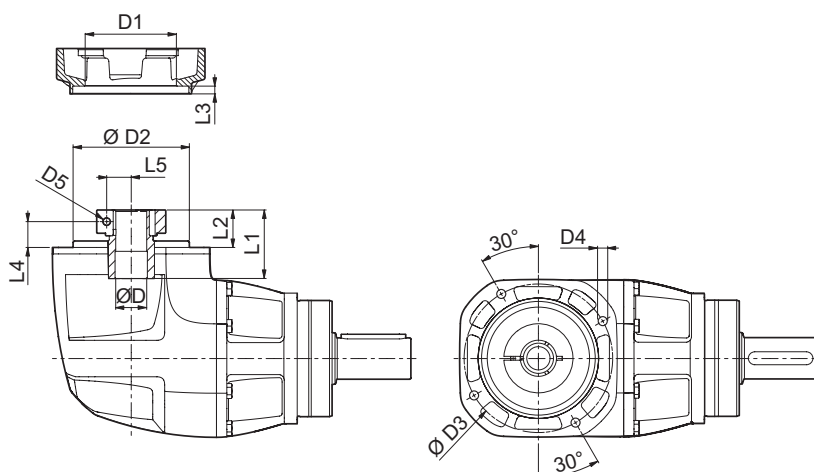
D	D						N	N1	N2	N3	N4	N5	L _{max}
	6	9	11	14	19	24							
TQK 070 2													
50C2	6	9	11	14	-	-	50	70	80	6.5	M4x12	28	50
60A3	6	9	11	14	19	-	60	75	80	6.5	M5x14	28	50
70B2	6	9	11	14	19	-	70	90	80	6.5	M5x14	28	50
80A2	6	9	11	14	19	-	80	100	100	6.5	M6x14	28	50
95A1	6	9	11	14	19	24	95	115	100	6.5	M8x18	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

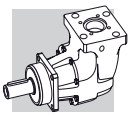
FM



TQK

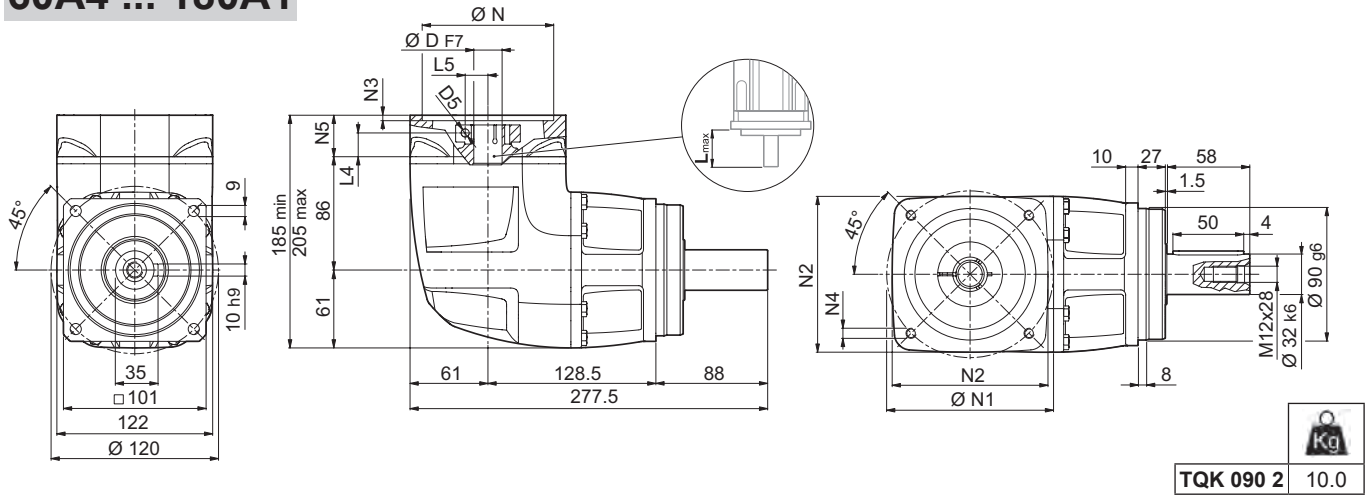
D	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 070 2										
11	51	70	85	M6x11	M6	42	20	5	12.5	12.5
14	51	70	85	M6x11	M6	42	20	5	12.5	14.5
19	51	70	85	M6x11	M6	42	20	5	12.5	16.5
24	60	70	85	M6x11	M6	43.5	21.5	5	12.5	19
TQK 070 3										
6	37	59	72	M5x11	M4	31.5	15.5	4.5	10.5	8
9	49	59	72	M5x11	M5	35	19	4.5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

 i	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]			
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	≤	$\frac{Nm}{arcmin}$	R _{2 max} [N]	A _{2 max} [N]	R _{2 max} [N]	A _{2 max} [N]	%	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	-

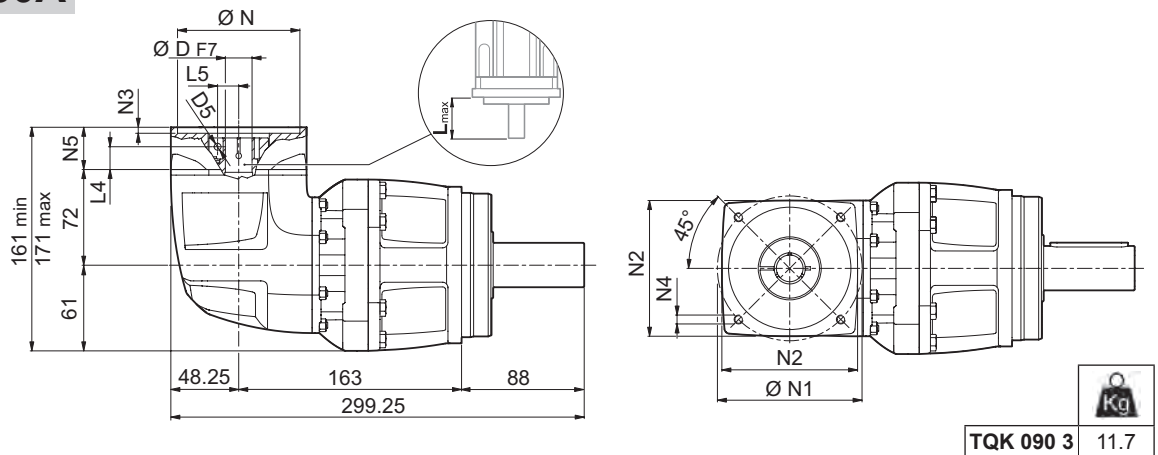


TQK 090

60A4 ... 180A1

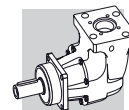


50C2 ... 130A



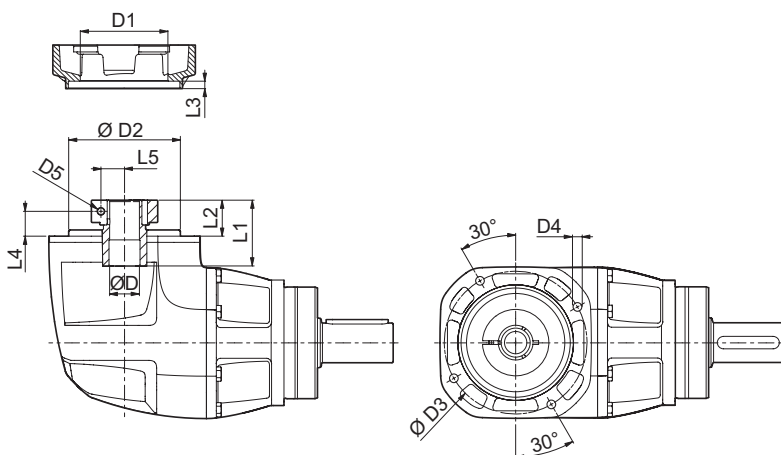
	D						N	N1	N2	N3	N4	N5	L _{max}
TQK 090 2													
60A4	11	14	19	-	-	-	60	75	100	6.5	M5x14	38	60
80A3	11	14	19	-	-	-	80	100	100	6.5	M6x14	38	60
95A2	11	14	19	24	28	-	95	115	100	6.5	M8x18	38	60
110A2	11	14	19	24	-	-	110	130	122	6.5	M8x20	38	60
110B1	11	14	19	24	28	-	110	145	122	6.5	M8x20	38	60
130A1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


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



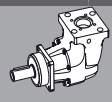
TQK 090

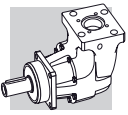
FM



	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

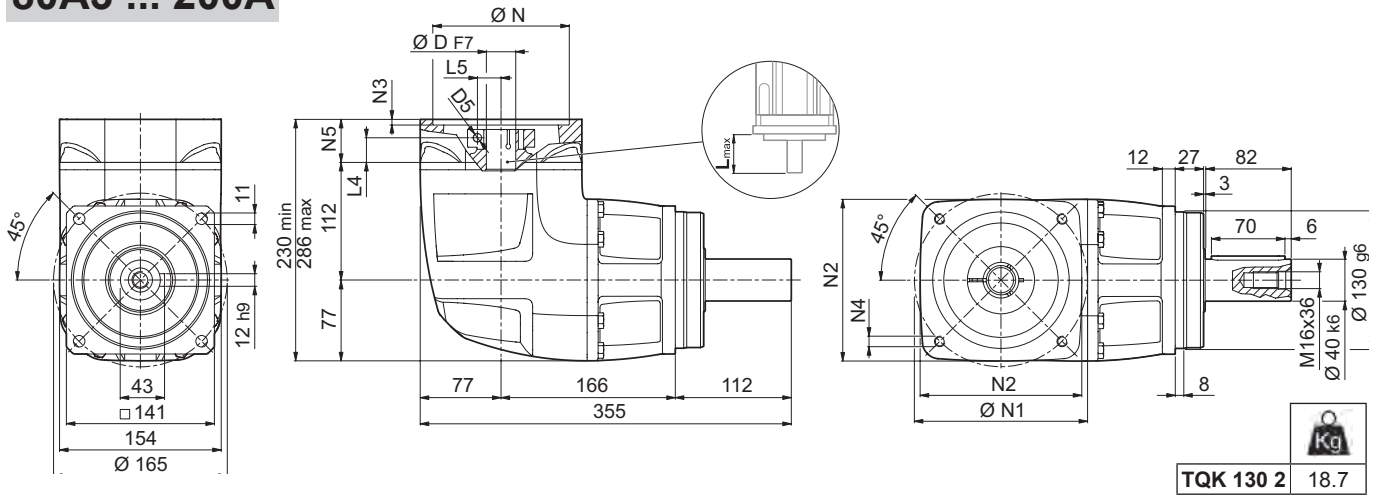
TQK

	i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _S ≤	φ _R	C _t [$\frac{Nm}{arcmin}$]	SB		HB		η %	J _G [kgcm ²]			
										R _{2 max} [N]	A _{2 max} [N]	R _{2 max} [N]	A _{2 max} [N]		11	14	19 - 24	28 - 32
TQK 090 2_6		110	150	225	2000	4500	5'	4'	28	4800	4300	6600	5900	94	-	4.82	4.89	5.42
TQK 090 2_8		150	208	300	2000	4500	5'	4'	28	4800	4300	6600	5900	94	-	4.56	4.63	5.16
TQK 090 2_10		180	260	360	2000	4500	5'	4'	28	4800	4300	6600	5900	94	-	4.45	4.51	5.04
TQK 090 2_14		160	250	500	2000	4500	5'	4'	28	4800	4300	6600	5900	94	-	4.34	4.41	4.94
TQK 090 2_20		110	170	350	2000	4500	5'	4'	28	4800	4300	6600	5900	94	-	4.29	4.36	4.88
TQK 090 3_18		130	200	400	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.56	3.63	3.70	-
TQK 090 3_24		200	300	500	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.53	3.60	3.67	-
TQK 090 3_30		180	280	500	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.52	3.59	3.66	-
TQK 090 3_40		180	280	500	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.45	3.52	3.58	-
TQK 090 3_50		180	280	500	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.42	3.49	3.56	-
TQK 090 3_70		180	280	500	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.40	3.46	3.53	-
TQK 090 3_80		200	300	500	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.38	3.45	3.52	-
TQK 090 3_100		180	280	500	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.38	3.45	3.52	-
TQK 090 3_140		160	250	500	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.38	3.45	3.52	-
TQK 090 3_200		110	170	350	2000	4500	7'	6'	28	4800	4300	6600	5900	91	3.38	3.45	3.52	-



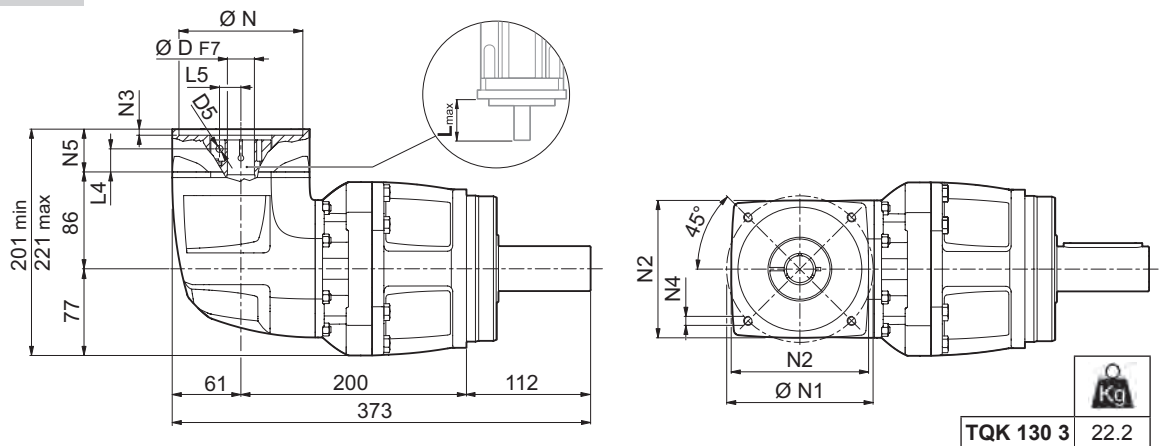
TQK 130

80A3 ... 200A





TQK 130 2 18.7

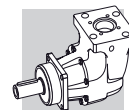
60A4 ... 180A1



TQK 130 3 22.2

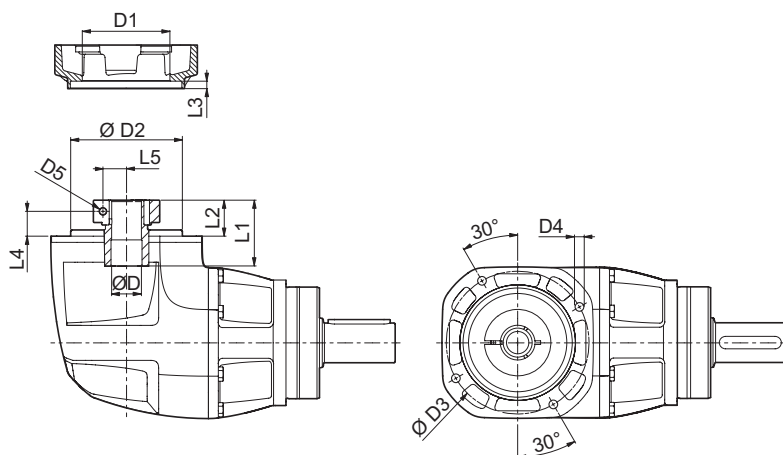
									N	N1	N2	N3	N4	N5	L _{max}
TQK 130 2															
80A3	14	19	-	-	-	-	-	80	100	130	6.5	M6x14	41	60	
95A2	14	19	24	28	-	-	-	95	115	130	6.5	M8x18	41	60	
110A2	14	19	24	-	-	-	-	110	130	130	6.5	M8x20	41	60	
110B1	14	19	24	28	-	-	-	110	145	130	6.5	M8x20	41	60	
130A1	14	19	24	28	32	-	-	130	165	154	6.5	M10x20	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

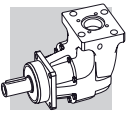
FM



TQK

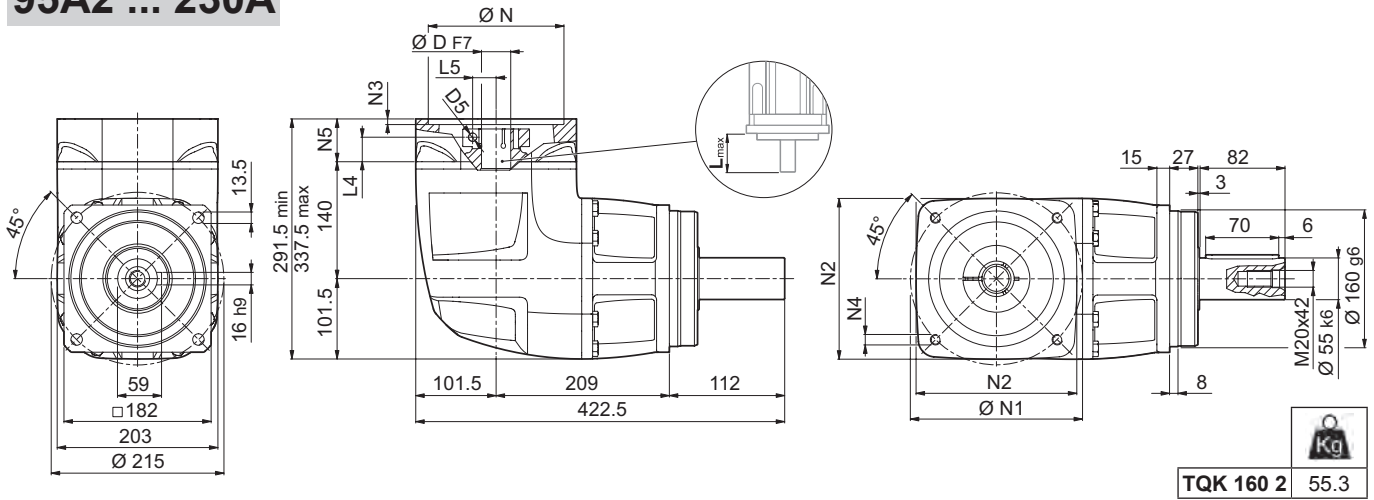
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 130 2										
19	54	120	140	M10x16	M6	50	31	7.5	23.5	16.5
24	70	120	140	M10x16	M6	51.5	32.5	7.5	23.5	19
28	70	120	140	M10x16	M8	51.5	32.5	7.5	23.5	22.5
32	72	120	140	M10x16	M8	51.5	32.5	7.5	23.5	24.5
38	100	120	140	M10x16	M8	54	35	7.5	23.5	28
42	114	120	140	M10x16	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}	φ_S	φ_R	C_t	R_{2max}	A_{2max}	η	J_G [kgcm ²]				
												D	14	19 - 24	28 - 32	38
i	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	≤ [arcmin]	[Nm / arcmin]	[N]	[N]	%						
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	-

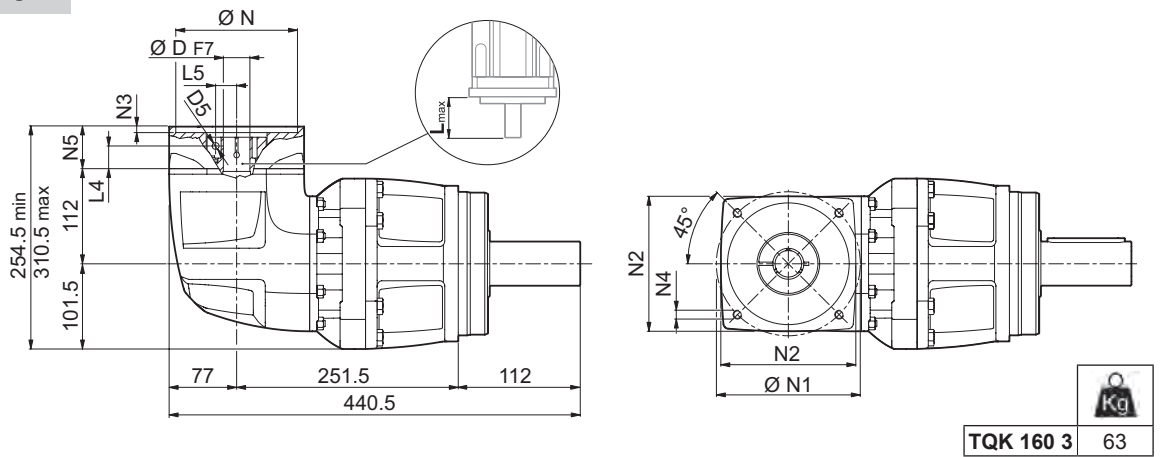


TQK 160

95A2 ... 230A

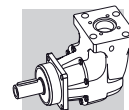


80A3 ... 200A



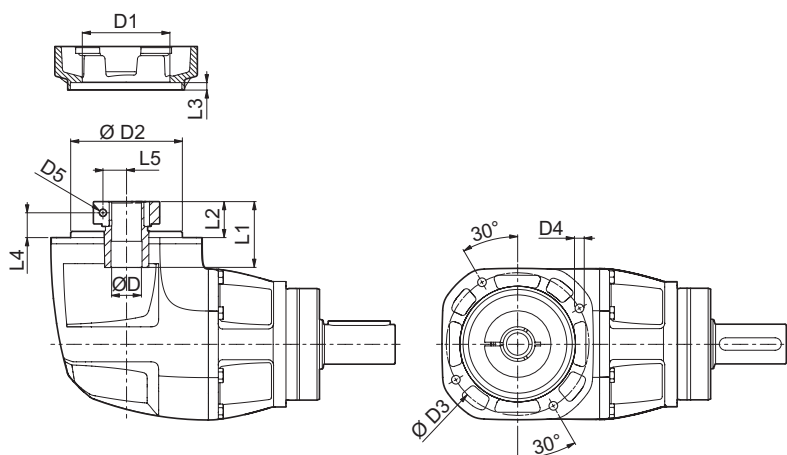
	D							N	N1	N2	N3	N4	N5	L _{max}
TQK 160 2														
95A2	19	24	28	-	-	-	-	95	115	158	6.5	M8x20	50	60
110A2	19	24	-	-	-	-	-	110	130	158	6.5	M8x20	50	60
130A1	19	24	28	32	-	-	-	130	165	158	6.5	M10x20	50	60
180A	19	24	28	32	-	-	-	180	215	203	6.5	M14x28	50	60
180A1	19	24	28	32	38	-	-	180	215	205	6.5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

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

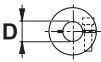


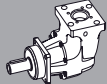

TQK 160

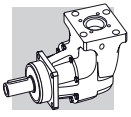
FM



TQK

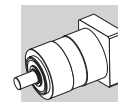
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
TQK 160 2										
24	58	150	175	M12x20	M6	47	37	9.5	28	19
28	70	150	175	M12x20	M8	47	37	9.5	28	22.5
32	72	150	175	M12x20	M8	47	37	9.5	28	24.5
38	100	150	175	M12x20	M8	59.5	39.5	9.5	28	28
42	114	150	175	M12x20	M10	57	43	9.5	28	33
48	125	150	175	M12x20	M12	57	43	9.5	28	36.5
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

	i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	ψ _S [arcmin]	ψ _R [arcmin]	C _t [Nm/arcmin]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]				
														19	24 - 28	32 - 38	42
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





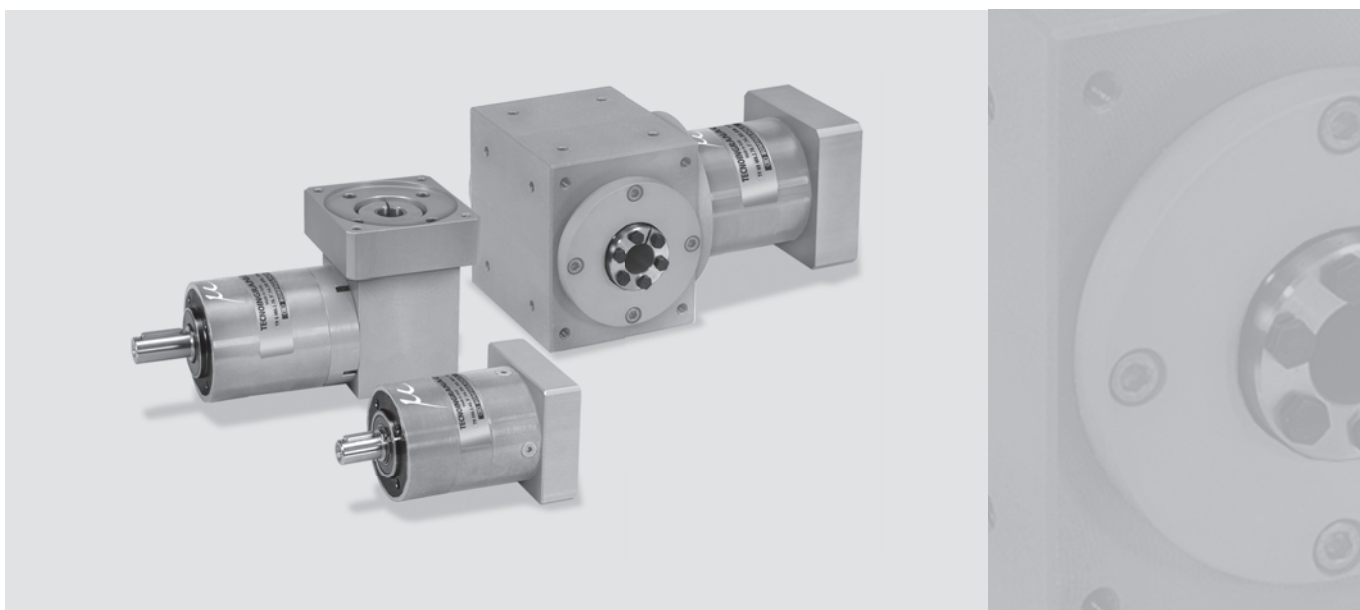
TR

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

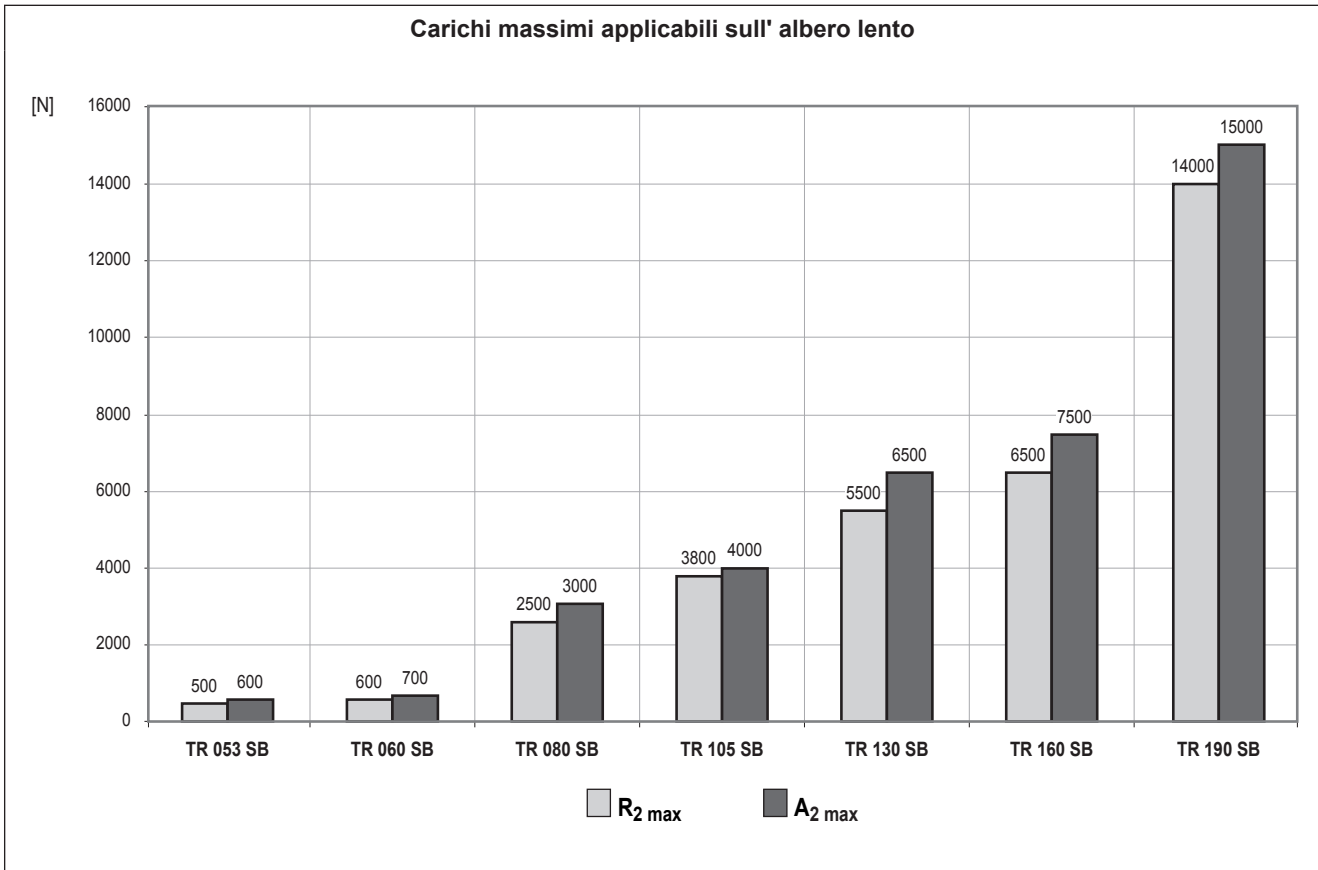
I riduttori epicicloidali a gioco ridotto della serie TR costituiscono una gamma assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio senza la richiesta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

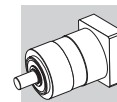
L'accoppiamento al motore è operazione che non richiede alcuna attrezzatura specifica, se non quella normalmente reperibile in un'officina..

- 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 $\varphi_S \leq 5'$; 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 miscela 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.

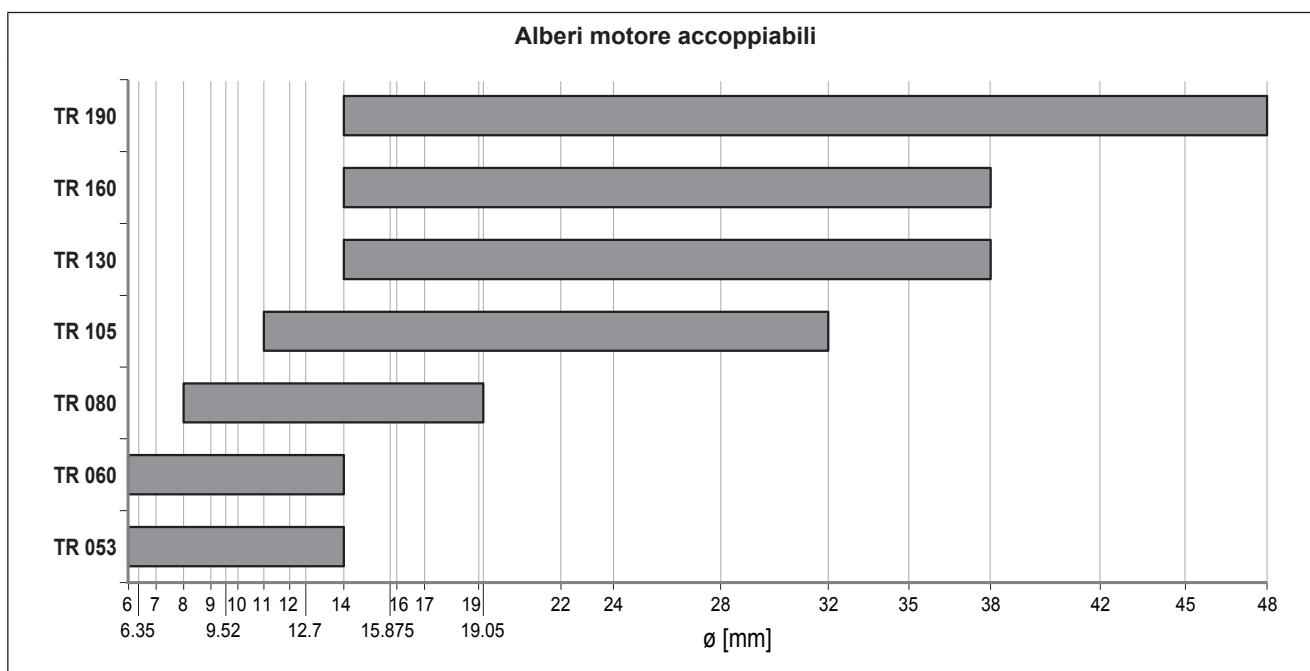
	TR 053	TR 060	TR 080	TR 105	TR 130	TR 160	TR 190
SB							

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 fr
- La temperatura sulla cassa non deve superare $T_{max} = 90^{\circ}C$.

		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	-	700	-	350
TR 190		1000	-	500	1000	1000	-	1000	1000	1000	-	1000	1000	-	-	1000	-	1000	-	1000	-	1000	1000	-	1000	-	1000	-	500



5.1 CODICE ORDINATIVO

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

LUBRIFICANTE

- standard

UH1 lubrificante sintetico ad uso alimentare

CONFIGURAZIONE ALBERO LENTO

KL albero liscio

KE albero con linguetta (☉ MB)

SUPPORTAZIONE ALBERO LENTO

SB standard

POSIZIONE DI MONTAGGIO

OR orizzontale

VA verticale con motore in alto

VB verticale con motore in basso

TIPO DI SERVIZIO

S1 servizio continuo

S5 servizio intermittente

DIAMETRO FORO PER ALBERO MOTORE

6 ... 48 (☉ IS)

TIPO DI CALETTAMENTO ALBERO MOTORE

CD morsetto di serraggio (☉ IS)

SEZIONE DI INGRESSO

25AH ... 180A1 predisposizione motore

IS albero veloce sporgente (TR 053 ... TR 160) (☉ G - ☉ MB)

FM senza adattatore in ingresso

GIOCO ANGOLARE

STD

LOW

(☉ TR 053)

1 stadio	2 stadi	3 stadi (solo MB, G)	3 stadi	4 stadi (solo MB, G)
$\varphi_s \leq 5'$	$\varphi_s \leq 5'$	$\varphi_s \leq 5'$	$\varphi_s \leq 7'$	$\varphi_s \leq 7'$
$\varphi_R \leq 3'$	$\varphi_R \leq 3'$	$\varphi_R \leq 3'$	$\varphi_R \leq 5'$	$\varphi_R \leq 5'$

RAPPORTO DI TRASMISSIONE

STADI DI RIDUZIONE

1 2 3 4

GRANDEZZA

053 060 080 105 130 160 190

FORMA COSTRUTTIVA

- coassiale

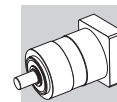
G con stadio ortogonale in ingresso (TR 053 ... TR 160)

MB con stadio ortogonale in uscita (TR 080 ... TR 160)

SERIE

TR

TR



5.1.1 FORME COSTRUTTIVE E CONFIGURAZIONI DI INGRESSO

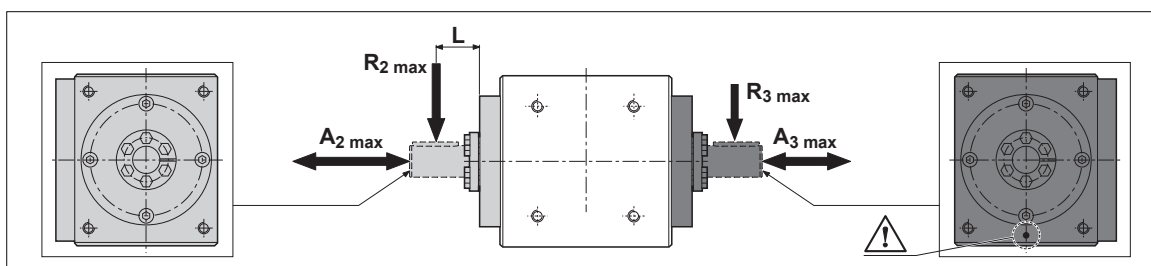
SEZIONE DI INGRESSO	FORMA COSTRUTTIVA		
	coassiale (—)	con stadio ortogonale in ingresso (G)	con stadio ortogonale in uscita (MB)
25AH ... 180A1			
IS			
FM			

5.1.2 POSIZIONI DI MONTAGGIO

	OR	VA	VB
—			
G			
MB			

TR

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

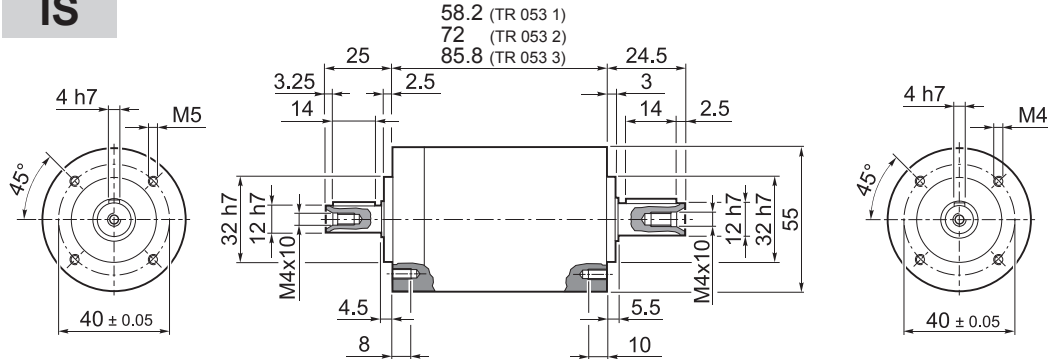
* Cuscinetti dimensionati per durata media pari a 10000 ore in condizioni di funzionamento nominale.



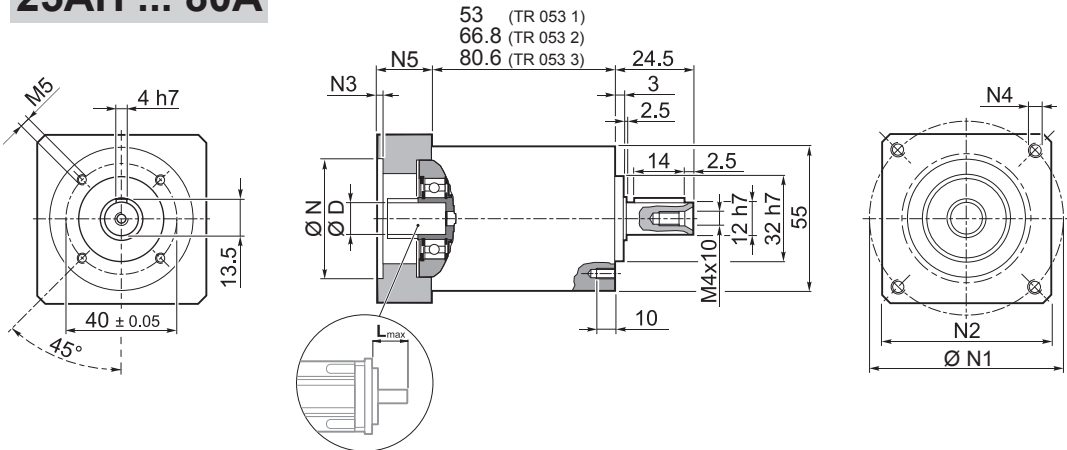
5.3 DIMENSIONI E DATI TECNICI

TR 053

IS

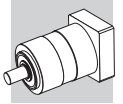


25AH ... 80A



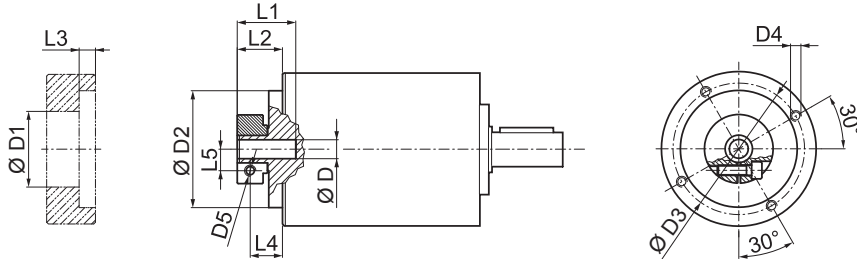
												N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	36	48					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	36	48					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	36	48					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	38	48					
34AH	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	60	3	M4x10	18	25
50A	6	6.35	7	8	9	9.52	10	11	12	12.7	-	50	60	60	60	3	M4x10	18	25
50B	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	65	60	60	3	M5x12	23	30
50BH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	65	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	63	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	63	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	

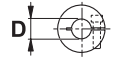
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

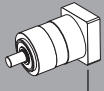



TR 053

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

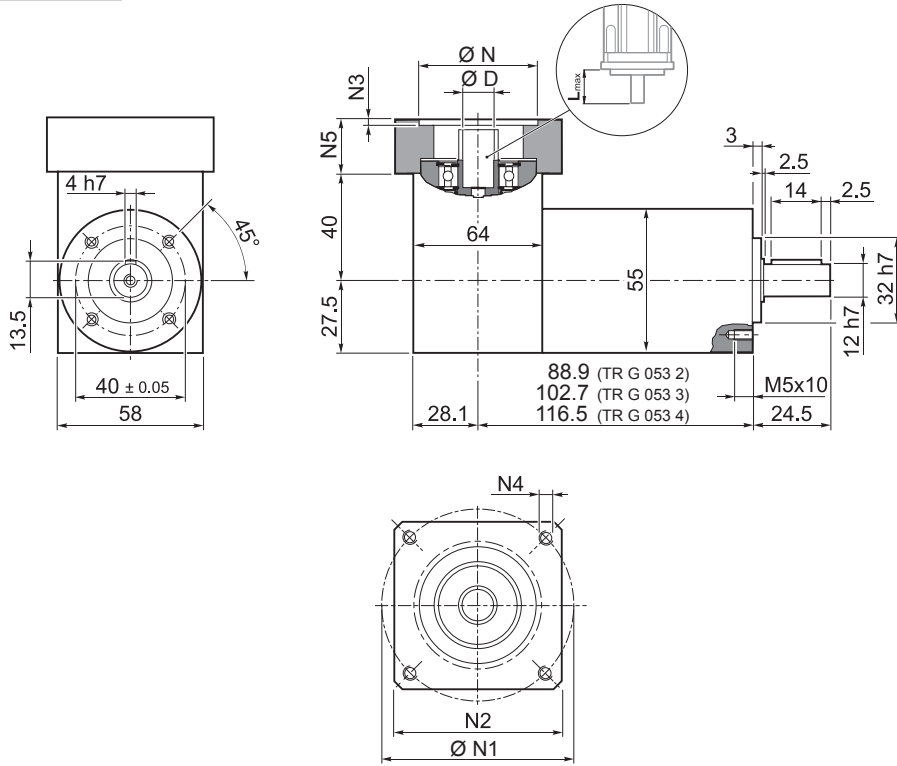
	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_s [arcmin]	C_t [$\frac{Nm}{arcmin}$]	R_{1max} [N]	R_{2max} [N]	A_{2max} [N]	η %	J_G [kgcm ²]	
													6 ... 9.52
TR 053 1_3	12	22	40	3300	4000	5'	1.0	200	500	600	97	0.06	0.08
TR 053 1_4	15	28	45	3500	5000	5'	1.0	200	500	600	97	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	3500	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

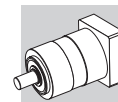


TR G 053 2	1.3
TR G 053 3	1.5
TR G 053 4	1.8

TR

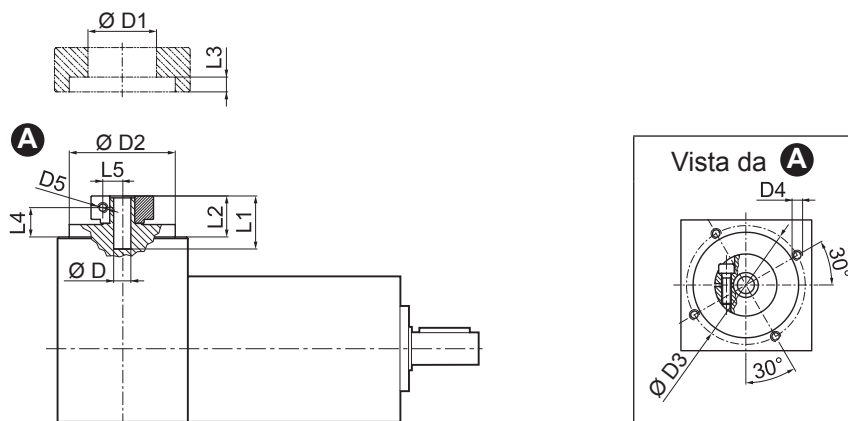
												N	N1		N2	N3	N4	N5	Lmax
	min	max																	
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	36	48					
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	36	48					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	36	48					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	36	48					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	38	48	55	3.5	4.5	25	25
34AH	6	6.35	7	8	9	9.52	-	-	-	-	-	34	40	48					
36AH	6	6.35	7	8	9	9.52	-	-	-	-	-	36	42	48					
38AH	6	6.35	7	8	9	9.52	-	-	-	-	-	38	44	48					
40AH	6	6.35	7	8	9	9.52	-	-	-	-	-	40	46	48					
38B	6	6.35	7	8	9	9.52	10	11	12	12.7	-	38.1	66.6	60	3	M4x10	18	25	
40B	6	6.35	7	8	9	9.52	10	11	12	12.7	-	40	63	60	3	M4x10	18	25	
50A	6	6.35	7	8	9	9.52	10	11	12	12.7	-	50	60	60	3	M4x10	18	25	
50B	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	65	60	3	M5x12	23	30	
50BH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	65	60	4	5.5	23	30	
50C	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	70	60	3	M4x10	23	30	
50MH	6	6.35	7	8	9	9.52	10	11	12	12.7	-	50	65	55	2	5.5	16	23	
60A	6	6.35	7	8	9	9.52	10	11	12	12.7	-	60	75	63	3	M5x12	18	25	
60A1	6	6.35	7	8	9	9.52	10	11	12	12.7	14	60	75	63	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



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

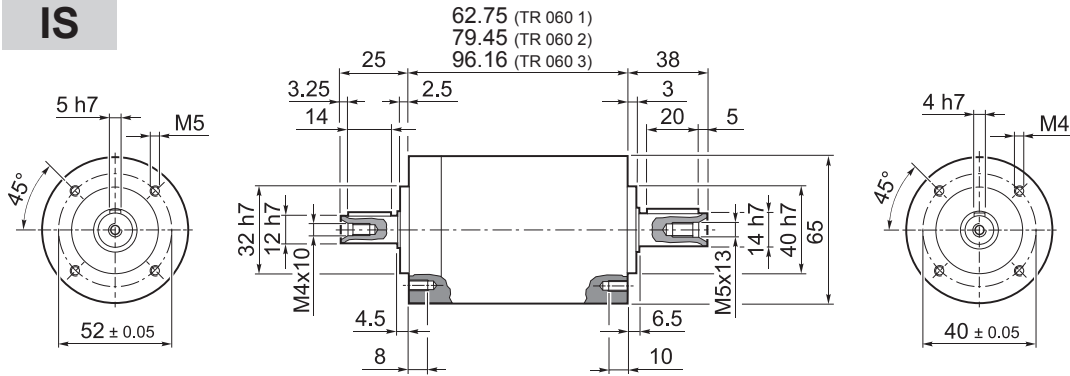
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _S [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	%	J _G [kgcm ²]	
											D	6 ... 9.52
TR G 053 2_3	12	22	40	3300	4000	5'	1.0	500	600	94	0.18	0.20
TR G 053 2_4	15	28	45	3500	5000	5'	1.0	500	600	94	0.18	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	3500	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



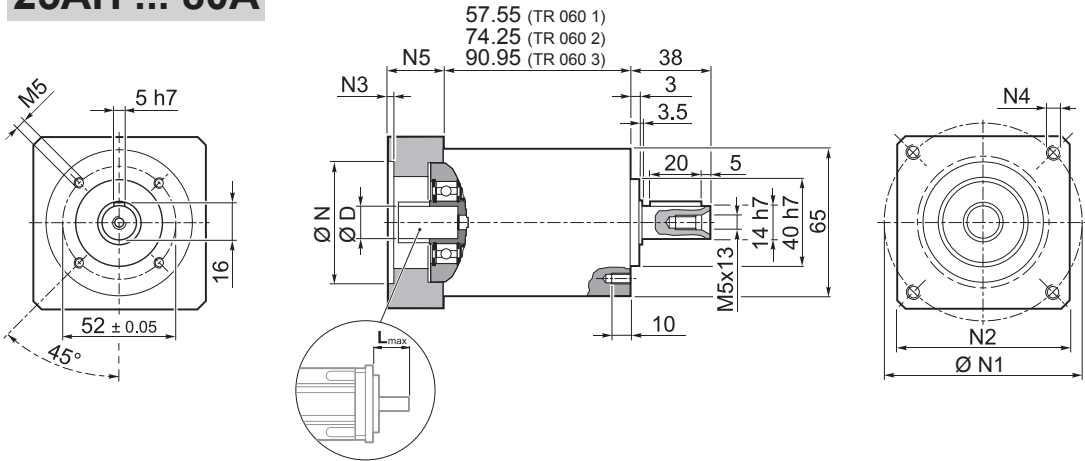
TR 060

IS



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

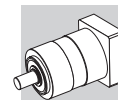
25AH ... 80A



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

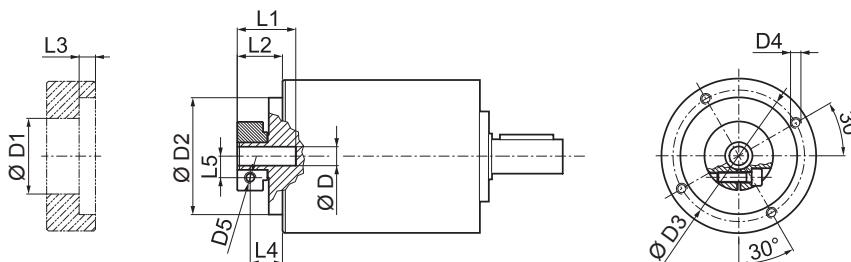
															N	N1		N2	N3	N4	N5	L _{max}
	min	max																				
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	-	-	-	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					
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	63	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	63	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 060

FM



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

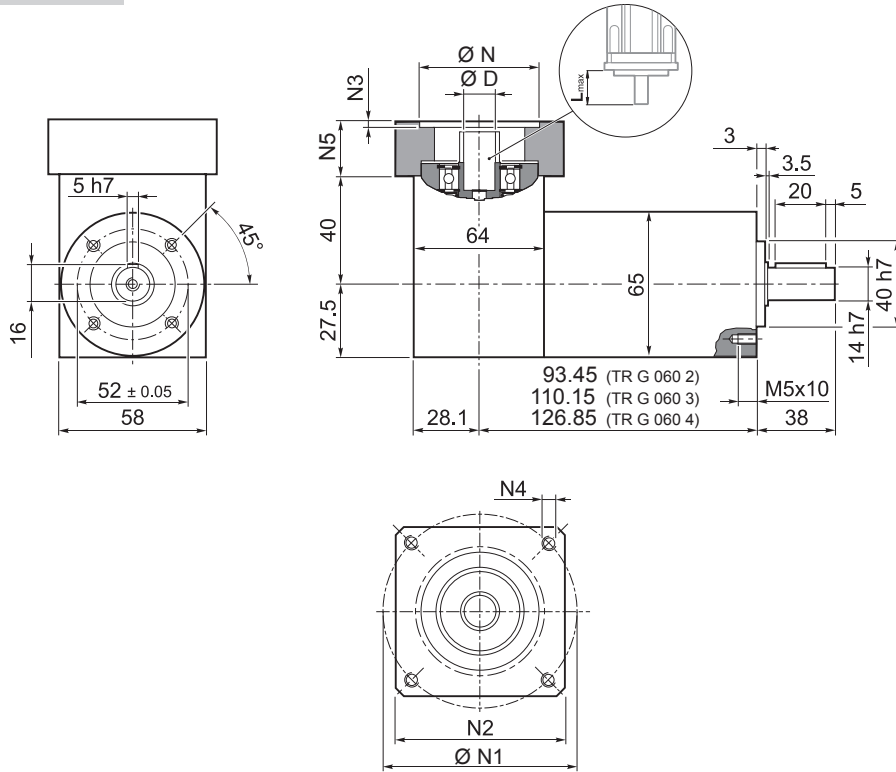
 i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	[N]	%	6 ... 9.52	10 ... 14
TR 060 1_3	18	35	70	3300	4000	5'	3'	3.0	200	600	700	97	0.10	0.11
TR 060 1_4	25	40	90	3500	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

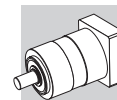


	
TR G 060 2	1.7
TR G 060 3	2.2
TR G 060 4	2.5

TR

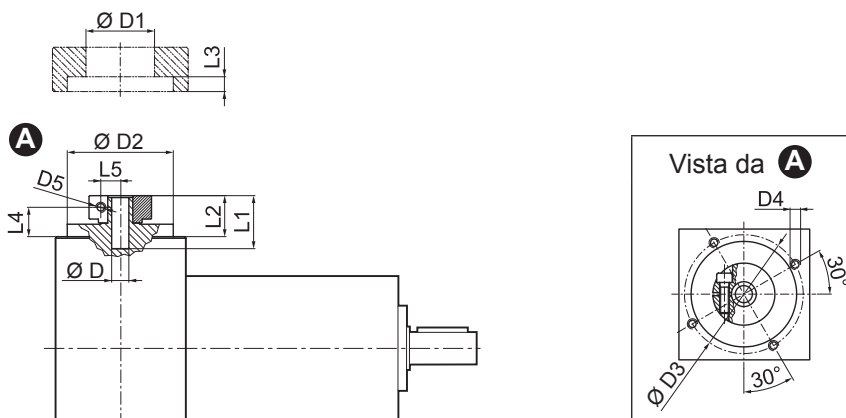
												N	N1		N2	N3	N4	N5	L _{max}
	D												min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56					
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56	65	3.5	4.5	25	25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



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

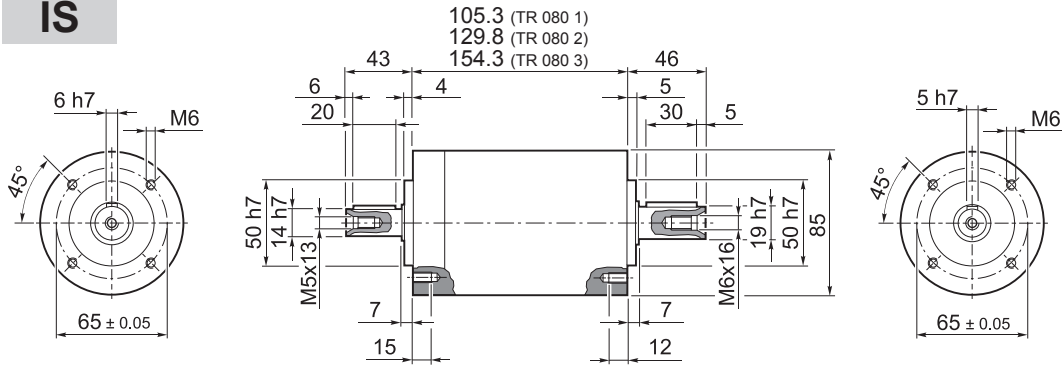
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Ψ _S [arcmin]	Ψ _R [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]	
												D	6 ... 9.52
TR G 060 2_3	18	35	70	3300	4000	5'	3'	3.0	600	700	94	0.20	0.20
TR G 060 2_4	25	40	90	3500	5000	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

TR



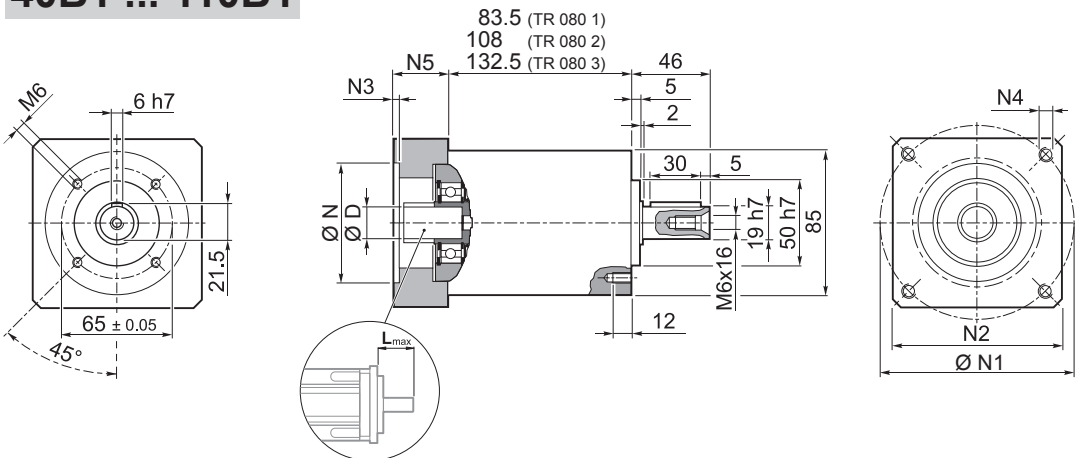
TR 080

IS



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

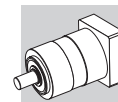
40B1 ... 110B1



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

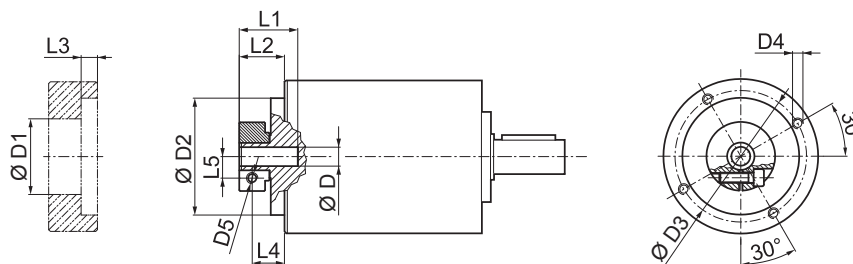
											N	N1	N2	N3	N4	N5	L _{max}		
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40	
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40	
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40	
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40	
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-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

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




TR 080

FM



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

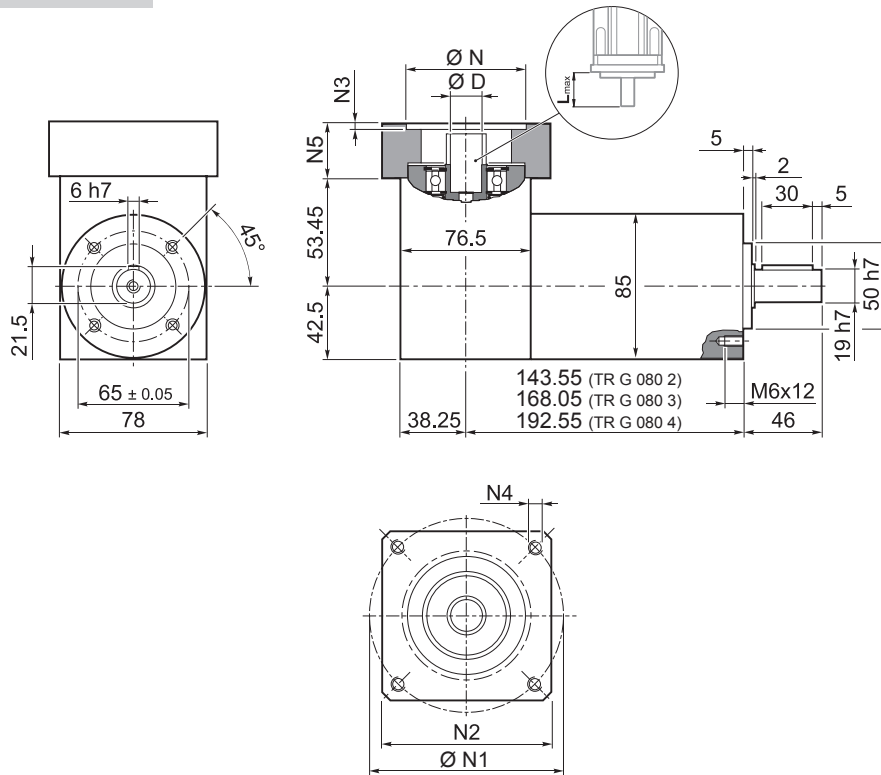
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%	8 ... 12.7	14 ... 19.05
TR 080 1_3	40	80	180	2900	3500	5'	3'	8.0	400	2500	3000	97	0.50	0.59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

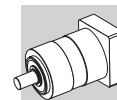
40B1 ... 110B1



TR

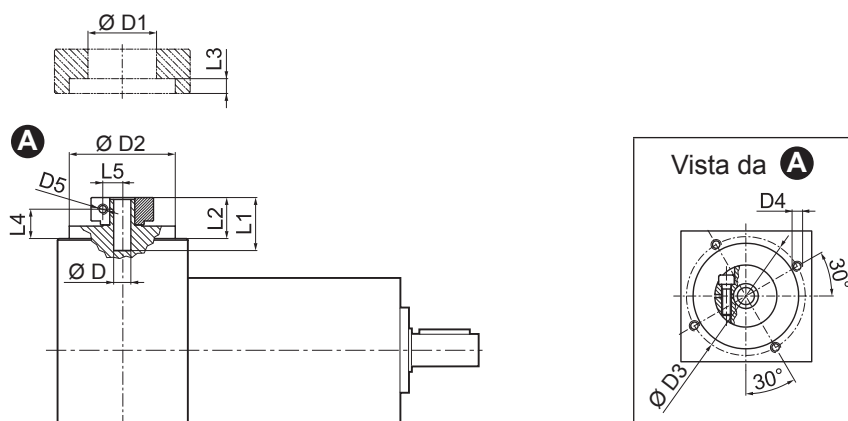
											N	N1	N2	N3	N4	N5	L _{max}		
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40	
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40	
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40	
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40	
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-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

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



TR G 080

FM



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

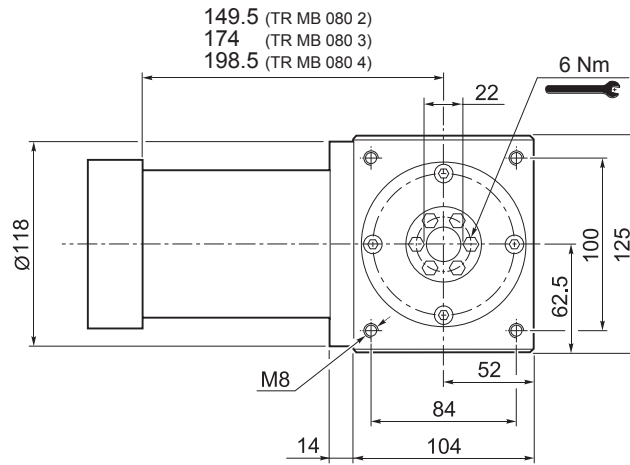
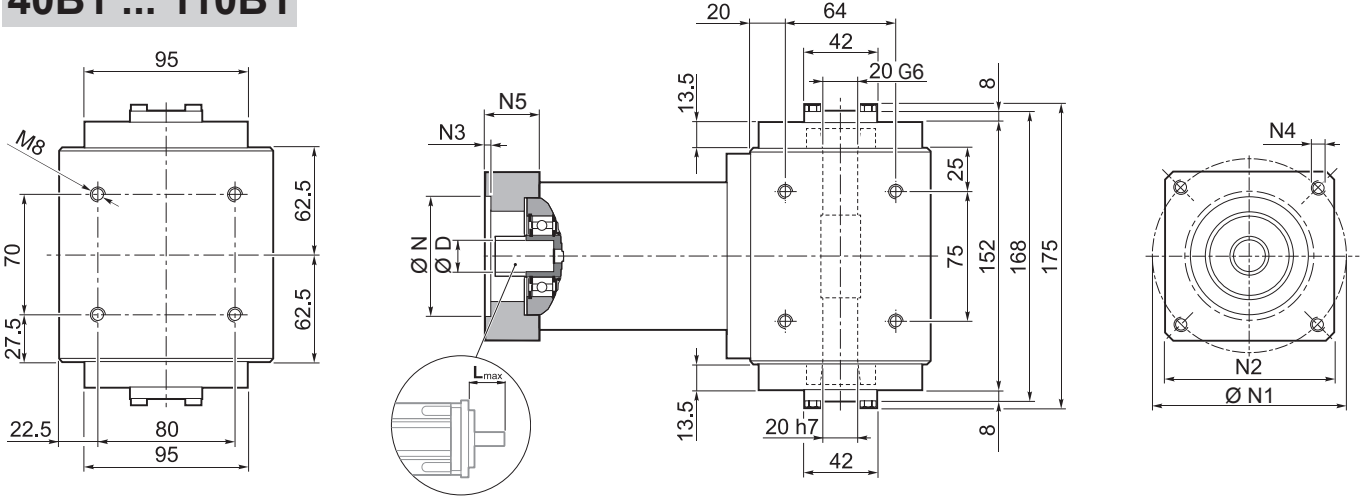
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\frac{Nm}{arcmin}$	[N]	[N]	%	8 ... 12.7	14 ... 19.05
TR G 080 2_3	40	80	180	2900	3500	5'	3'	8.0	2500	3000	94	0.67	0.79
TR G 080 2_4	50	80	200	3100	4500	5'	3'	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

TR



TR MB 080

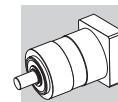
40B1 ... 110B1



TR MB 080 2	14.0
TR MB 080 3	15.0
TR MB 080 4	16.0

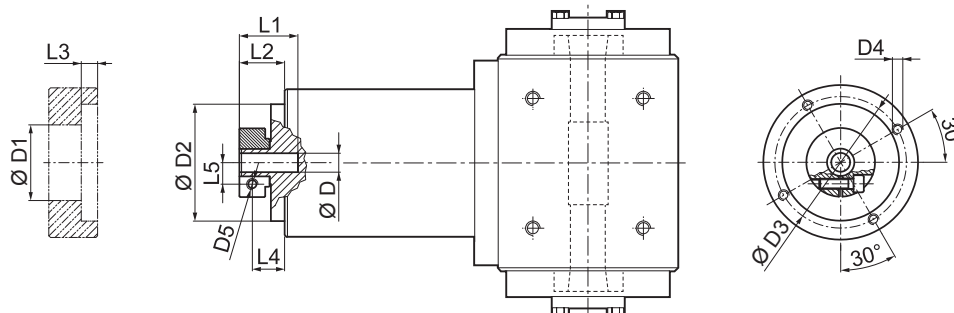
												N	N1	N2	N3	N4	N5	L _{max}	
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40	
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40	
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40	
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40	
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-	50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

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



TR MB 080

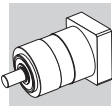
FM



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

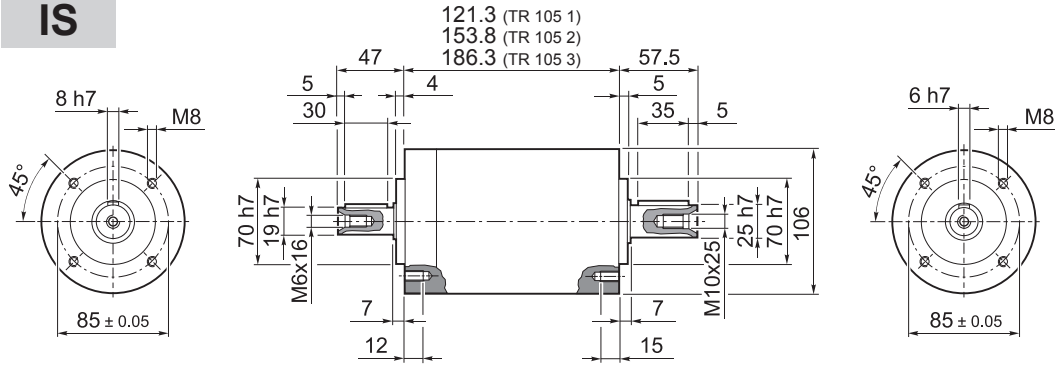
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	ψ _s [arcmin]	ψ _R	C _t [Nm/arcmin]	η %	J _G [kgcm ²]	
										8 ... 12.7	14 ... 19.05
TR MB 080 2_3	40	80	180	2900	3500	5'	3'	8.0	94	0.50	0.59
TR MB 080 2_4	50	80	200	3100	4500	5'	3'	8.0	94	0.34	0.43
TR MB 080 2_5	50	80	200	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



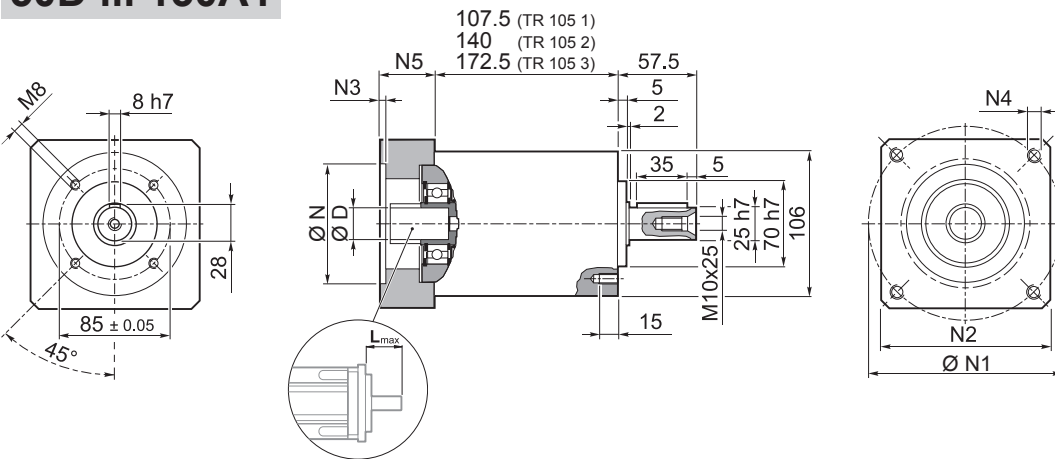
TR 105

IS



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

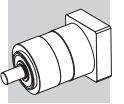
50D ... 130A1



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

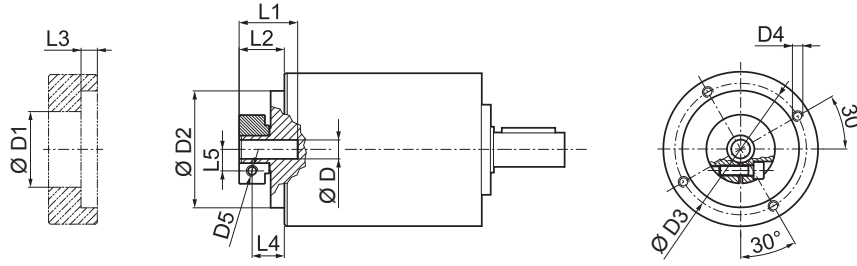
											N	N1	N2	N3	N4	N5	L _{max}	
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	4	6.5	33	40
60B1	11	12	12.7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


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

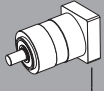


TR 105

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

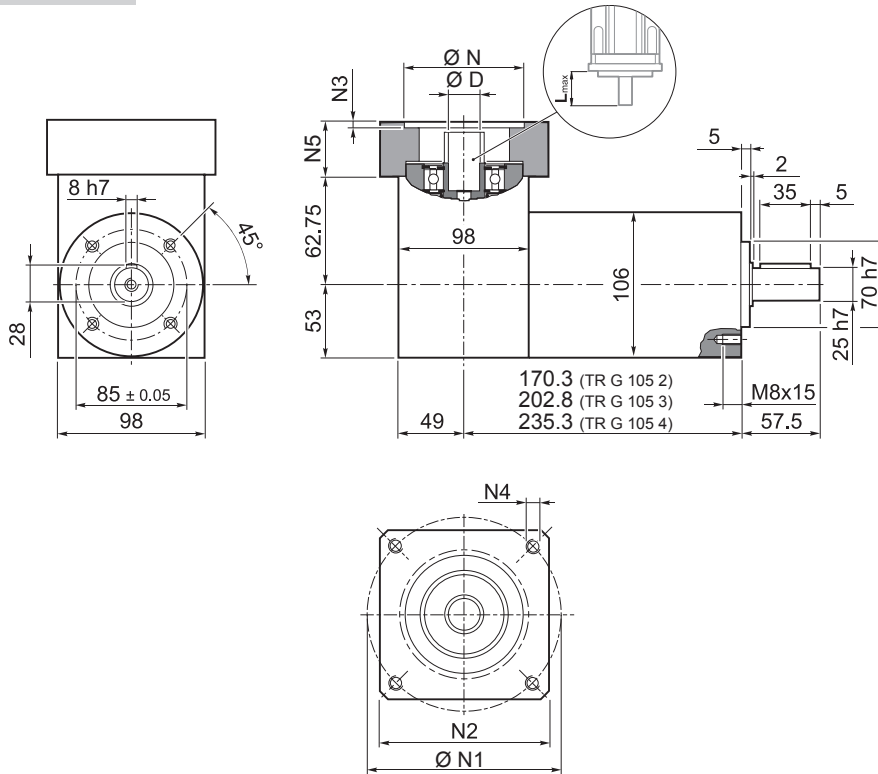
	M_{n2}		M_{a2}		M_{p2}		n_1		φ_s		φ_R		C_t		R_{1max}		R_{2max}		A_{2max}		η	J_G [kgcm ²]			
	i	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]		%	11 ... 12.7	14 ... 19	22 - 24
TR 105 1_3	100	180	360	2500	3500	5'	3'	24.0	600	3800	4000	97	1.70	1.78	2.22	2.59									
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




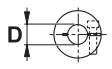
TR G 105

50D ... 130A1

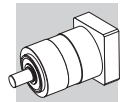


	
TR G 105 2	8.5
TR G 105 3	10.5
TR G 105 4	12.5

TR

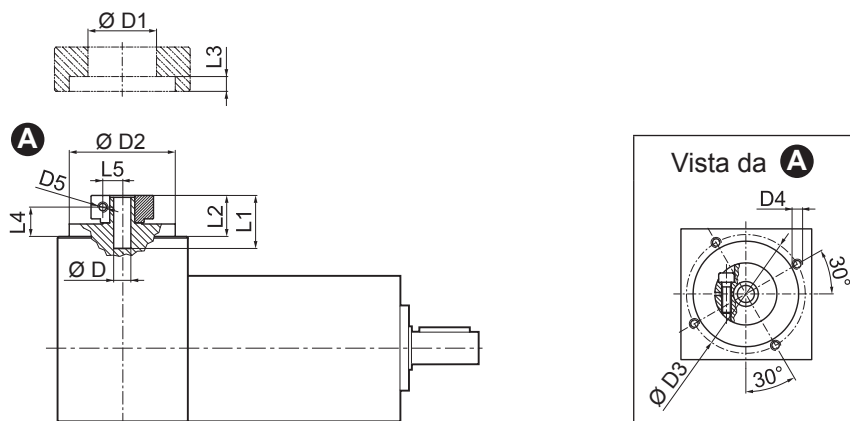
											N	N1	N2	N3	N4	N5	L _{max}	
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	4	6.5	33	40
60B1	11	12	12.7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

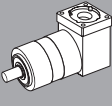


TR G 105

FM



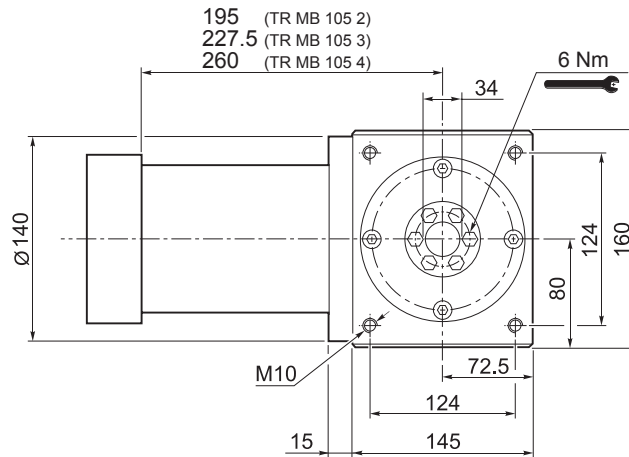
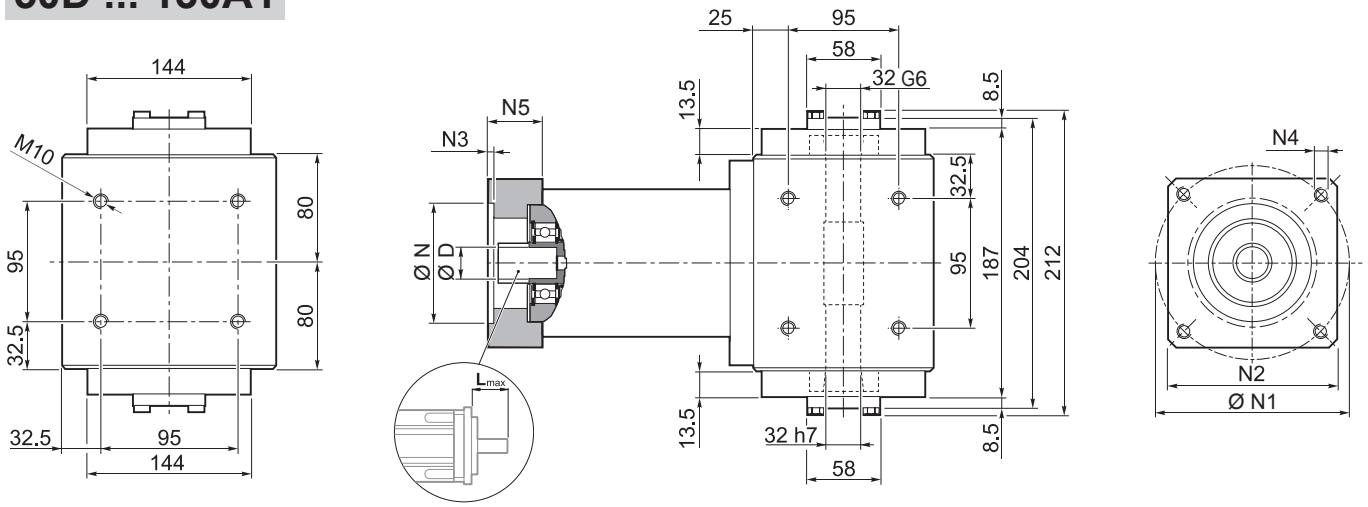
D				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
11	12	12.7		43	90	98	M6x15	M6	31.5	19.5	7.6	12	12.5
14	15	15.875	16	48	90	98	M6x15	M6	31.5	19.5	7.6	12	14.5
19				51	90	98	M6x15	M6	31.5	19.5	7.6	12	16.5
22	24			56.5	90	98	M6x15	M6	35	23	7.6	12	19
28				67	90	98	M6x15	M8	35	23	7.6	14	22.5
32				71	90	98	M6x15	M8	37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

	i	M _{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]		$\frac{Nm}{arcmin}$	[N]	[N]	%	D			
														11 ... 12.7	14 ... 19	22 - 24
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

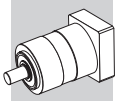
50D ... 130A1



TR MB 105 2	32
TR MB 105 3	34
TR MB 105 4	36

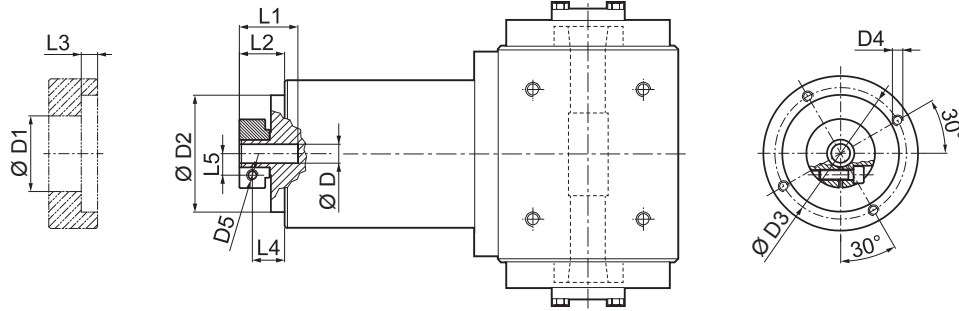
											N	N1	N2	N3	N4	N5	L _{max}	
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	4	6.5	33	40
60B1	11	12	12.7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



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

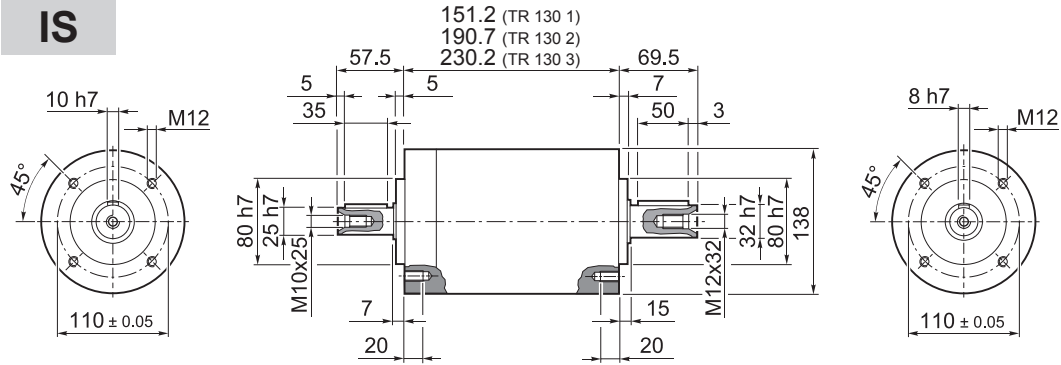
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Ψ _S [arcmin]	Ψ _R [arcmin]	C _t [Nm / arcmin]	η %	J _G [kgcm ²]			
										D			
										11 ... 12.7	14 ... 19	22 - 24	28 - 32
TR MB 105 2_3	100	180	360	2500	3500	5'	3'	24.0	94	1.70	1.78	2.22	2.59
TR MB 105 2_4	140	210	450	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



TR 130

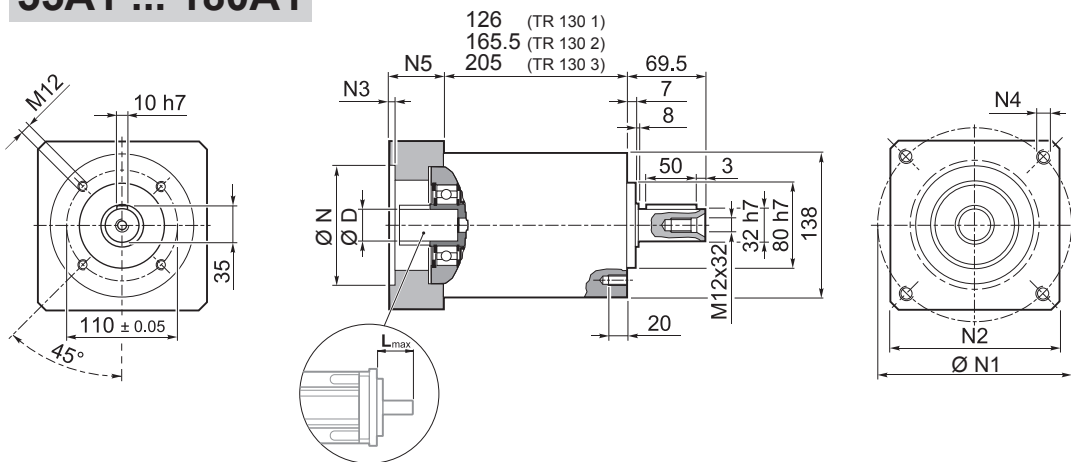
IS



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

TR

55A1 ... 180A1



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

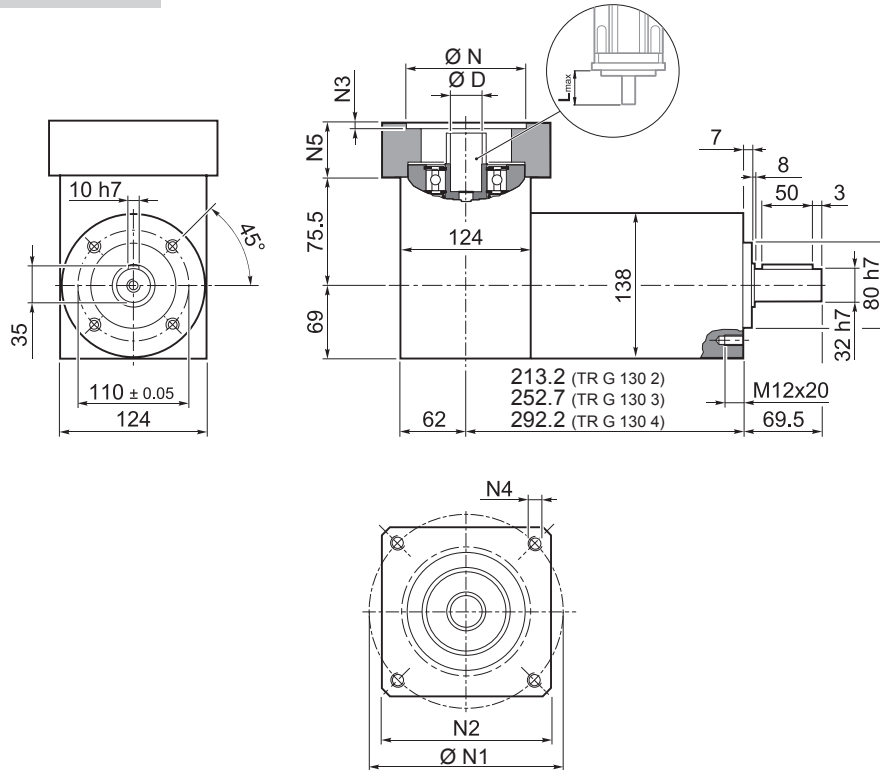
											N	N1	N2	N3	N4	N5	L _{max}
	14	15.875	16	19	22	24	28	32	35	38							
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	130	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

55A1 ... 180A1

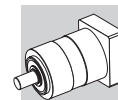


TR G 130 2	16.0
TR G 130 3	19.5
TR G 130 4	22.5

TR

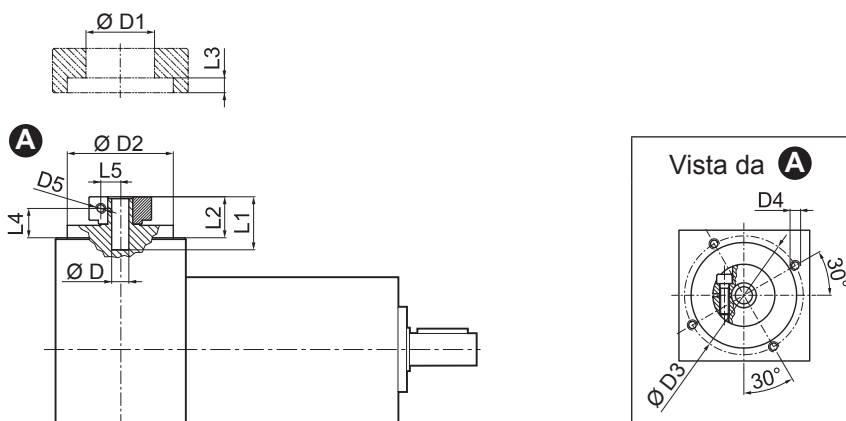
											N	N1	N2	N3	N4	N5	L _{max}
	D																
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	130	4	M8x20	39.5	50
110B1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

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



TR G 130

FM



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

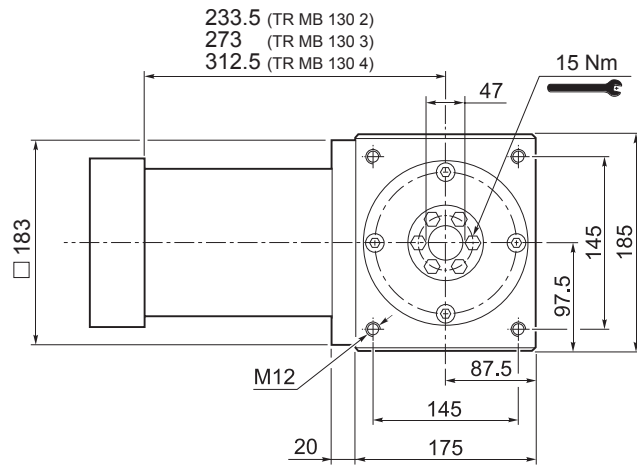
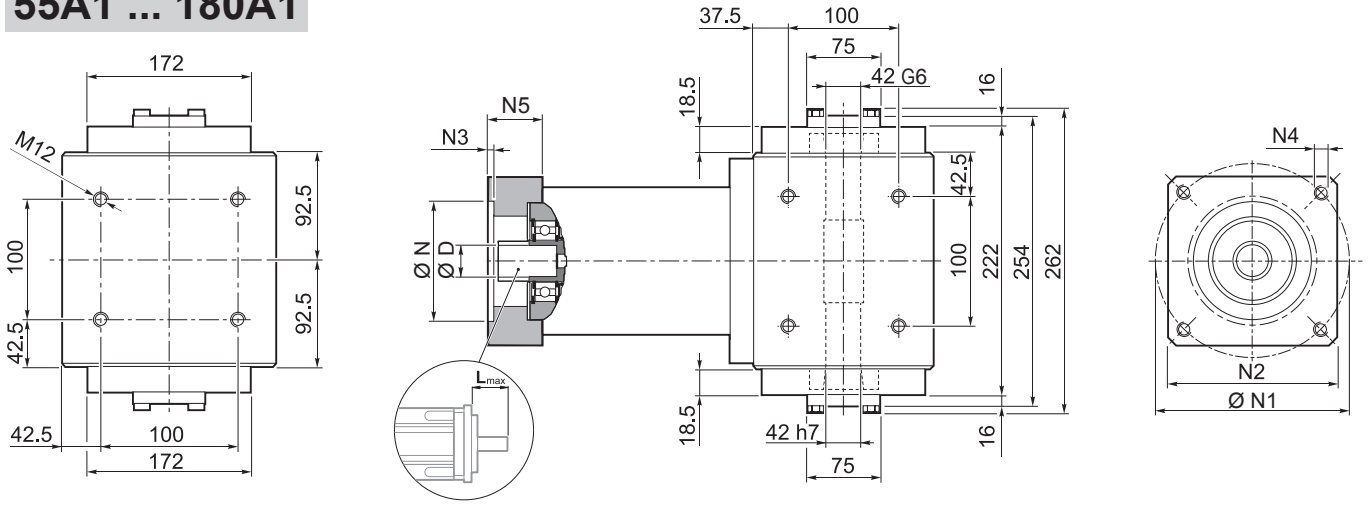
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Ψ _S [arcmin]	Ψ _R	C _t [Nm/arcmin]	R _{2 max} [N]	A _{2 max} [N]	η %	J _e [kgcm ²]			
												D			
												14 ... 19	22 - 24	28 - 32	35 - 38
TR G 130 2_3	215	400	800	2100	3000	5'	3'	45.0	5500	6500	94	7.09	7.28	7.66	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



TR MB 130

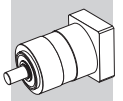
55A1 ... 180A1



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

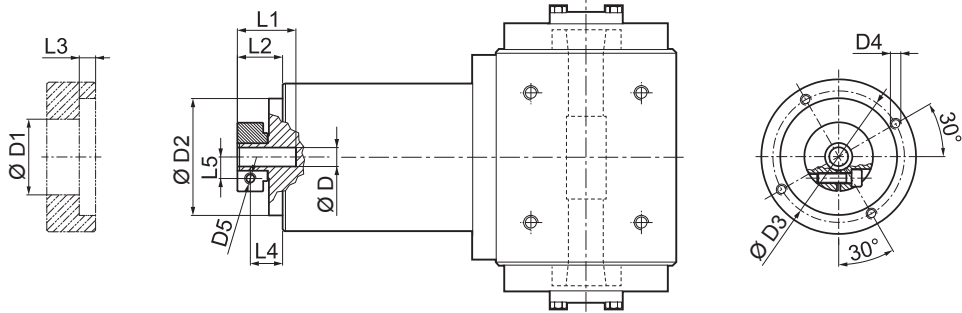
												N	N1	N2	N3	N4	N5	L _{max}
	D																	
55A1	14	15.875	16	19	-	-	-	-	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	-	110	130	130	4	M8x20	39.5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

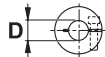
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

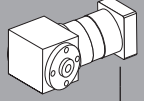



TR MB 130

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

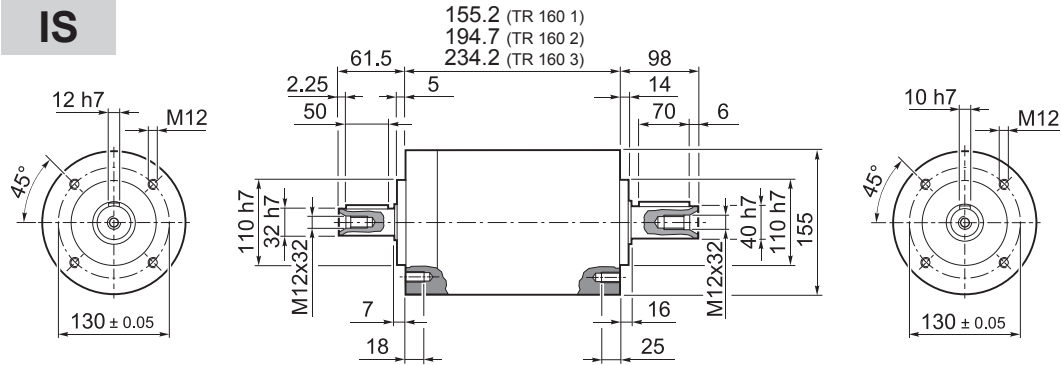
	i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Ψ _S [arcmin]	Ψ _R [arcmin]	C _t [Nm/arcmin]	η %	J _G [kgcm ²]			
												14 ... 19	22 - 24	28 - 32
TR MB 130 2_3		215	400	800	2100	3000	5'	3'	45.0	94	5.25	5.46	5.81	7.16
TR MB 130 2_4		380	600	1100	2400	3500	5'	3'	45.0	94	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



TR 160

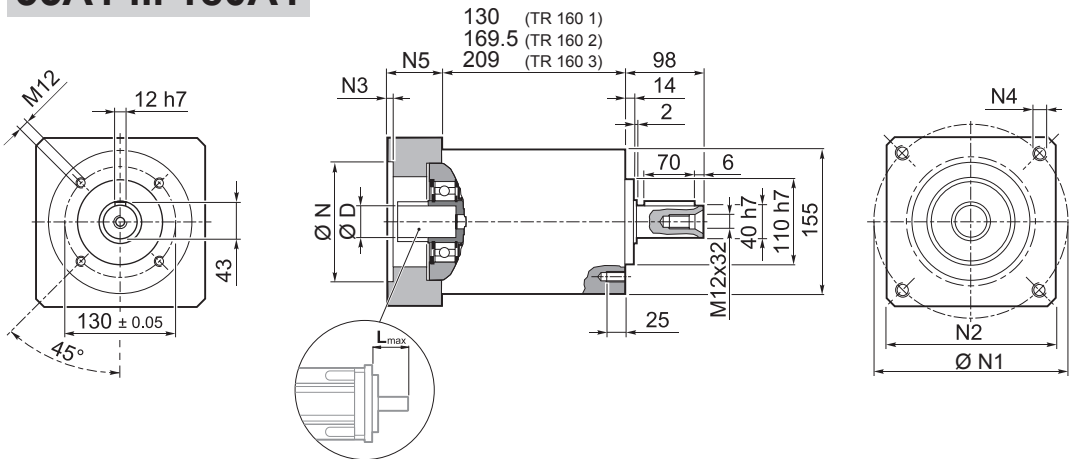
IS



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

TR

55A1 ... 180A1



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

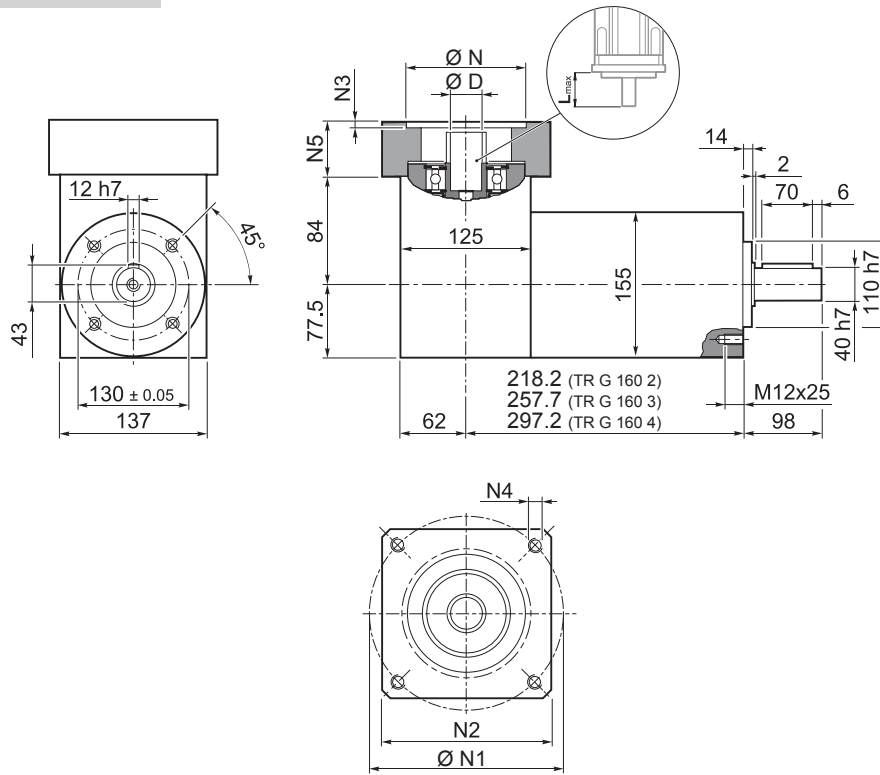
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	15.875	16	19	22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




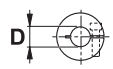
TR G 160

55A1 ... 180A1

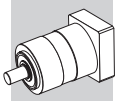


	
TR G 160 2	24
TR G 160 3	28
TR G 160 4	34

TR

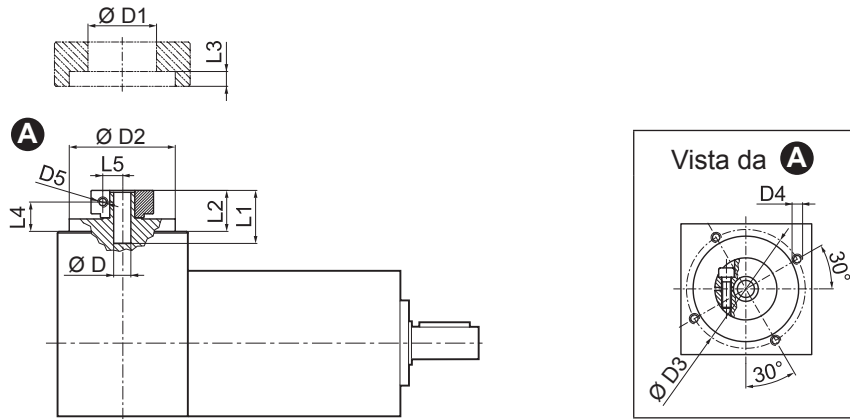
											N	N1	N2	N3	N4	N5	L _{max}
	14	15.875	16	19													
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	39.5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

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



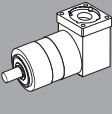

TR G 160

FM



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

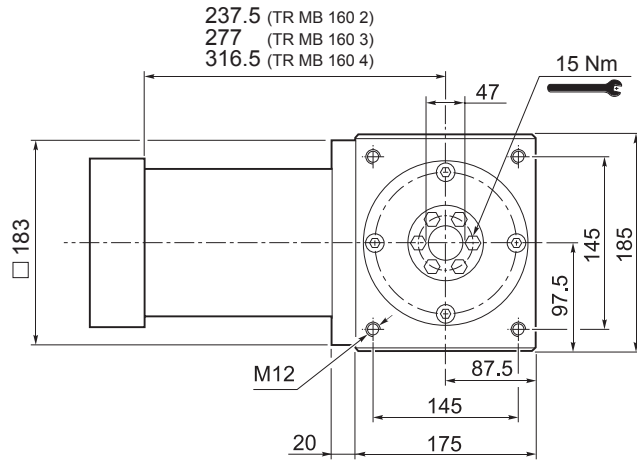
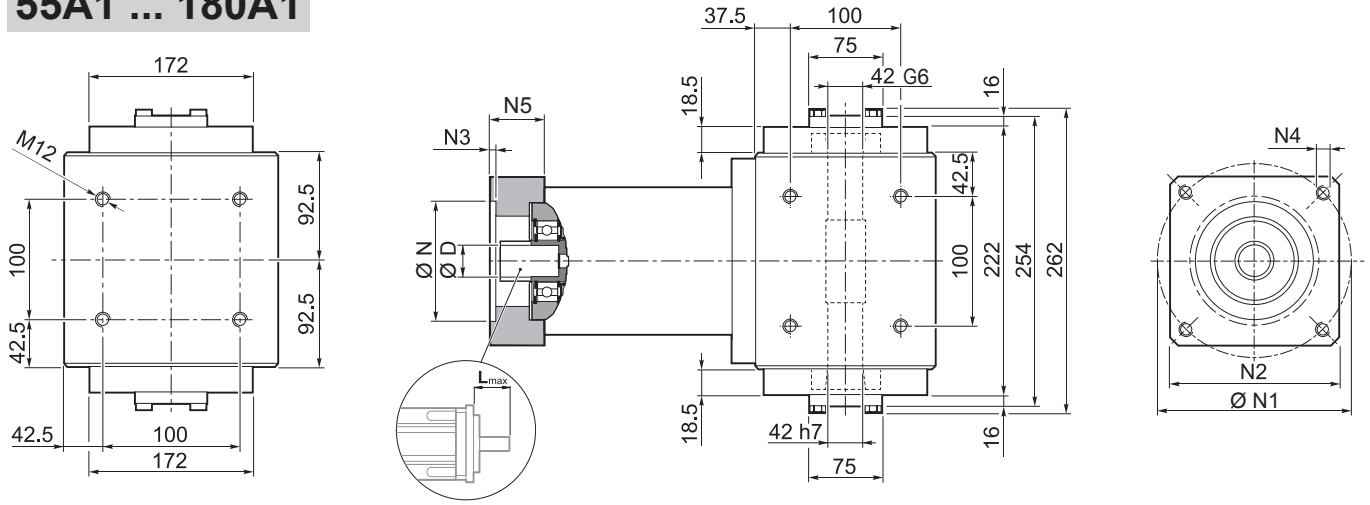
TR

	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]	R _{2 max} [N]	A _{2 max} [N]	η %	J ₀ [kgcm ²]			
																
													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

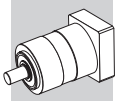
55A1 ... 180A1



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

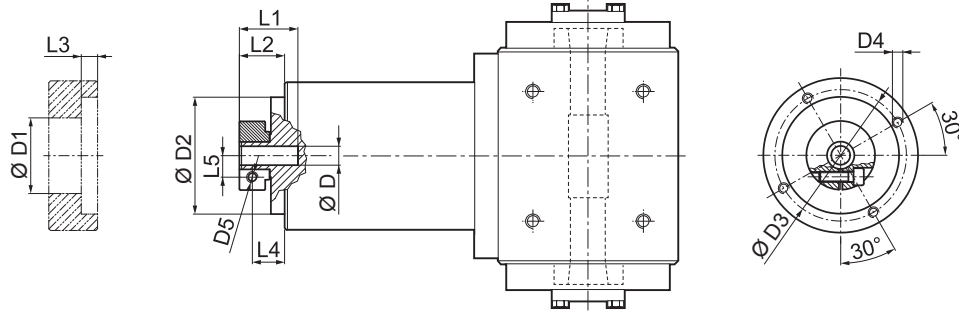
											N	N1	N2	N3	N4	N5	L _{max}
	14	15.875	16	19	-	-	-	-	-	-							
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	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

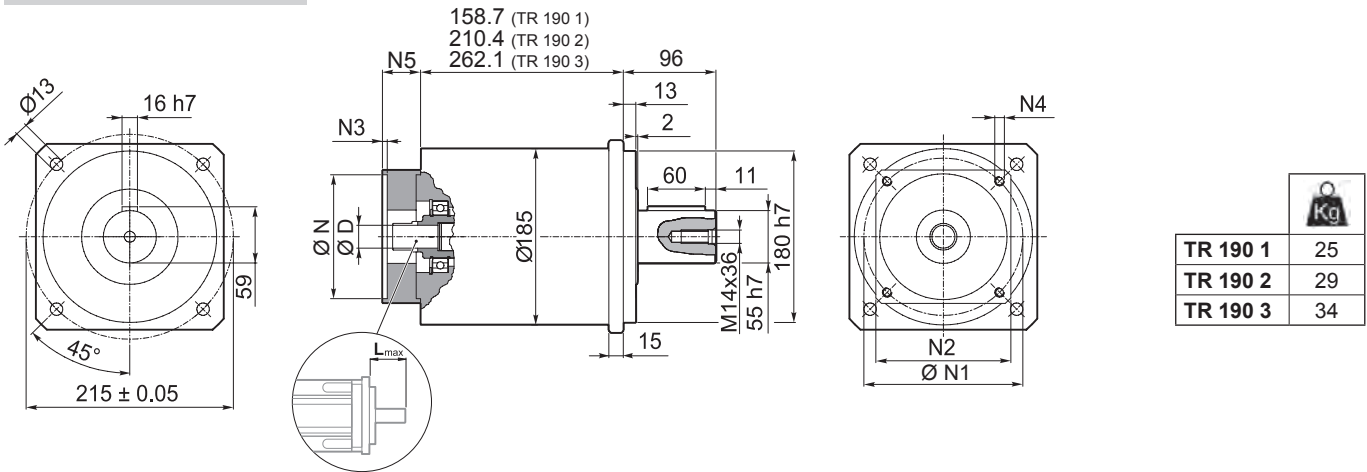
	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_S [arcmin]	φ_R [arcmin]	C_t [Nm/arcmin]	η %	J_G [kgm ²]			
										14 ... 19	22 - 24	28 - 32	35 - 38
TR MB 160 2_3	350	660	1200	1900	3000	5'	3'	90	94	8.39	8.60	8.95	10.30
TR MB 160 2_4	500	750	1400	2200	3500	5'	3'	90	94	4.68	4.89	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



TR 190

55A1 ... 180A1

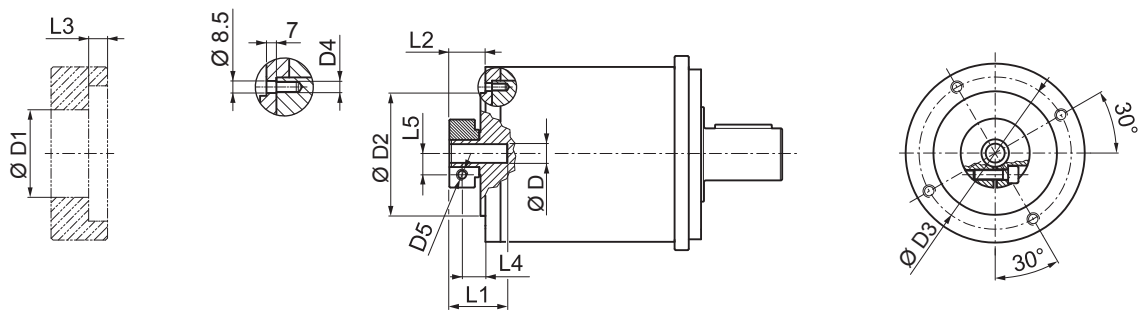


TR

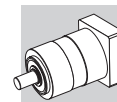
	D											N	N1	N2	N3	N4	N5	L _{max}	
55A1	14	16	19	-	-	-	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	16	19	-	-	-	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	16	19	22	24	-	-	-	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	16	19	22	24	-	-	-	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	16	19	22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

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



FM



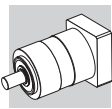
D	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14 16	48	130	142.5	M8x14	M6	45.5	27.5	6	20	14.5
19	51	130	142.5	M8x14	M6	45.5	27.5	6	20	16.5
22 24	56.5	130	142.5	M8x14	M6	47	29	6	20	19
28	67	130	142.5	M8x14	M8	47	29	6	20	22.5
32	71	130	142.5	M8x14	M8	47	29	6	20	24.5
35	73	130	142.5	M8x14	M8	54.5	36.5	6	25	26
38	77.5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



TR 190

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

TR

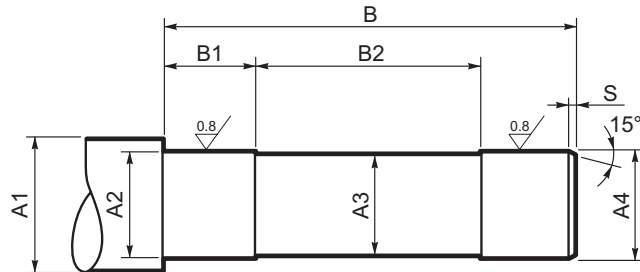


5.3.1 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE

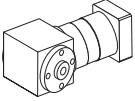
Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Suggeriamo inoltre di completare il montaggio con un dispositivo che garantisca il bloccaggio assiale dell'albero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

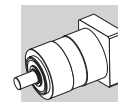
Il numero e la dimensione del/i relativi fori all'estremità dell'albero saranno determinati dalle diverse esigenze applicative.

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	

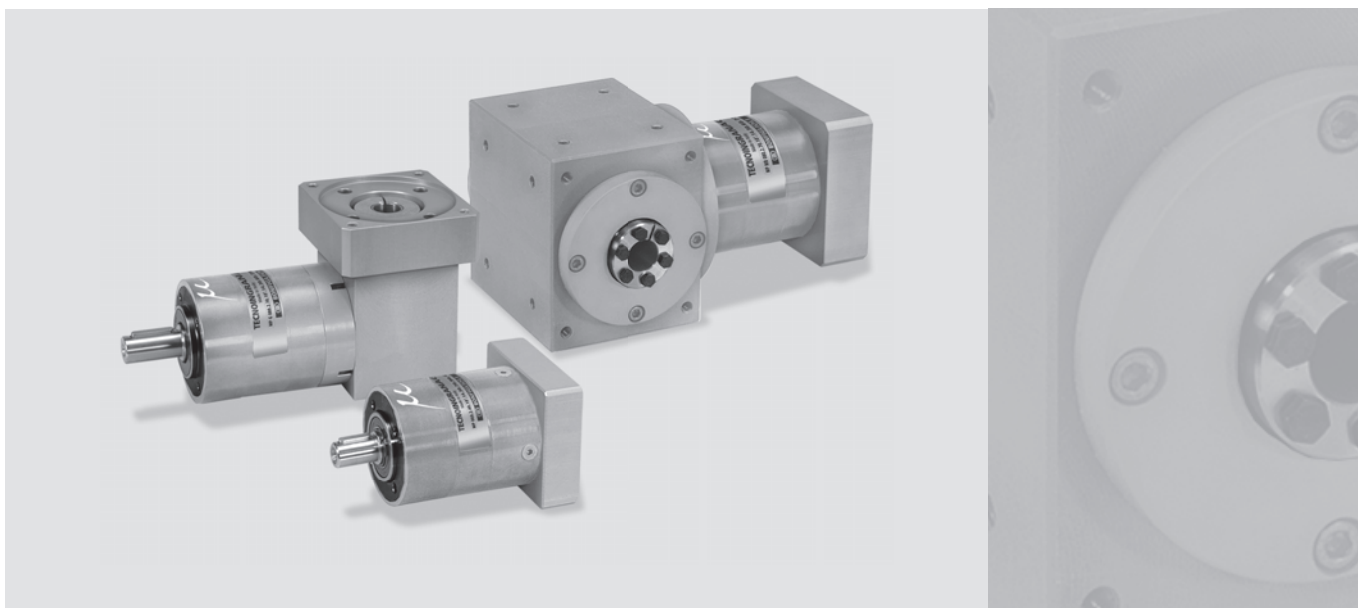


MP

RIDUTTORE EPICICLOIDALE DI PRECISIONE

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

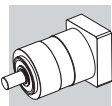
Disponibili in diverse configurazioni (con ingresso ortogonale, uscita ortogonale e albero cavo, con albero veloce pieno) e con adattatori d'ingresso per la maggior parte delle interfacce meccaniche dei motori servo sul mercato.



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.

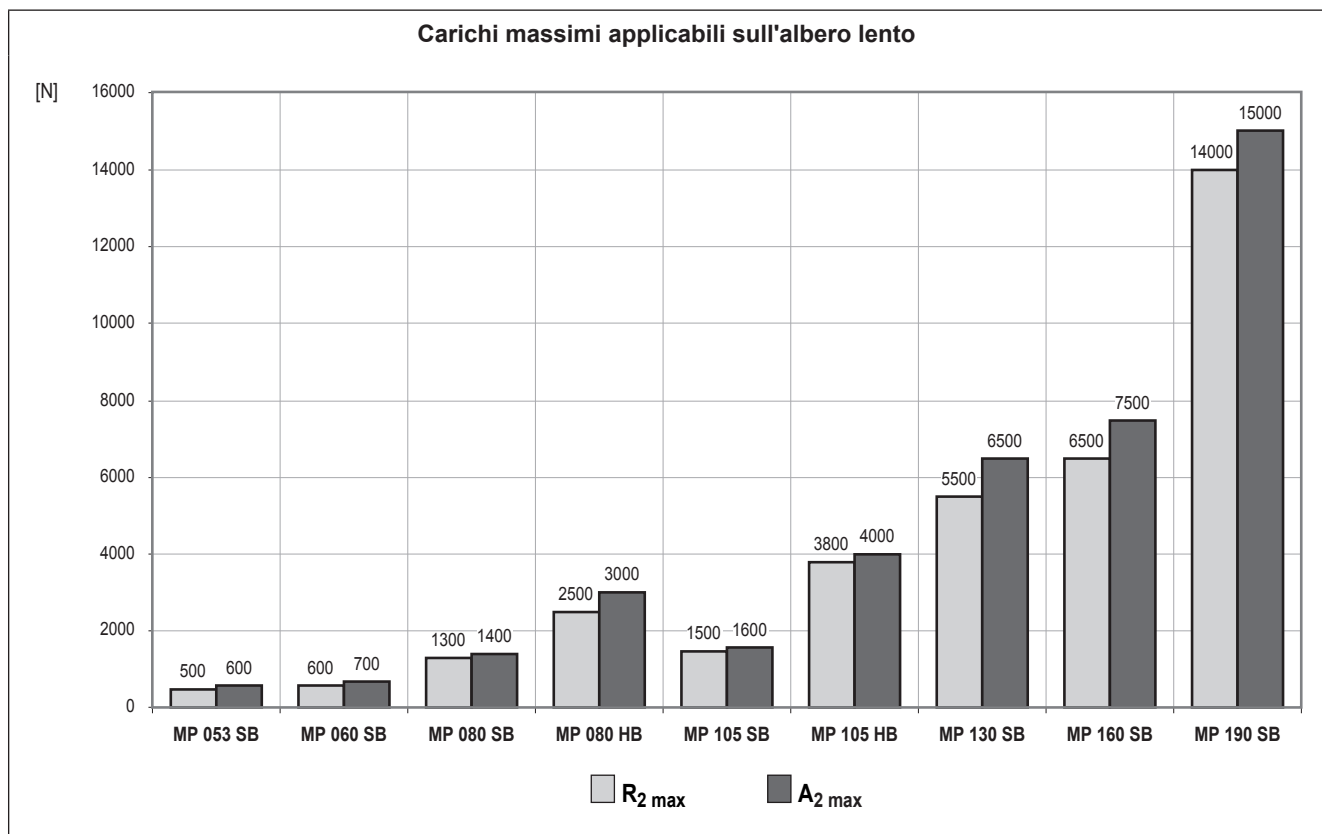
L'accoppiamento al motore è operazione che non richiede alcuna attrezzatura specifica, se non quella normalmente reperibile in un'officina.

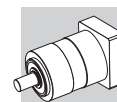
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
 - 1 stadio di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 10'$
 - 2 stadi di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 10'$
 - 3 stadi di riduzione (solo G e MB): standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 10'$
 - 3 stadi di riduzione: standard $\varphi_S \leq 17'$; ridotto $\varphi_R \leq 12'$
 - 4 stadi di riduzione (solo G e MB): standard $\varphi_S \leq 17'$; ridotto $\varphi_R \leq 12'$
- Elevato grado di protezione contro la penetrazione di polvere o liquidi dall'esterno (IP65).
- Guarnizioni di tenuta in ingresso dotate di mescola in fluoro-elastomero di fornitura standard.
- Livello di rumorosità $L_P \leq 70$ dB(A). Condizioni: distanza 1 m; misurata senza carico e con una velocità in ingresso $n_1=3000 \text{ min}^{-1}$; $i=10$.
- 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							

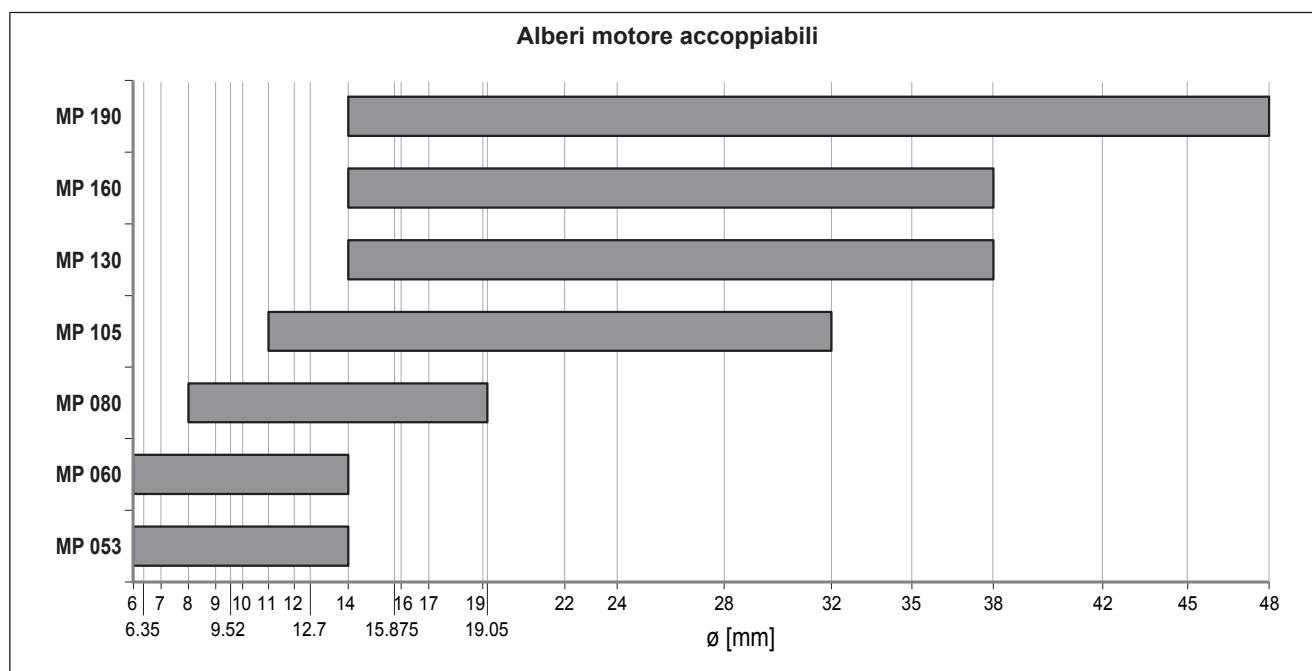
MP

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

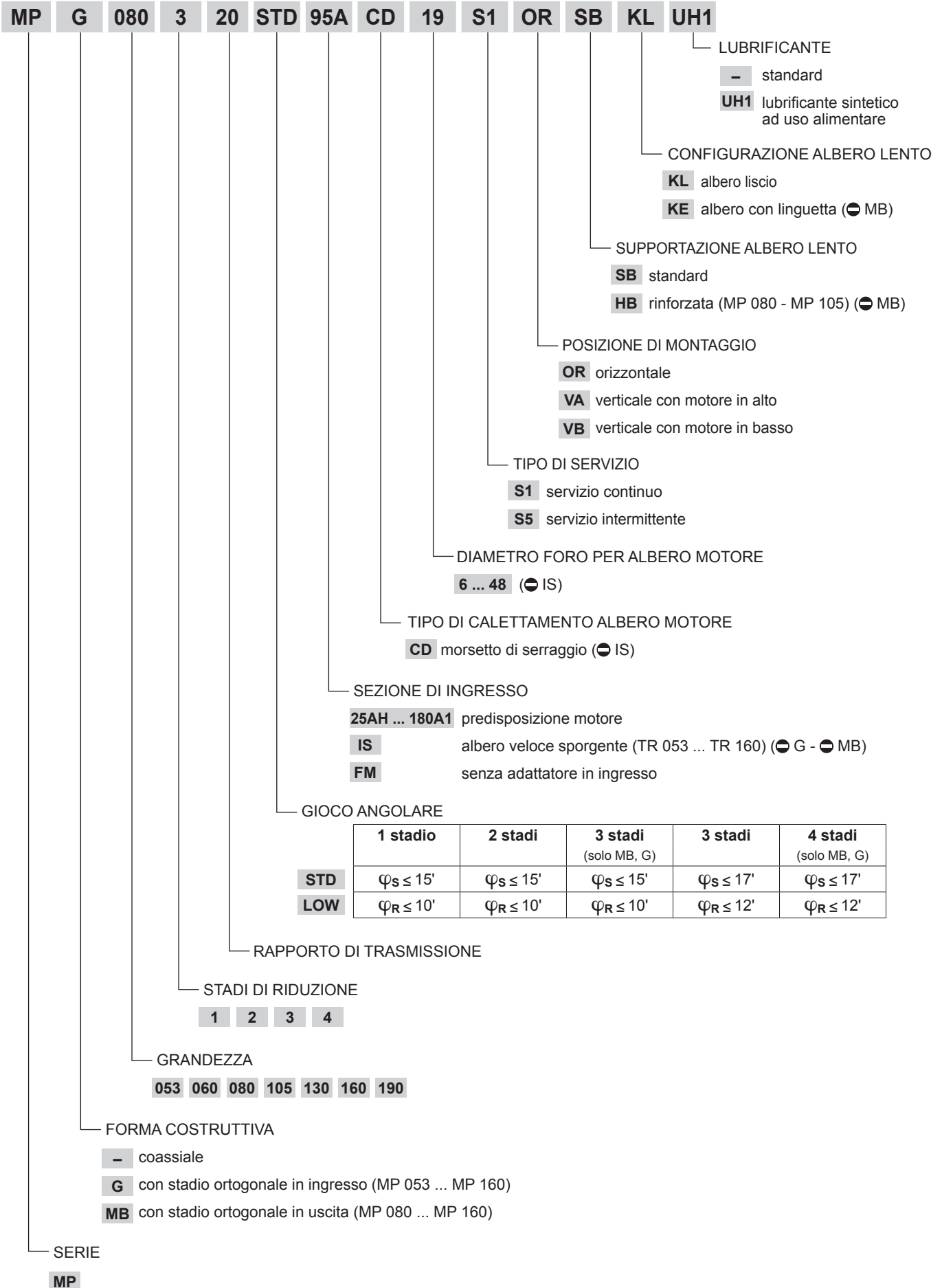
- Temperatura ambiente min -20°C, max +30°C. Per temperature superiori a 30°C deve essere considerato il fattore termico f_T .
- La temperatura sulla cassa non deve superare $T_{max} = 90^\circ\text{C}$.

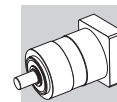
		Distribuzione coppia nominale M_{n2} [Nm]																											
	[I]	3	4	5	6	7	9	10	12	15	16	20	25	28	30	35	36	40	45	48	50	60	64	70	75	80	81	84	90
MP 053		12	15	15	15	15	12	-	20	20	20	20	20	20	-	20	15	-	20	20	-	20	20	-	20	20	12	20	-
MP 060		18	25	25	25	25	18	18	30	30	30	30	30	30	18	30	25	30	-	30	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		350	-	700	700	700	-	700	700	700	-	700	700	-	-	700	-	700	-	700	700	-	700	-	700	-	350		
MP 190		500	-	1000	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

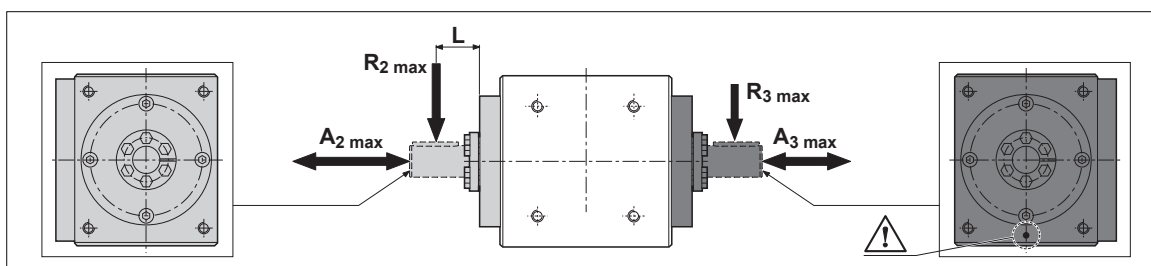
SEZIONE DI INGRESSO	FORMA COSTRUTTIVA		
	coassiale (—)	con stadio ortogonale in ingresso (G)	con stadio ortogonale in uscita (MB)
25AH ... 180A1			
IS			
FM			

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

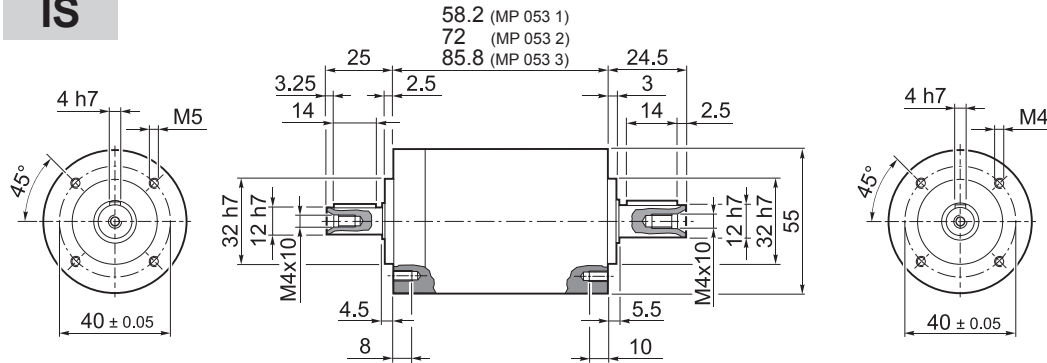
* Cuscinetti dimensionati per durata media pari a 10000 ore in condizioni di funzionamento nominale.



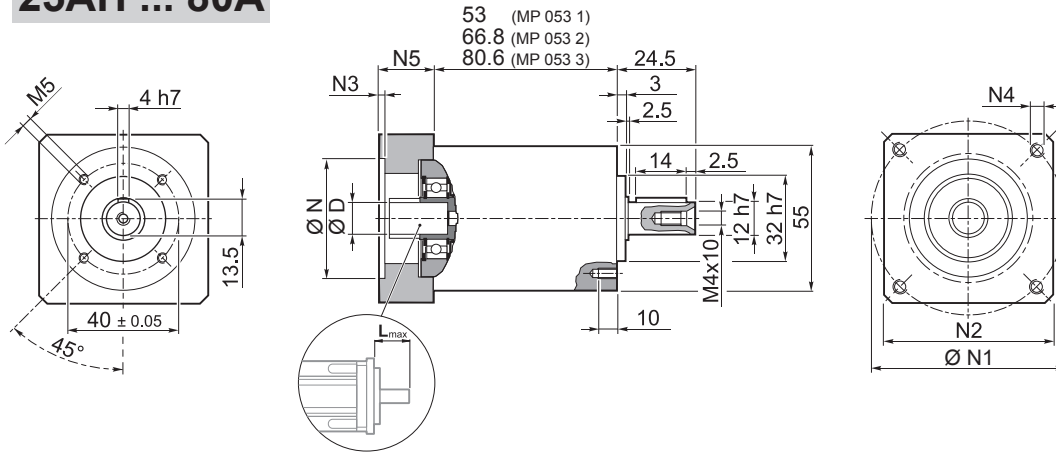
6.3 DIMENSIONI E DATI TECNICI

MP 053

IS



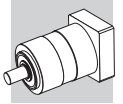
25AH ... 80A



MP

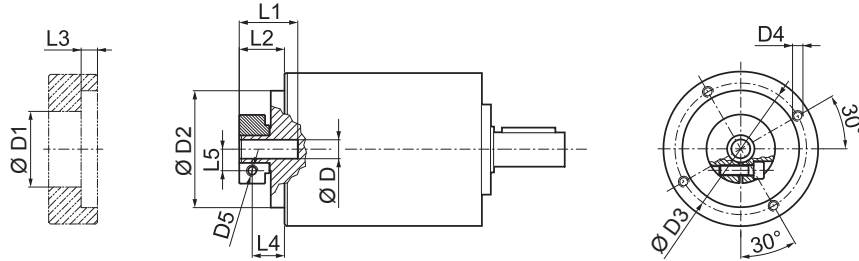
Motor Model	D											N	N1		N2	N3	N4	N5	L _{max}
	6	6.35	7	8	9	9.52	-	-	-	-	-		min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	36	48					
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	36	48					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	36	48					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	36	48					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	38	48	55	3.5	4.5	25	25
34AH	6	6.35	7	8	9	9.52	-	-	-	-	-	34	40	48					
36AH	6	6.35	7	8	9	9.52	-	-	-	-	-	36	42	48					
38AH	6	6.35	7	8	9	9.52	-	-	-	-	-	38	44	48					
40AH	6	6.35	7	8	9	9.52	-	-	-	-	-	40	46	48					
38B	6	6.35	7	8	9	9.52	10	11	12	12.7	-	38.1	66.6		60	3	M4x10	18	25
40B	6	6.35	7	8	9	9.52	10	11	12	12.7	-	40	63		60	3	M4x10	18	25
50A	6	6.35	7	8	9	9.52	10	11	12	12.7	-	50	60		60	3	M4x10	18	25
50B	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	65		60	3	M5x12	23	30
50BH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	65		60	4	5.5	23	30
50C	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	70		60	3	M4x10	23	30
50MH	6	6.35	7	8	9	9.52	10	11	12	12.7	-	50	65		55	2	5.5	16	23
60A	6	6.35	7	8	9	9.52	10	11	12	12.7	-	60	75		63	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		63	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.

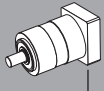


MP 053

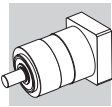
FM



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

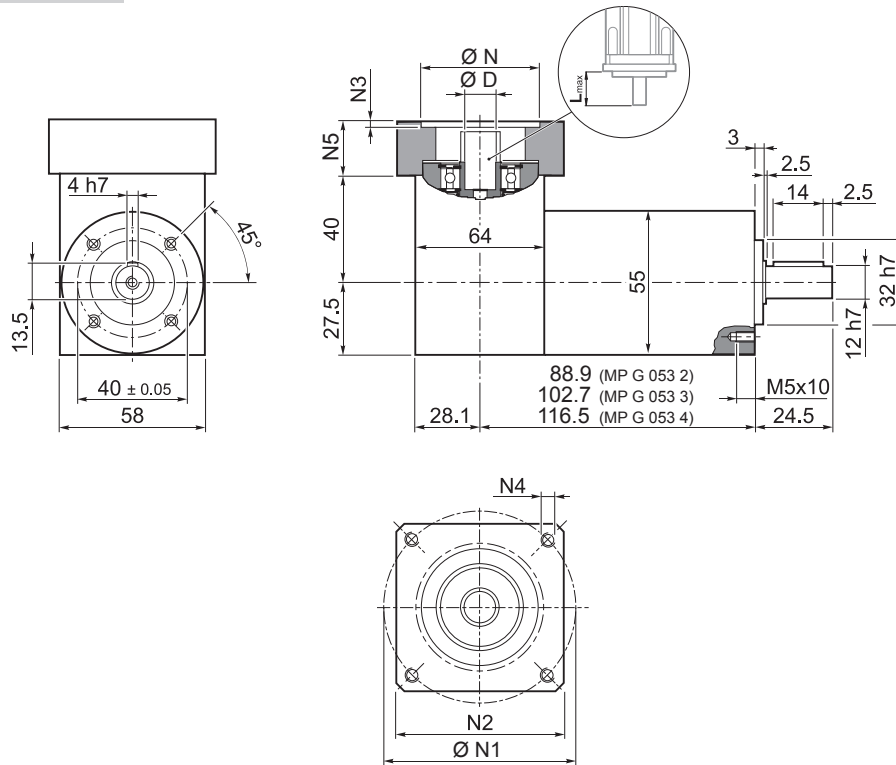
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\frac{Nm}{arcmin}$	[N]	[N]	[N]	%	6 ... 9.52	10 ... 14
MP 053 1_3	12	22	40	3300	4000	15'	10'	1.0	200	500	600	97	0.06	0.08
MP 053 1_4	15	28	45	3500	5000	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	3500	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

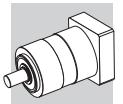


MP G 053 2	1.3
MP G 053 3	1.5
MP G 053 4	1.8

MP

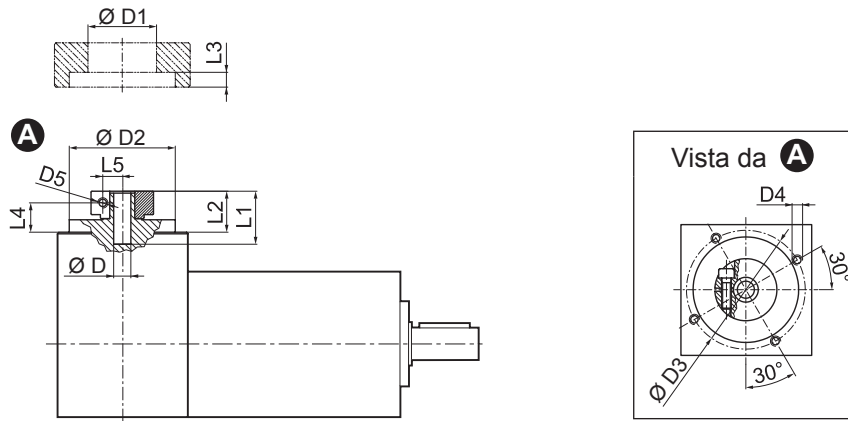
												N	N1		N2	N3	N4	N5	L _{max}
	D												min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	36	48	55	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	36	48					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	36	48					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	36	48					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	38	48					
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		63	3	M5x12	18	25
60A1	6	6.35	7	8	9	9.52	10	11	12	12.7	14	60	75		63	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



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

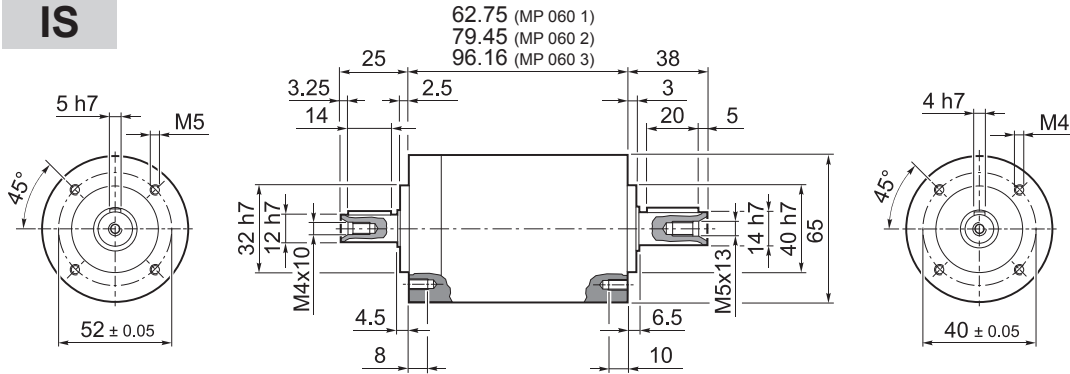
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _S [arcmin]	φ _R [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]	
												D	6 ... 9.52
MP G 053 2_3	12	22	40	3300	4000	15'	10'	1.0	500	600	94	0.18	0.20
MP G 053 2_4	15	28	45	3500	5000	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	3500	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



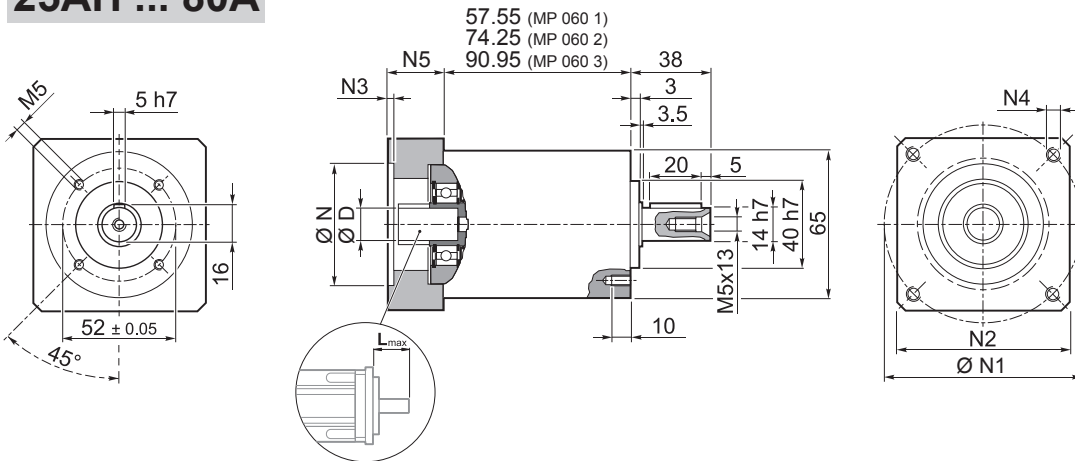
MP 060

IS



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

25AH ... 80A

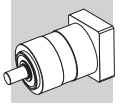


MP 060 1	1.2
MP 060 2	1.7
MP 060 3	2.0

MP

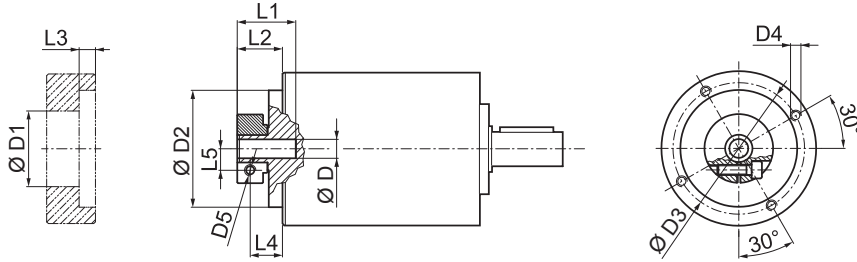
												N	N1		N2	N3	N4	N5	L _{max}
	D												min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56					
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	63	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	63	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



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

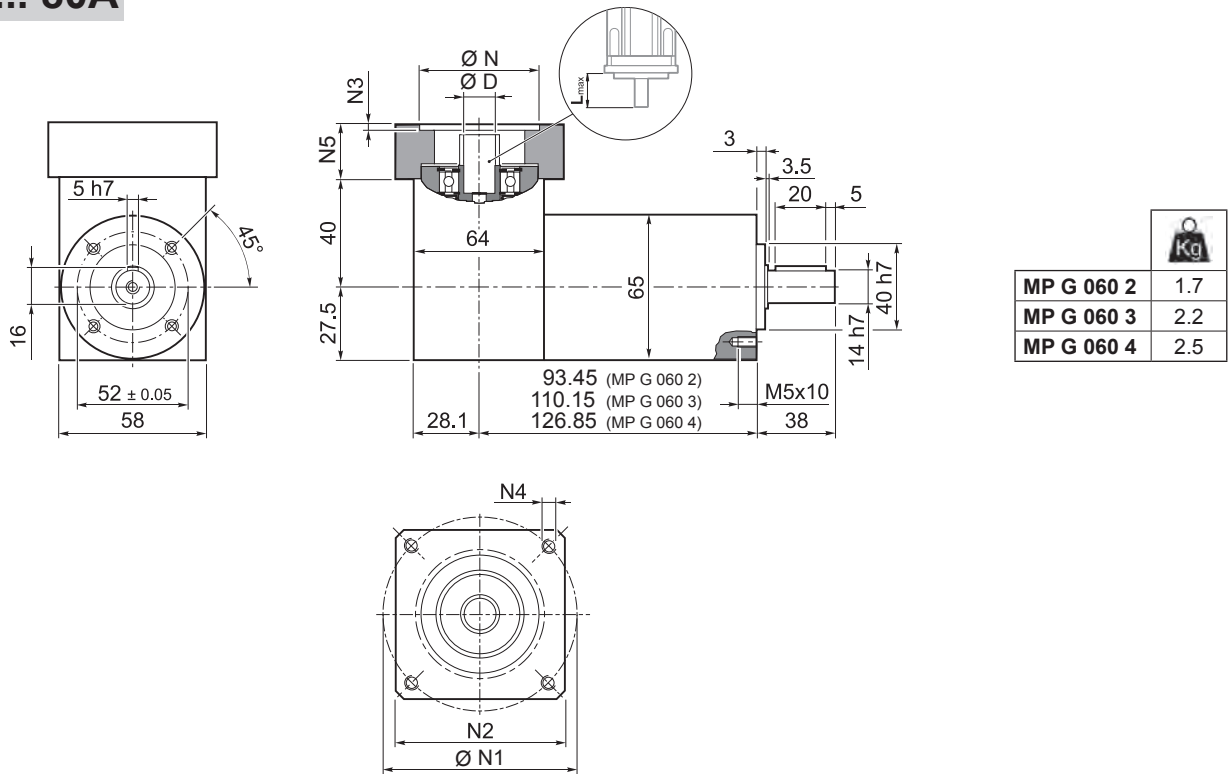
 i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	Ψ _S	Ψ _R	C _t	R _{1 max}	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{Nm}{arcmin} \right]$	[N]	[N]	[N]	%	 6 ... 9.52 10 ... 14	
MP 060 1_3	18	35	70	3300	4000	15'	10'	3.0	200	600	700	97	0.10	0.11
MP 060 1_4	25	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

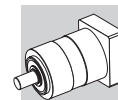
25AH ... 80A



MP

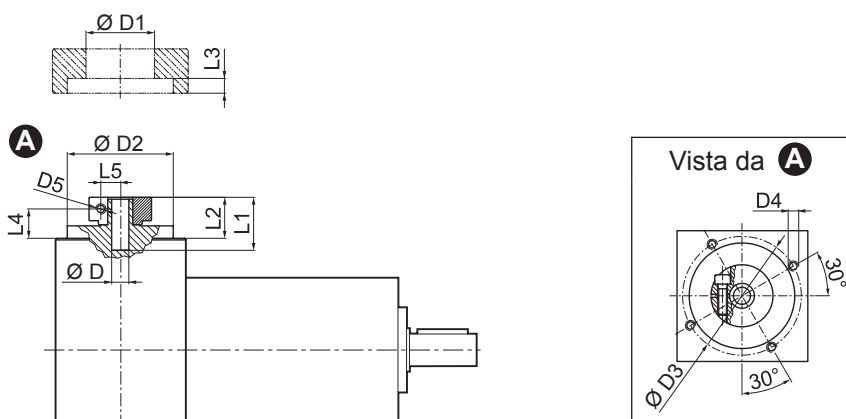
Motor Model	D											N	N1		N2	N3	N4	N5	L _{max}
	6	6.35	7	8	9	9.52	-	-	-	-	-		min	max					
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56					
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6	6.35	7	8	9	9.52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



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

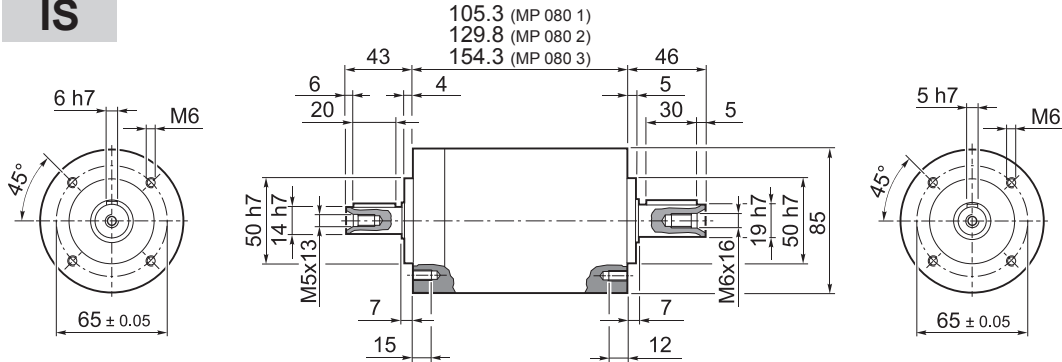
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Ψ _S [arcmin]	Ψ _R [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]	
												D	D
MP G 060 2_3	18	35	70	3300	4000	15'	10'	3.0	600	700	94	0.20	0.20
MP G 060 2_4	25	40	90	3500	5000	15'	10'	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



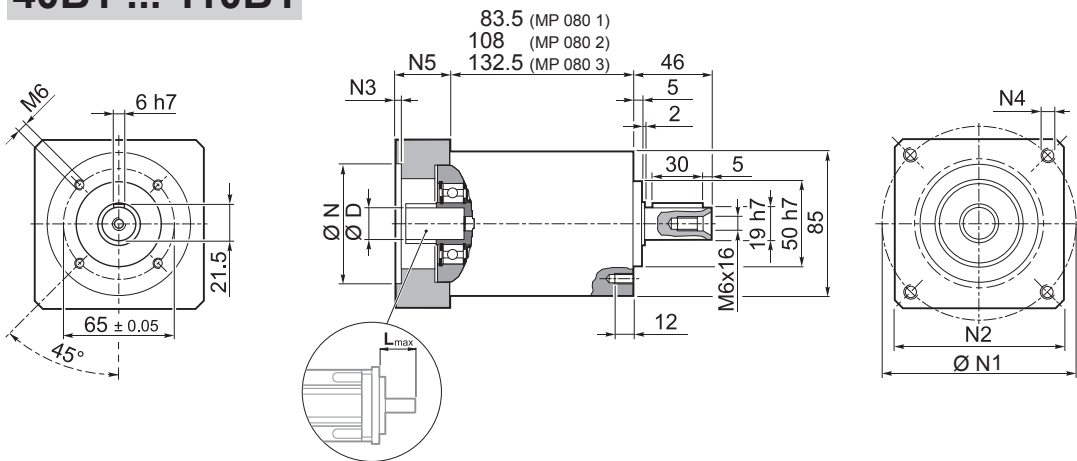
MP 080

IS



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

40B1 ... 110B1

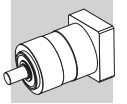


MP 080 1	4.0
MP 080 2	4.6
MP 080 3	5.2

MP

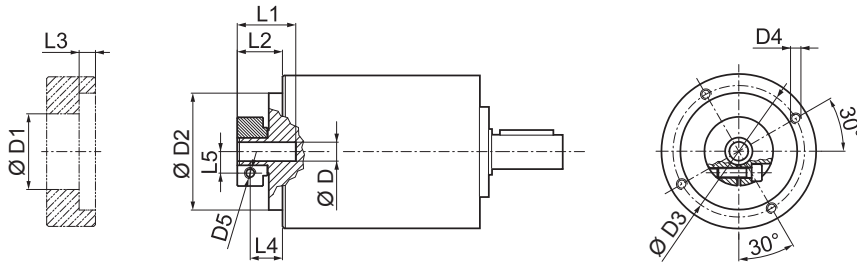
											N	N1	N2	N3	N4	N5	L _{max}		
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40	
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40	
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40	
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40	
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-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

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



MP 080

FM



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

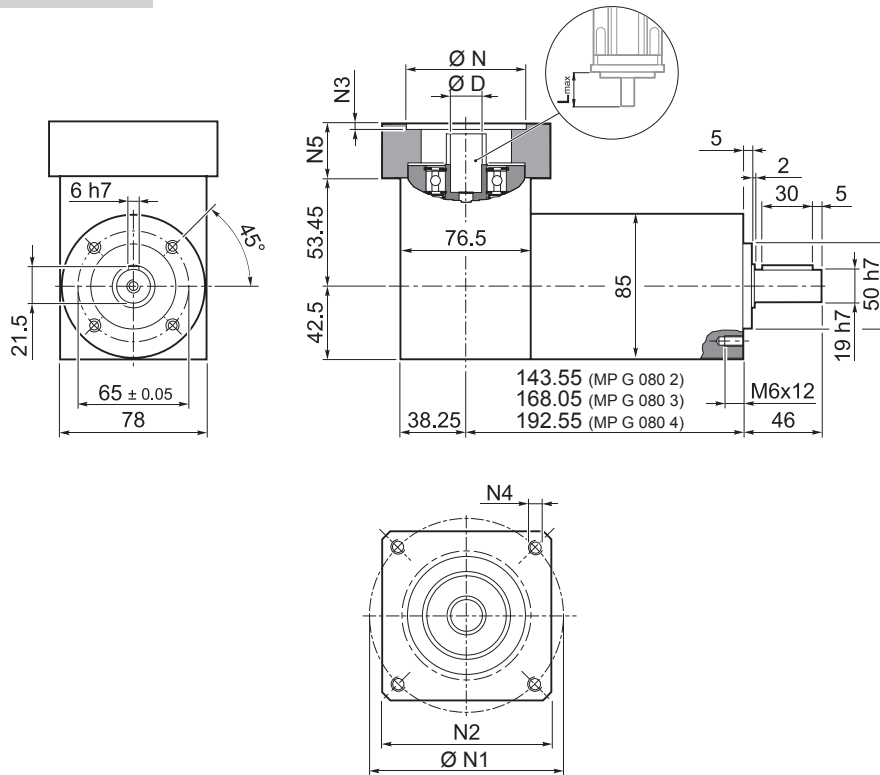
	i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	ψ _S [arcmin]	φ _R	C _t [Nm/arcmin]	R _{1 max} [N]	R _{2 max} [N]	SB		HB		η %	J _G [kgcm ²]	
												A _{2 max}	R _{2 max}	A _{2 max}	8 ... 12.7		14 ... 19.05	
												[N]	[N]	[N]				
MP 080 1_3		40	80	180	2900	3500	15'	10'	7.0	400	1300	1400	2500	3000	97	0.50	0.59	
MP 080 1_4		50	80	200	3100	4500	15'	10'	7.0	400	1300	1400	2500	3000	97	0.34	0.43	
MP 080 1_5		50	80	200	3200	4500	15'	10'	7.0	400	1300	1400	2500	3000	97	0.28	0.37	
MP 080 1_6		50	80	200	3200	4500	15'	10'	7.0	400	1300	1400	2500	3000	97	0.21	0.30	
MP 080 1_7		50	80	200	4000	6000	15'	10'	7.0	400	1300	1400	2500	3000	97	0.23	0.32	
MP 080 1_10		40	80	180	4000	6000	15'	10'	7.0	400	1300	1400	2500	3000	97	0.20	0.29	
MP 080 2_9		40	80	180	2900	3500	15'	10'	5.9	400	1300	1400	2500	3000	94	0.49	0.58	
MP 080 2_12		70	100	250	2900	3500	15'	10'	5.9	400	1300	1400	2500	3000	94	0.47	0.56	
MP 080 2_15		70	100	250	2900	3500	15'	10'	5.9	400	1300	1400	2500	3000	94	0.46	0.55	
MP 080 2_16		70	100	250	3100	4500	15'	10'	5.9	400	1300	1400	2500	3000	94	0.32	0.41	
MP 080 2_20		70	100	250	3200	4500	15'	10'	5.9	400	1300	1400	2500	3000	94	0.27	0.36	
MP 080 2_25		70	100	250	3200	4500	15'	10'	5.9	400	1300	1400	2500	3000	94	0.27	0.36	
MP 080 2_28		70	100	250	4000	6000	15'	10'	5.9	400	1300	1400	2500	3000	94	0.22	0.31	
MP 080 2_30		40	80	180	4000	6000	15'	10'	5.9	400	1300	1400	2500	3000	94	0.20	0.29	
MP 080 2_35		70	100	250	4000	6000	15'	10'	5.9	400	1300	1400	2500	3000	94	0.22	0.31	
MP 080 2_36		50	80	200	3200	4500	15'	10'	5.9	400	1300	1400	2500	3000	94	0.20	0.29	
MP 080 2_40		70	100	250	4000	6000	15'	10'	5.9	400	1300	1400	2500	3000	94	0.20	0.29	
MP 080 2_50		70	100	250	4000	6000	15'	10'	5.9	400	1300	1400	2500	3000	94	0.19	0.28	
MP 080 2_70		70	100	250	4000	6000	15'	10'	5.9	400	1300	1400	2500	3000	94	0.19	0.28	
MP 080 2_100		40	80	180	4000	6000	15'	10'	5.9	400	1300	1400	2500	3000	94	0.19	0.28	
MP 080 3_48		70	100	250	3100	4500	17'	12'	5.4	400	1300	1400	2500	3000	91	0.33	0.42	
MP 080 3_64		70	100	250	3100	4500	17'	12'	5.4	400	1300	1400	2500	3000	91	0.32	0.41	
MP 080 3_75		70	100	250	3200	4500	17'	12'	5.4	400	1300	1400	2500	3000	91	0.27	0.36	
MP 080 3_80		70	100	250	3100	4500	17'	12'	5.4	400	1300	1400	2500	3000	91	0.32	0.41	
MP 080 3_84		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.23	0.32	
MP 080 3_90		40	80	180	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.20	0.29	
MP 080 3_120		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.20	0.29	
MP 080 3_125		70	100	250	3200	4500	17'	12'	5.4	400	1300	1400	2500	3000	91	0.27	0.36	
MP 080 3_140		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.22	0.31	
MP 080 3_150		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.20	0.29	
MP 080 3_160		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.20	0.29	
MP 080 3_175		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.22	0.31	
MP 080 3_200		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.20	0.29	
MP 080 3_210		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.20	0.29	
MP 080 3_216		70	100	250	3200	4500	17'	12'	5.4	400	1300	1400	2500	3000	91	0.20	0.29	
MP 080 3_250		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28	
MP 080 3_280		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28	
MP 080 3_350		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28	
MP 080 3_400		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28	
MP 080 3_500		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28	
MP 080 3_700		70	100	250	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28	
MP 080 3_1000		40	80	180	4000	6000	17'	12'	5.4	400	1300	1400	2500	3000	91	0.19	0.28	


MP




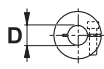
MP G 080

40B1 ... 110B1

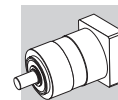


	
MP G 080 2	5.2
MP G 080 3	5.8
MP G 080 4	6.4

MP

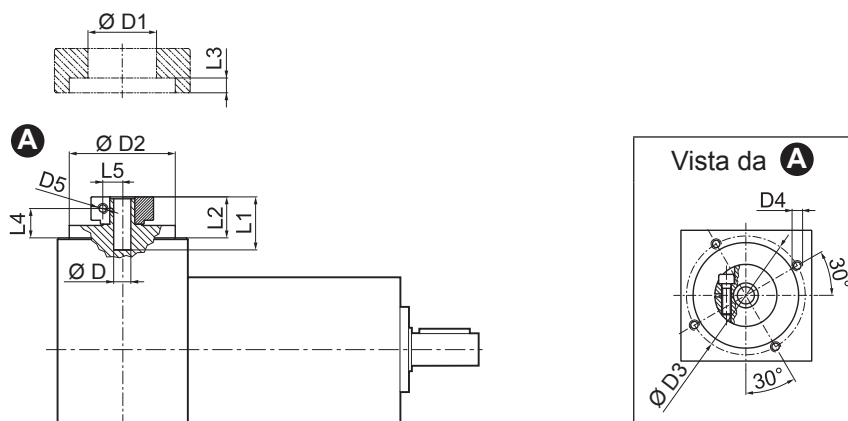
											N	N1	N2	N3	N4	N5	L _{max}		
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x12	34	40	
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x12	34	40	
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40	
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40	
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-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

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



MP G 080

FM



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

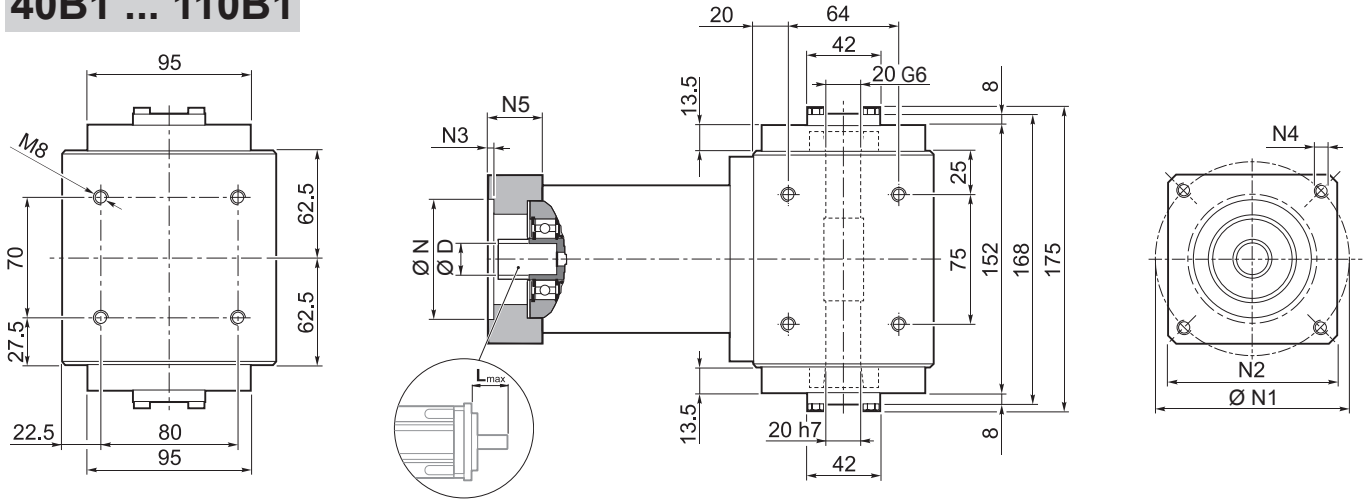
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _S	ψ _R	C _t	SB		HB		η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[Nm / arcmin]	R _{2 max}	A _{2 max}	R _{2 max}	A _{2 max}	%		8 ... 12.7	14 ... 19.05
MP G 080 2_3	40	80	180	2900	3500	15'	10'	7.0	1300	1400	2500	3000	94	0.67	0.79
MP G 080 2_4	50	80	200	3100	4500	15'	10'	7.0	1300	1400	2500	3000	94	0.62	0.75
MP G 080 2_5	50	80	200	3200	4500	15'	10'	7.0	1300	1400	2500	3000	94	0.61	0.74
MP G 080 2_6	50	80	200	3200	4500	15'	10'	7.0	1300	1400	2500	3000	94	0.58	0.71
MP G 080 2_7	50	80	200	4000	6000	15'	10'	7.0	1300	1400	2500	3000	94	0.60	0.73
MP G 080 2_10	40	80	180	4000	6000	15'	10'	7.0	1300	1400	2500	3000	94	0.60	0.72
MP G 080 3_9	40	80	180	2900	3500	15'	10'	5.9	1300	1400	2500	3000	91	0.66	0.78
MP G 080 3_12	70	100	250	2900	3500	15'	10'	5.9	1300	1400	2500	3000	91	0.75	0.87
MP G 080 3_15	70	100	250	2900	3500	15'	10'	5.9	1300	1400	2500	3000	91	0.74	0.87
MP G 080 3_16	70	100	250	3100	4500	15'	10'	5.9	1300	1400	2500	3000	91	0.60	0.73
MP G 080 3_20	70	100	250	3200	4500	15'	10'	5.9	1300	1400	2500	3000	91	0.60	0.73
MP G 080 3_25	70	100	250	3200	4500	15'	10'	5.9	1300	1400	2500	3000	91	0.64	0.76
MP G 080 3_28	70	100	250	4000	6000	15'	10'	5.9	1300	1400	2500	3000	91	0.59	0.72
MP G 080 3_30	40	80	180	4000	6000	15'	10'	5.9	1300	1400	2500	3000	91	0.60	0.72
MP G 080 3_35	70	100	250	4000	6000	15'	10'	5.9	1300	1400	2500	3000	91	0.61	0.74
MP G 080 3_36	50	80	200	3200	4500	15'	10'	5.9	1300	1400	2500	3000	91	0.57	0.70
MP G 080 3_40	70	100	250	4000	6000	15'	10'	5.9	1300	1400	2500	3000	91	0.60	0.72
MP G 080 3_50	70	100	250	4000	6000	15'	10'	5.9	1300	1400	2500	3000	91	0.59	0.71
MP G 080 3_70	70	100	250	4000	6000	15'	10'	5.9	1300	1400	2500	3000	91	0.59	0.71
MP G 080 3_100	40	80	180	4000	6000	15'	10'	5.9	1300	1400	2500	3000	91	0.59	0.71
MP G 080 4_48	70	100	250	3100	4500	17'	12'	5.4	1300	1400	2500	3000	89	0.61	0.75
MP G 080 4_64	70	100	250	3100	4500	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.73
MP G 080 4_75	70	100	250	3200	4500	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.73
MP G 080 4_80	70	100	250	3100	4500	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.73
MP G 080 4_84	70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.73
MP G 080 4_90	40	80	180	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.72
MP G 080 4_120	70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.72
MP G 080 4_125	70	100	250	3200	4500	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.73
MP G 080 4_140	70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.72
MP G 080 4_150	70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.72
MP G 080 4_160	70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.72
MP G 080 4_175	70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.59	0.72
MP G 080 4_200	70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.72
MP G 080 4_210	70	100	250	4000	6000	17'	12'	5.4	1300	1400	2500	3000	89	0.60	0.72
MP G 080 4_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

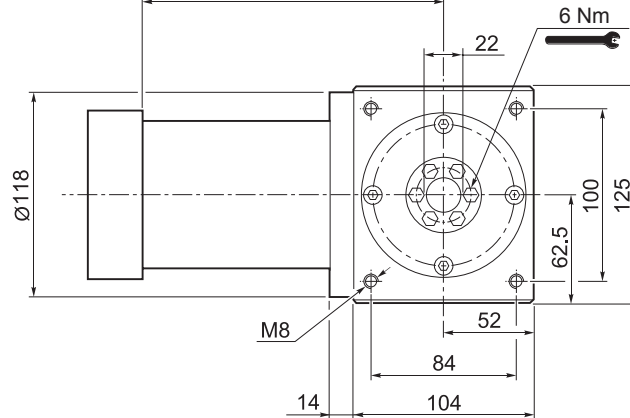


MP MB 080

40B1 ... 110B1



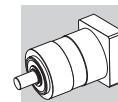
149.5 (MP MB 080 2)
174 (MP MB 080 3)
198.5 (MP MB 080 4)



	Kg
MP MB 080 2	14.0
MP MB 080 3	15.0
MP MB 080 4	16.0

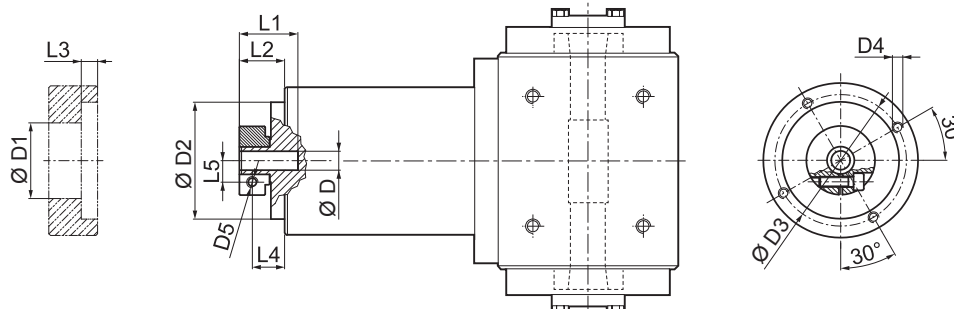
	D											N	N1	N2	N3	N4	N5	L _{max}	
	8	9	9.52	11	12	12.7	14	-	-	-	-	-	40	63	80	4	M4x12	34	40
40B1	8	9	9.52	11	12	12.7	-	-	-	-	-	-	45	63	80	4	M4x12	34	40
45A	8	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	M5x16	34	40
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	5.5	34	40
50BH1	8	9	9.52	11	12	12.7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

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



MP MB 080

FM



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

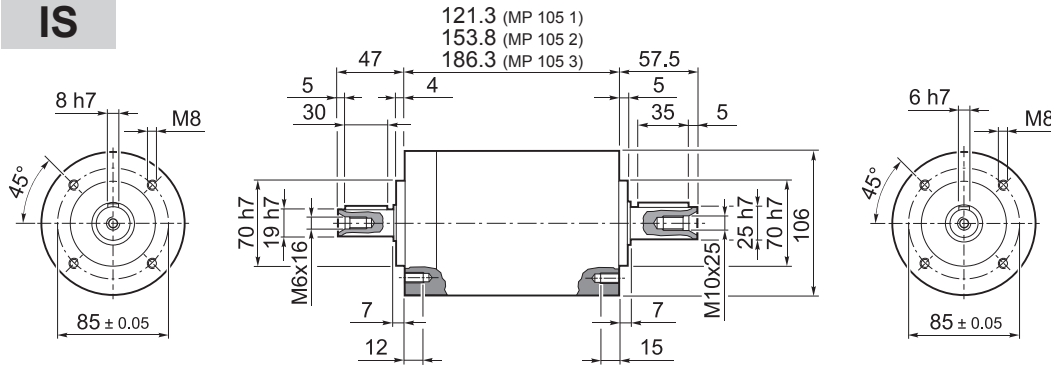
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _s	φ _R	C _t	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[Nm/arcmin]	%	8 ... 12.7	14 ... 19.05	
MP MB 080 2_3	40	80	180	2900	3500	15'	10'	7.0	94	0.50	0.59
MP MB 080 2_4	50	80	200	3100	4500	15'	10'	7.0	94	0.34	0.43
MP MB 080 2_5	50	80	200	3200	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



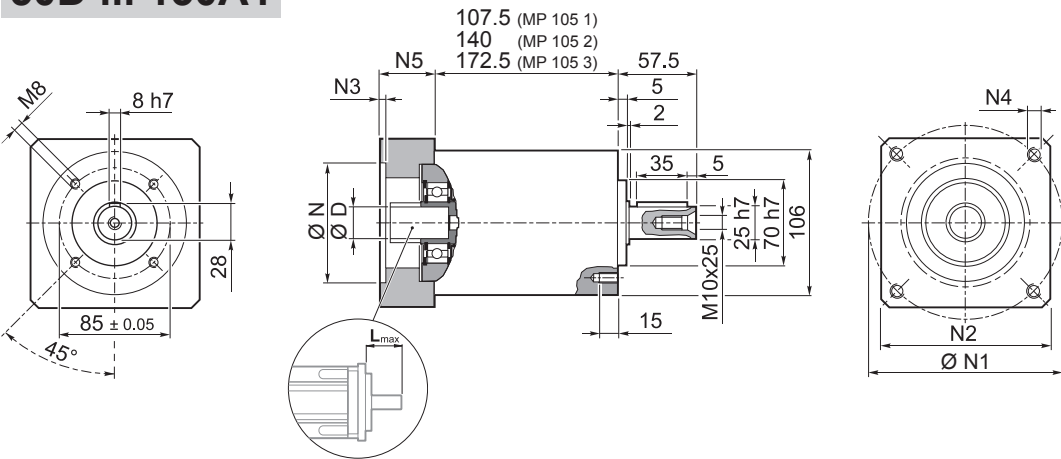
MP 105

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

MP

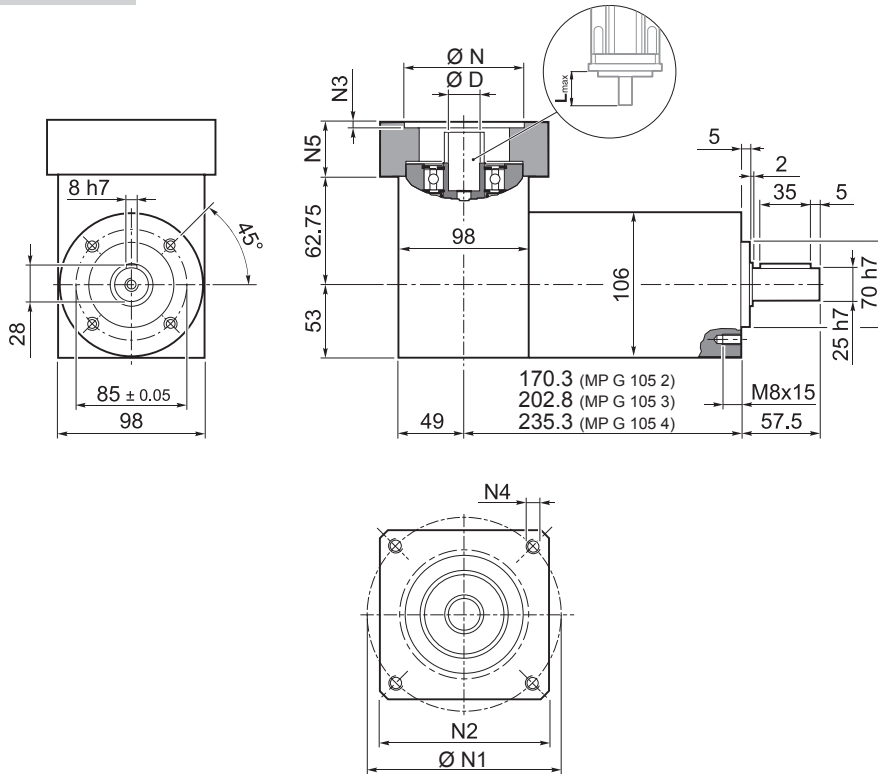
											N	N1	N2	N3	N4	N5	L _{max}	
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	4	6.5	33	40
60B1	11	12	12.7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


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




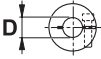
MP G 105

50D ... 130A1

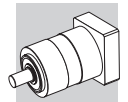


	
MP G 105 2	8.5
MP G 105 3	10.5
MP G 105 4	12.5

MP

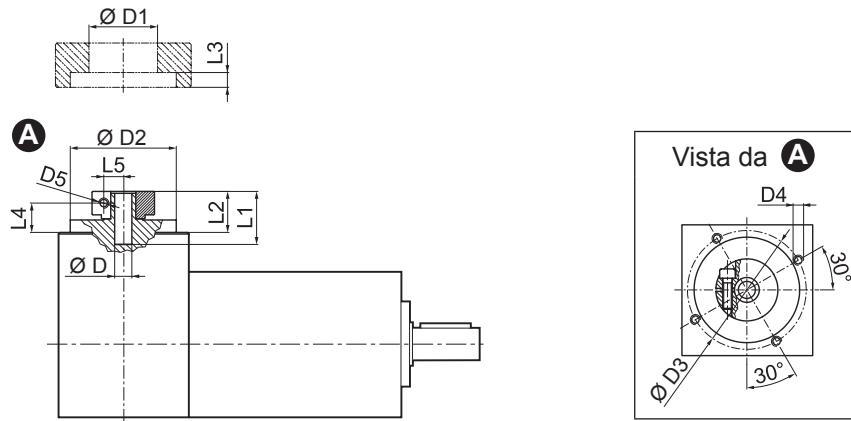
											N	N1	N2	N3	N4	N5	L _{max}	
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	60	75	100	4	6.5	33	40
60B1	11	12	12.7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

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



MP G 105

FM



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

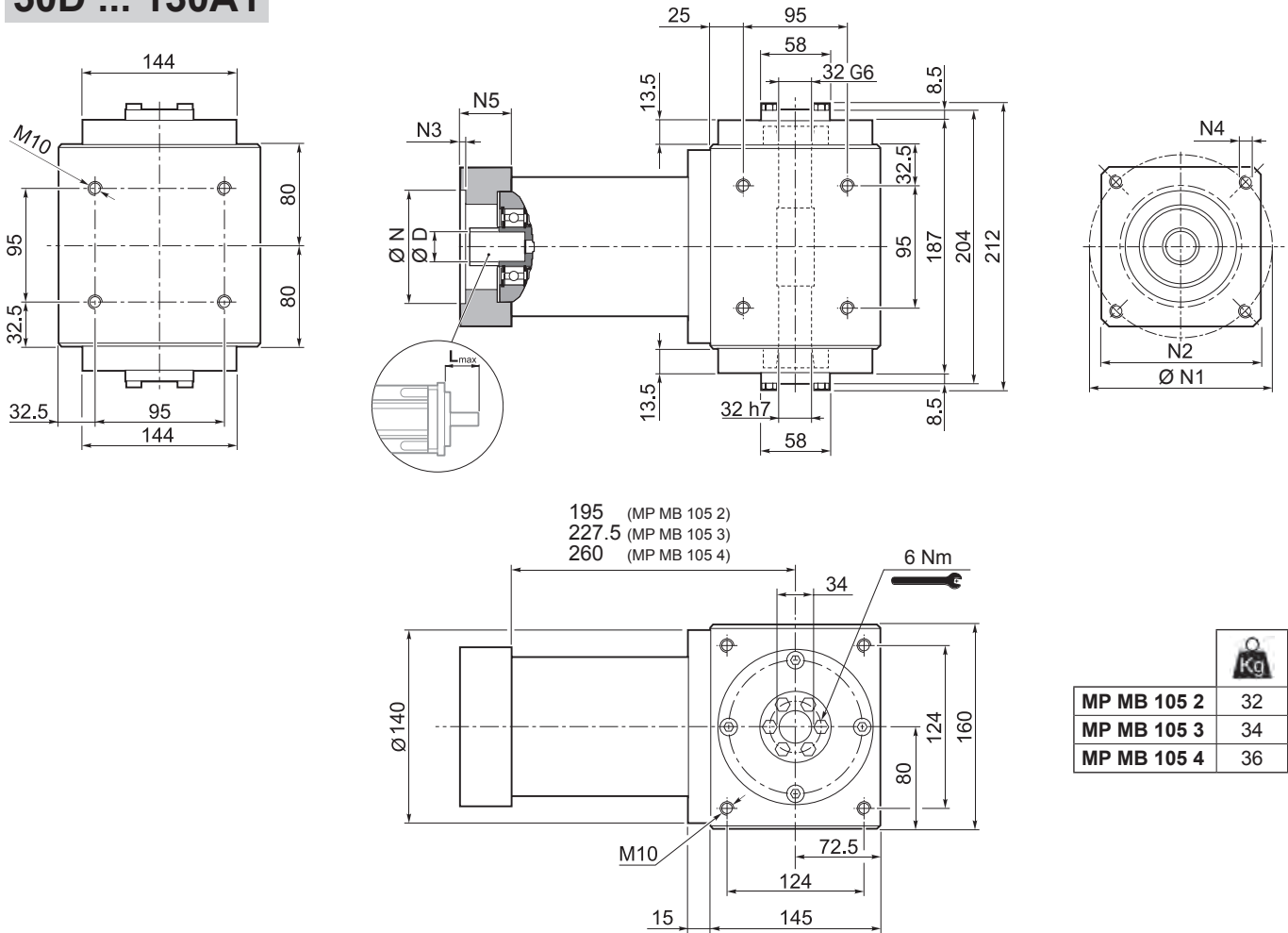
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Ψ _S [arcmin]	Ψ _R [arcmin]	C _t [Nm/arcmin]	SB		HB		η ₁ %	J _G [kgcm ²]			
									R _{2 max} [N]	A _{2 max} [N]	R _{2 max} [N]	A _{2 max} [N]		11 ... 12.7	14 ... 19	22 - 24	28 - 32
MP G 105 2_3	100	180	360	2500	3500	15'	10'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

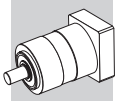
50D ... 130A1



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

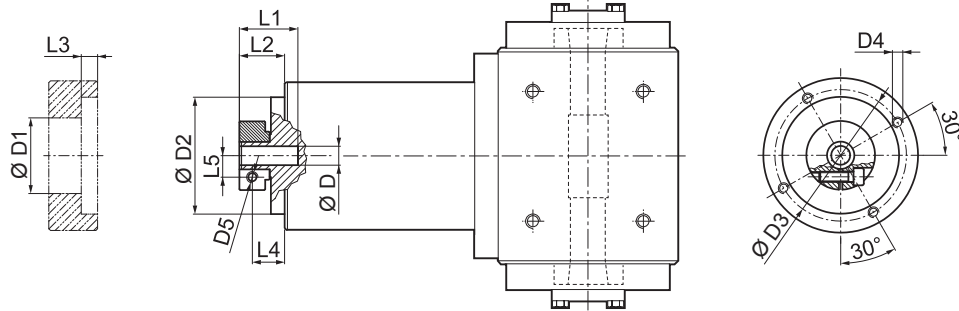
											N	N1	N2	N3	N4	N5	Lmax		
50D	11	12	12.7	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	-	-	55	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	6.5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	-	-	60	75	100	4	6.5	33	40
60B1	11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

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



MP MB 105

FM



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

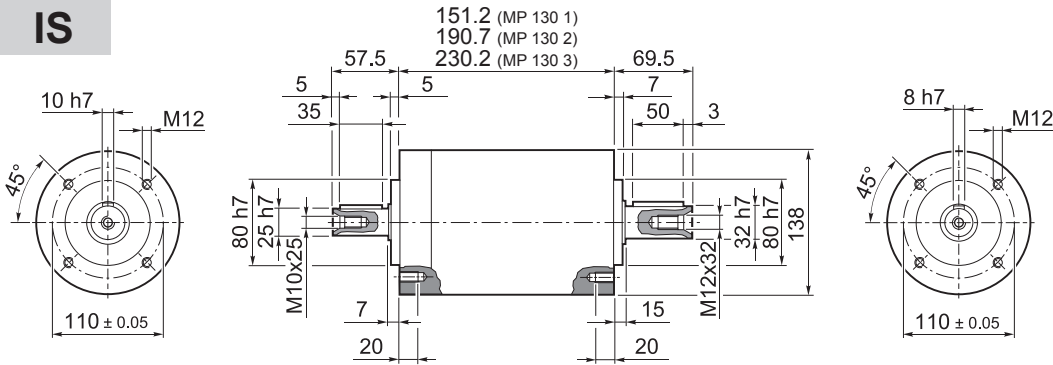
i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	Ψ _S [arcmin]	Ψ _R [arcmin]	C _t [Nm/arcmin]	η %	J _G [kgcm ²]			
										D	11 ... 12.7	14 ... 19	22 - 24
MP MB 105 2_3	100	180	360	2500	3500	15'	10'	22.0	94	1.70	1.78	2.22	2.59
MP MB 105 2_4	140	210	450	2800	4500	15'	10'	22.0	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



MP 130

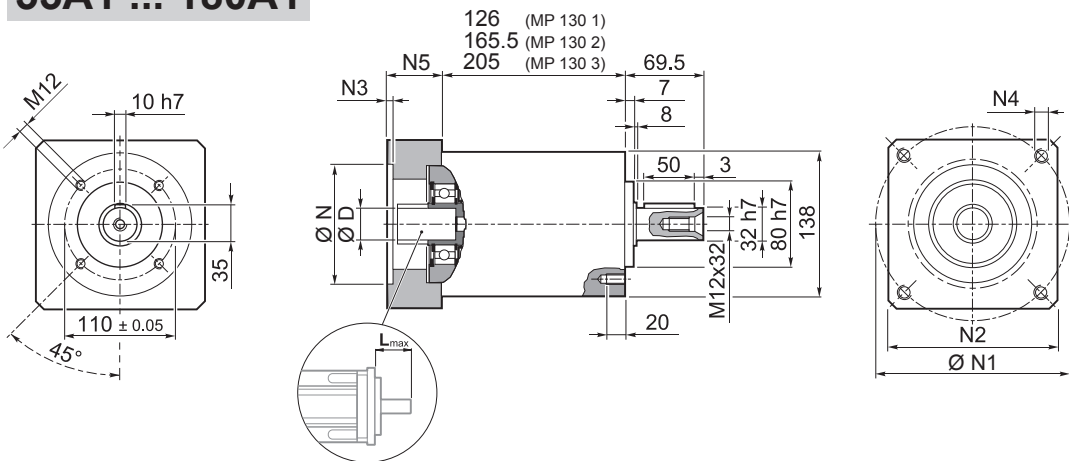
IS



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

55A1 ... 180A1

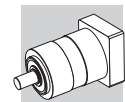
MP



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

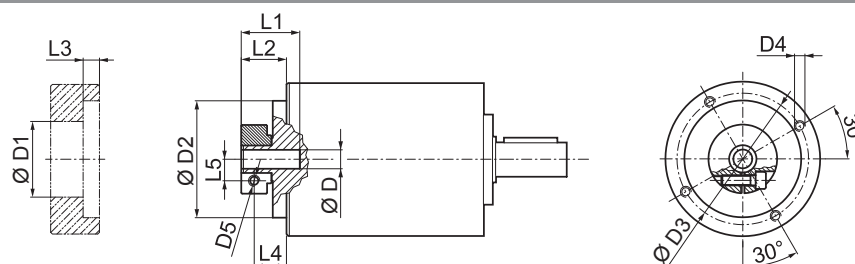
											N	N1	N2	N3	N4	N5	L _{max}
	14	15.875	16	19	-	-	-	-	-	-							
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	130	4	M8x20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

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



MP 130

FM



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

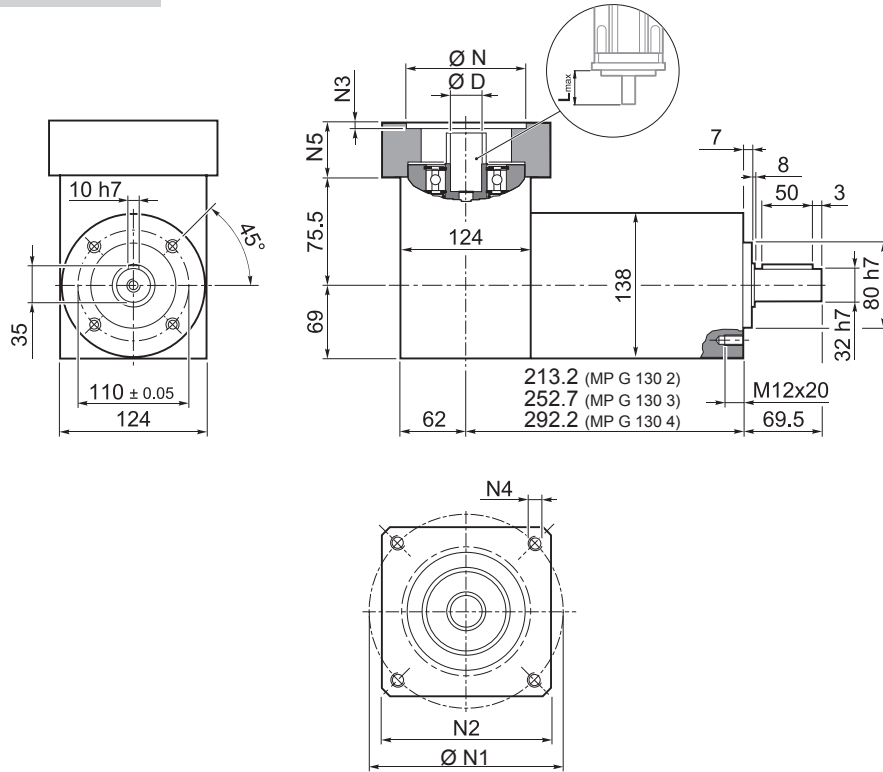
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	ϕ _S [arcmin]	ϕ _R	C _t [Nm/arcmin]	R _{1 max} [N]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]				
													D	14 ... 19	22 - 24	28 - 32	35 - 38
MP 130 1_3	215	400	800	2100	3000	15'	10'	43.0	800	5500	6500	97	5.25	5.46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


MP





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

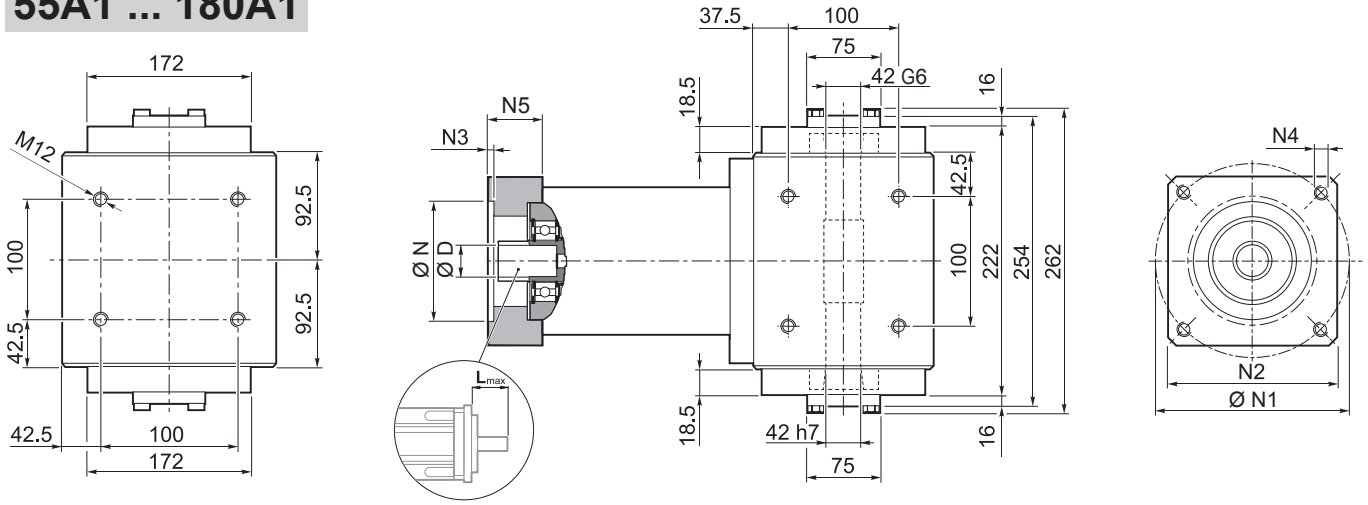
											N	N1	N2	N3	N4	N5	L _{max}
	14	15.875	16	19	-	-	-	-	-	-							
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	130	4	M8x20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

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

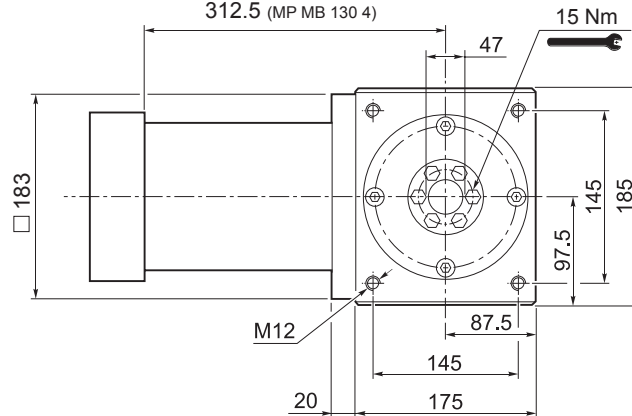



MP MB 130

55A1 ... 180A1


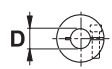


233.5 (MP MB 130 2)
273 (MP MB 130 3)
312.5 (MP MB 130 4)

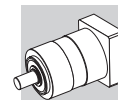


	
MP MB 130 2	54
MP MB 130 3	58
MP MB 130 4	61

MP

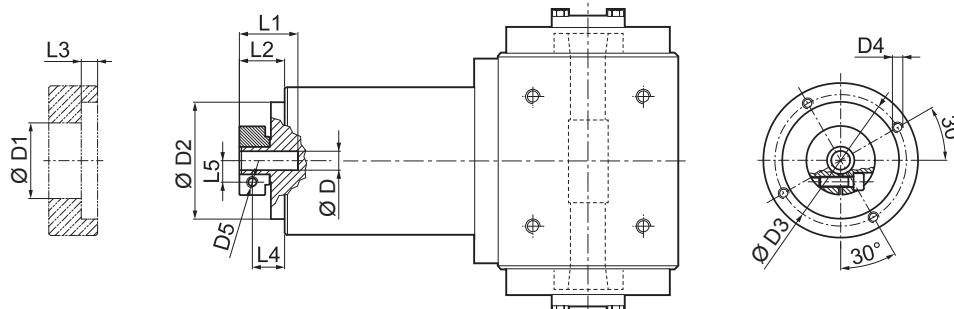
												N	N1	N2	N3	N4	N5	L _{max}
	D																	
55A1	14	15.875	16	19	-	-	-	-	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	-	110	130	130	4	M8x20	39.5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

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



MP MB 130

FM



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

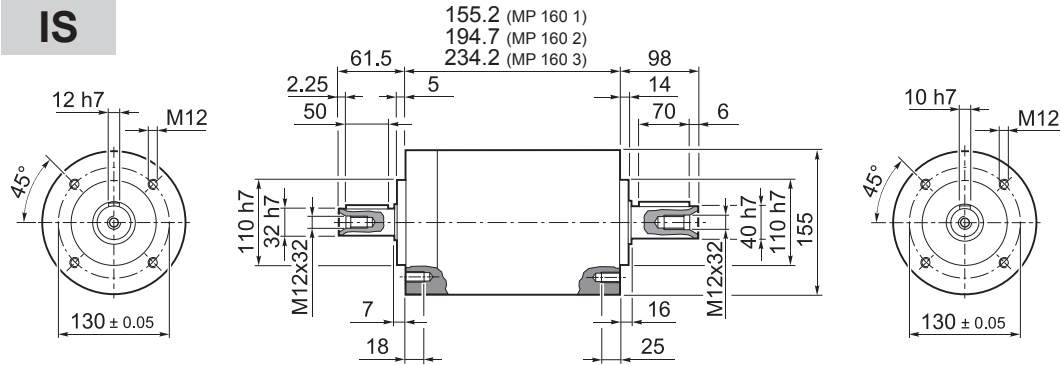
	i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _S [arcmin]	φ _R [arcmin]	C _t [Nm/arcmin]	η %	J _G [kgcm ²]			
												14 ... 19	22 - 24	28 - 32
MP MB 130 2_3		215	400	800	2100	3000	15'	10'	43.0	94	5.25	5.46	5.81	7.16
MP MB 130 2_4		380	600	1100	2400	3500	15'	10'	43.0	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



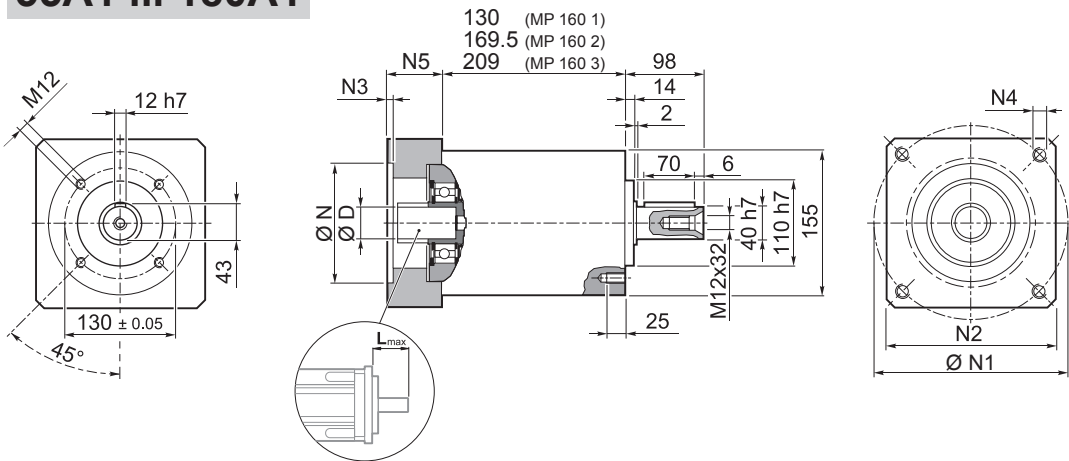
MP 160

IS



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

55A1 ... 180A1



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

MP

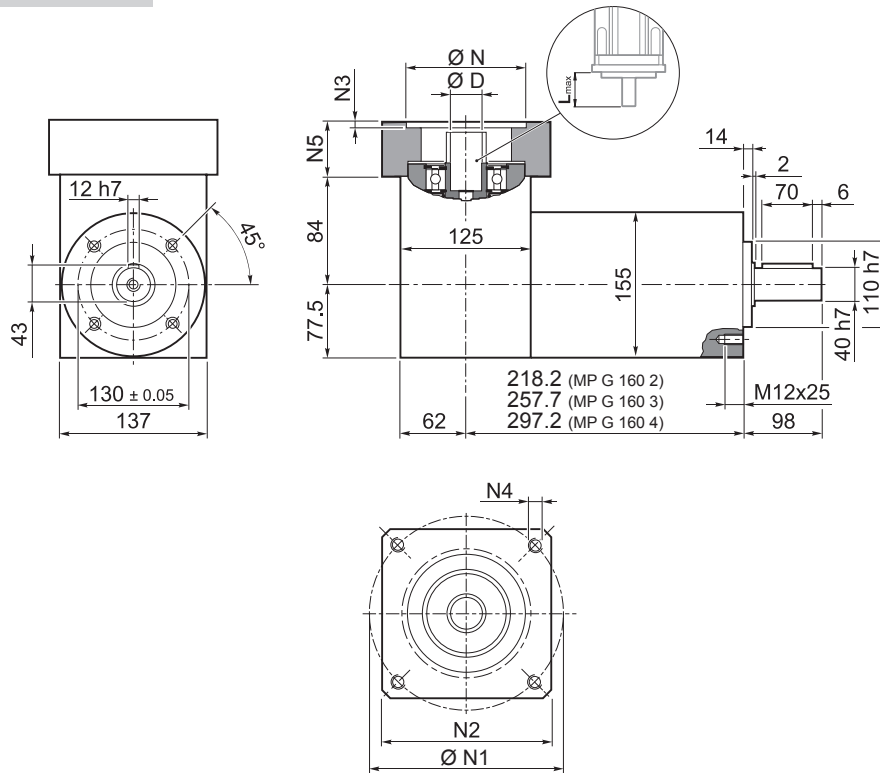
											N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	15.875	16	19	22	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.


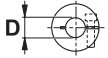


MP G 160

55A1 ... 180A1



MP

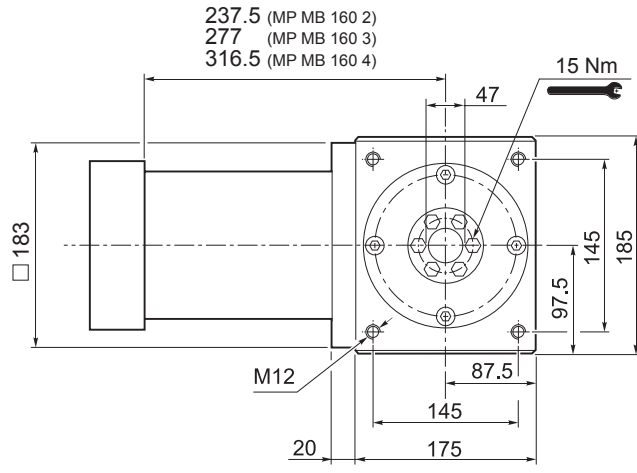
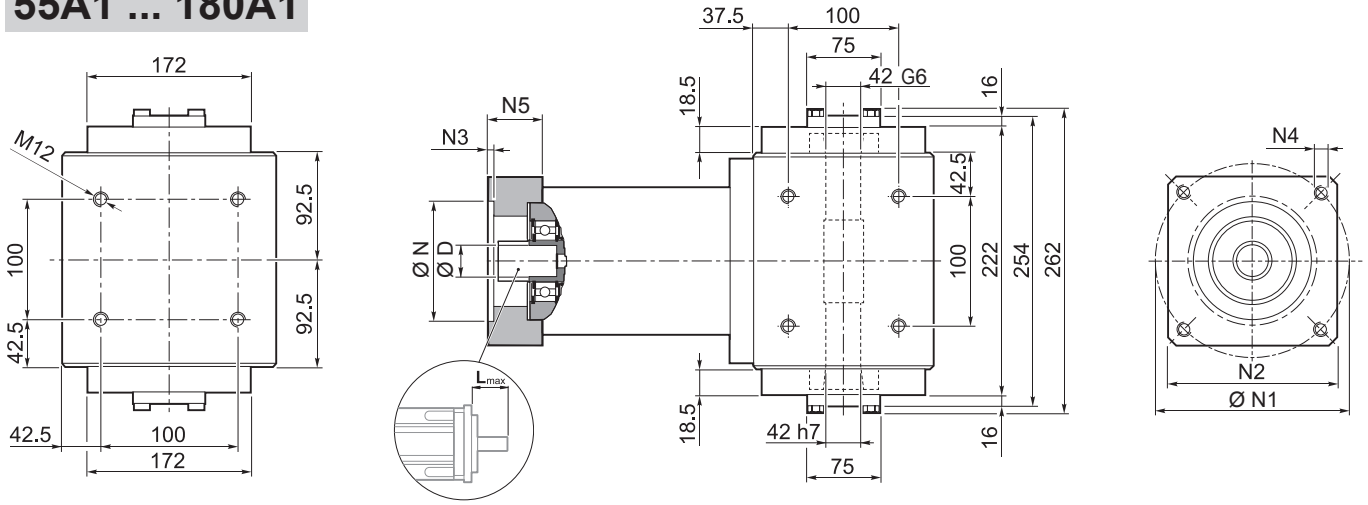
											N	N1	N2	N3	N4	N5	L _{max}
	14	15.875	16	19	-	-	-	-	-	-							
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	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

55A1 ... 180A1

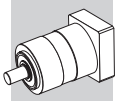


MP MB 160 2	59
MP MB 160 3	63.5
MP MB 160 4	70.5

MP

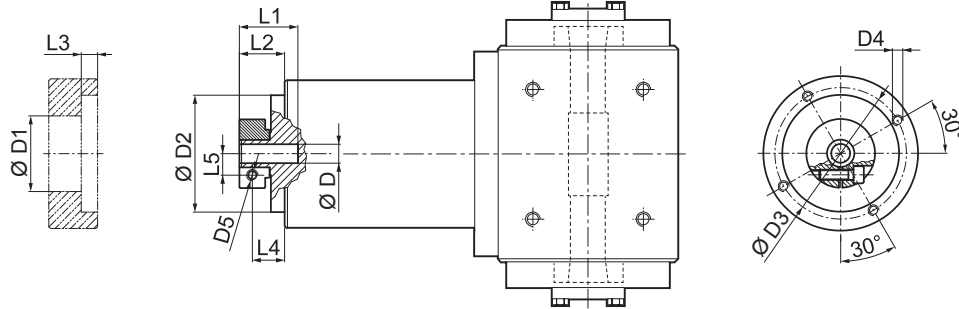
											N	N1	N2	N3	N4	N5	L _{max}
	14	15.875	16	19	-	-	-	-	-	-							
55A1	14	15.875	16	19	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	-	-	-	110	130	140	5	M8x20	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.

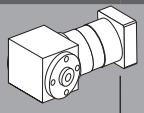


MP MB 160

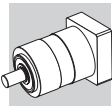
FM



	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

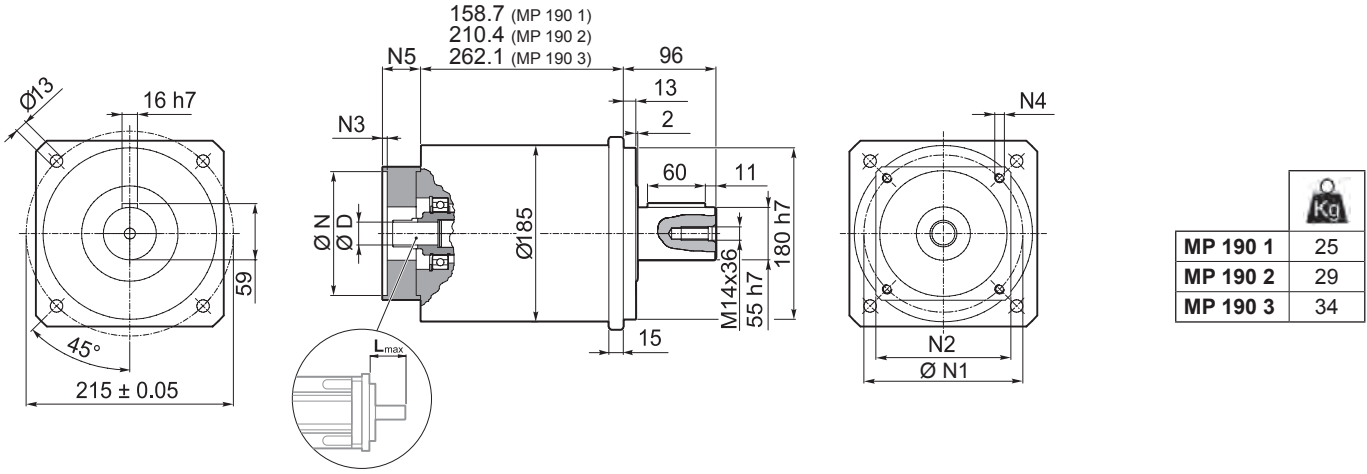
	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_S [arcmin]	φ_R [arcmin]	C_t [Nm/arcmin]	η %	J_G [kgcm ²]			
										14 ... 19	22 - 24	28 - 32	35 - 38
MP MB 160 2_3	350	660	1200	1900	3000	15'	10'	90	94	8.39	8.60	8.95	10.30
MP MB 160 2_4	500	750	1400	2200	3500	15'	10'	90	94	4.68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

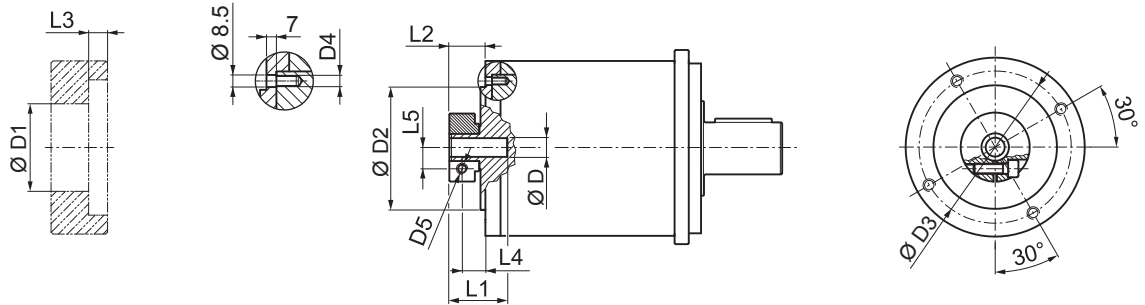
55A1 ... 180A1



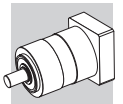
	D												N	N1	N2	N3	N4	N5	Lmax	
55A1	14	16	19	-	-	-	-	-	-	-	-	-	-	55.5	125.7	140	5	M6x15	39.5	50
80A2	14	16	19	-	-	-	-	-	-	-	-	-	-	80	100	140	5	M6x15	39.5	50
95A1	14	16	19	22	24	-	-	-	-	-	-	-	-	95	115	140	5	M8x20	39.5	50
110A1	14	16	19	22	24	-	-	-	-	-	-	-	-	110	130	140	5	M8x20	39.5	50
110B1	14	16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

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

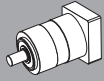
FM



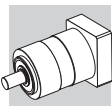
D	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	16	48	130	142.5	M8x14	M6	45.5	27.5	6	14.5
19	16	51	130	142.5	M8x14	M6	45.5	27.5	6	16.5
22	24	56.5	130	142.5	M8x14	M6	47	29	6	19
28	24	67	130	142.5	M8x14	M8	47	29	6	22.5
32	24	71	130	142.5	M8x14	M8	47	29	6	24.5
35	24	73	130	142.5	M8x14	M8	54.5	36.5	6	26
38	24	77.5	130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



MP 190

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

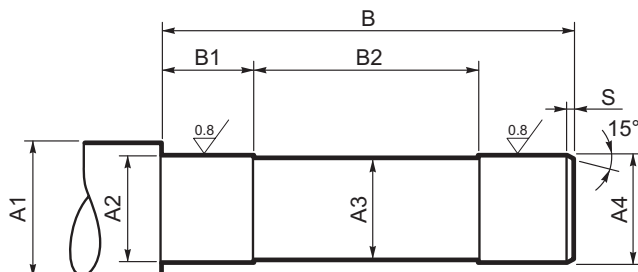



6.3.1 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE

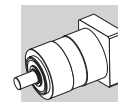
Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Sugeriamo inoltre di completare il montaggio con un dispositivo che garantisca il bloccaggio assiale dell'albero (non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



LC

RIDUTTORE EPICICLOIDALE COASSIALE DI PRECISIONE

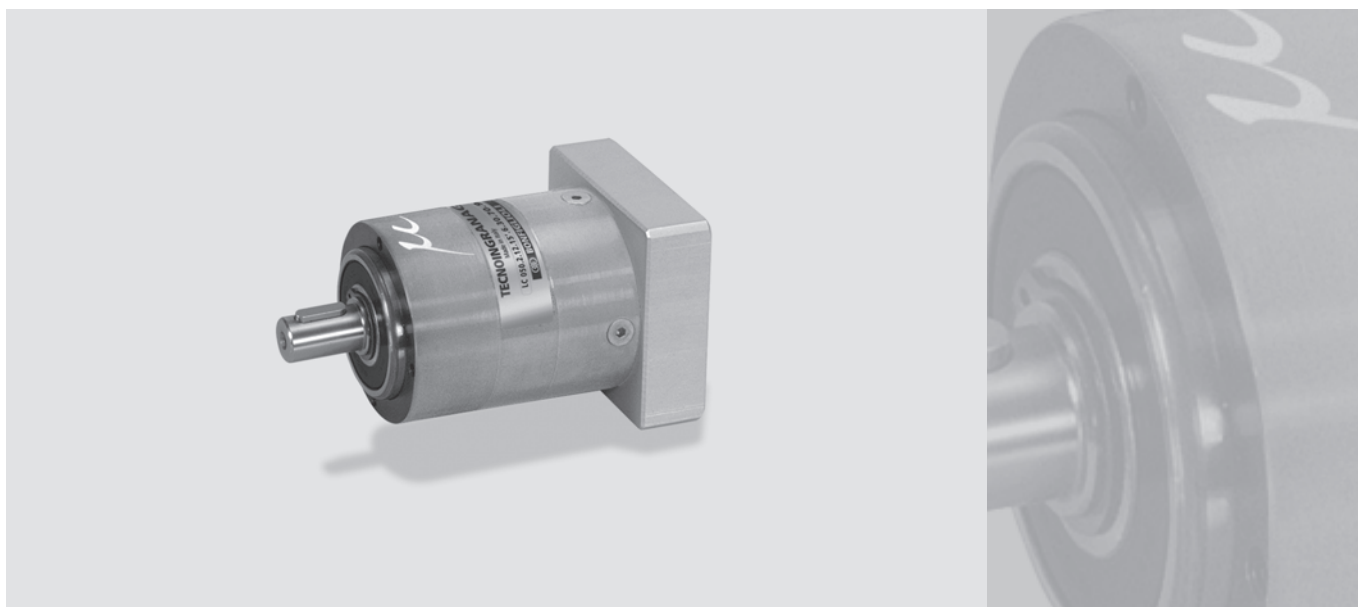
Caratterizzati da prestazioni e affidabilità ottimali, i riduttori epicicloidali di precisione LC rappresentano una soluzione flessibile e un'alternativa economicamente vantaggiosa.

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 masse 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 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

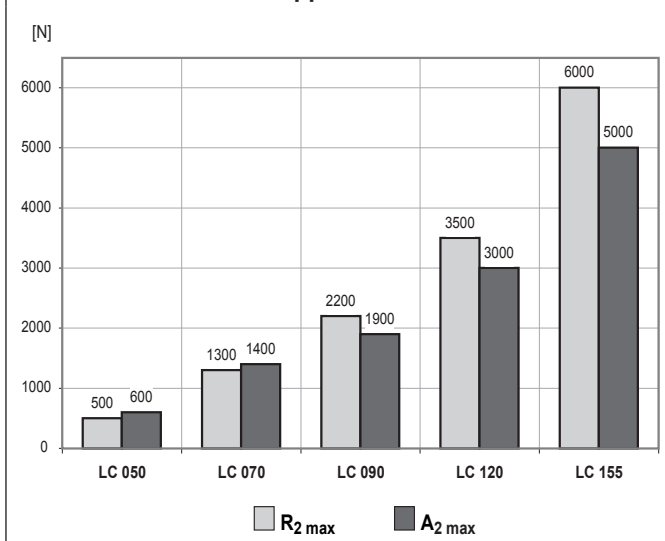
I riduttori epicicloidali a gioco ridotto della serie LC costituiscono una gamma di trasmissioni assai completa in quanto ad estensione di coppie trasmissibili, rapporti e valori di gioco angolare. Tutti i riduttori sono caratterizzati da elevata silenziosità e dimensionati per una lunga vita in servizio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

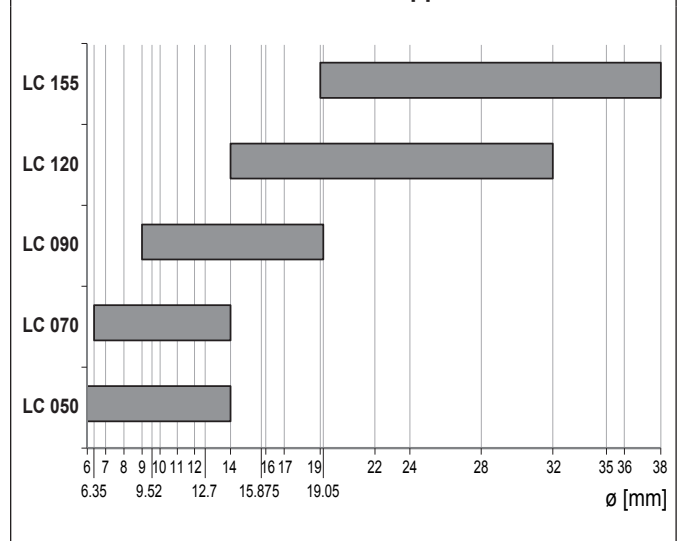
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW)
 - 1 stadio di riduzione: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 6'$
 - 1 stadio di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 8'$
- Ottimo grado di protezione contro la penetrazione di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

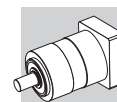
		Distribuzione coppia nominale M_{n2} [Nm]																			
[i]	3	4	5	7	9	10	12	15	16	20	25	28	30	35	36	40	45	50	70	81	100
LC 050	10	12	12	12	10	-	12	12	12	12	12	12	-	12	12	-	12	-	-	10	-
LC 070	18	25	25	25	18	18	25	25	25	25	25	25	18	25	-	25	-	25	25	-	18
LC 070P	29	30	25	25	29	18	29	29	30	30	30	30	29	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

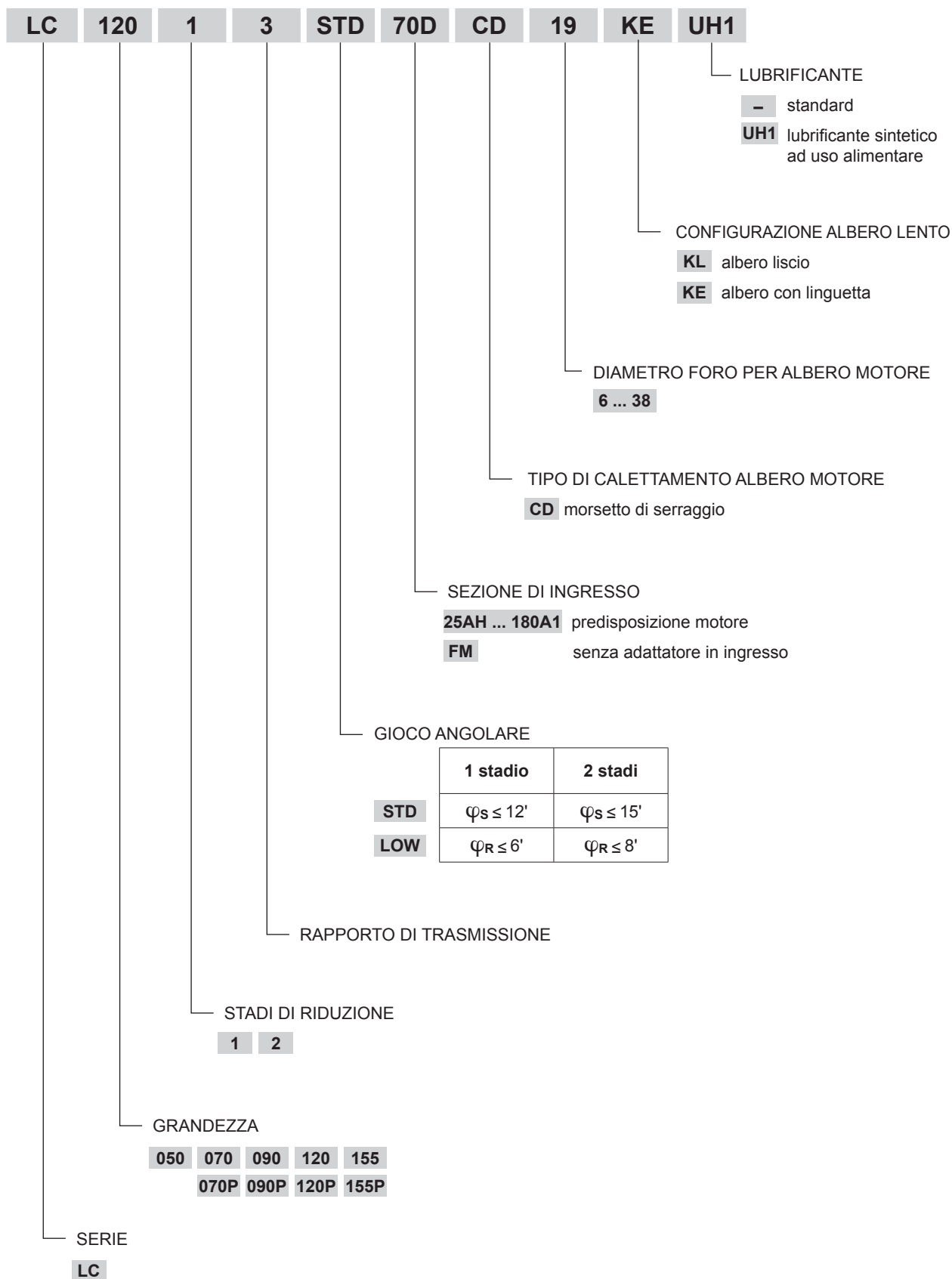


Alberi motore accoppiabili





7.1 CODICE ORDINATIVO



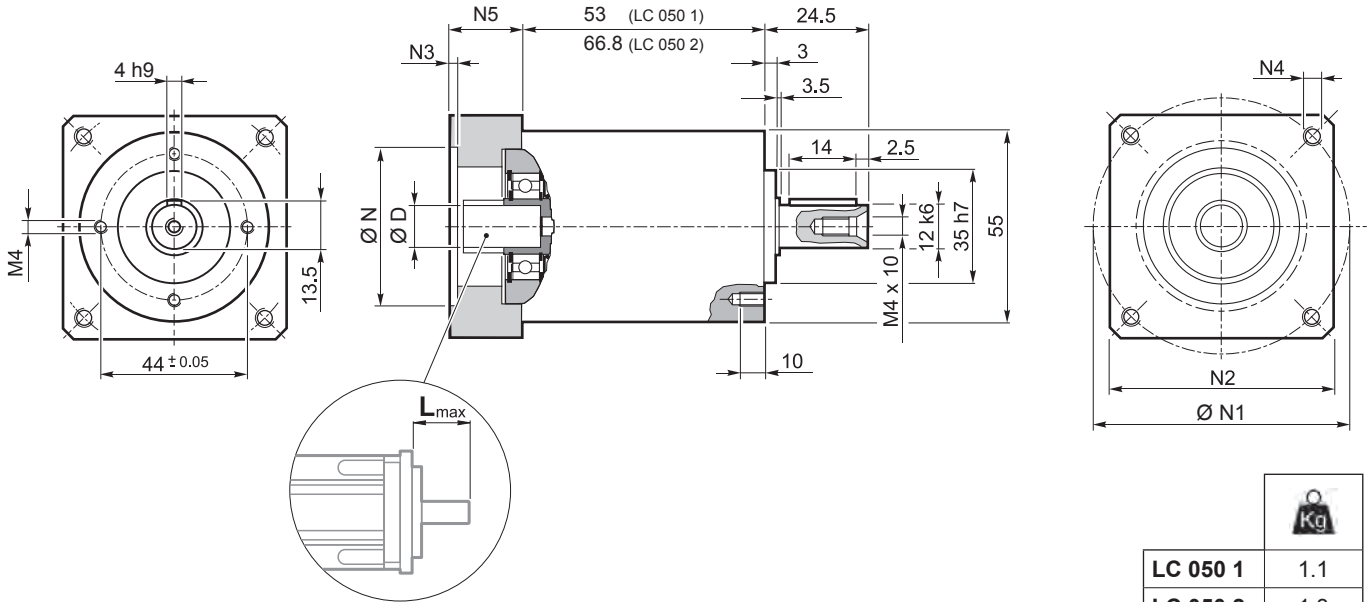
LC



7.2 DIMENSIONI E DATI TECNICI

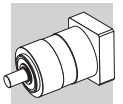
LC 050

25AH ... 80A



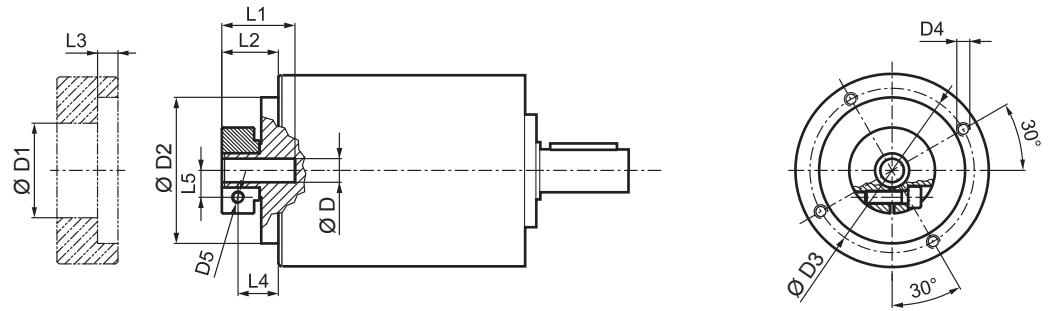
											N	N1		N2	N3	N4	N5	L _{max}	
	D	6	6.35	7	8	9	9.52	10	11	12		12.7	min						max
25AH	6	6.35	7	8	9	9.52	-	-	-	-	-	25	36	48					
26AH	6	6.35	7	8	9	9.52	-	-	-	-	-	26	36	48					
28AH	6	6.35	7	8	9	9.52	-	-	-	-	-	28	36	48					
30AH	6	6.35	7	8	9	9.52	-	-	-	-	-	30	36	48					
32AH	6	6.35	7	8	9	9.52	-	-	-	-	-	32	38	48	55	3.5	4.5	25	25
34AH	6	6.35	7	8	9	9.52	-	-	-	-	-	34	40	48					
36AH	6	6.35	7	8	9	9.52	-	-	-	-	-	36	42	48					
38AH	6	6.35	7	8	9	9.52	-	-	-	-	-	38	44	48					
40AH	6	6.35	7	8	9	9.52	-	-	-	-	-	40	46	48					
38B	6	6.35	7	8	9	9.52	10	11	12	12.7	-	38.1	66.6	60	3	M4x10	18	25	
40B	6	6.35	7	8	9	9.52	10	11	12	12.7	-	40	63	60	3	M4x10	18	25	
50A	6	6.35	7	8	9	9.52	10	11	12	12.7	-	50	60	60	3	M4x10	18	25	
50B	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	65	60	3	M5x12	23	30	
50BH	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	65	60	4	5.5	23	30	
50C	6	6.35	7	8	9	9.52	10	11	12	12.7	14	50	70	60	3	M4x10	23	30	
50MH	6	6.35	7	8	9	9.52	10	11	12	12.7	-	50	65	55	4	5.5	16	23	
60A	6	6.35	7	8	9	9.52	10	11	12	12.7	-	60	75	63	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	63	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

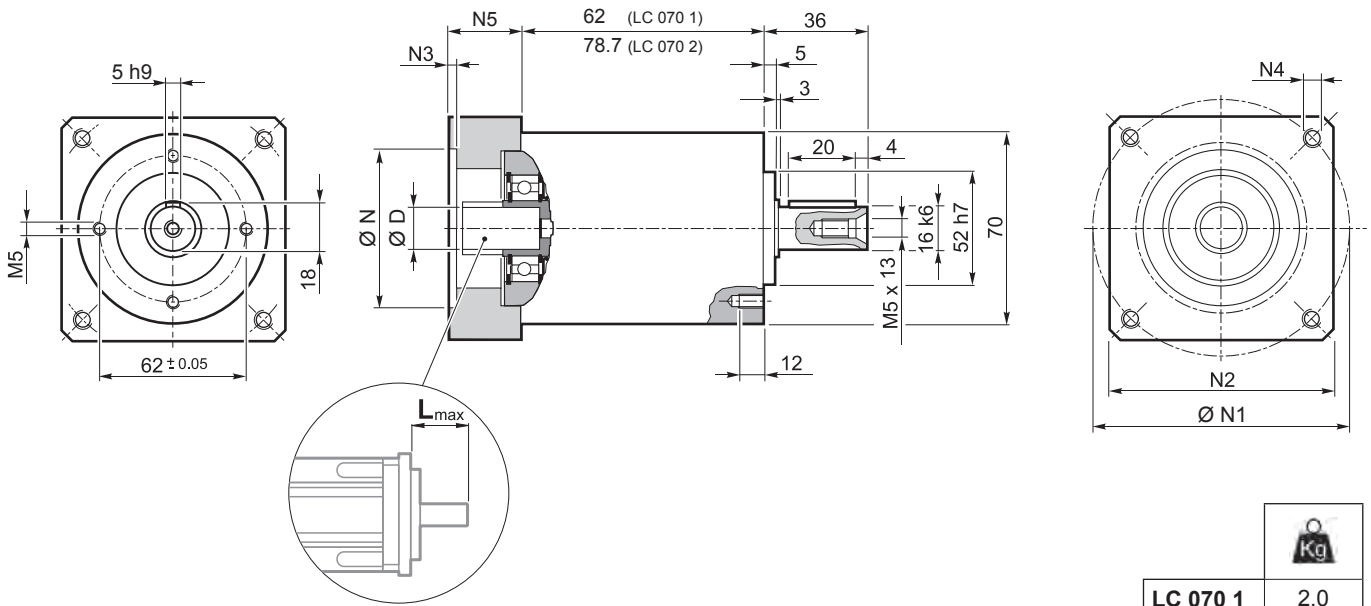
	i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	ψ _S [arcmin]	ψ _R [arcmin]	C _t [Nm/arcmin]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]	
													D	
LC 050 1_3		10	16	28	3300	4000	12'	6'	0.9	500	600	97	0.07	0.10
LC 050 1_4		12	20	30	3500	5000	12'	6'	0.9	500	600	97	0.06	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

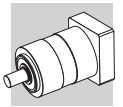
25AH ... 80A



LC 070 1	2.0
LC 070 2	2.3

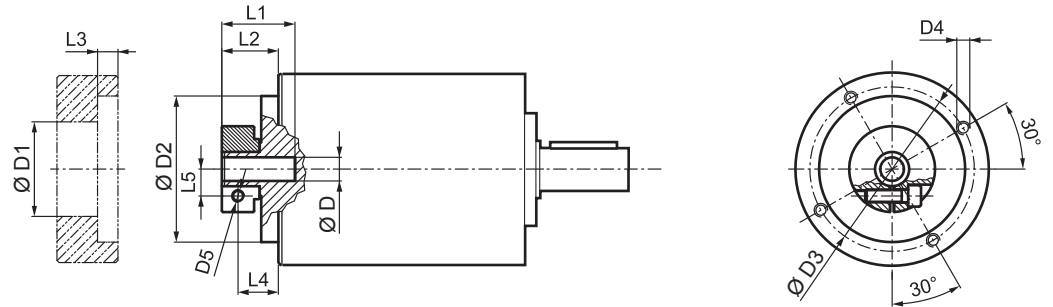
											N	N1		N2	N3	N4	N5	L _{max}
												min	max					
25AH	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56	65	3.5	4.5	25	25
26AH	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56					
34AH	6.35	7	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	63	3	M5x12	18	25	
60A1	6.35	7	8	9	9.52	10	11	12	12.7	14	60	75	63	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

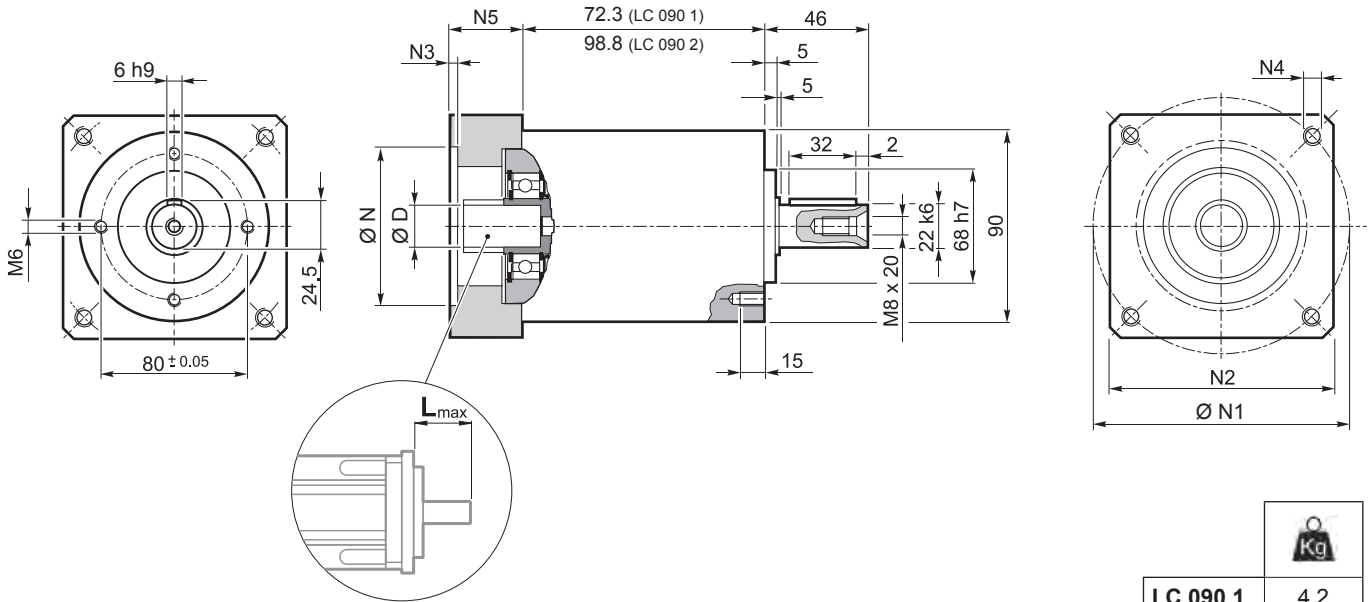
	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%		6.35 ... 9.52
LC 070 1_3		18	30	60	3300	4000	12'	6'	3	1300	1400	97	0.12	0.14
LC 070 1_4		25	35	70	3500	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

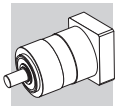
40B1 ... 110B1



LC 090 1	4.2
LC 090 2	5.3

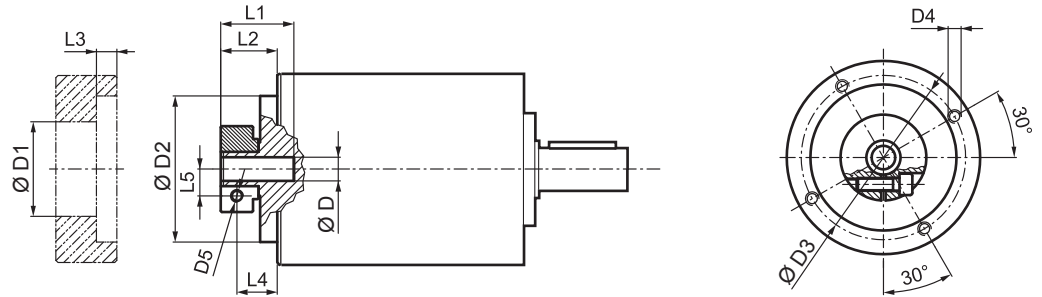
												N	N1	N2	N3	N4	N5	L _{max}
	D																	
40B1	9	9.52	11	12	12.7	14	-	-	-	-	-	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	-	-	-	-	-	-	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	5.5	34	40
50C1	9	9.52	11	12	12.7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

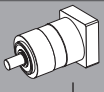



LC 090

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

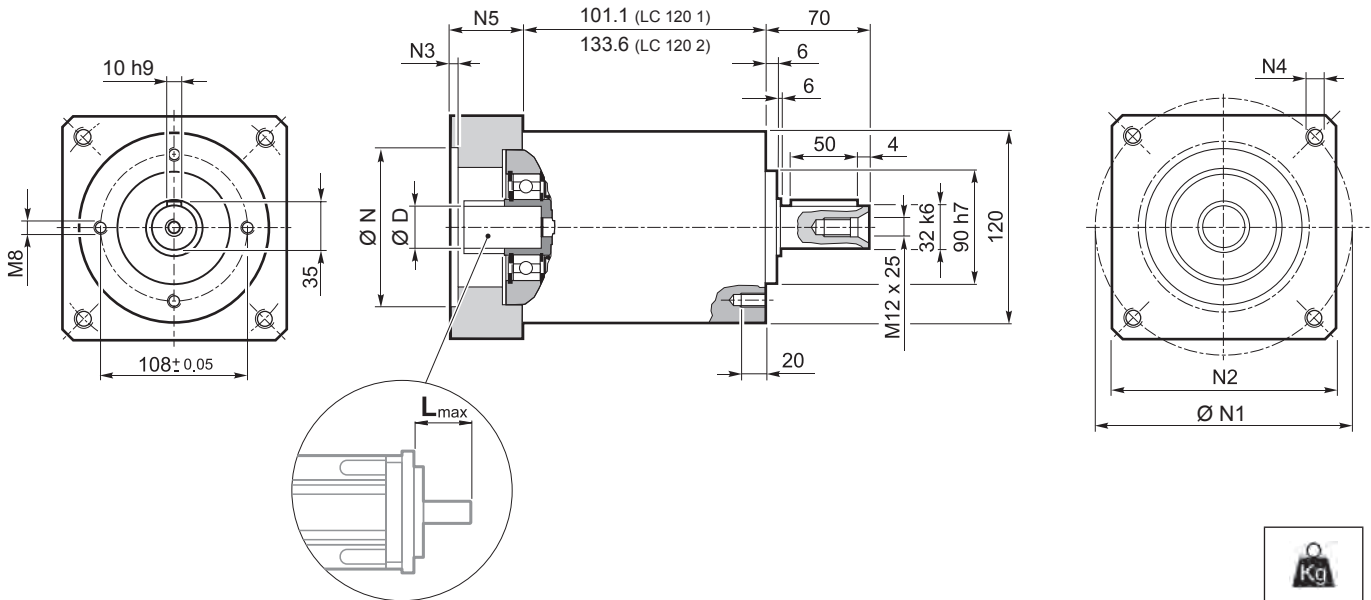
	i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _S [arcmin]	φ _R [arcmin]	C _t [Nm/arcmin]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]	
														9 ... 12.7
LC 090 1_3		37	70	150	2900	3500	12'	6'	9	2200	1900	97	0.62	0.77
LC 090 1_4		43	80	160	3100	4500	12'	6'	9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

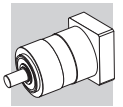
50D ... 130A1



LC 120 1	9.6
LC 120 2	12.1

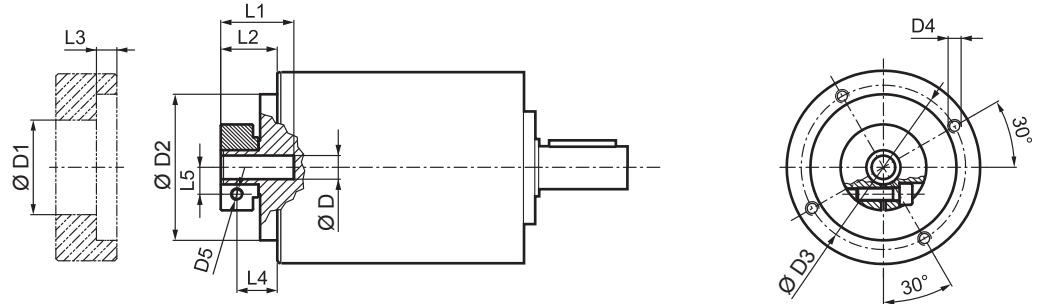
										N	N1	N2	N3	N4	N5	L _{max}
	14	15	15.875	16	19	-	-	-	-							
50D	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	14	15	15.875	16	19	-	-	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	M5x14	28	40
60AH2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	6.5	33	40
60B1	14	15	15.875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

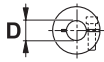
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.




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

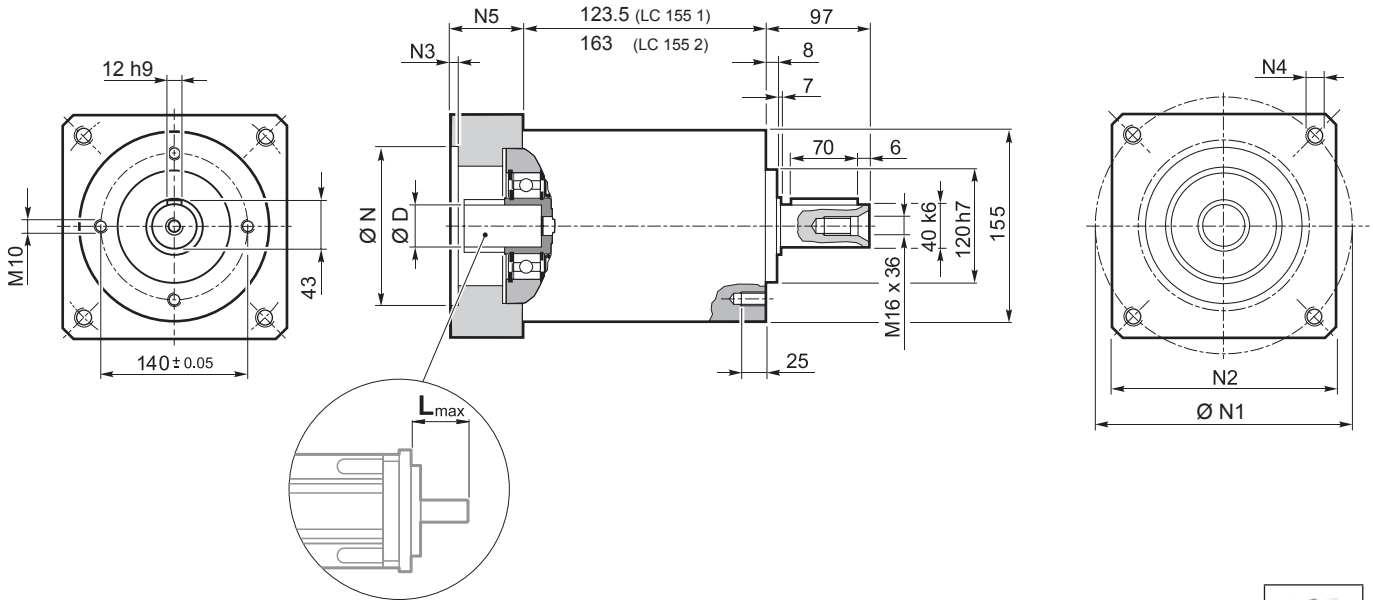
	i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _S [arcmin]	φ _R [arcmin]	C _t [Nm/arcmin]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]		
															
LC 120 1_3		95	160	300	2500	3500	12'	6'	25	3500	3000	97	14 ... 19	22 ; 24	28 ; 32
LC 120 1_4		110	190	360	2800	4500	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

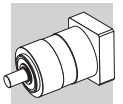


LC 155 1	19.3
LC 155 2	24.3

LC

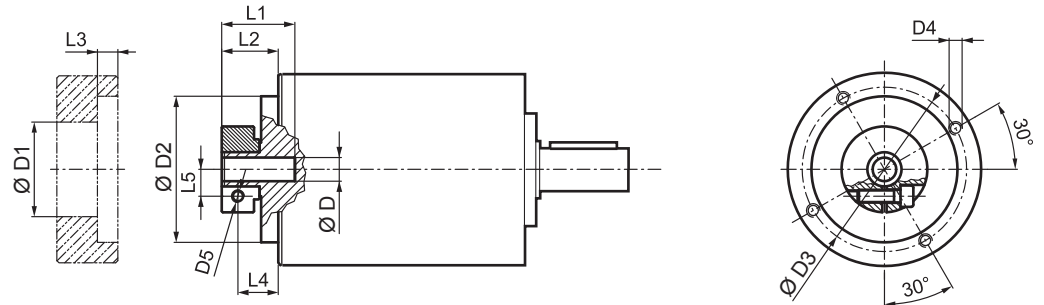
									N	N1	N2	N3	N4	N5	L _{max}
55A1	19	-	-	-	-	-	-	55.5	125.7	130	4	M6x15	39.5	50	
80A2	19	-	-	-	-	-	-	80	100	130	4	M6x15	39.5	50	
95A1	19	22	24	-	-	-	-	95	115	130	4	M8x20	39.5	50	
110A1	19	22	24	-	-	-	-	110	130	130	4	M8x20	39.5	50	
110B1	19	22	24	-	-	-	-	110	145	130	6.5	M8x20	49.5	60	
114A	19	22	24	28	32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

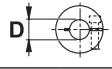
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

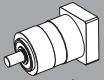



LC 155

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

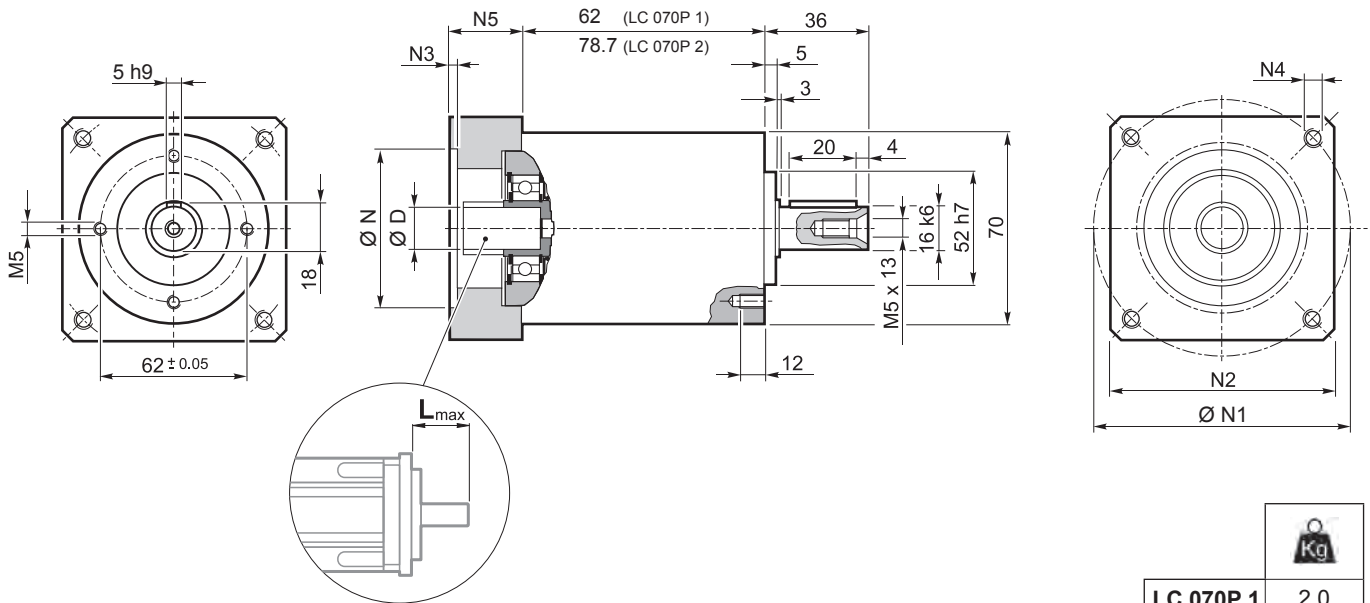
	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _S [arcmin]	φ _R [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]			
													19	22 ; 24	28 ; 32
LC 155 1 _3	250	380	600	2100	3600	12'	6'	43	6000	5000	97	7.99	8.19	8.54	9.90
LC 155 1 _4	300	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

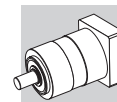
25AH ... 80A



LC 070P 1	2.0
LC 070P 2	2.3

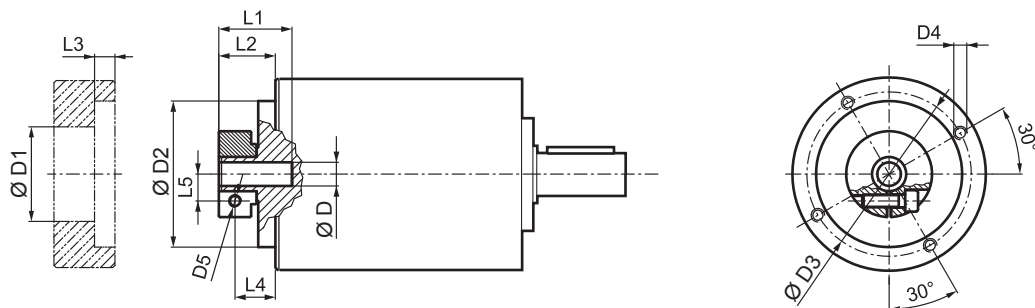
	D										N	N1		N2	N3	N4	N5	L _{max}
												min	max					
																		
25AH	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56					
26AH	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56					
28AH	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56					
30AH	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56					
32AH	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56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

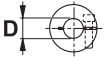
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

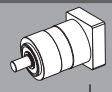
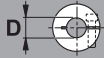


LC 070P

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

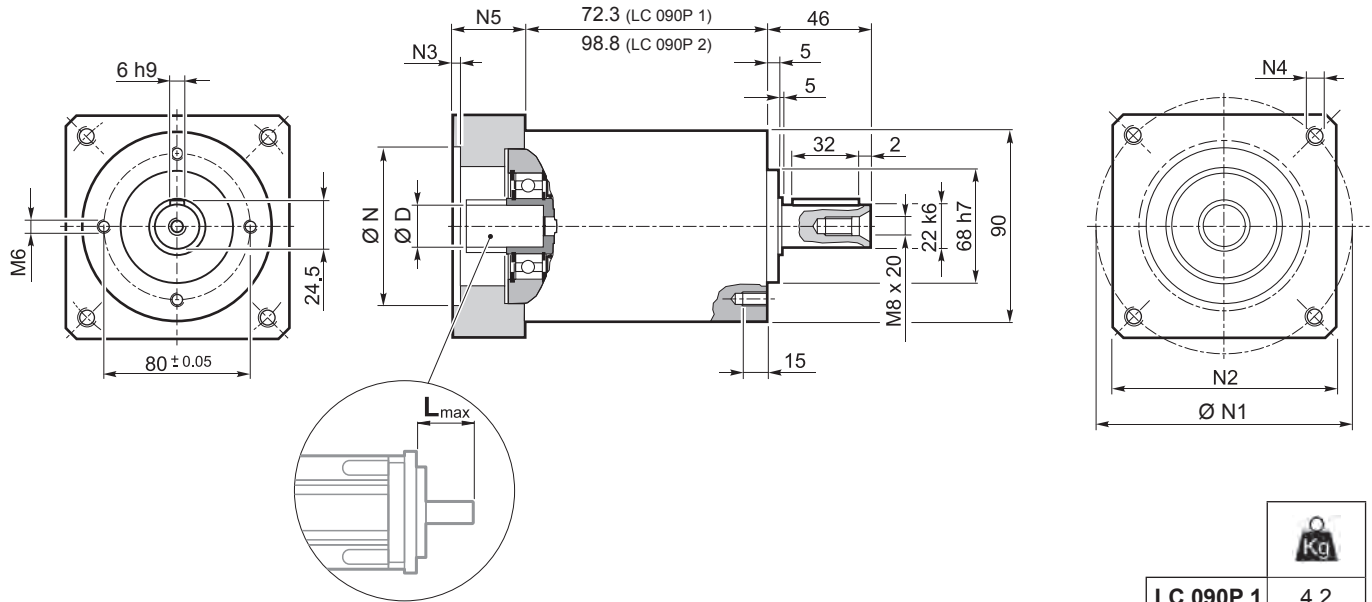
	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]		$\left[\frac{\text{Nm}}{\text{arcmin}} \right]$	[N]	[N]	%	 6 ... 9.52	11 ... 14
LC 070P 1_3		29	55	60	3300	4000	12'	6'	3	1300	1400	97	0.12	0.14
LC 070P 1_4		30	45	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


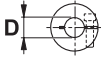


LC 090P

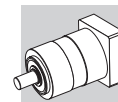
40B1 ... 110B1



LC 090P 1	4.2
LC 090P 2	5.3

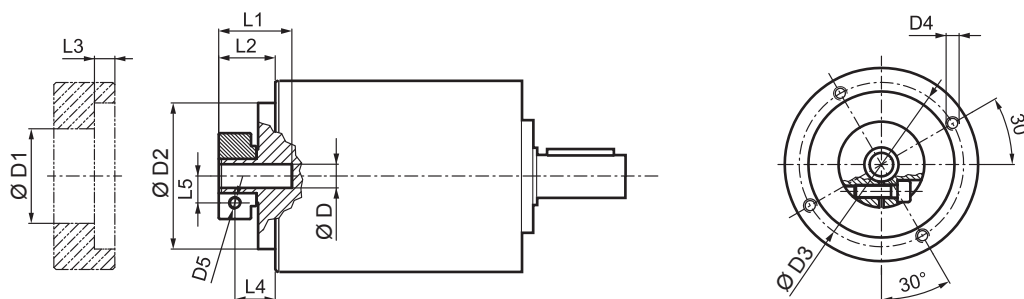
												N	N1	N2	N3	N4	N5	L _{max}
	D																	
40B1	9	9.52	11	12	12.7	14	-	-	-	-	-	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	-	-	-	-	-	-	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	5.5	34	40
50C1	9	9.52	11	12	12.7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

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

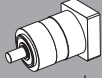


LC 090P

FM



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

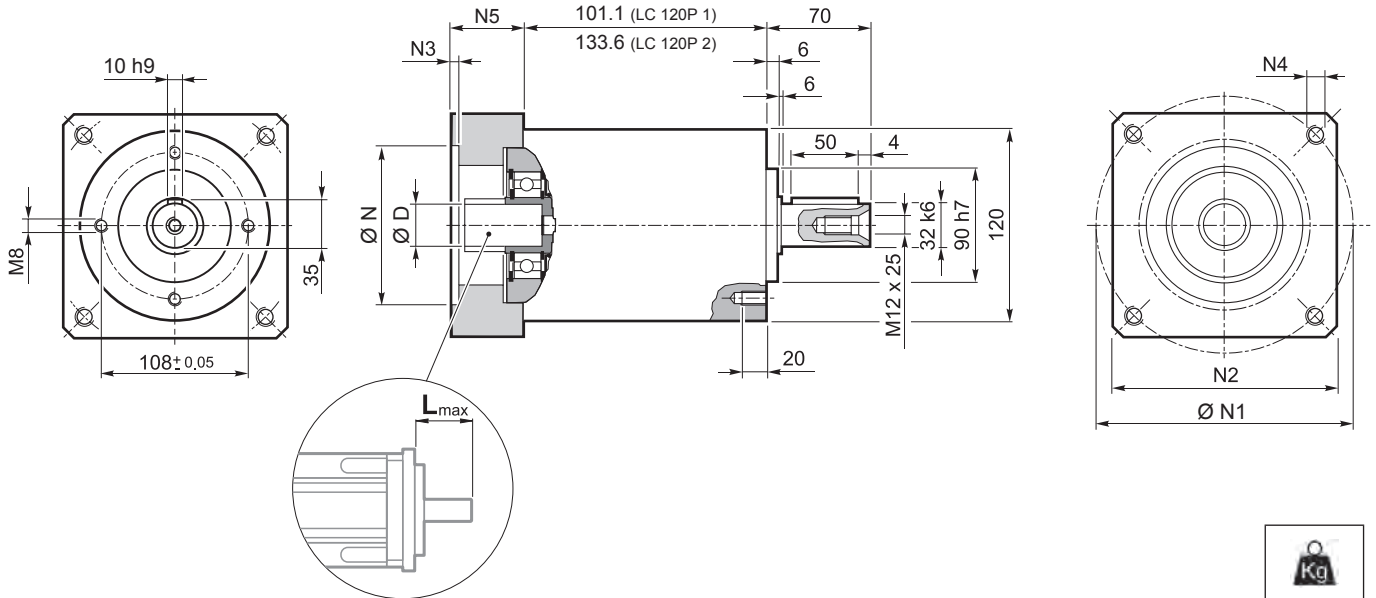
 i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	%	8 ... 12.7	14 ... 19
LC 090P 1_3	65	120	150	3500	4000	12'	6'	12	2200	1900	97	0.62	0.77
LC 090P 1_4	60	110	160	3500	4000	12'	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	3500	15'	8'	12	2200	1900	94	0.47	0.61
LC 090P 2_12	65	120	160	3500	3500	15'	8'	12	2200	1900	94	0.44	0.58
LC 090P 2_15	65	120	160	3500	3500	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

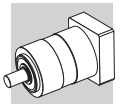
50D ... 130A1



LC 120P 1	9.6
LC 120P 2	12.1

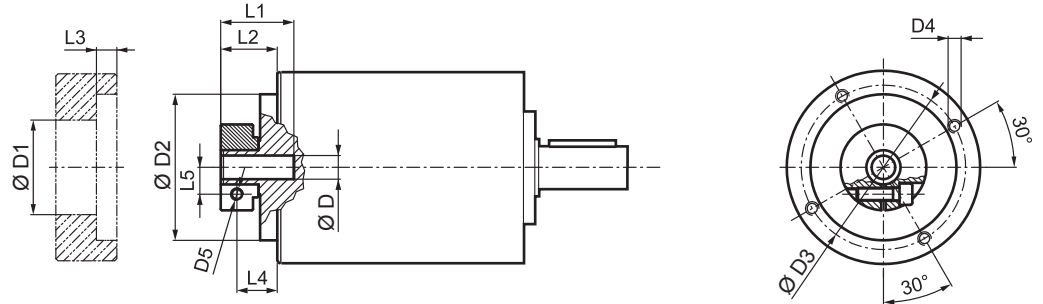
										N	N1	N2	N3	N4	N5	L _{max}
	14	15	15.875	16	19	-	-	-	-							
50D	14	15	15.875	16	19	-	-	-	-	50	95	100	5	M6x14	28	40
55A	14	15	15.875	16	19	-	-	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	M5x14	28	40
60AH2	14	15	15.875	16	19	-	-	-	-	60	75	100	5	6.5	33	40
60B1	14	15	15.875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

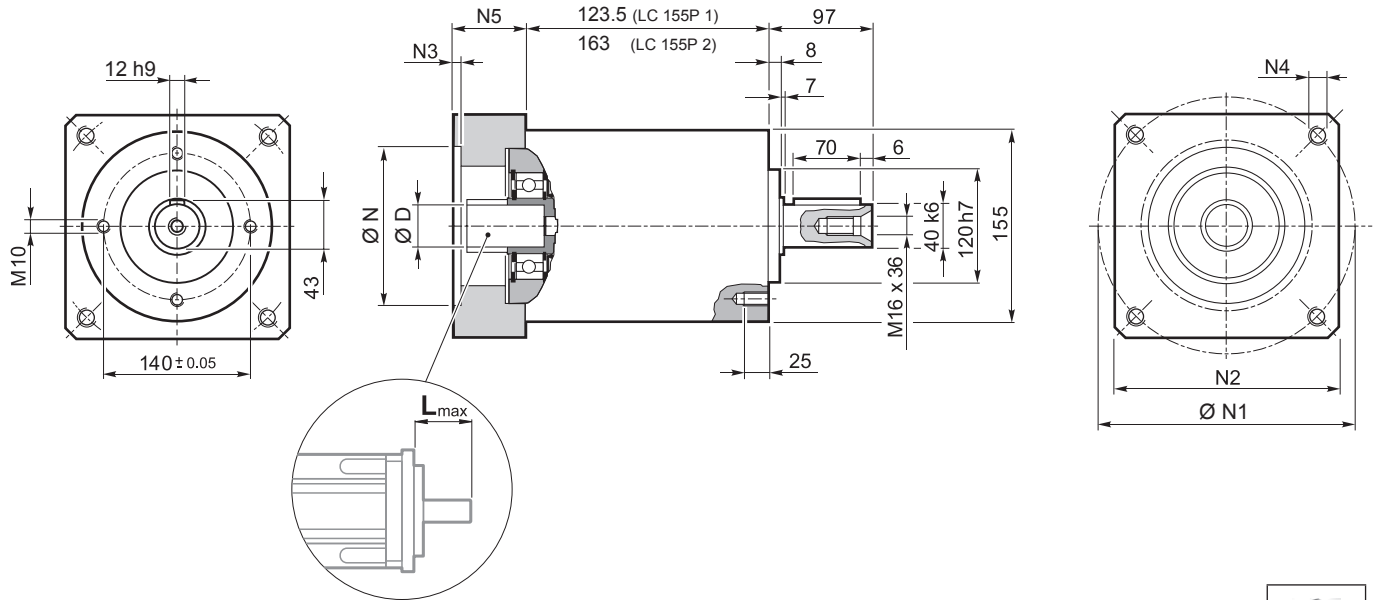
	i	M _{n2}	M _{a2}	M _{p2}	n ₁	n _{1 max}	φ _S	φ _R	C _t	R _{2 max}	A _{2 max}	η	J _e [kgcm ²]		
		[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	%		14 ... 19	22 ; 24
LC 120P 1_3		155	280	300	3000	4000	12'	6'	30	3500	3000	97	2.17	2.77	3.13
LC 120P 1_4		155	300	360	3000	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

55A1 ... 180A1

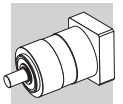


LC 155P 1	19.3
LC 155P 2	24.3

LC

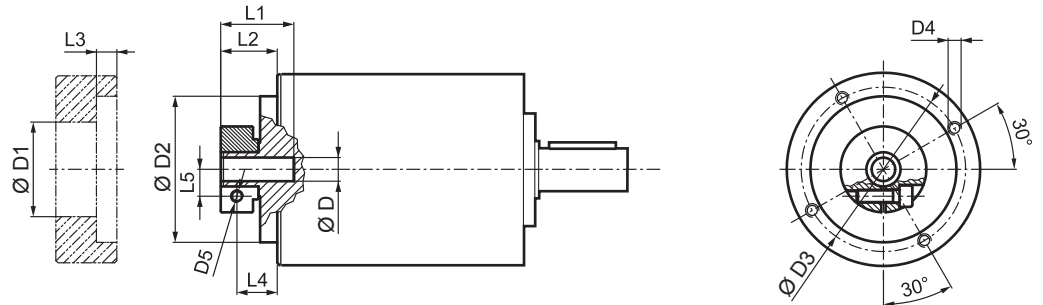
								N	N1	N2	N3	N4	N5	L _{max}
55A1	19	-	-	-	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	19	-	-	-	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	19	22	24	-	-	-	-	95	115	130	4	M8x20	39.5	50
110A1	19	22	24	-	-	-	-	110	130	130	4	M8x20	39.5	50
110B1	19	22	24	-	-	-	-	110	145	130	6.5	M8x20	49.5	60
114A	19	22	24	28	32	35	38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

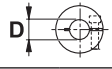
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

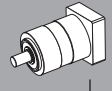



LC 155P

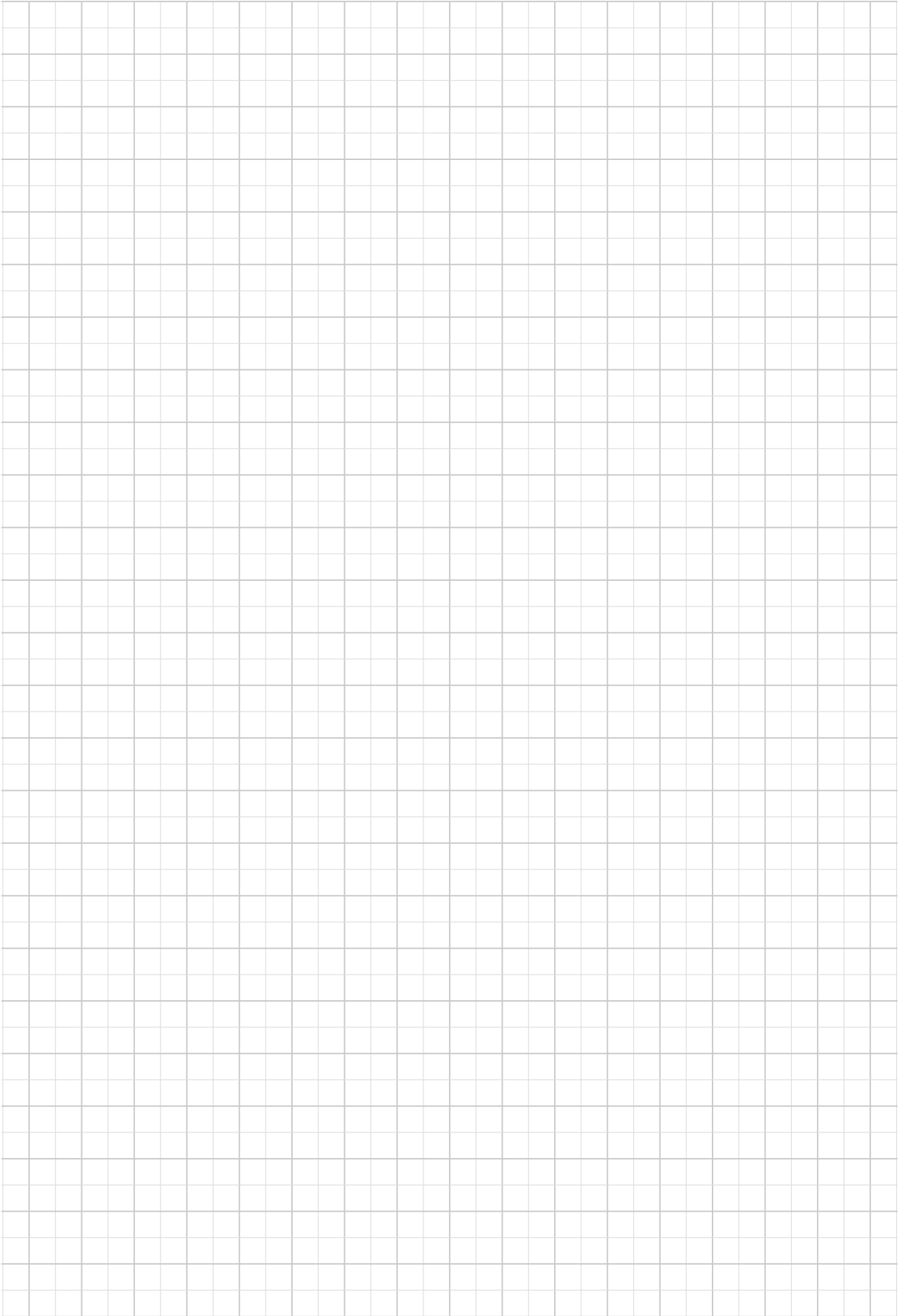
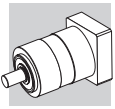
FM



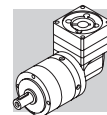
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
19	51	113	125.5	M8x15	M6	40	27.5	6	20	16.5
22 24	56.5	113	125.5	M8x15	M6	41	28.5	6	19.5	19
28	67	113	125.5	M8x15	M8	41	28.5	6	19.5	22.5
32	71	113	125.5	M8x15	M8	41	28.5	6	18.5	24.5
35	73	113	125.5	M8x15	M8	50	37.5	11.25	26	26
38	77.5	113	125.5	M8x15	M8	50	37.5	11.25	26	28

	M _{n 2} [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 [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]			
													19	22 ; 24	28 ; 32
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

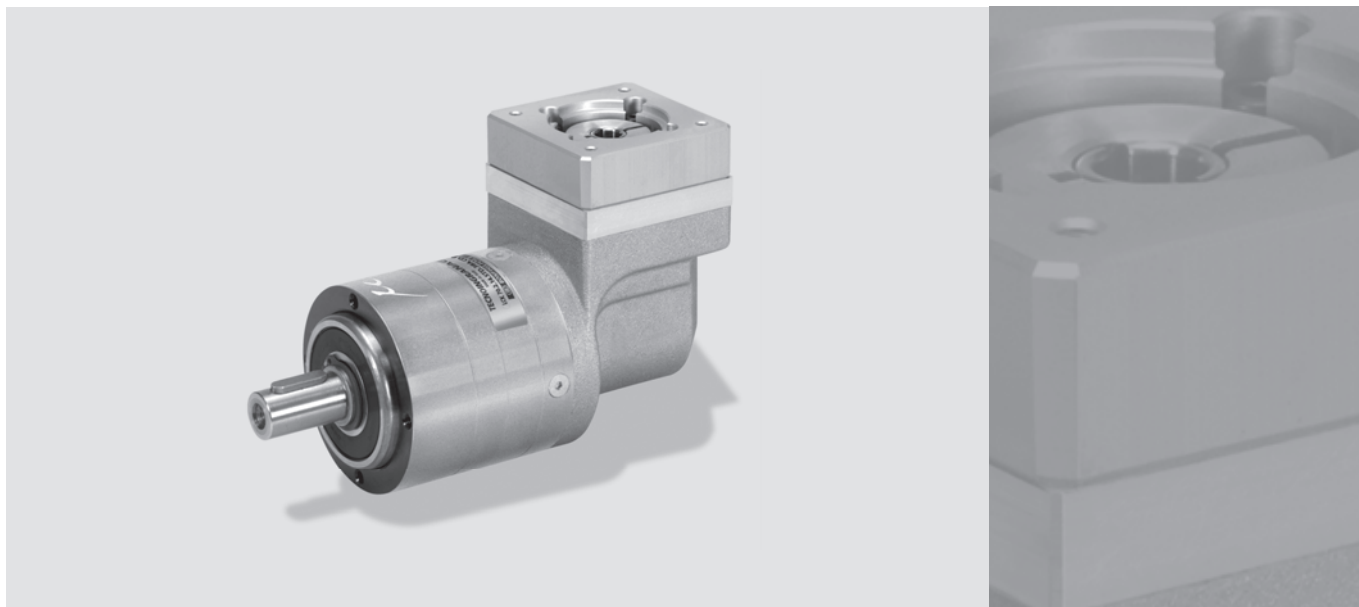
RIDUTTORE EPICICLOIDALE ORTOGONALE DI PRECISIONE

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.

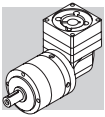
Coppia trasmissibile è stata aumentata fino a 40%.



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



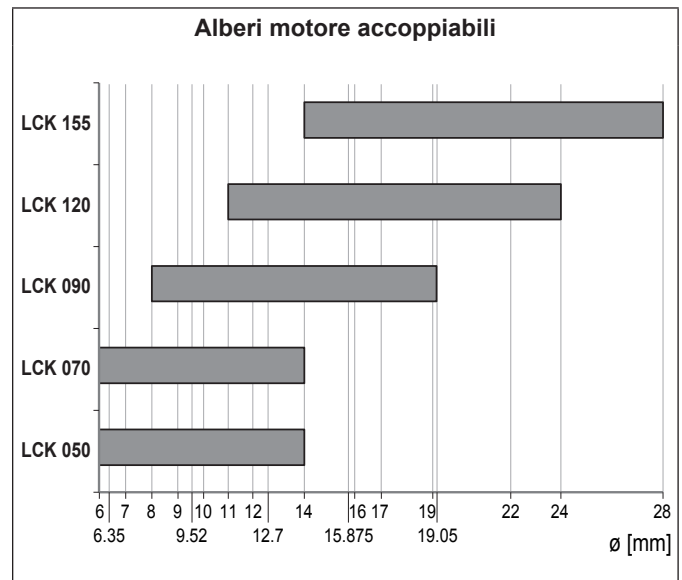
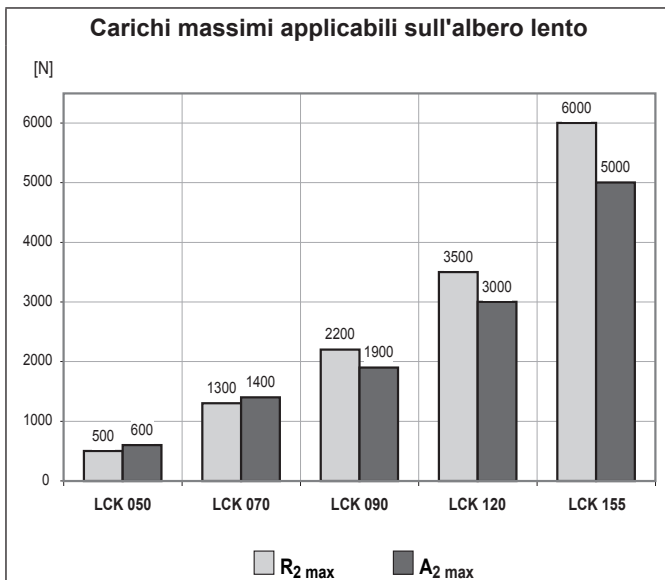
8 CARATTERISTICHE DELLA SERIE LCK

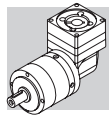
I riduttori della serie LCK trasferiscono nella configurazione angolare le brillanti caratteristiche funzionali che sono proprie della serie coassiale LC, ed a questa aggiungono doti di più facile alloggiamento in spazi ristretti.

- 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.

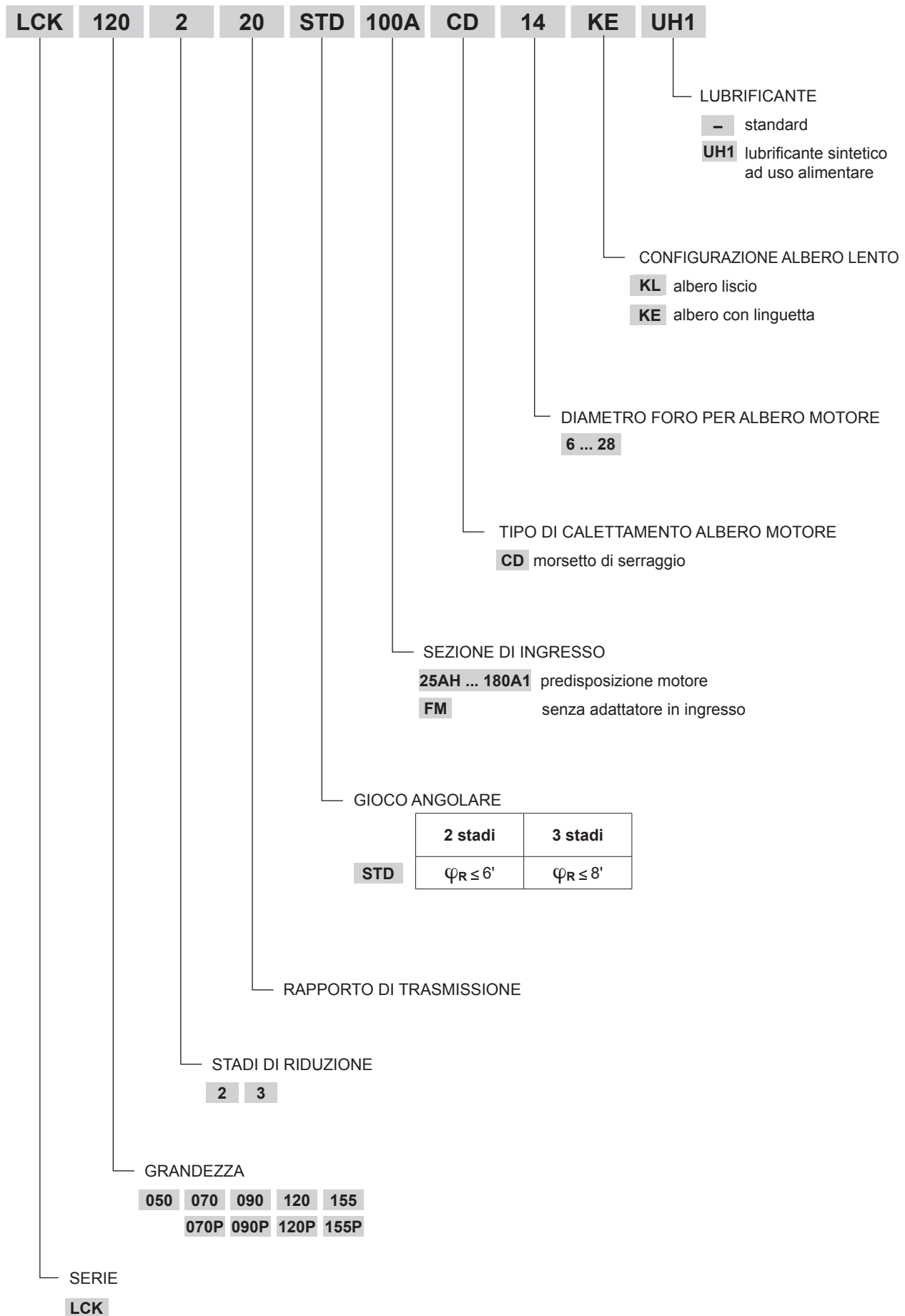
[i]	Distribuzione coppia nominale M_{n2} [Nm]											
	6	8	10	14	20	24	30	50	70	80	90	100
LCK 050	10	12	12	12	-	12	12	12	12	-	12	-
LCK 070	18	25	25	25	18	25	25	25	25	25	-	25
LCK 070P	25	30	25	25	18	29	29	30	30	30	-	30
LCK 090	37	43	43	43	37	43	43	43	43	43	-	43
LCK 090P	45	60	50	50	40	60	60	50	50	60	-	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

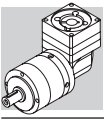
LCK





8.1 CODICE ORDINATIVO

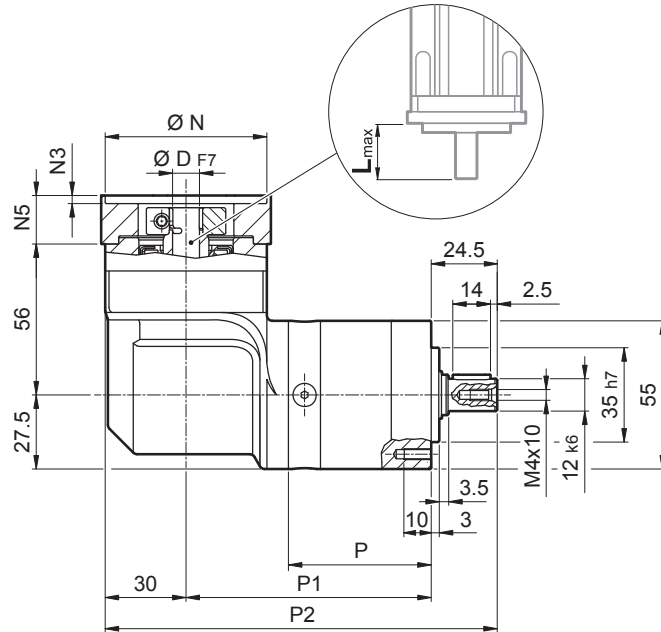
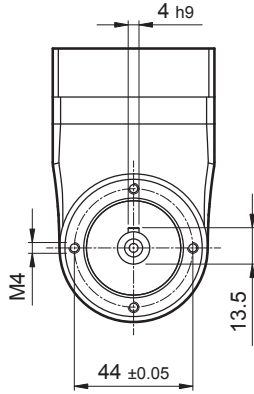




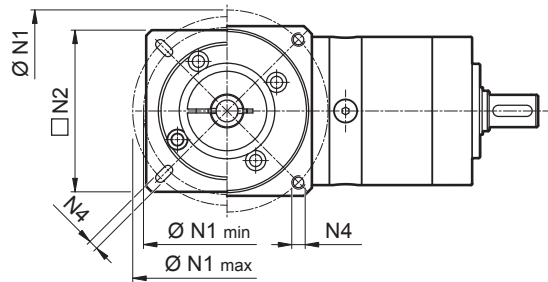
8.2 DIMENSIONI E DATI TECNICI

LCK 050

25AH ... 80A



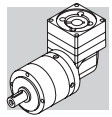
	P	P1	P2	kg
LCK 050 2	53	91	145.5	1.6
LCK 050 3	66.8	104.8	159.3	1.8



	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	63	3	M5x12	18	25	
60A1	6	6.35	7	8	9	9.52	10	11	12	12.7	14	60	75	63	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	

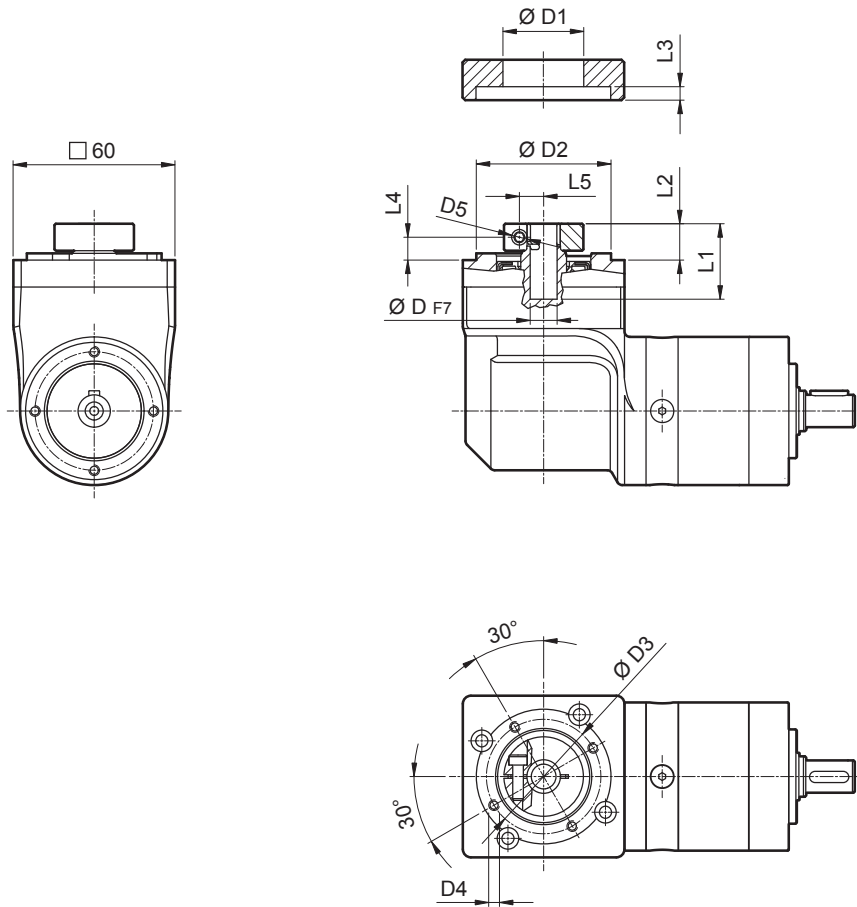
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK



LCK 050

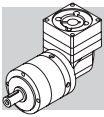
FM



	D		D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6	6.35	7	32.5	50	42.5	M4x8	M4	28	13.5	3	8.5	8
8	9	9.52	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

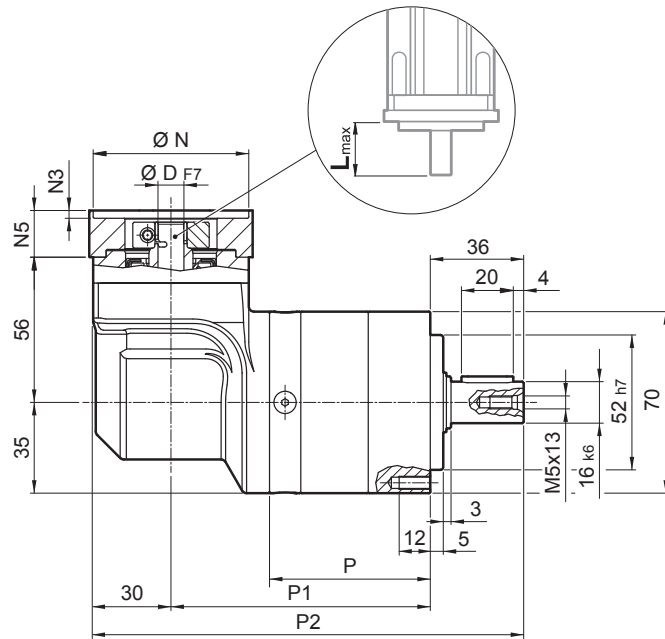
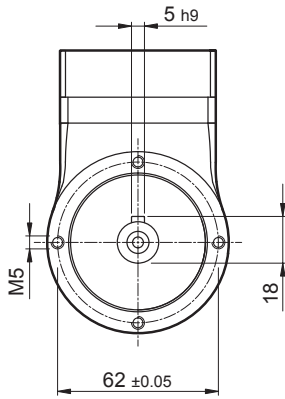
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	ψ _s	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	%	6 ... 9.52	10 ... 14
LCK 050 2_6	10	16	28	2500	5000	6'	0.9	500	600	94	0.23	0.25
LCK 050 2_8	12	20	30	2500	5000	6'	0.9	500	600	94	0.23	0.24
LCK 050 2_10	12	20	30	2500	5000	6'	0.9	500	600	94	0.23	0.24
LCK 050 2_14	12	20	30	2500	5000	6'	0.9	500	600	94	0.23	0.24
LCK 050 3_24	12	20	30	2500	5000	8'	0.7	500	600	91	0.23	0.25
LCK 050 3_30	12	20	30	2500	5000	8'	0.7	500	600	91	0.23	0.25
LCK 050 3_50	12	20	30	2500	5000	8'	0.7	500	600	91	0.23	0.24
LCK 050 3_70	12	20	30	2500	5000	8'	0.7	500	600	91	0.23	0.24
LCK 050 3_90	12	20	30	2500	5000	8'	0.7	500	600	91	0.22	0.24

LCK

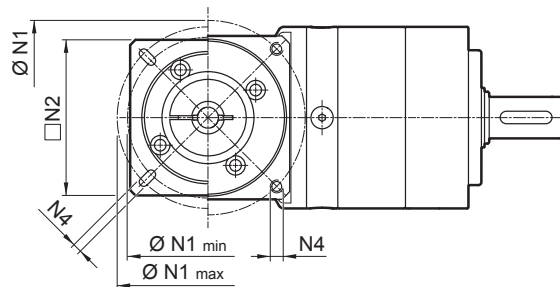


LCK 070

25AH ... 80A



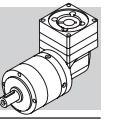
	P	P1	P2	kg
LCK 070 2	62	100	166	2.7
LCK 070 3	78.7	116.7	182.7	3.0



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

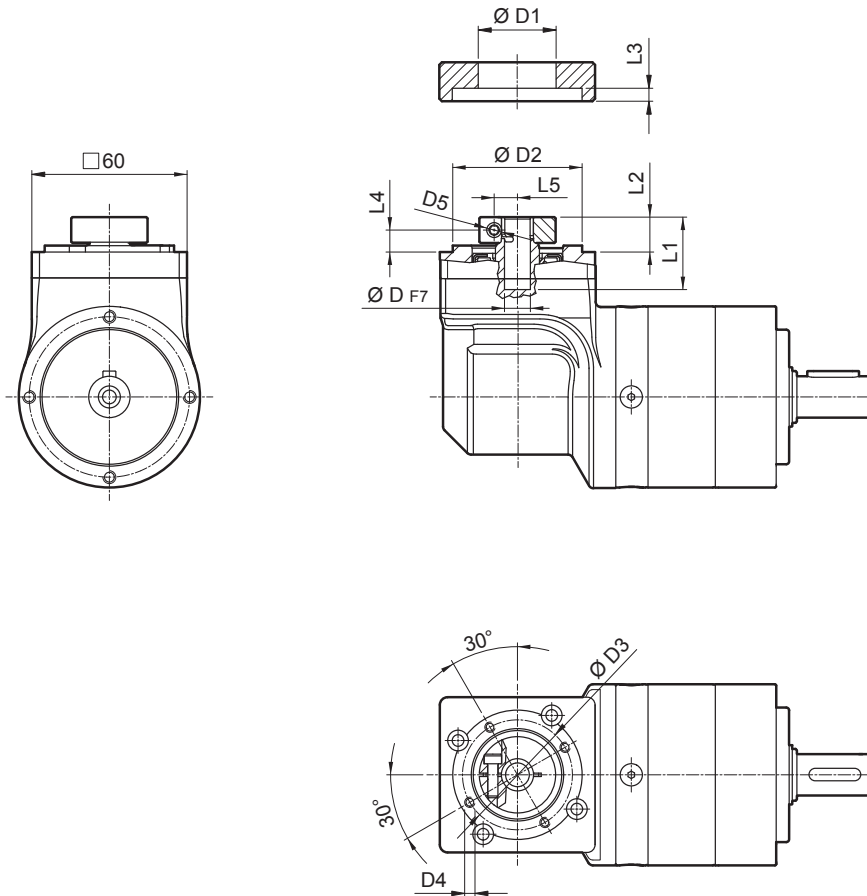
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK



LCK 070

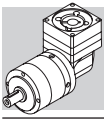
FM



D	D			D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
	6	8	11										
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

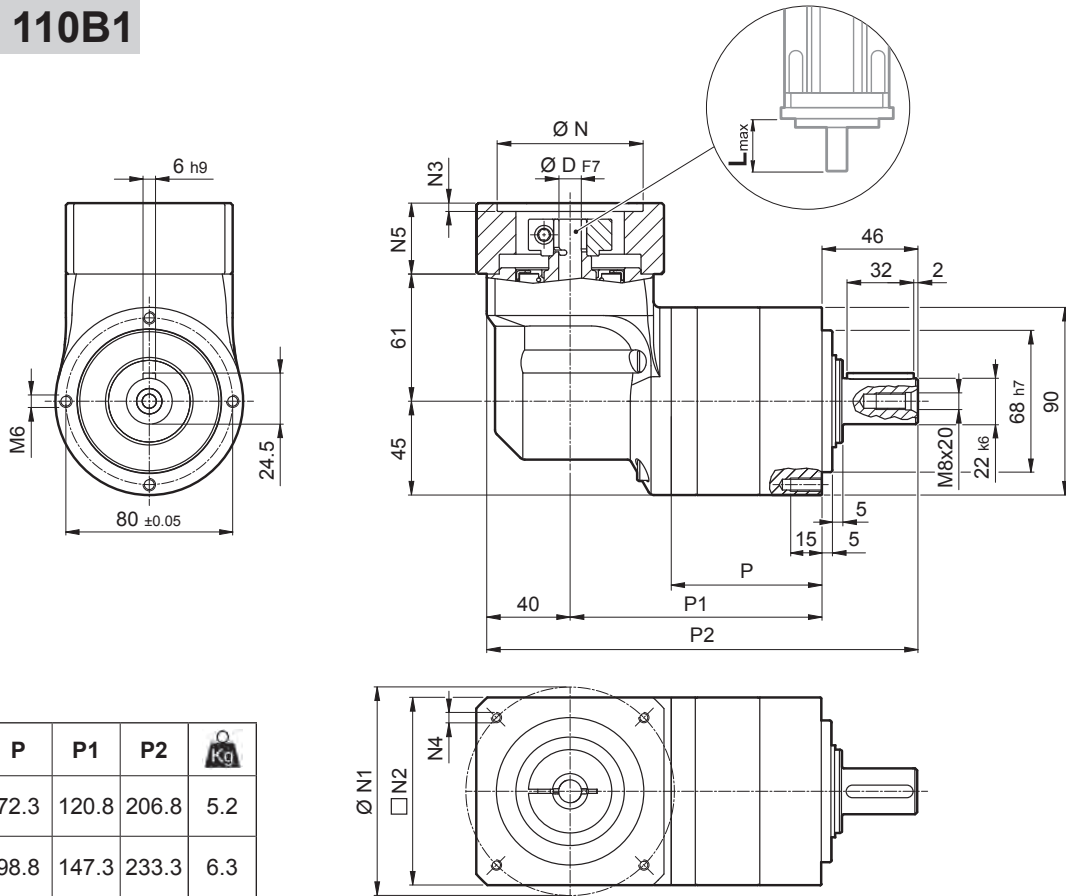
i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _s [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]	
											6 ... 9.52	10 ... 14
LCK 070 2_6	18	30	45	2500	5000	6'	2.8	1300	1400	94	0.25	0.26
LCK 070 2_8	25	35	60	2500	5000	6'	2.8	1300	1400	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

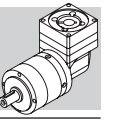


	P	P1	P2	Kg
LCK 090 2	72.3	120.8	206.8	5.2
LCK 090 3	98.8	147.3	233.3	6.3

LCK

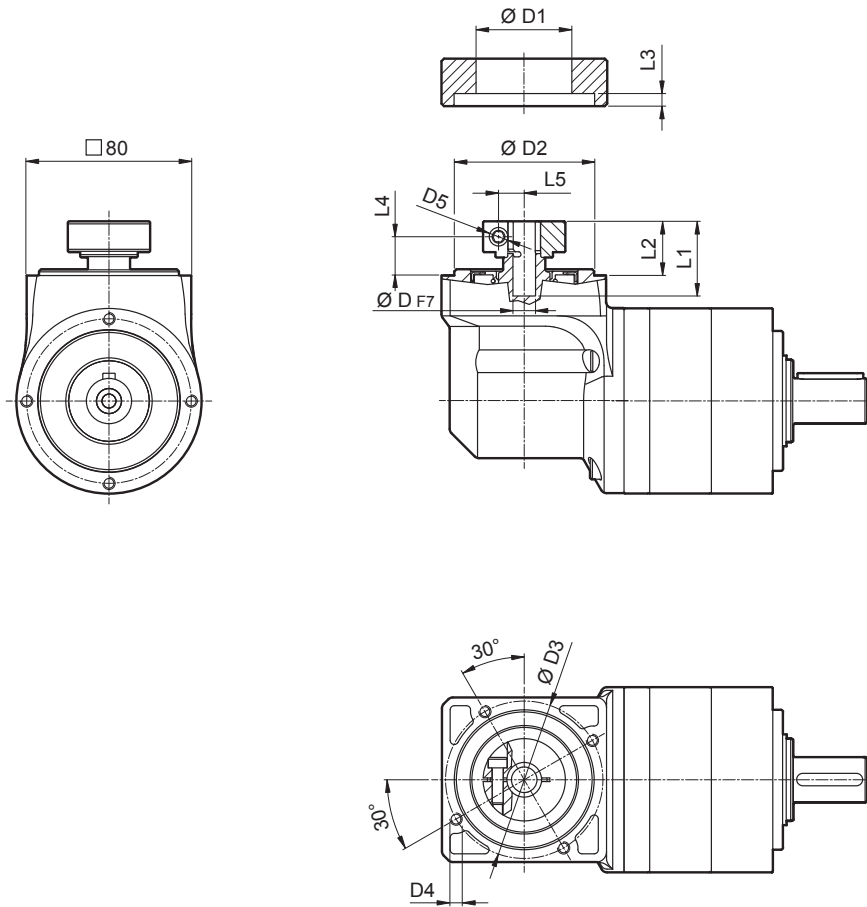
											N	N1	N2	N3	N4	N5	L _{max}		
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x10	34	40	
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x10	34	40	
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40	
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40	
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-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

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



LCK 090

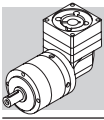
FM



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

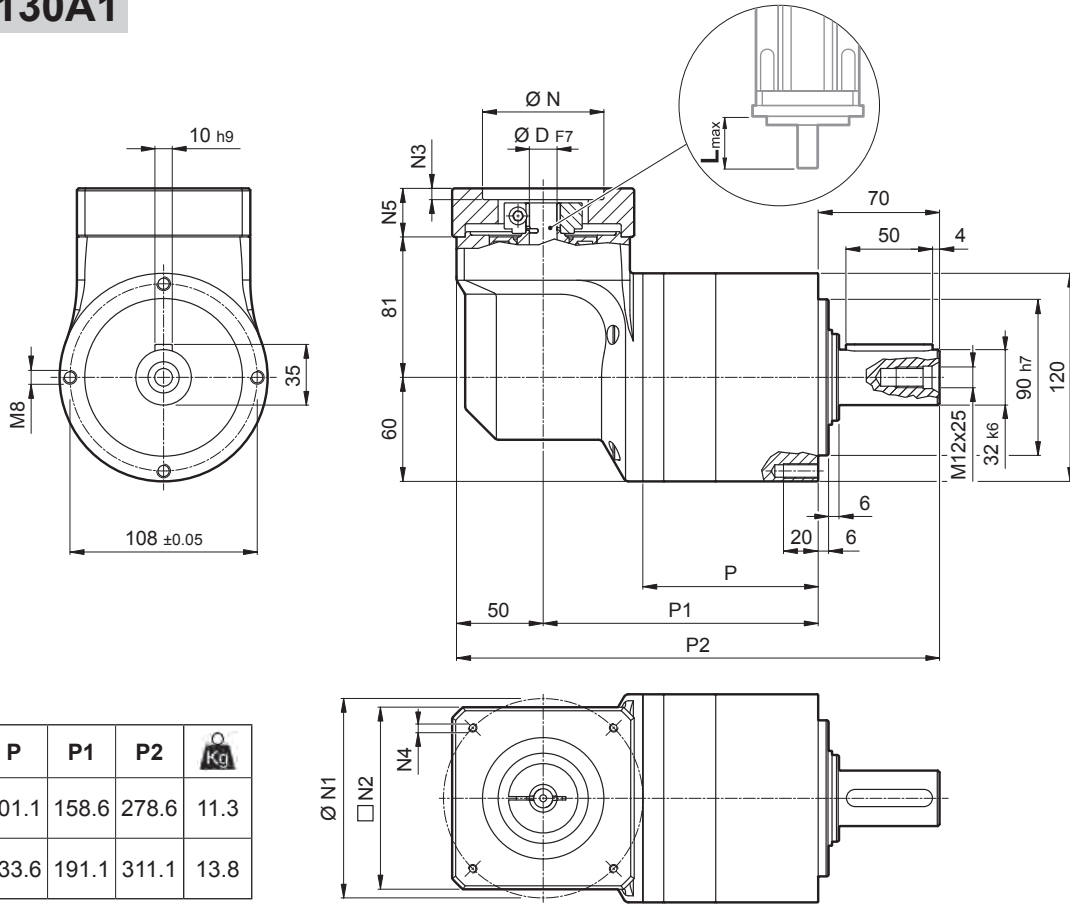
 i	M _{n 2}	M _{a 2}	M _{p 2}	n ₁	n _{1 max}	φ _s	C _t	R _{2 max}	A _{2 max}	η	J _G [kgcm ²]	
	[Nm]	[Nm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[arcmin]	$\frac{Nm}{arcmin}$	[N]	[N]	%	8 ... 12.7	14 ... 19.05
LCK 090 2_6	37	63	90	2500	5000	6'	8	2200	1900	94	0.85	1.03
LCK 090 2_8	43	80	120	2500	5000	6'	8	2200	1900	94	0.79	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

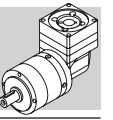


	P	P1	P2	
LCK 120 2	101.1	158.6	278.6	11.3
LCK 120 3	133.6	191.1	311.1	13.8

LCK

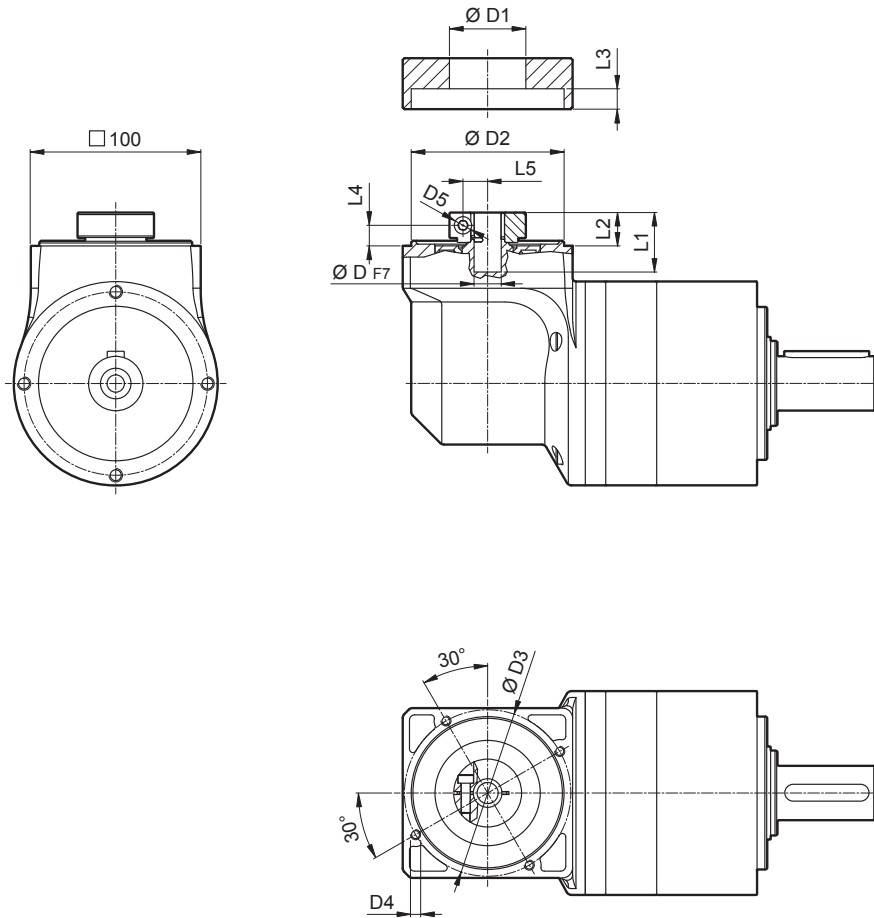
											N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	60	75	100	5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	60	75	100	5	6.5	33	40
60B1	11	12	12.7	14	15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

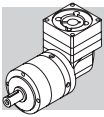
FM



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

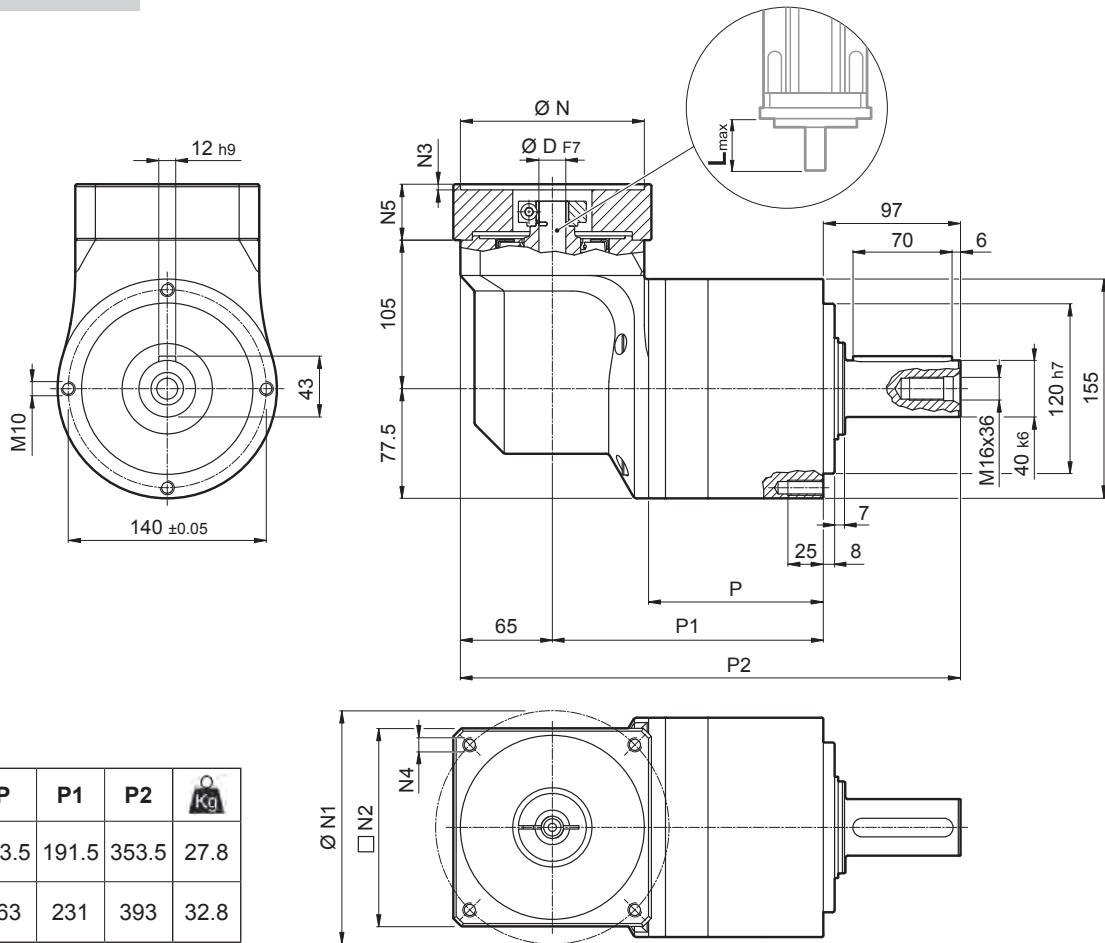
i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _s [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]		
											D	11 ... 12.7	14 ... 19
LCK 120 2_6	95	160	225	2000	4500	6'	23.4	3500	3000	94	1.74	1.82	2.01
LCK 120 2_8	110	190	300	2000	4500	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




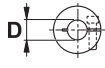
LCK 155

55A1 ... 180A1

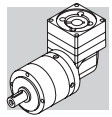


	P	P1	P2	
LCK 155 2	123.5	191.5	353.5	27.8
LCK 155 3	163	231	393	32.8

LCK

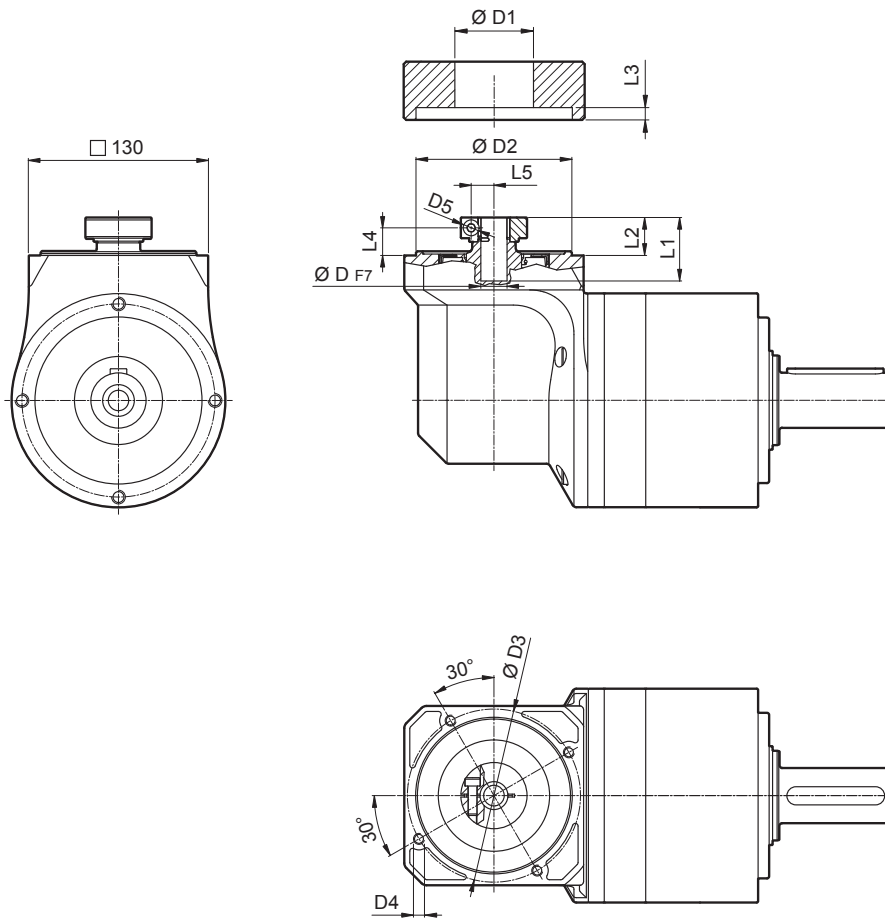
								N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24	-	110	145	130	6.5	M8x20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

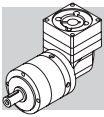
FM



	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

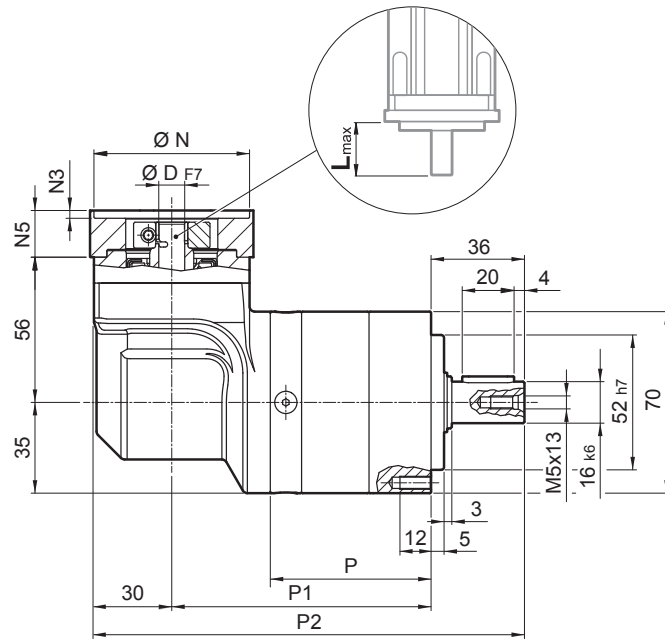
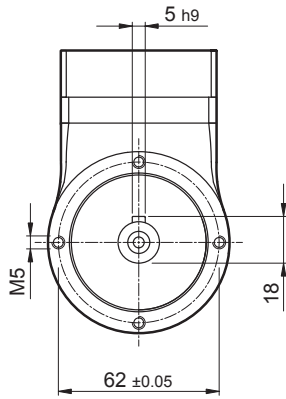
	i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	ψ _S [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]		
													14 ... 19	22 ; 24
LCK 155 2_6		250	360	510	2000	4500	6'	40.7	6000	5000	94	7.94	8.13	8.53
LCK 155 2_8		300	450	680	2000	4500	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

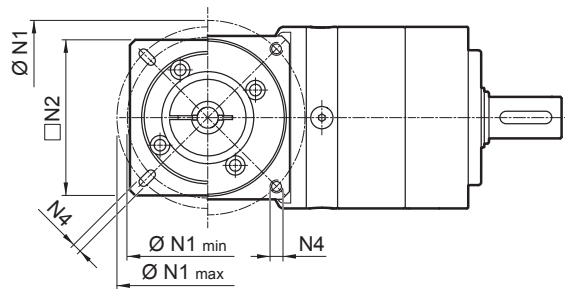


LCK 070P

25AH ... 80A



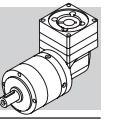
	P	P1	P2	Kg
LCK 070P 2	62	100	166	2.7
LCK 070P 3	78.7	116.7	182.7	3.0



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

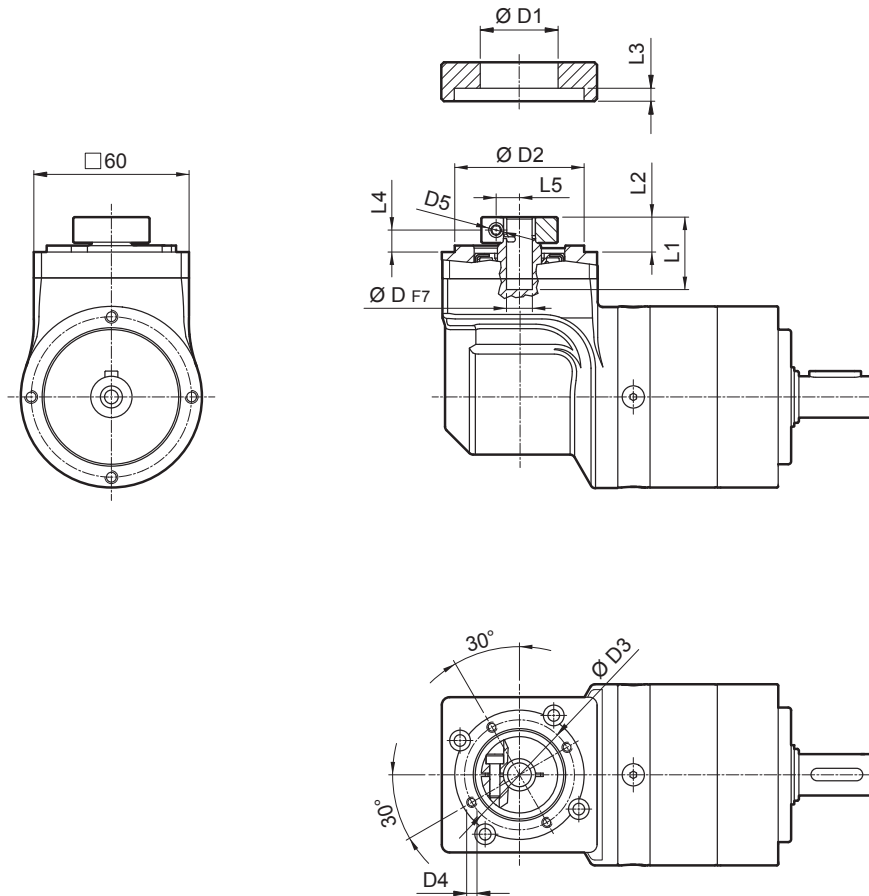
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

LCK



LCK 070P

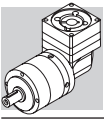
FM



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

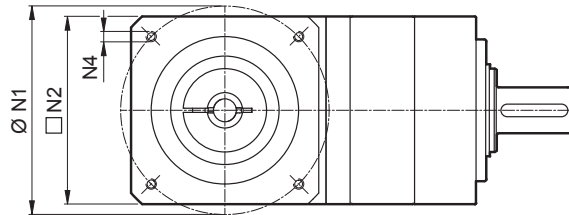
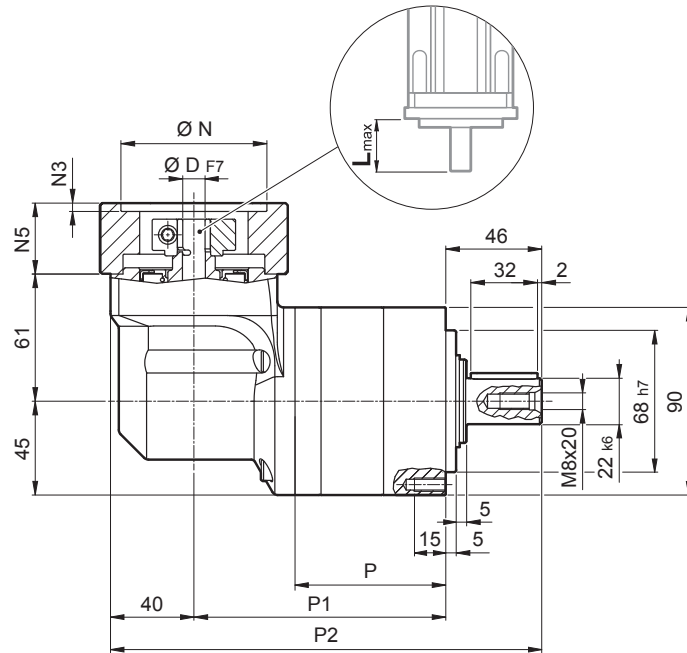
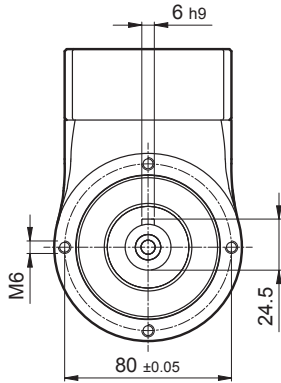
i	M _{n 2} [Nm]	M _{a 2} [Nm]	M _{p 2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	ψ _s [arcmin]	C _t [Nm/arcmin]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]	
											D	D
LCK 070P 2_6	25	38	45	2500	5000	6'	2.8	1300	1400	94	0.25	0.26
LCK 070P 2_8	30	40	60	2500	5000	6'	2.8	1300	1400	94	0.24	0.25
LCK 070P 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

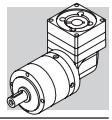
40B1 ... 110B1



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

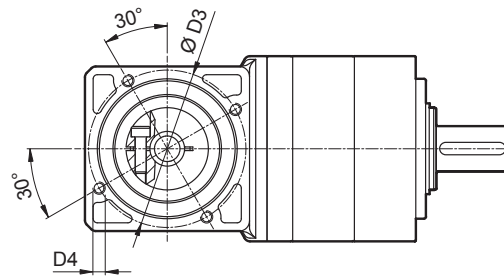
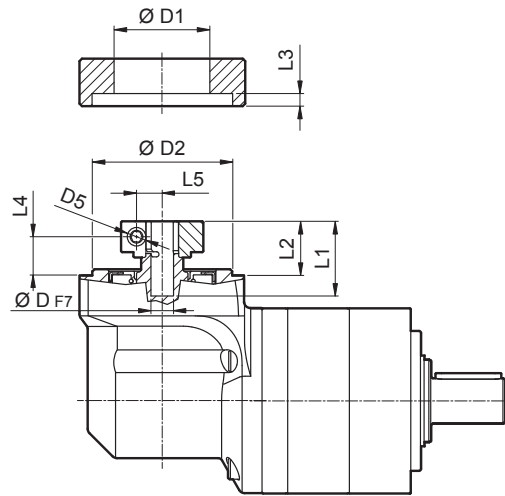
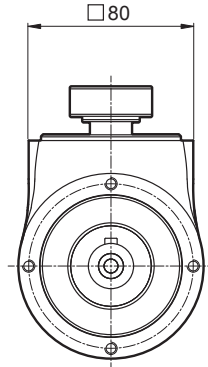
												N	N1	N2	N3	N4	N5	L _{max}	
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x10	34	40	
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x10	34	40	
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40	
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40	
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-	50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

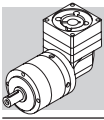
FM



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

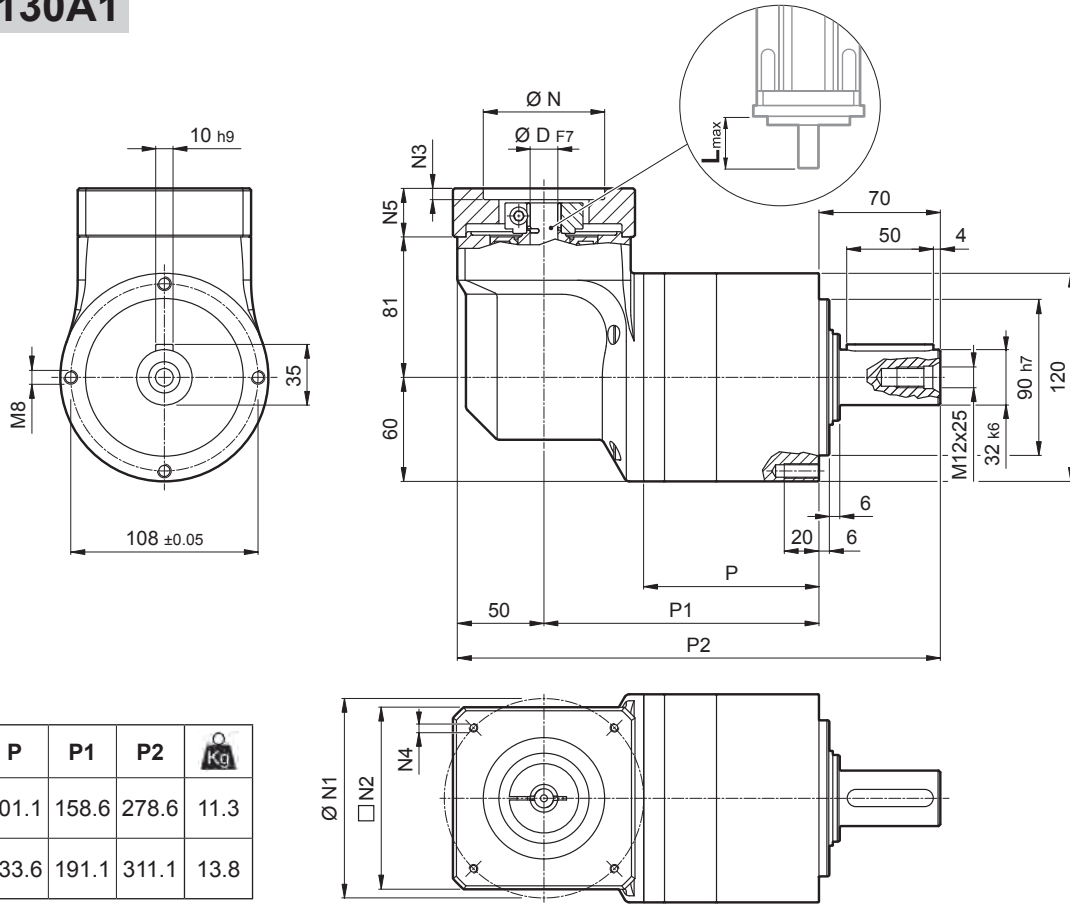
i	M_{n2} [Nm]	M_{a2} [Nm]	M_{p2} [Nm]	n_1 [min ⁻¹]	n_{1max} [min ⁻¹]	φ_s [arcmin]	C_t [Nm/arcmin]	R_{2max} [N]	A_{2max} [N]	η %	J_G [kgcm ²]	
											8 ... 12.7	14 ... 19
LCK 090P 2_6	45	70	90	2500	5000	6'	11	2200	1900	94	0.85	1.03
LCK 090P 2_8	60	90	120	2500	5000	6'	11	2200	1900	94	0.79	0.98
LCK 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

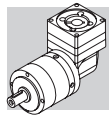
50D ... 130A1



	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

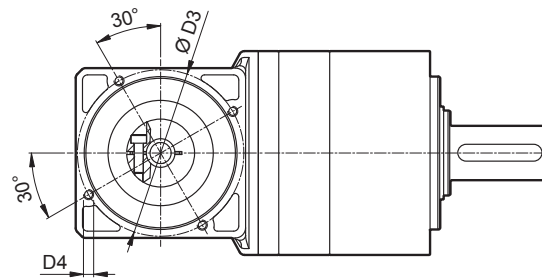
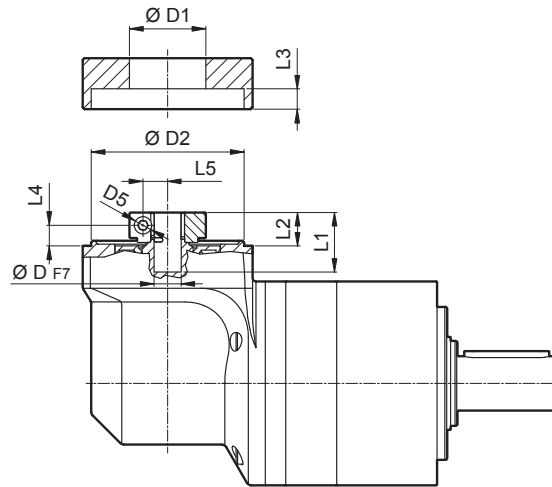
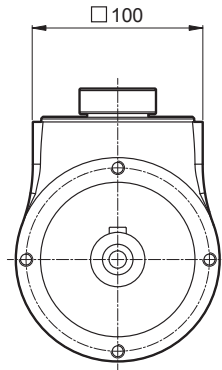
											N	N1	N2	N3	N4	N5	L _{max}
50D	11	12	12.7	14	15	15.875	16	19	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	60	75	100	5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	60	75	100	5	6.5	33	40
60B1	11	12	12.7	14	15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

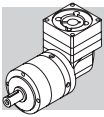
FM



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

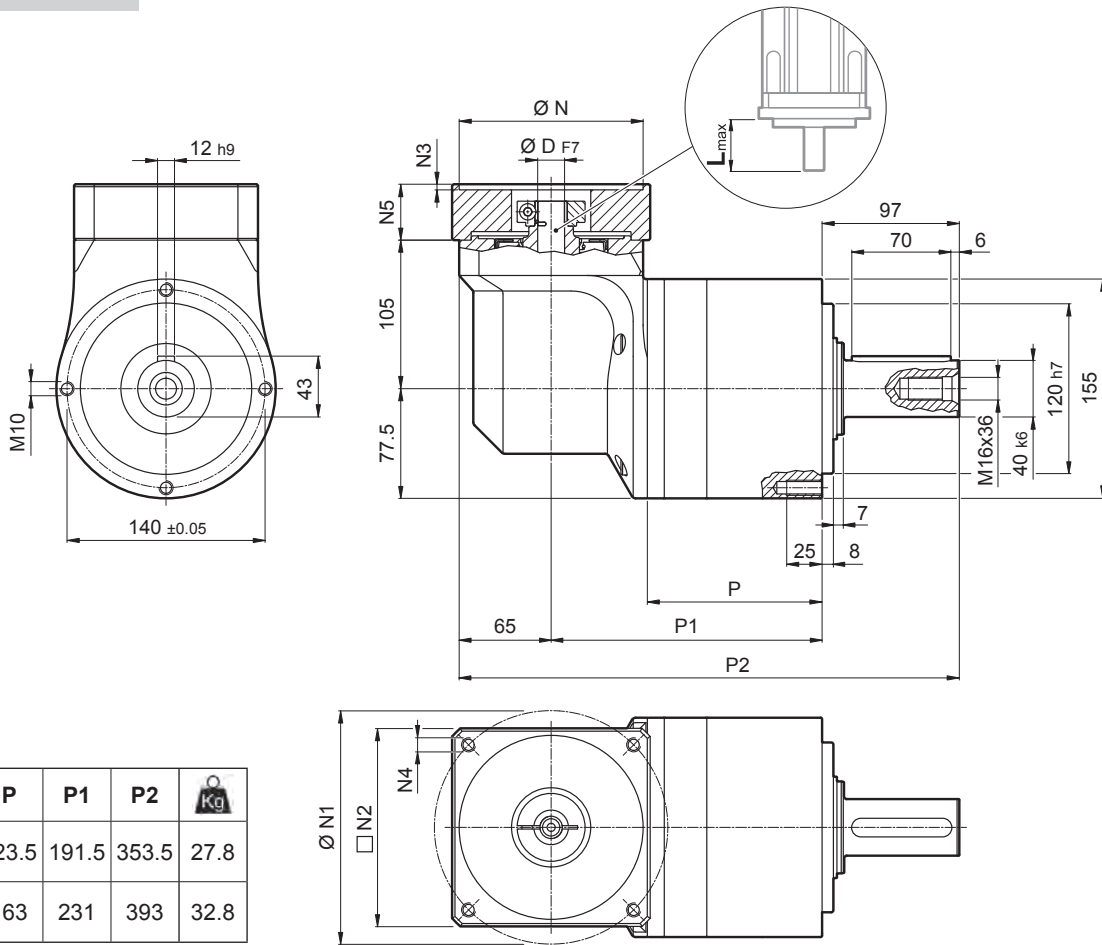
i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _s [arcmin]	C _t [$\frac{Nm}{arcmin}$]	R _{2 max} [N]	A _{2 max} [N]	η %	J _G [kgcm ²]		
											14 ... 19	22 ; 24	28 ; 32
LCK 120P 2_6	110	160	225	2000	4500	6'	28.4	3500	3000	94	1.74	1.82	2.01
LCK 120P 2_8	140	220	300	2000	4500	6'	28.4	3500	3000	94	1.52	1.60	1.79
LCK 120P 2_10	125	220	360	2000	4500	6'	28.4	3500	3000	94	1.44	1.52	1.71
LCK 120P 2_14	125	220	360	2000	4500	6'	28.4	3500	3000	94	1.37	1.45	1.63
LCK 120P 2_20	100	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

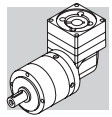


	P	P1	P2	Kg
LCK 155P 2	123.5	191.5	353.5	27.8
LCK 155P 3	163	231	393	32.8

LCK

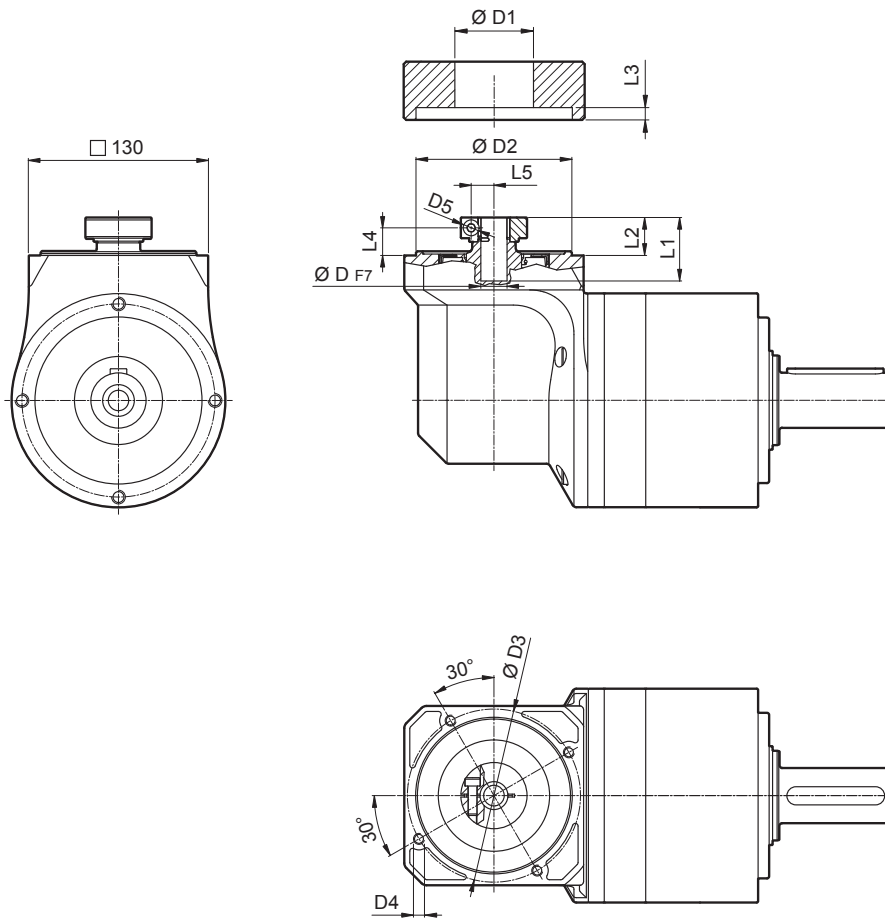
								N	N1	N2	N3	N4	N5	L _{max}
55A1	14	15.875	16	19	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24	-	110	145	130	6.5	M8x20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

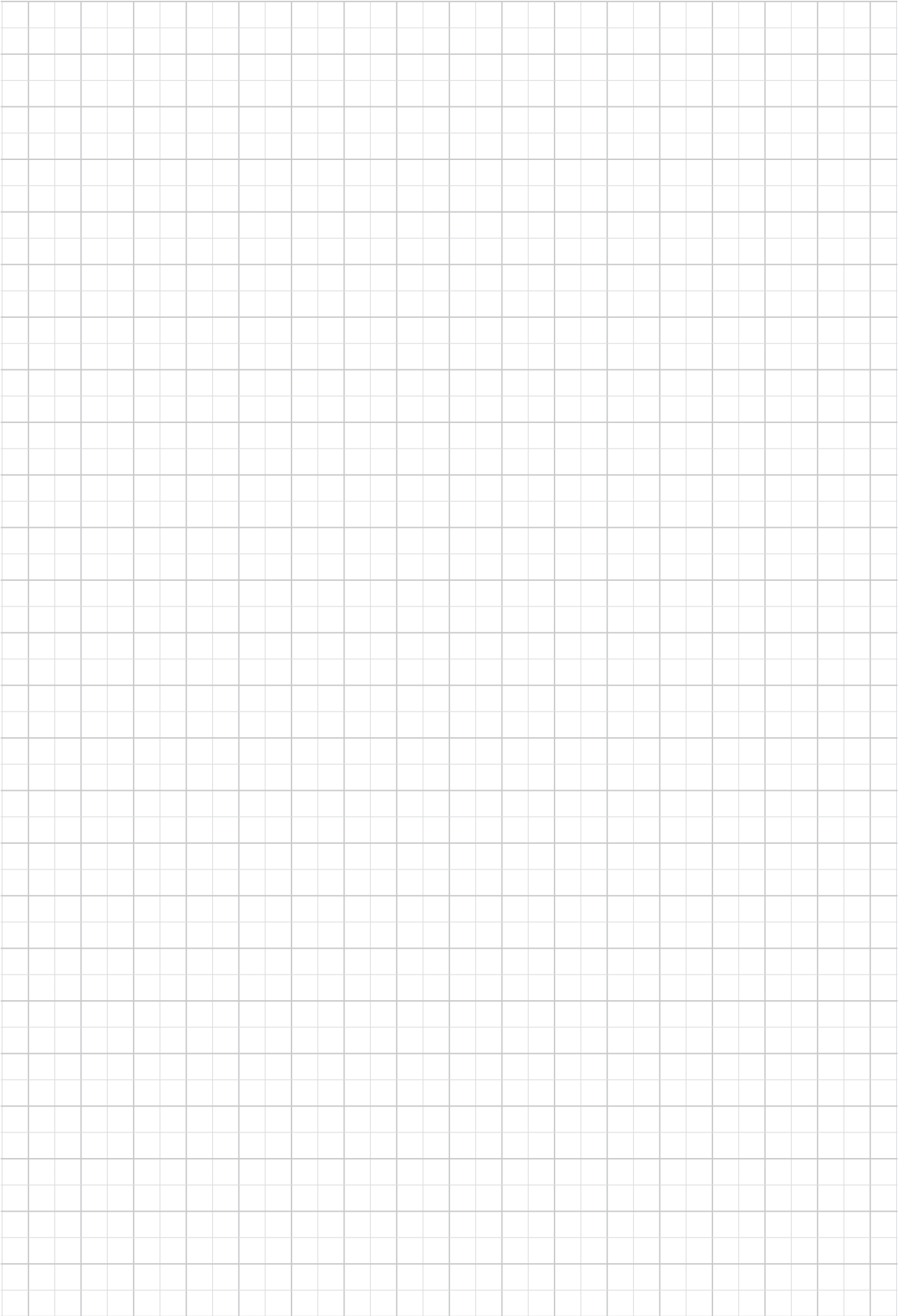
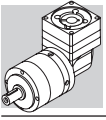
FM



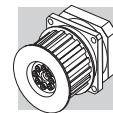
D	D		D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
	14	16										
14	15.875	16	48	113	125.5	M8x15	M6	46	27.5	6	20	14.5
19			51	113	125.5	M8x15	M6	46	27.5	6	20	16.5
22	24		56.5	113	125.5	M8x15	M6	47.5	29	6	20	19
28			67	113	125.5	M8x15	M8	47.5	29	6	20	22.5

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

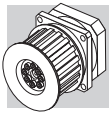
Il potenziamento delle prestazioni dei riduttori epicicloidali di precisione SL (la nuova opzione "P") aprono importanti opportunità in molte applicazioni, dove prima era impossibile assicurare elevate coppie trasmissibili. Un ulteriore vantaggio consiste nel miglioramento dell'efficienza energetica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

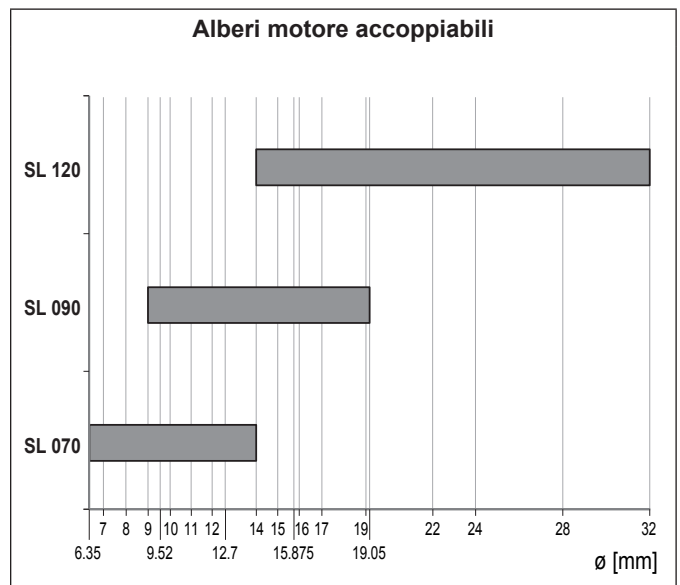
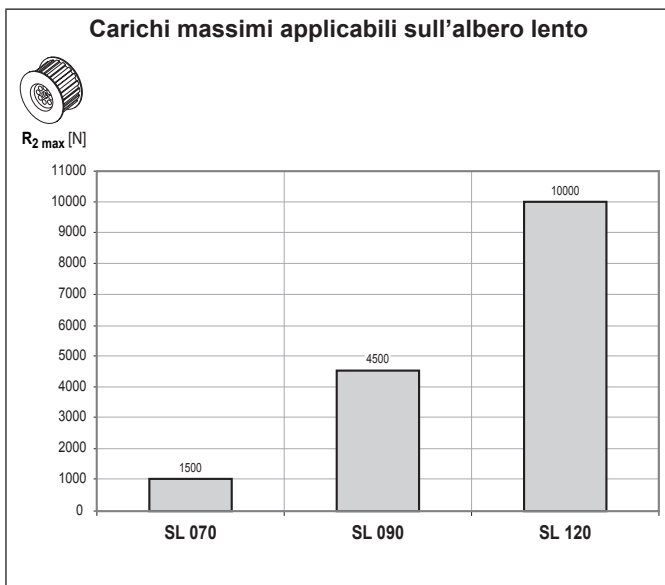


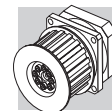
9 CARATTERISTICHE DELLA SERIE SL

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.

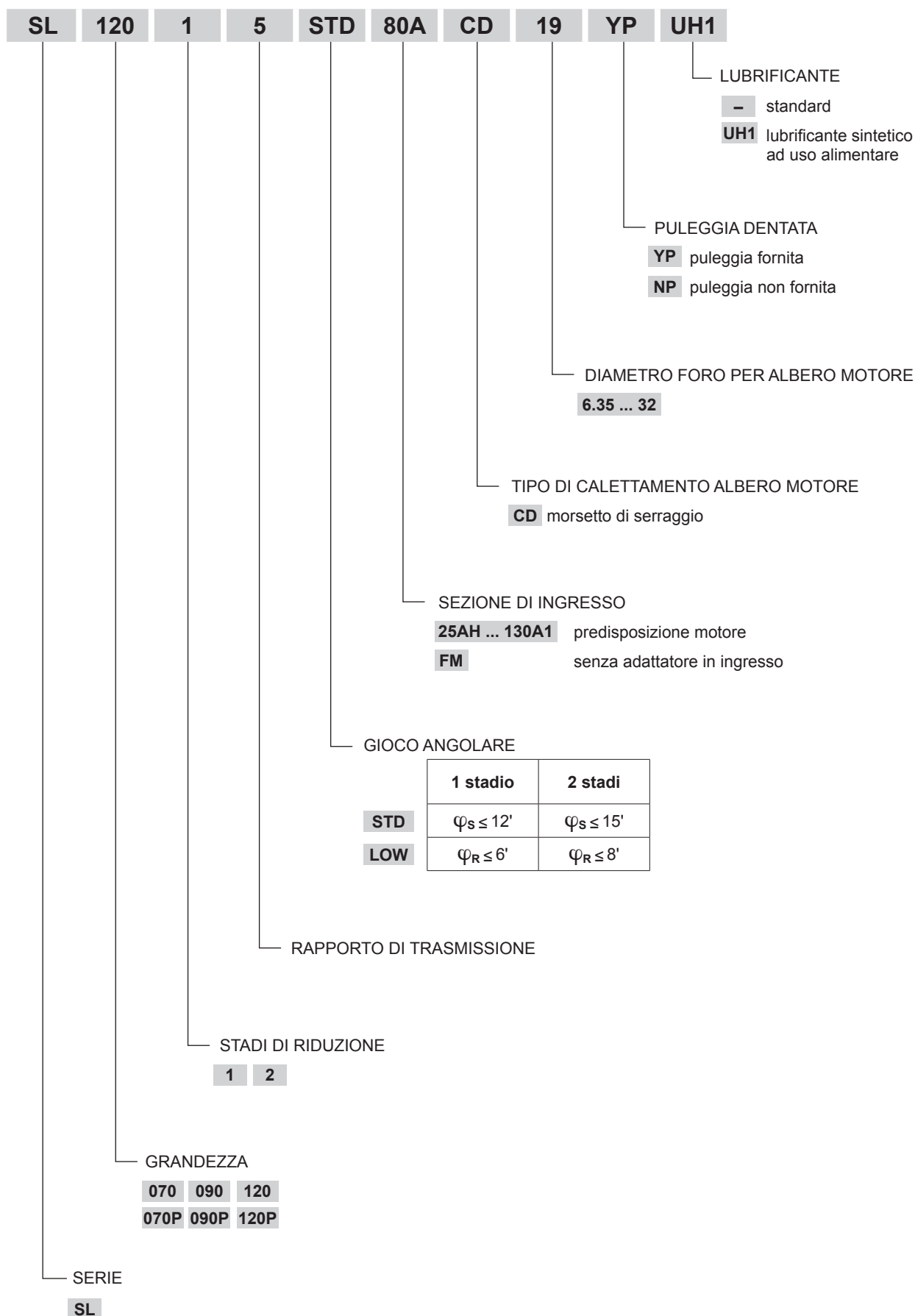
- Disponibile in due classi di gioco angolare: standard (STD) e ridotto (LOW).
1 stadio di riduzione: standard $\varphi_S \leq 12'$; ridotto $\varphi_R \leq 6'$
2 stadi di riduzione: standard $\varphi_S \leq 15'$; ridotto $\varphi_R \leq 8'$
- Ottimo grado di protezione contro la penetrazione di polvere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

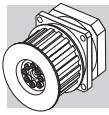




9.1 CODICE ORDINATIVO

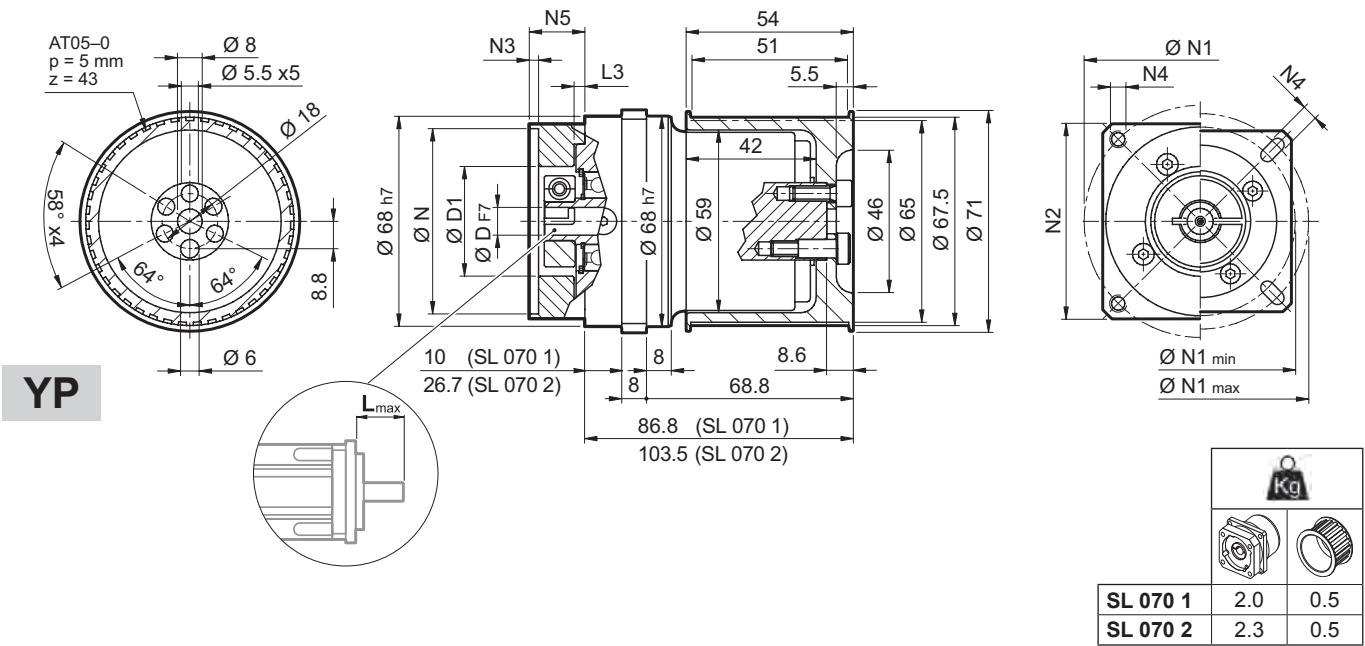


SL



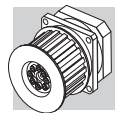
9.2 DIMENSIONI E DATI TECNICI

SL 070

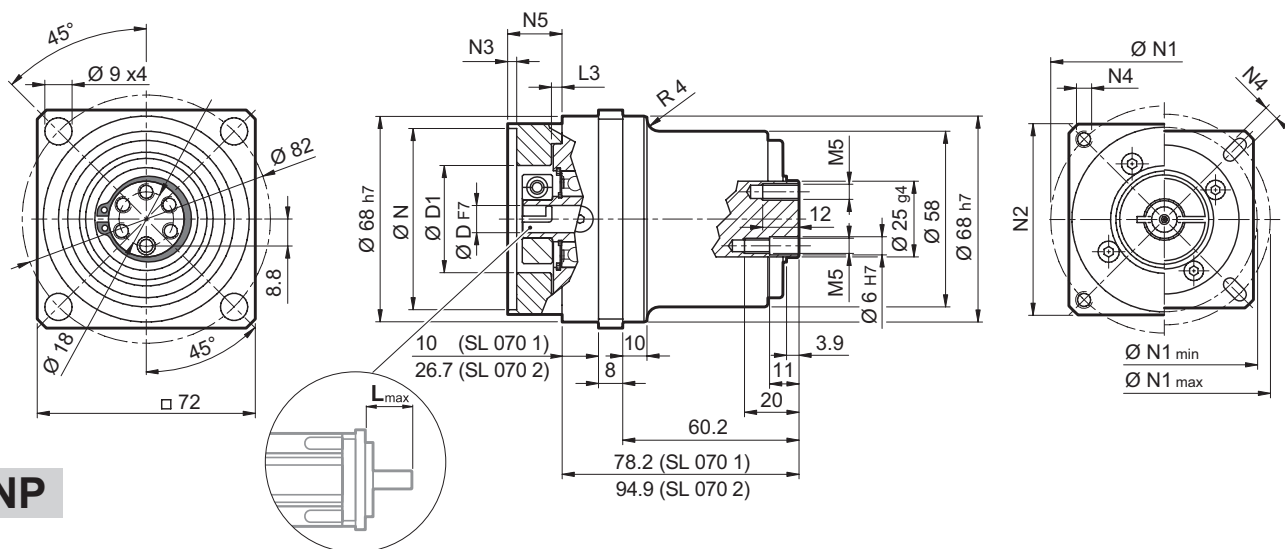


		D											N	N1		N2	N3	N4	N5	L _{max}
															min					
25AH	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56							
26AH	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56							
28AH	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56							
30AH	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56							
32AH	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56	65	3.5	4.5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

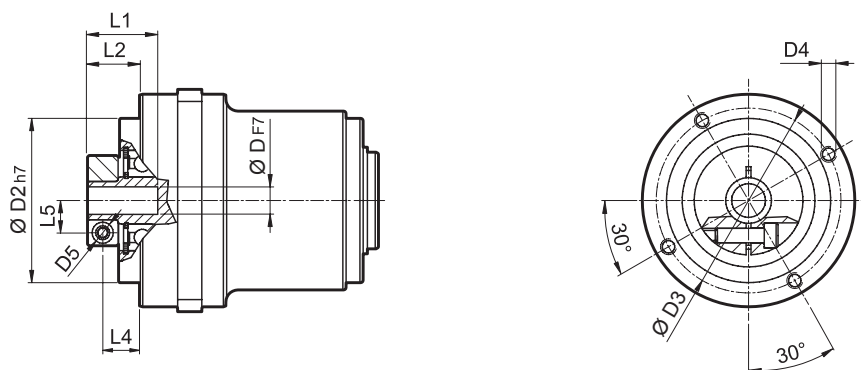
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



SL 070



NP

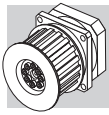


FM

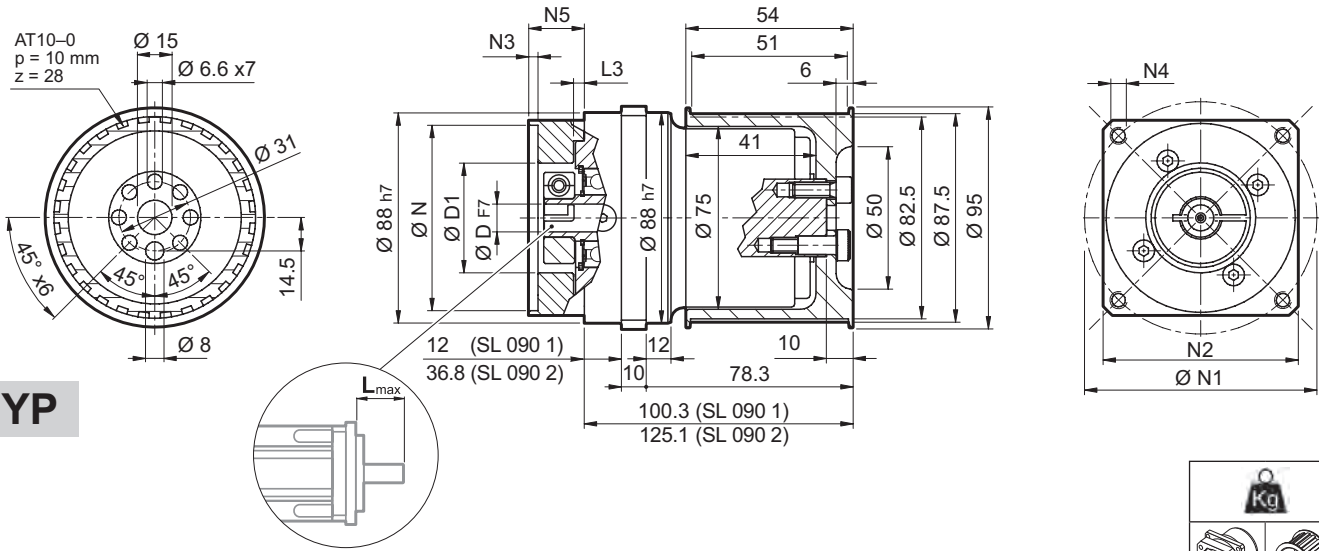
D				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6.35	7			32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5




i	M _{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 [$\frac{Nm}{arcmin}$]	R _{2 max} * [N]	A _{2 max} [N]	η %	J _G [kgcm ²]		3.86
												D		
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	


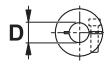
* Applicabile nell'uso con puleggia dentata



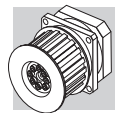
SL 090



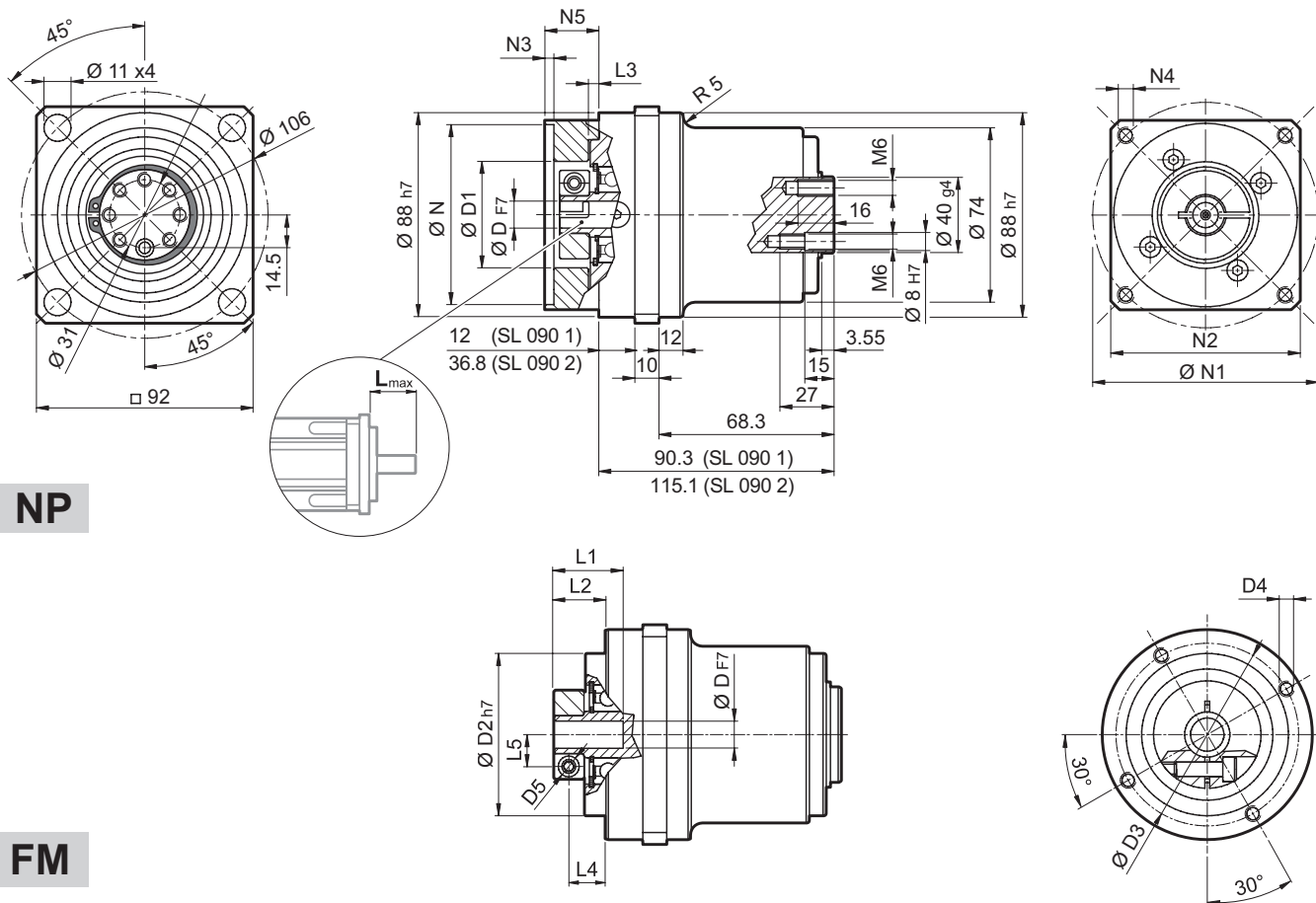
	Kg	
		
SL 090 1	3.6	0.8
SL 090 2	4.7	0.8

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

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



SL 090



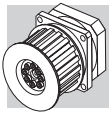
NP

FM

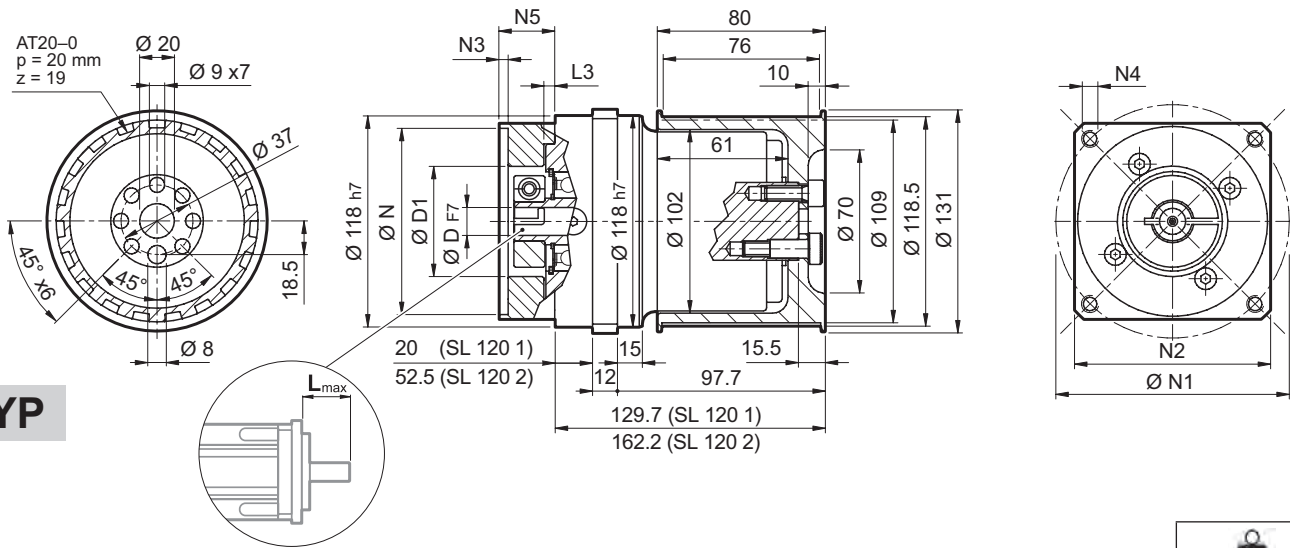
D		D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
9	9.52	38	68	76.5	M6x10	M6	34	26.8	9.5	18.8	10.5
11	12	52	68	76.5	M6x10	M6	34	26.8	9.5	18.8	12.5
14	15.875	48	68	76.5	M6x10	M6	34	26.8	9.5	18.8	14.5
19	19.05	51	68	76.5	M6x10	M6	34	26.8	9.5	18.8	16.5

i	M _{n2} [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]		10.95
												D		
SL 090 1_3	37	70	150	2900	3500	12'	6'	12	4500	2000	97	0.72	0.81	10.95
SL 090 1_4	43	80	160	3100	4500	12'	6'	12	4500	2000	97	0.49	0.58	
SL 090 1_5	43	80	160	3200	4500	12'	6'	12	4500	2000	97	0.39	0.48	
SL 090 1_7	43	80	160	4000	6000	12'	6'	12	4500	2000	97	0.31	0.40	
SL 090 1_10	37	70	150	4000	6000	12'	6'	12	4500	2000	97	0.27	0.35	
SL 090 2_9	37	70	150	2900	3500	15'	8'	11.5	4500	2000	94	0.47	0.61	
SL 090 2_12	43	80	160	2900	3500	15'	8'	11.5	4500	2000	94	0.44	0.58	
SL 090 2_15	43	80	160	2900	3500	15'	8'	11.5	4500	2000	94	0.43	0.57	
SL 090 2_16	43	80	160	3100	4500	15'	8'	11.5	4500	2000	94	0.31	0.45	
SL 090 2_20	43	80	160	3200	4500	15'	8'	11.5	4500	2000	94	0.26	0.40	
SL 090 2_25	43	80	160	3200	4500	15'	8'	11.5	4500	2000	94	0.26	0.40	
SL 090 2_28	43	80	160	4000	6000	15'	8'	11.5	4500	2000	94	0.22	0.36	
SL 090 2_30	37	70	150	4000	6000	15'	8'	11.5	4500	2000	94	0.20	0.34	
SL 090 2_35	43	80	160	4000	6000	15'	8'	11.5	4500	2000	94	0.22	0.36	
SL 090 2_40	43	80	160	4000	6000	15'	8'	11.5	4500	2000	94	0.20	0.34	
SL 090 2_50	43	80	160	4000	6000	15'	8'	11.5	4500	2000	94	0.20	0.34	
SL 090 2_70	43	80	160	4000	6000	15'	8'	11.5	4500	2000	94	0.20	0.34	
SL 090 2_100	37	70	150	4000	6000	15'	8'	11.5	4500	2000	94	0.19	0.34	

* Applicabile nell'uso con puleggia dentata



SL 120

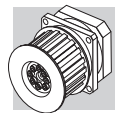


YP

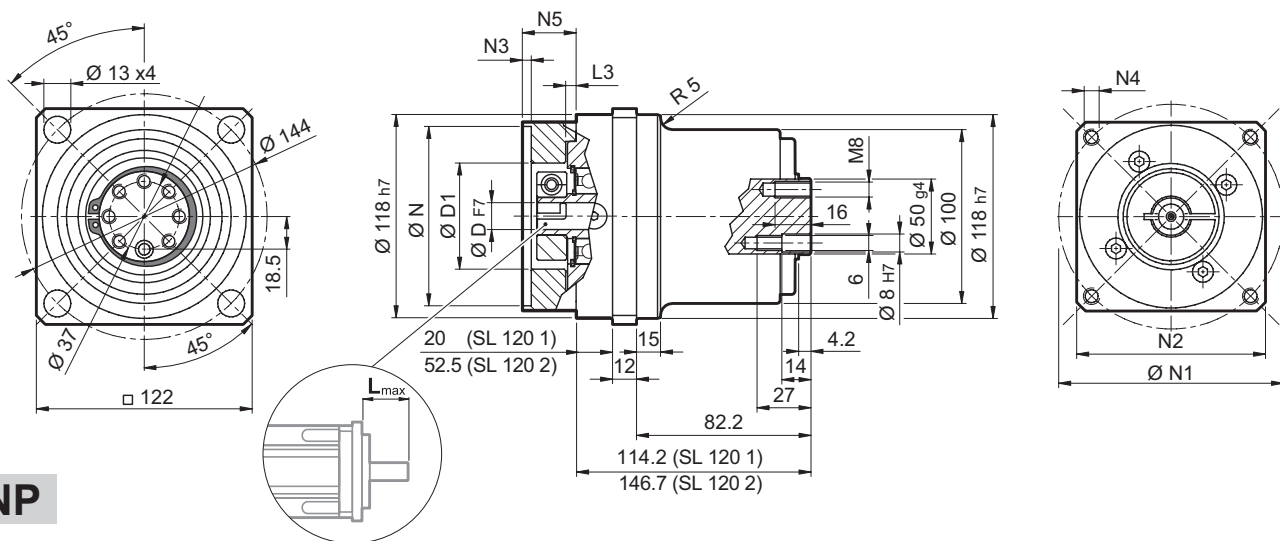
	8.4	2.6
	10.9	2.6

									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

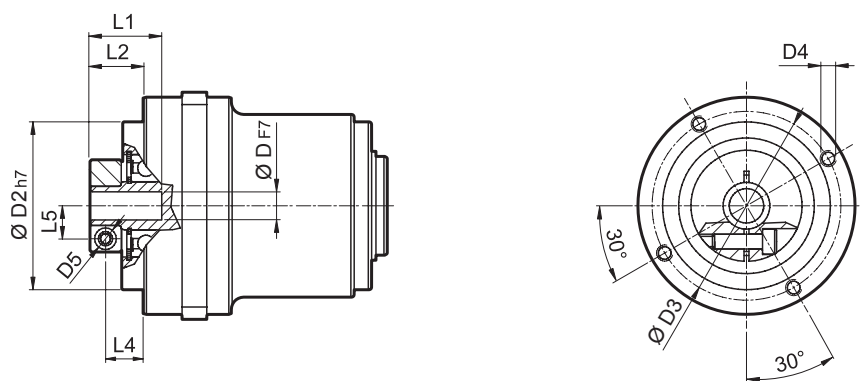
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



SL 120



NP

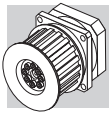


FM

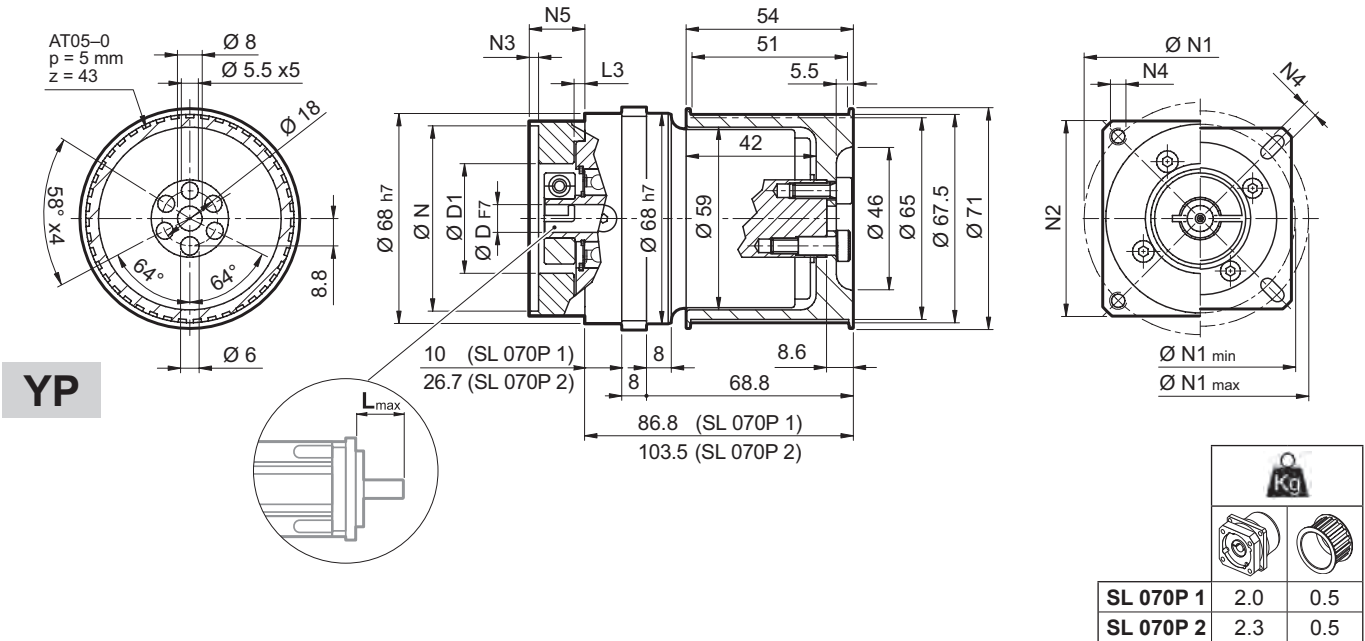
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15	15.875	16	48	90	98	M6x15	M6	33.5	20	7.6	12.5	14.5
19				51	90	98	M6x15	M6	33.5	20	7.6	12.5	16.5
22	24			56.5	90	98	M6x15	M6	36.5	23	7.6	14	19
28				70	90	98	M6x15	M8	36.5	23	7.6	14	22.5
32				71	90	98	M6x15	M8	38	24.5	7.6	15.5	24.5

	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

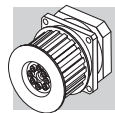


SL 070P

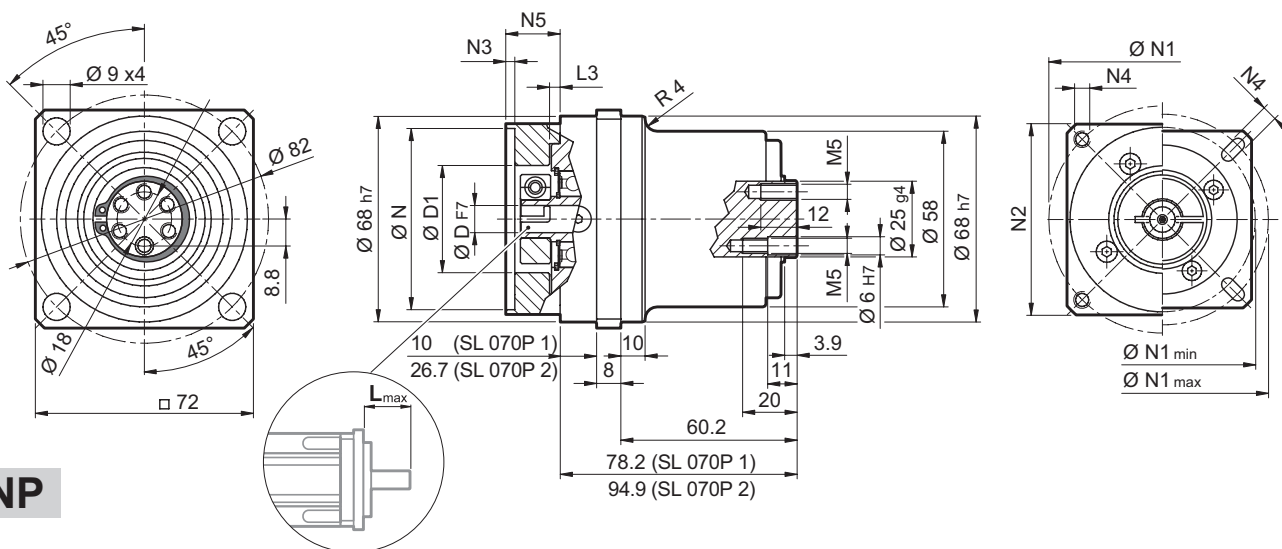


	D											N	N1		N2	N3	N4	N5	L _{max}
													min	max					
25AH	6.35	7	8	9	9.52	-	-	-	-	-	25	39	56						
26AH	6.35	7	8	9	9.52	-	-	-	-	-	26	39	56						
28AH	6.35	7	8	9	9.52	-	-	-	-	-	28	39	56						
30AH	6.35	7	8	9	9.52	-	-	-	-	-	30	39	56						
32AH	6.35	7	8	9	9.52	-	-	-	-	-	32	39	56	65	3.5	4.5	25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

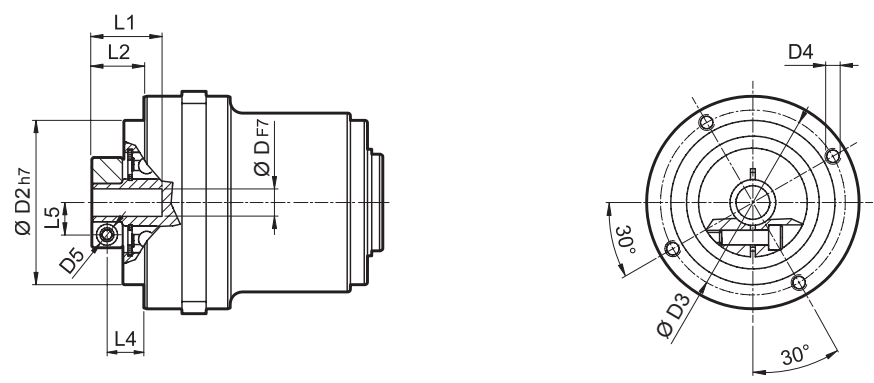


SL 070P



NP

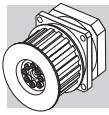
FM



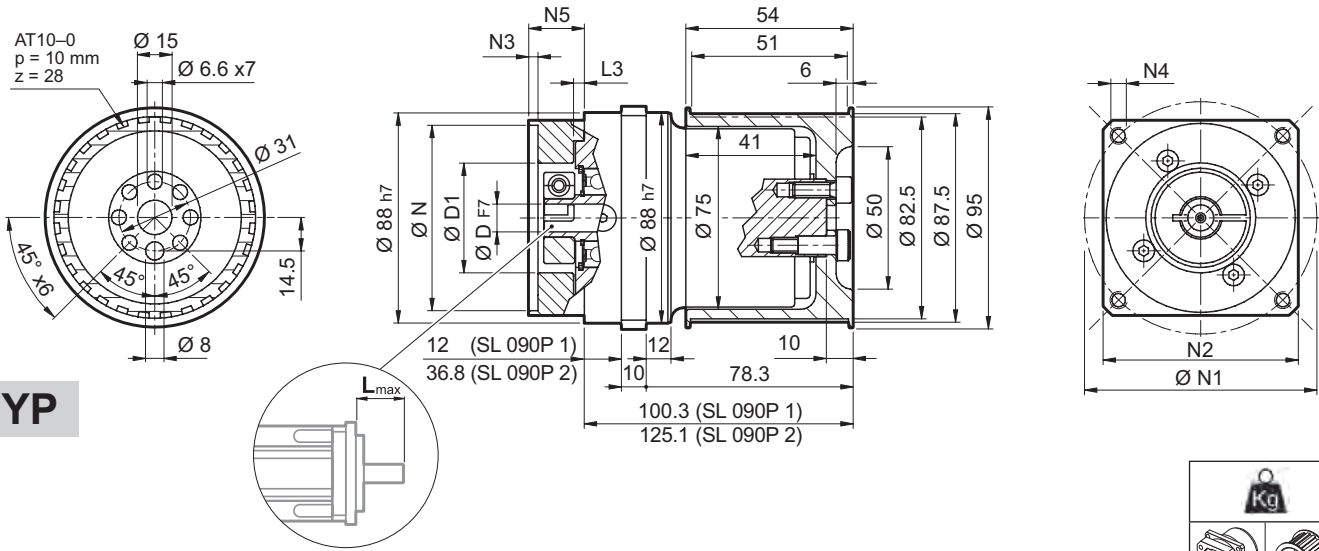
D				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
6.35	7			32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	8
8	9	9.52	10	32.5	50	42.5	M4x8	M4	21.7	13.2	3	8.2	9
11	12	12.7		35.5	50	42.5	M4x8	M4	22	13.5	3	8.5	11
14				35.5	50	42.5	M4x8	M4	25	17	3	10.2	11.5

i	M _{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]		3.86
												D		
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



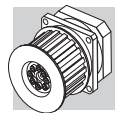
YP

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

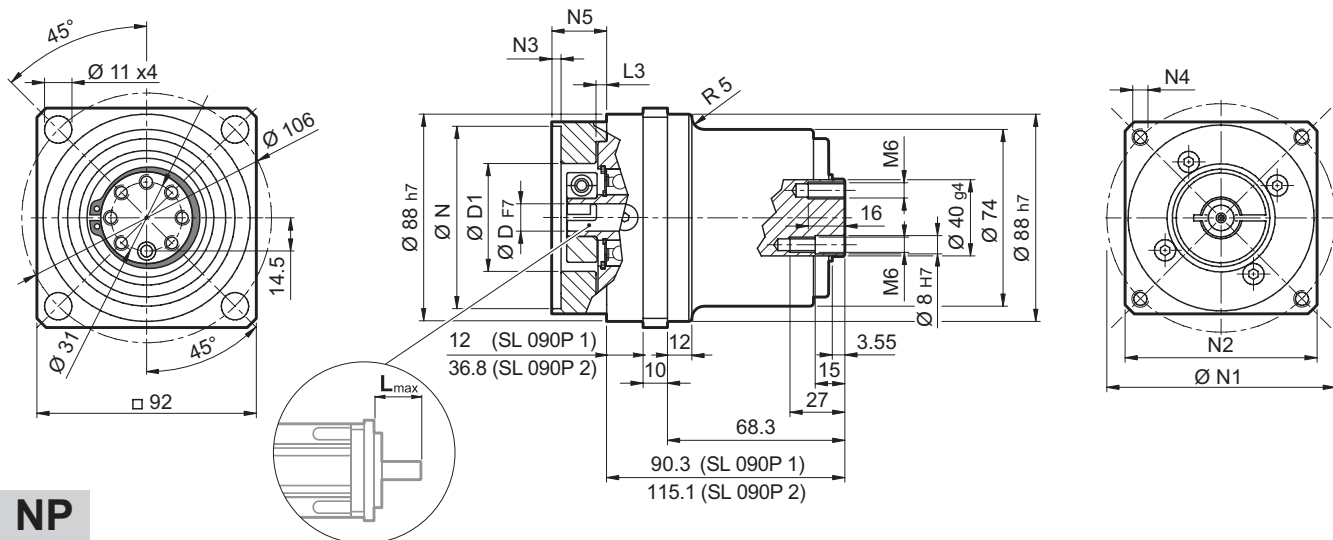
												N	N1	N2	N3	N4	N5	L _{max}
40B1	9	9.52	11	12	12.7	14	-	-	-	-	-	40	63	80	4	M4x10	34	40
45A	9	9.52	11	12	12.7	-	-	-	-	-	-	45	63	80	4	M4x10	34	40
50B1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	M5x16	34	40
50BH1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	65	80	4	5.5	34	40
50C1	9	9.52	11	12	12.7	14	-	-	-	-	-	50	70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

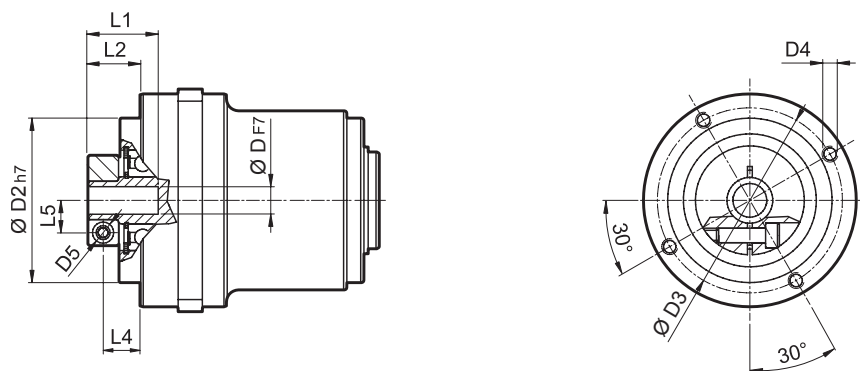
SL



SL 090P



NP

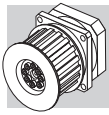


FM

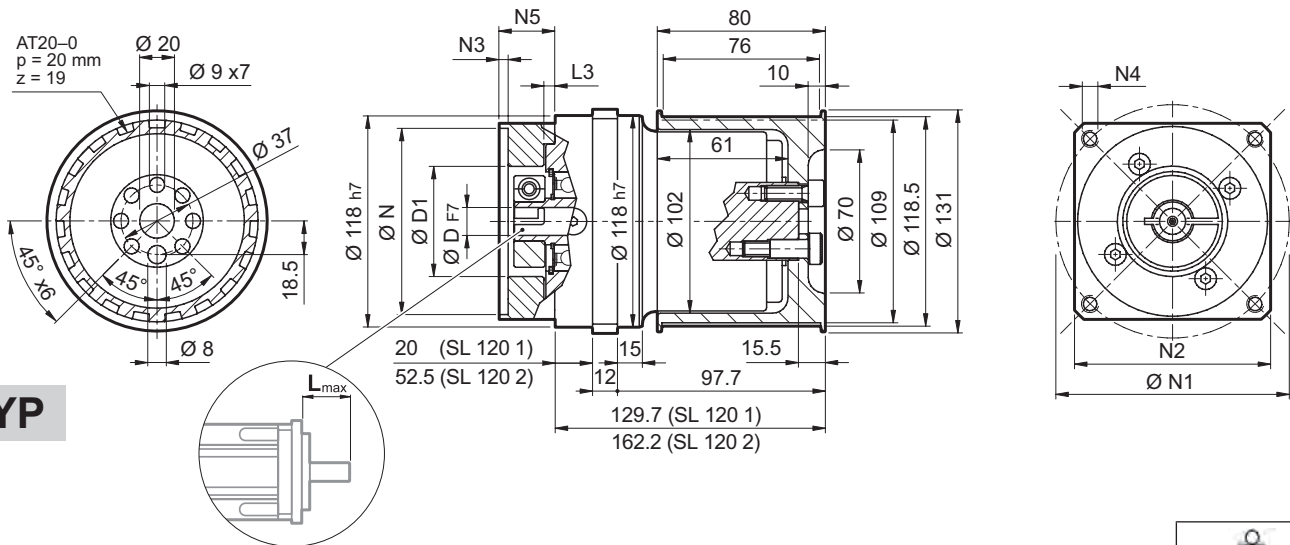
D		D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
9	9.52	38	68	76.5	M6x10	M6	34	26.8	9.5	18.8	10.5
11	12	52	68	76.5	M6x10	M6	34	26.8	9.5	18.8	12.5
14	15.875	48	68	76.5	M6x10	M6	34	26.8	9.5	18.8	14.5
19	19.05	51	68	76.5	M6x10	M6	34	26.8	9.5	18.8	16.5

i	M _{n2} [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]	
												D	D
SL 090P 1_3	65	120	150	3500	4000	12'	6'	12	4500	2000	97	0.72	0.81
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	3500	15'	8'	11.5	4500	2000	94	0.47	0.61
SL 090P 2_12	65	120	160	3500	3500	15'	8'	11.5	4500	2000	94	0.44	0.58
SL 090P 2_15	65	120	160	3500	3500	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



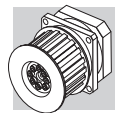
SL 120P



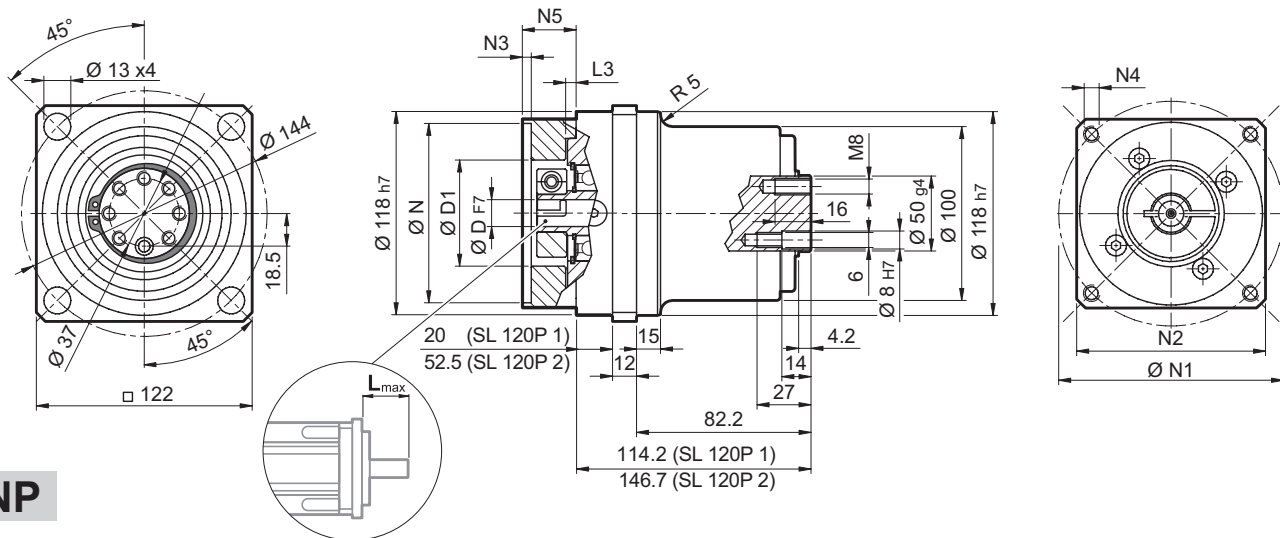
	Kg	
SL 120P 1	8.4	2.6
SL 120P 2	10.9	2.6

									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

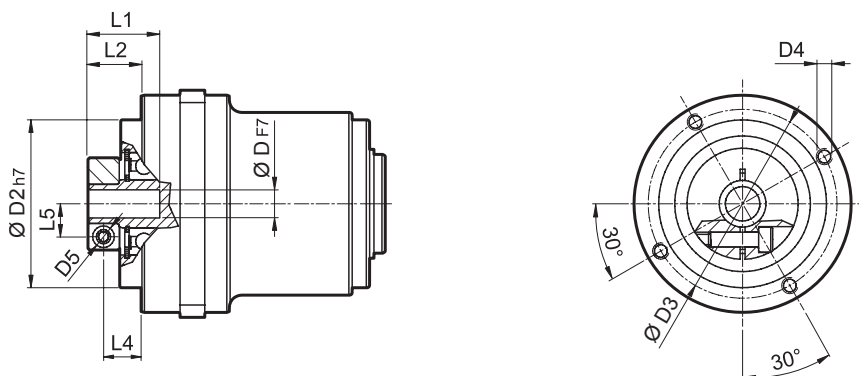
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.



SL 120P



NP

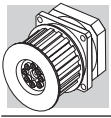


FM

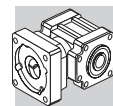
				D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
14	15	15.875	16	48	90	98	M6x15	M6	33.5	20	7.6	12.5	14.5
19				51	90	98	M6x15	M6	33.5	20	7.6	12.5	16.5
22	24			56.5	90	98	M6x15	M6	36.5	23	7.6	14	19
28				70	90	98	M6x15	M8	36.5	23	7.6	14	22.5
32				71	90	98	M6x15	M8	38	24.5	7.6	15.5	24.5

	i	M _{n2} [Nm]	M _{a2} [Nm]	M _{p2} [Nm]	n ₁ [min ⁻¹]	n _{1 max} [min ⁻¹]	φ _s [arcmin]	φ _R	C _t [Nm/arcmin]	R _{2 max} * [N]	A _{2 max} [N]	η %	J _G [kgcm ²]			
													D	14 ... 19	22 ; 24	
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

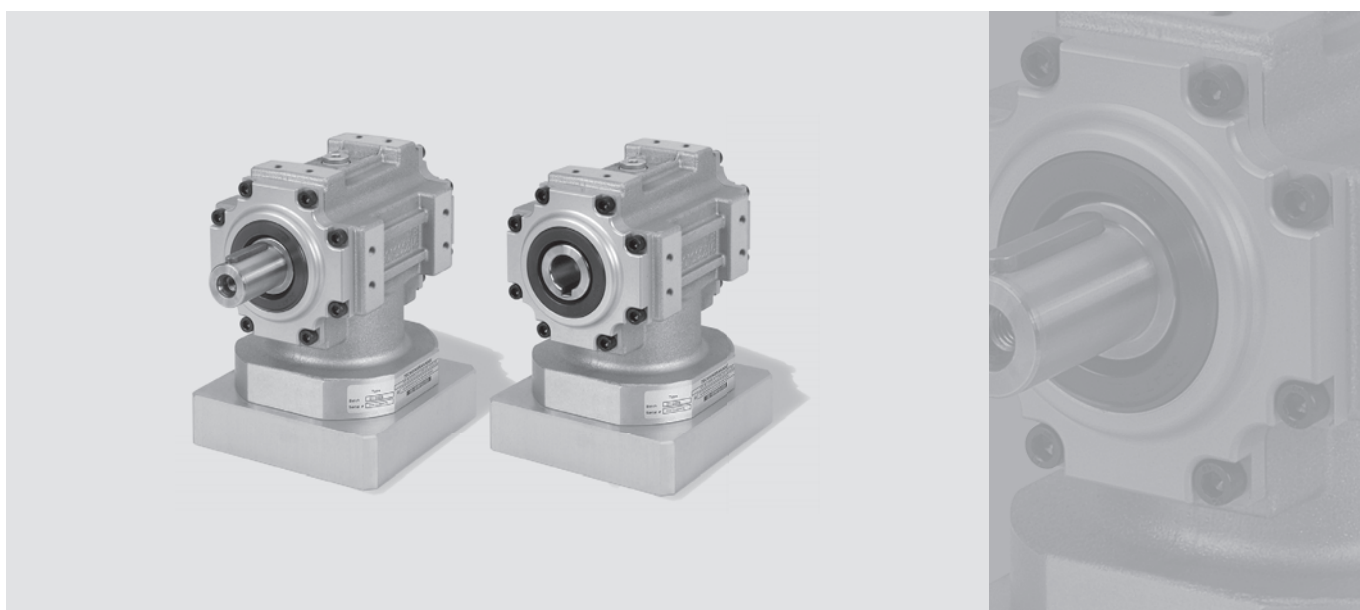


KR

RIDUTTORE ORTOGONALE DI PRECISIONE

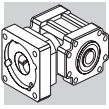
Soluzione flessibile, efficiente ed economicamente vantaggiosa per applicazioni che richiedono azionamenti ortogonali con ingombro ridotto e gioco minimo.

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



10 CARATTERISTICHE DELLA SERIE KR

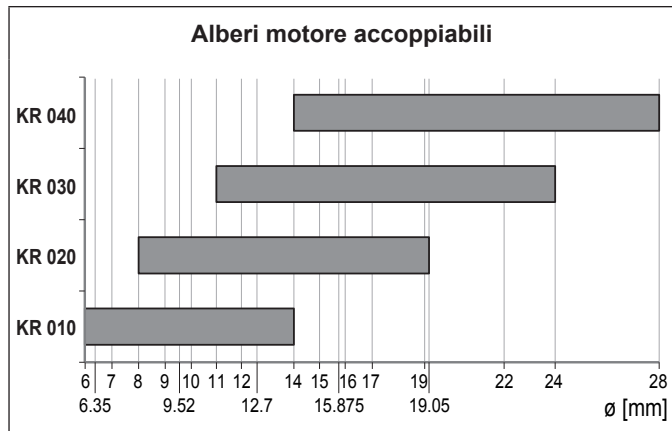
I rinvii angolari della serie KR sono realizzati sotto le più stringenti specifiche di qualità e sono progettati per le applicazioni dinamiche e precise dove il peso e l'ingombro sono fattori determinanti. L'installazione è facilitata dalle molte opzioni offerte dal catalogo per quanto riguarda le flange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

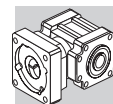
- Disponibile in un'unica classe di gioco angolare ($\Psi_S \leq 8'$)
- Rapporti di trasmissione $i = 1, 2, 5$
- Cuscinetti radiali a sfere (SB) fanno parte della configurazione standard del prodotto, mentre cuscinetti del tipo a rulli conici (HB) possono essere specificati in opzione per applicazioni 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 $T_{max} = 90^\circ\text{C}$.

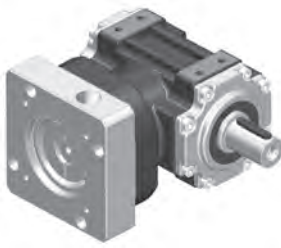
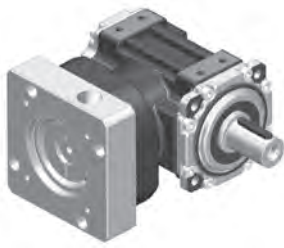
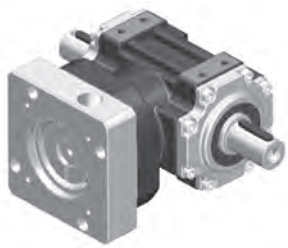
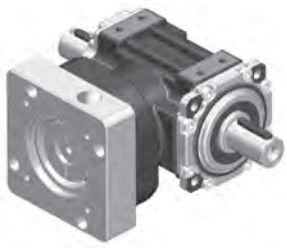
Distribuzione coppia nominale		M_{n2} [Nm]		
[i]	1	2	5	
KR 010	10	7	3	
KR 020	24	15	10	
KR 030	55	37	22	
KR 040	120	85	45	



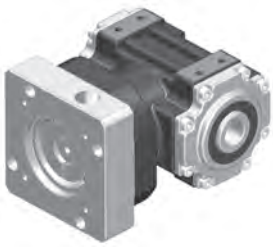
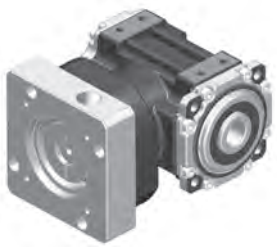
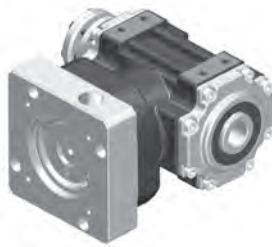
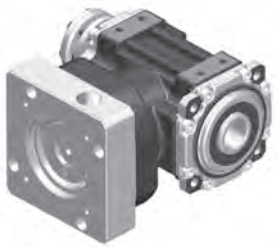


10.1 VERSIONI

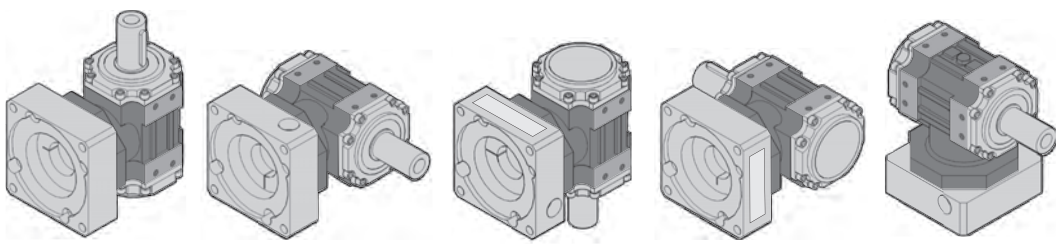
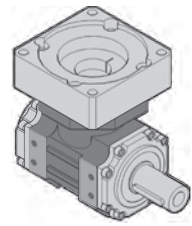
Albero pieno

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

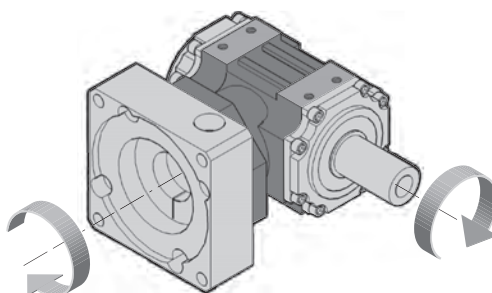
Albero cavo

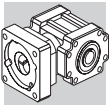
H	HF	S	SF
			
con linguetta (KR 030...KR 040)	con linguetta + flangia (KR 030...KR 040)	con giunto calettatore	con giunto calettatore + flangia

10.2 POSIZIONI DI MONTAGGIO

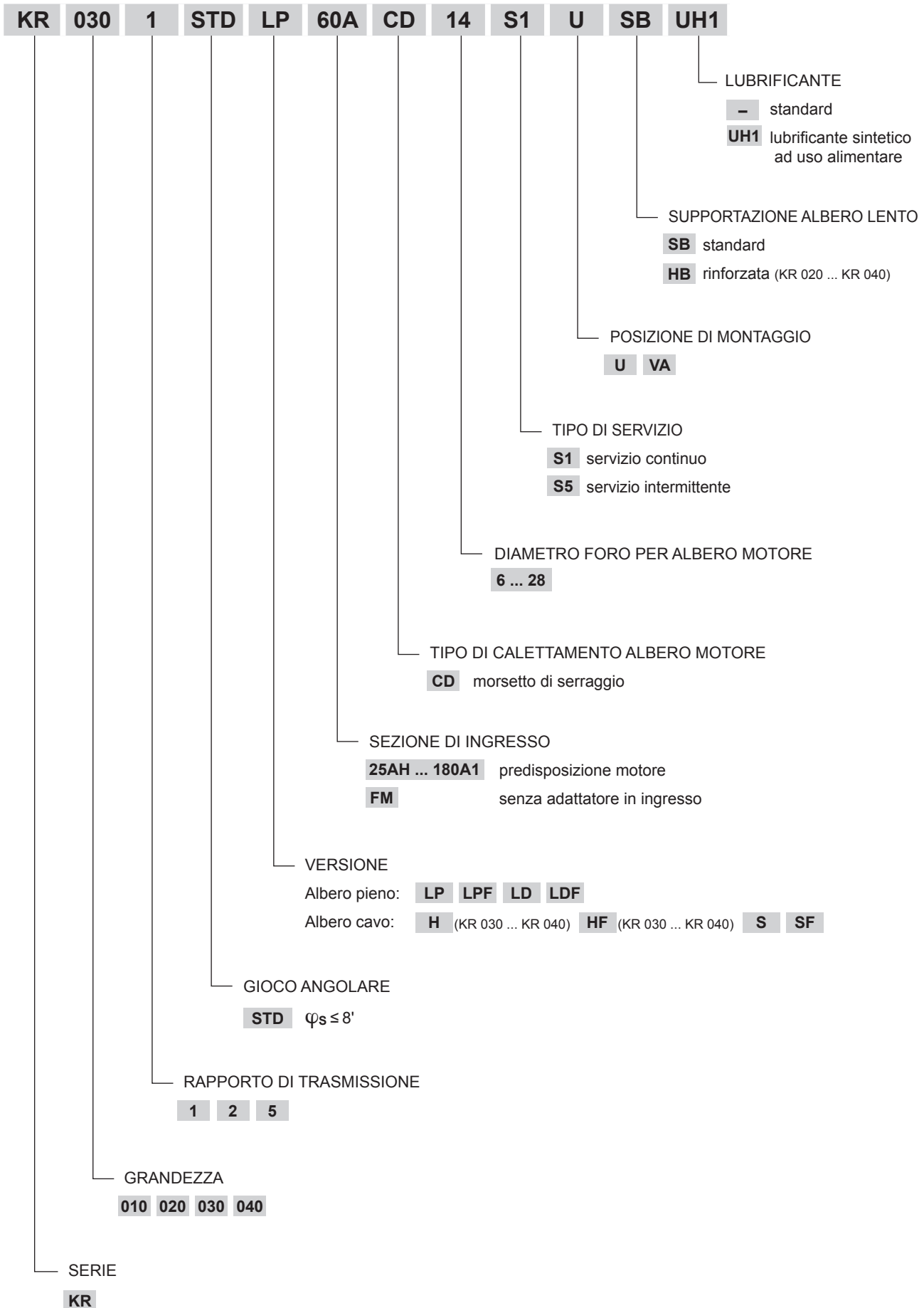
U	VA
	

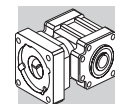
10.3 ROTAZIONE DEGLI ALBERI D'INGRESSO E DI USCITA CONCORDE





10.4 CODICE ORDINATIVO





10.5 DATI TECNICI

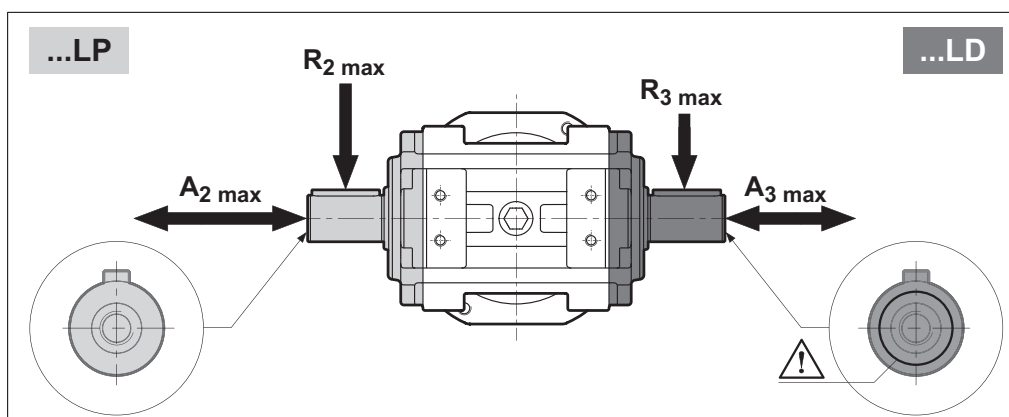
KR 010								
	M_{n2}	M_{a2}	M_{p2}	C_t	n_1	$n_{1\ max}$	φ_s	η
	[Nm]	[Nm]	[Nm]	$\left[\frac{Nm}{arcmin}\right]$	[min ⁻¹]	[min ⁻¹]	[arcmin]	%
i = 1	10	14	20	0.5	2000	4000	8'	97
i = 2	7	10	15	0.4	2500	5000		
i = 5	3	4	6	0.2	3000	5000		

KR 020								
	M_{n2}	M_{a2}	M_{p2}	C_t	n_1	$n_{1\ max}$	φ_s	η
	[Nm]	[Nm]	[Nm]	$\left[\frac{Nm}{arcmin}\right]$	[min ⁻¹]	[min ⁻¹]	[arcmin]	%
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		

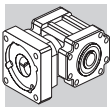
KR 030								
	M_{n2}	M_{a2}	M_{p2}	C_t	n_1	$n_{1\ max}$	φ_s	η
	[Nm]	[Nm]	[Nm]	$\left[\frac{Nm}{arcmin}\right]$	[min ⁻¹]	[min ⁻¹]	[arcmin]	%
i = 1	55	75	110	4	1500	3500	8'	97
i = 2	37	52	75	3	2000	4500		
i = 5	22	29	45	2	2800	4500		

KR 040								
	M_{n2}	M_{a2}	M_{p2}	C_t	n_1	$n_{1\ max}$	φ_s	η
	[Nm]	[Nm]	[Nm]	$\left[\frac{Nm}{arcmin}\right]$	[min ⁻¹]	[min ⁻¹]	[arcmin]	%
i = 1	120	170	240	11	1500	3500	8'	97
i = 2	85	120	170	9	2000	4500		
i = 5	45	60	90	5	2500	4500		

I valori di rigidezza torsionale si riferiscono alla versione LP



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



10.6 MOMENTO D'INERZIA

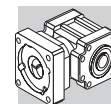
10.6.1 KR 010...KR 040 con cuscinetti standard a sfere - SB

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

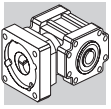


10.6.2 KR 020...KR 040 con cuscinetti a rulli conici - HB

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

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

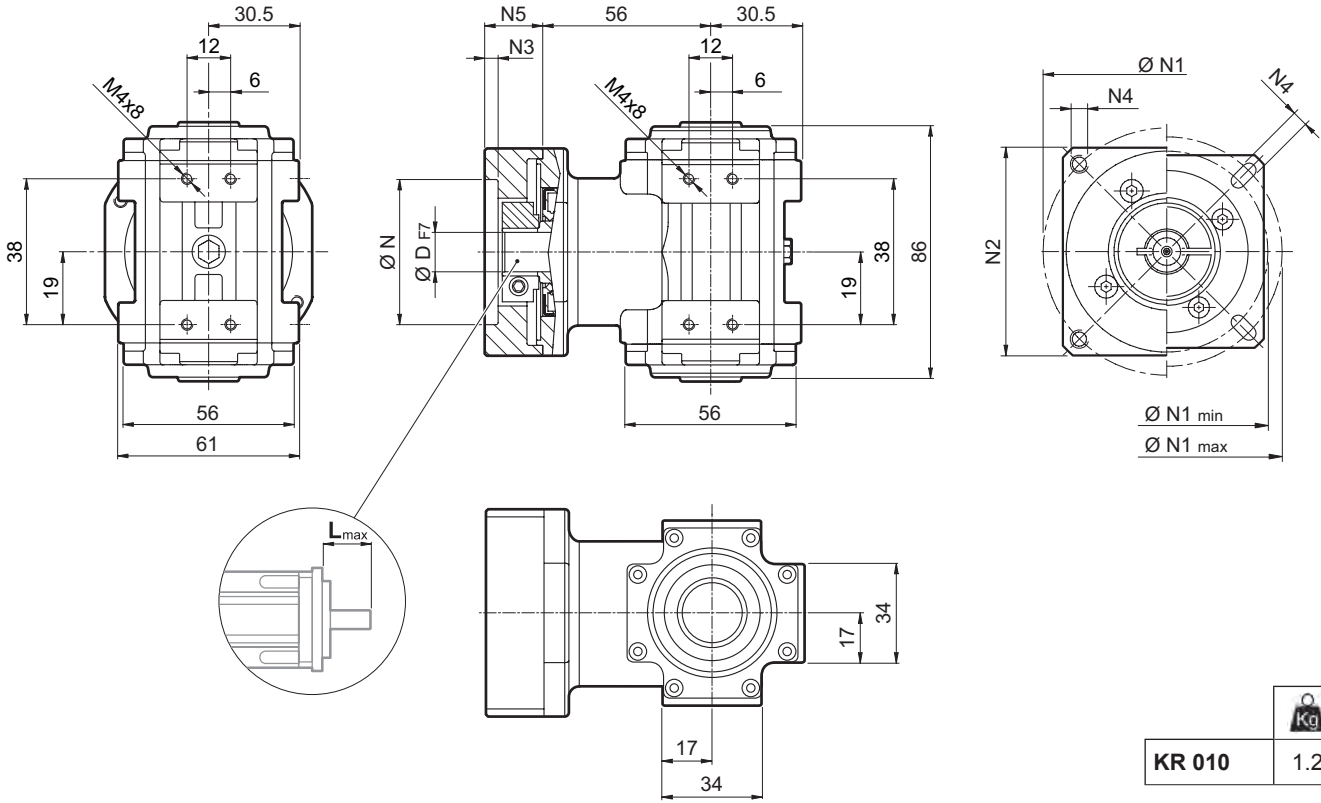
KR 040				
		J _G [kgcm ²]		
		D		
HB 		14 ≤ D ≤ 19	22 ≤ D ≤ 24	D = 28
i = 1	H, HF	18.82	19.01	19.41
	S, SF	22.10	22.28	22.69
	LP, LPF	19.85	20.04	20.44
	LD, LDF	20.53	20.72	21.12
i = 2	H, HF	4.88	5.06	5.47
	S, SF	5.70	6.28	6.28
	LP, LPF	5.13	5.72	5.72
	LD, LDF	5.31	5.89	5.89
i = 5	H, HF	5.30	5.48	5.89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



10.7 DIMENSIONI

KR 010

25AH ... 80A

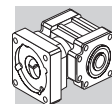


	KR 010
	1.2

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

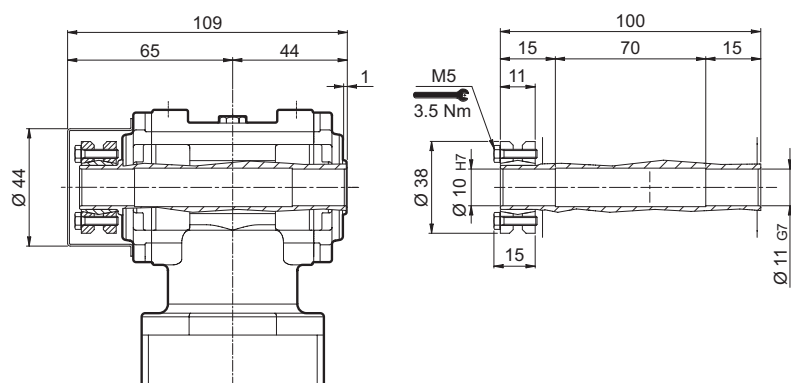
Contattateci per dimensioni di alberi motore e flange non presenti a catalogo.

KR

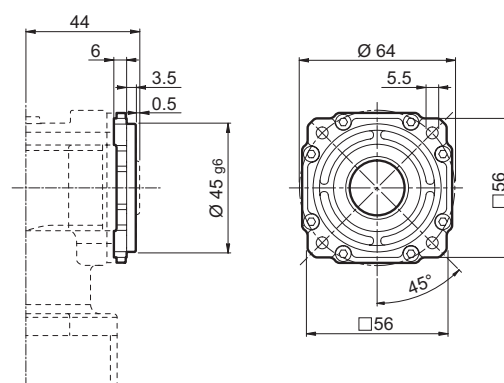


KR 010

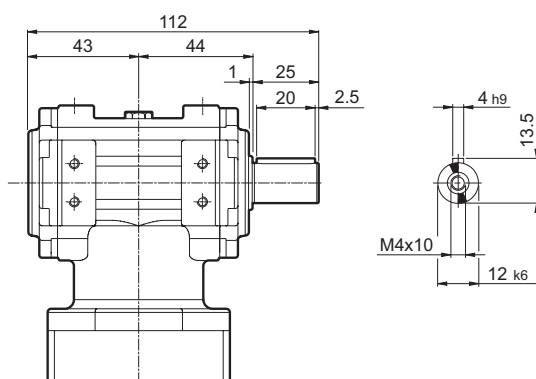
KR 010... S



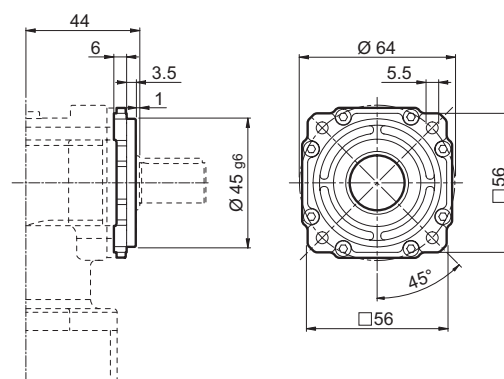
KR 010... SF



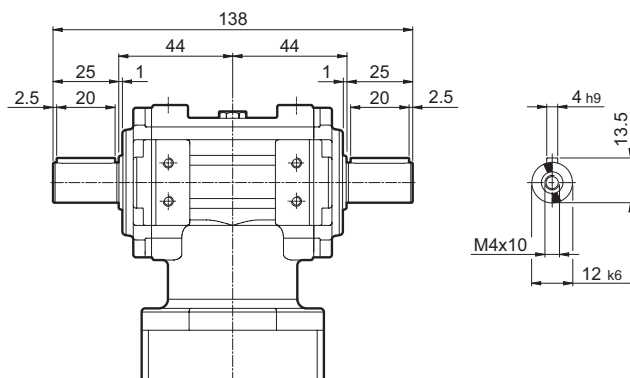
KR 010... LP



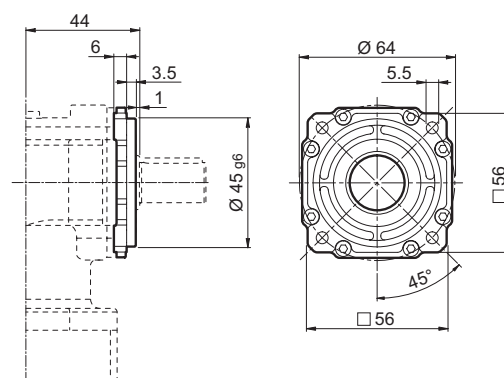
KR 010... LPF

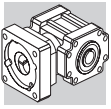


KR 010... LD



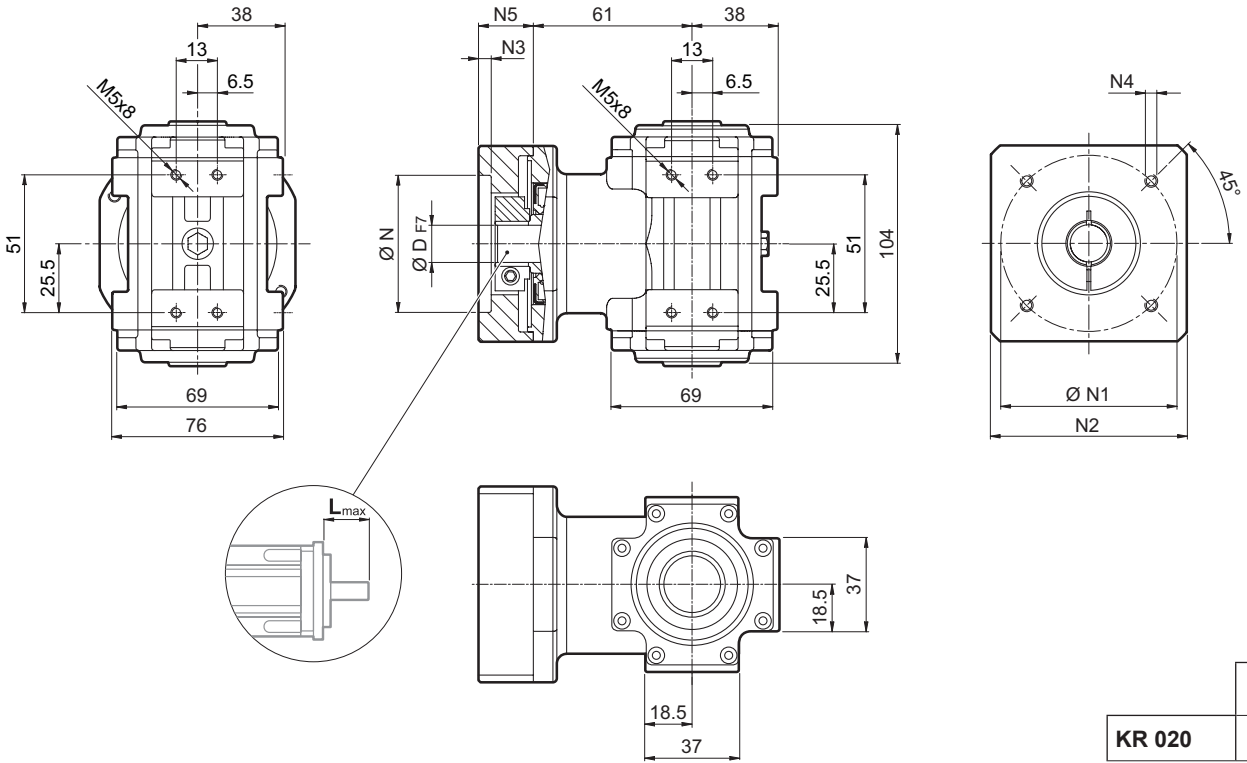
KR 010... LDF





KR 020

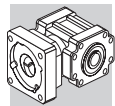
40B1 ... 110B1



	KR 020	2.6
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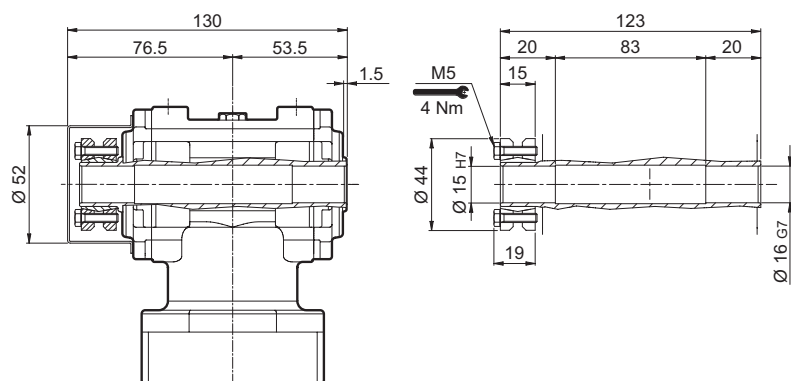
												N	N1	N2	N3	N4	N5	L _{max}	
40B1	8	9	9.52	11	12	12.7	14	-	-	-	-	40	63	80	4	M4x10	34	40	
45A	8	9	9.52	11	12	12.7	-	-	-	-	-	45	63	80	4	M4x10	34	40	
50B1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	M5x16	34	40	
50BH1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	65	80	4	5.5	34	40	
50C1	8	9	9.52	11	12	12.7	14	-	-	-	-	50	70	80	4	M4x10	34	40	
50D	8	9	9.52	11	12	12.7	14	-	-	-	-	50	95	80	4	M6x10	34	40	
55A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	55.5	125.7	105	4	M6x16	34	40
60A2	8	9	9.52	11	12	12.7	14	-	-	-	-	60	75	80	4	M5x16	34	40	
60AH2	8	9	9.52	11	12	12.7	14	-	-	-	-	60	75	90	4	5.5	34	40	
60B1	8	9	9.52	11	12	12.7	14	15.875	16	-	-	60	85	80	4	M5x16	34	40	
60C1	8	9	9.52	11	12	12.7	14	15.875	16	-	-	60	90	80	4	M5x16	34	40	
70A1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	70	85	80	4	M6x20	34	40
70AH1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	70	85	90	4	6.5	34	40
70B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	70	90	80	4	M5x16	34	40
73A1	8	9	9.52	11	12	12.7	14	-	-	-	-	73	98.4	85	4	M5x16	34	40	
80A1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	80	100	90	4	M6x16	34	40
95A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	95	115	100	4	M8x20	34	40
95B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	95	130	115	4	M8x20	34	40
110A	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	110	130	115	4	M8x20	34	40
110B	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	110	145	120	6.5	M8x20	44	50
110B1	8	9	9.52	11	12	12.7	14	15.875	16	17	19	19.05	110	145	120	6.5	M8x20	54	60

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

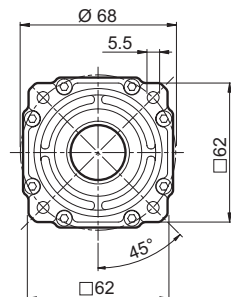


KR 020

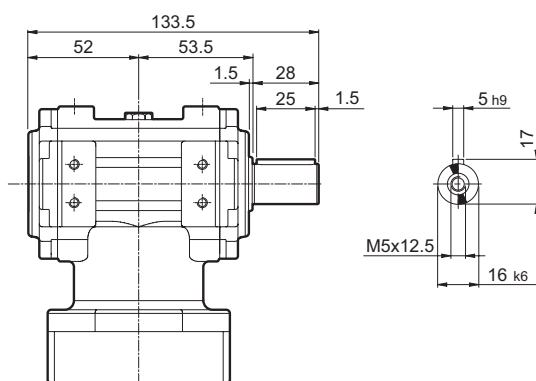
KR 020... S



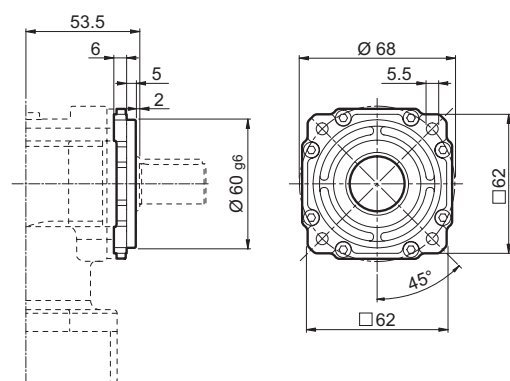
KR 020... SF



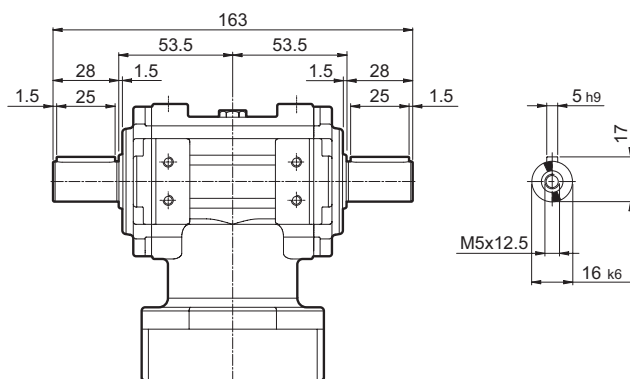
KR 020... LP



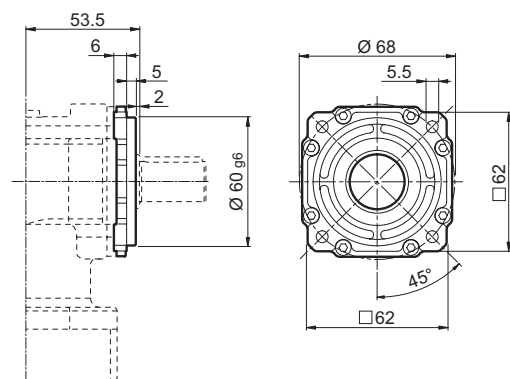
KR 020... LPF

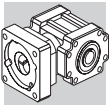


KR 020... LD



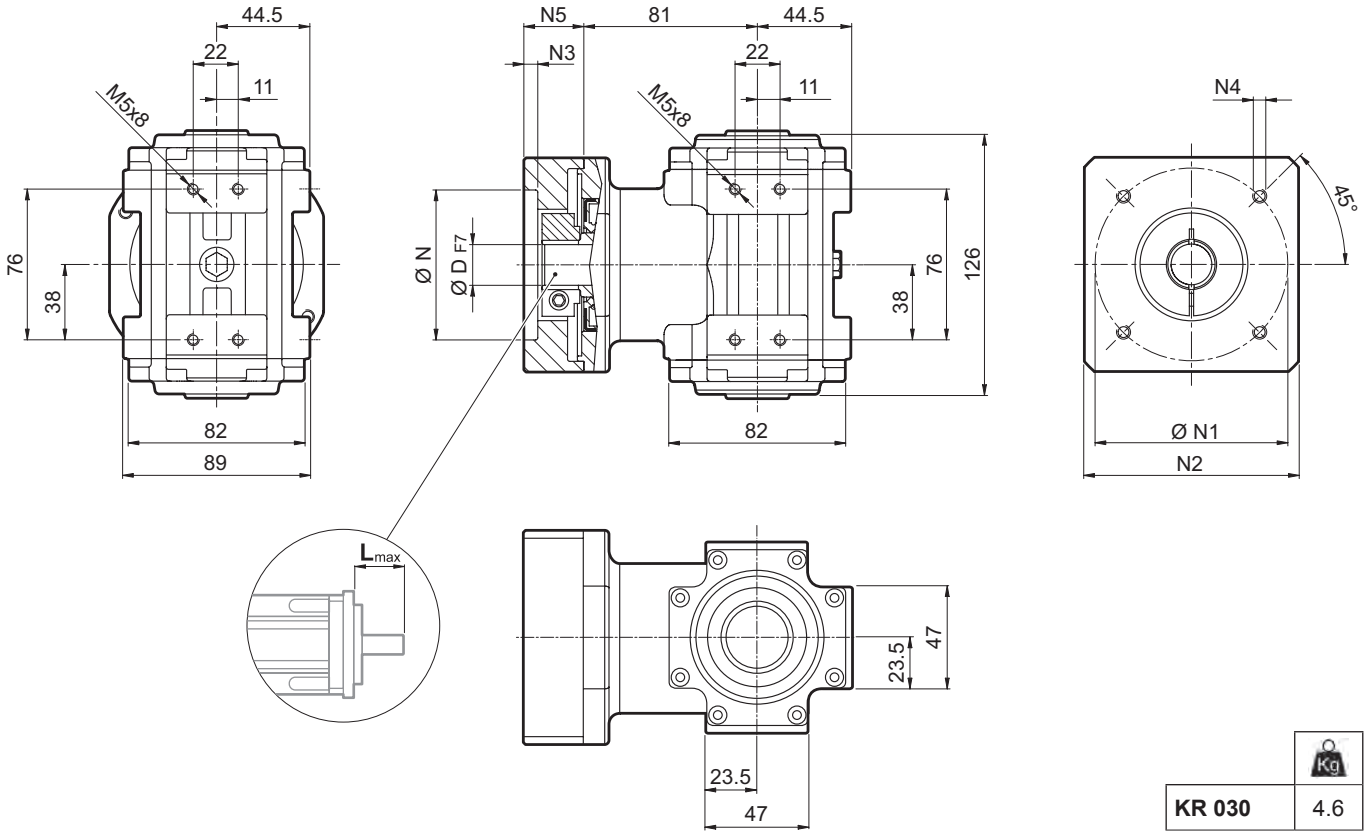
KR 020... LDF





KR 030

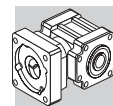
50D ... 130A1



	Kg
KR 030	4.6

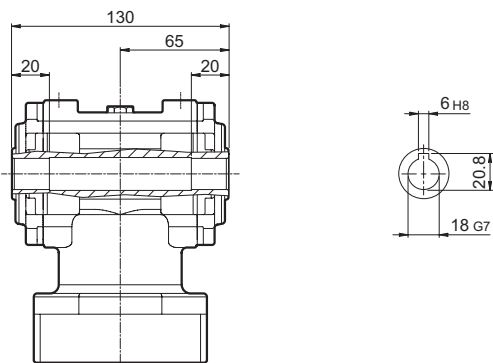
											N	N1	N2	N3	N4	N5	L _{max}
	11	12	12.7	14	15	15.875	16	19	-	-							
50D	11	12	12.7	14	15	15.875	16	19	-	-	50	95	100	5	M6x14	28	40
55A	11	12	12.7	14	15	15.875	16	19	-	-	55.5	125.7	105	5	M6x16	28	40
60A2	11	12	12.7	14	15	15.875	16	19	-	-	60	75	100	5	M5x14	28	40
60AH2	11	12	12.7	14	15	15.875	16	19	-	-	60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

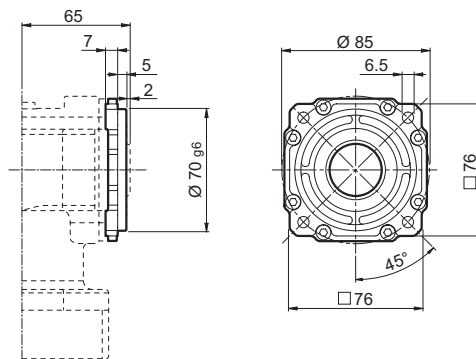


KR 030

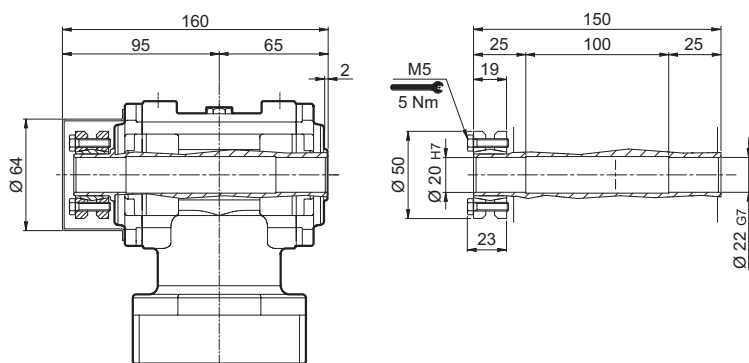
KR 030... H



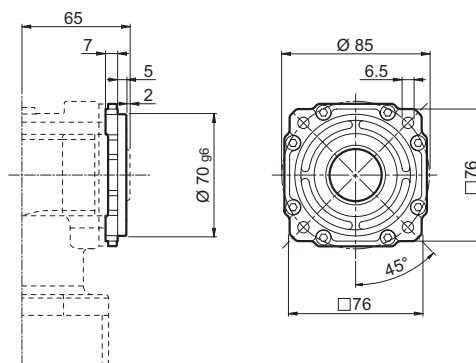
KR 030... HF



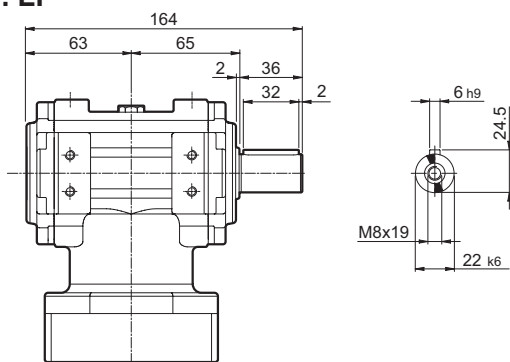
KR 030... S



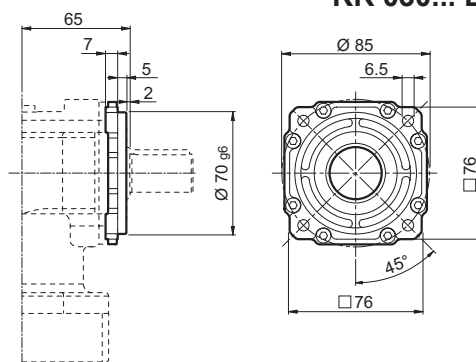
KR 030... SF



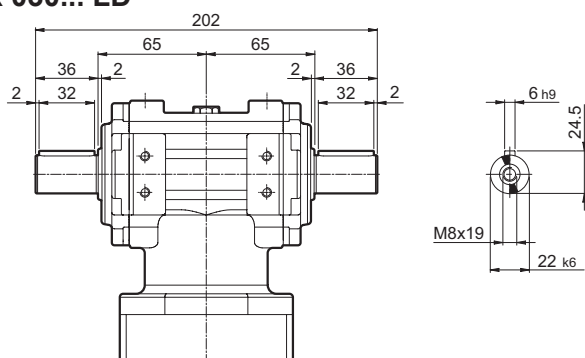
KR 030... LP



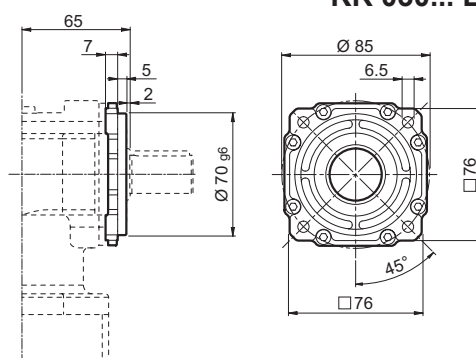
KR 030... LPF

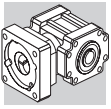


KR 030... LD



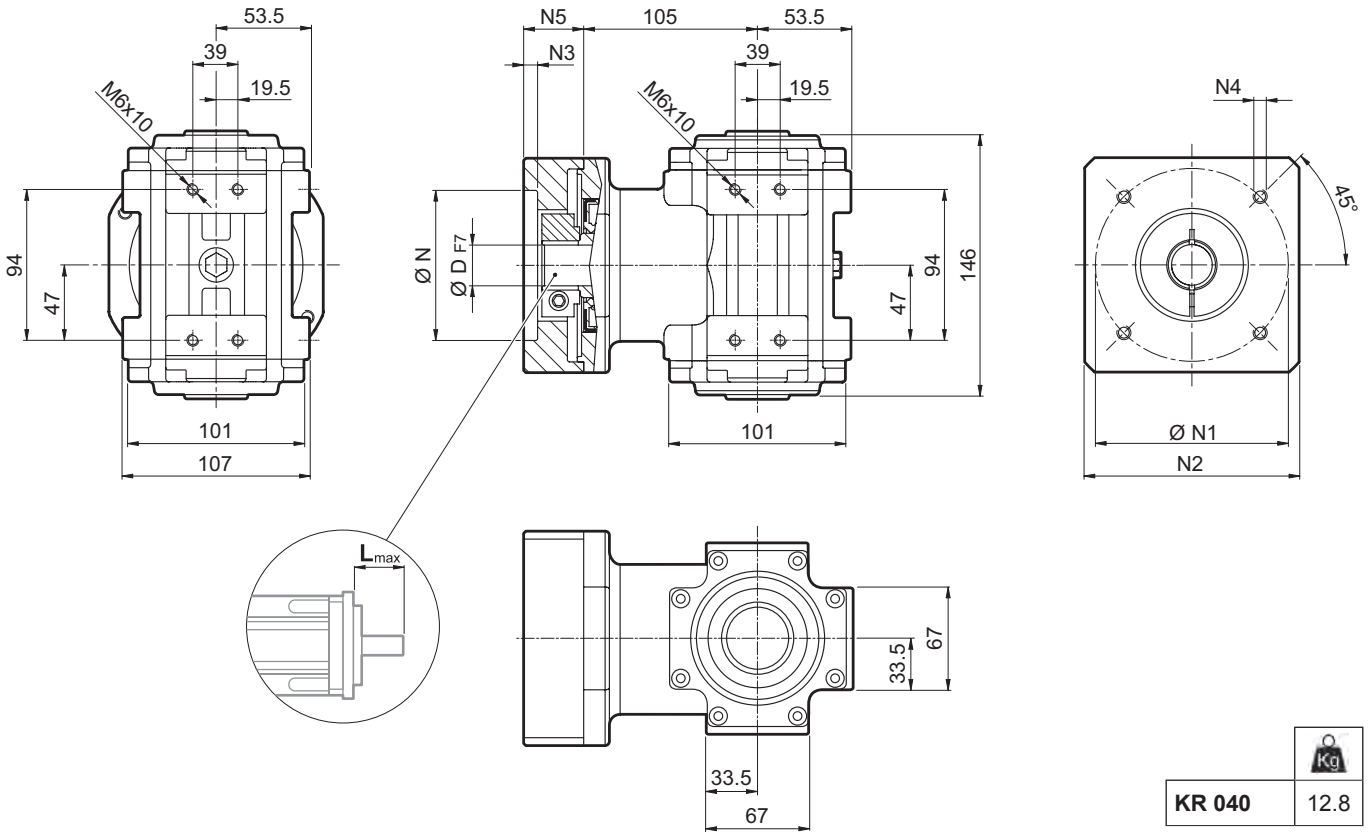
KR 030... LDF





KR 040

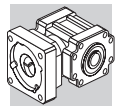
55A1 ... 180A1



KR 040	12.8
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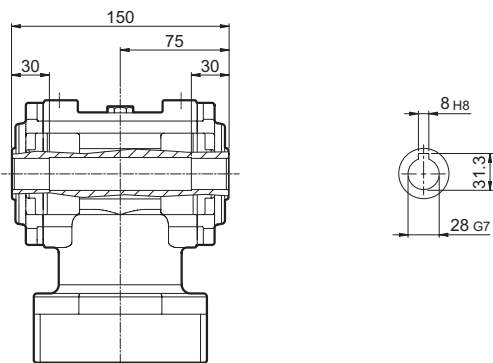
								N	N1	N2	N3	N4	N5	L _{max}
	D													
55A1	14	15.875	16	19	-	-	-	55.5	125.7	130	4	M6x15	39.5	50
80A2	14	15.875	16	19	-	-	-	80	100	130	4	M6x15	39.5	50
95A1	14	15.875	16	19	22	24	-	95	115	130	4	M8x20	39.5	50
110A1	14	15.875	16	19	22	24	-	110	130	130	4	M8x20	39.5	50
110B1	14	15.875	16	19	22	24	-	110	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.

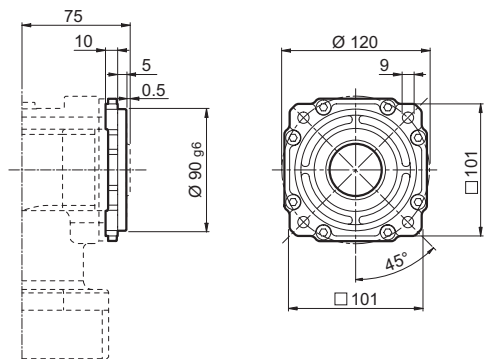


KR 040

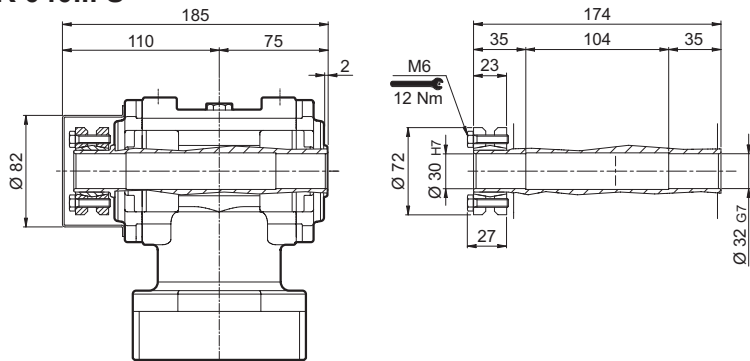
KR 040... H



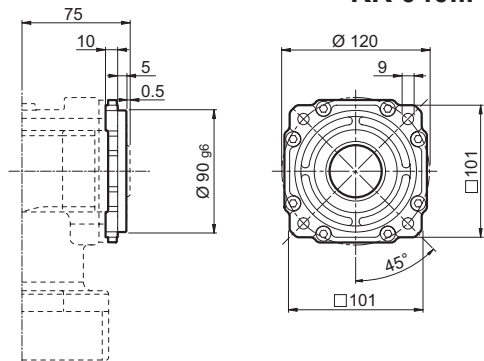
KR 040... HF



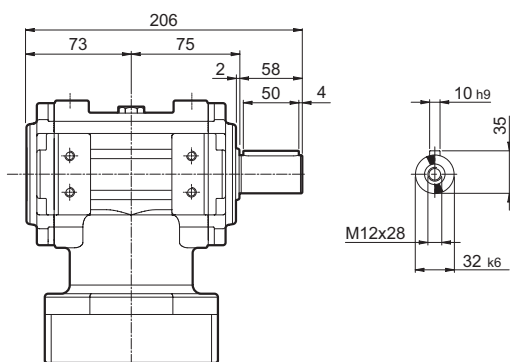
KR 040... S



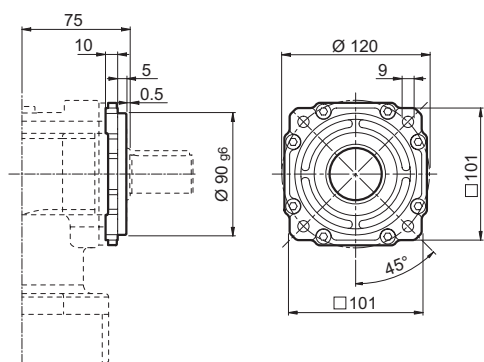
KR 040... SF



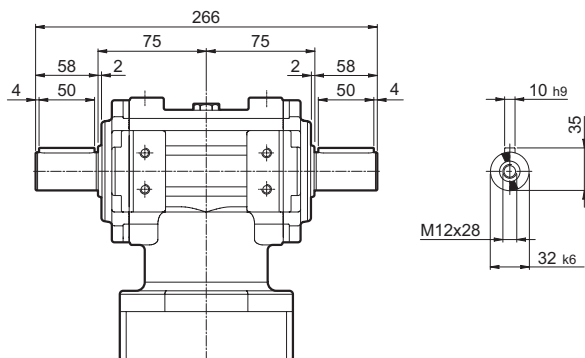
KR 040... LP



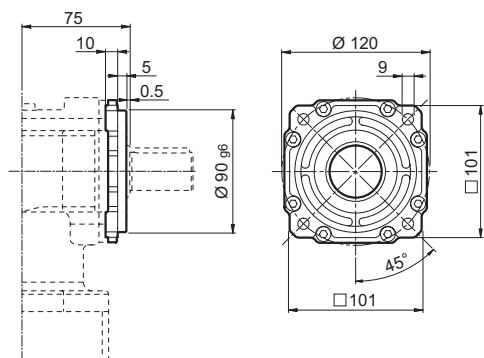
KR 040... LPF

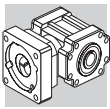


KR 040... LD



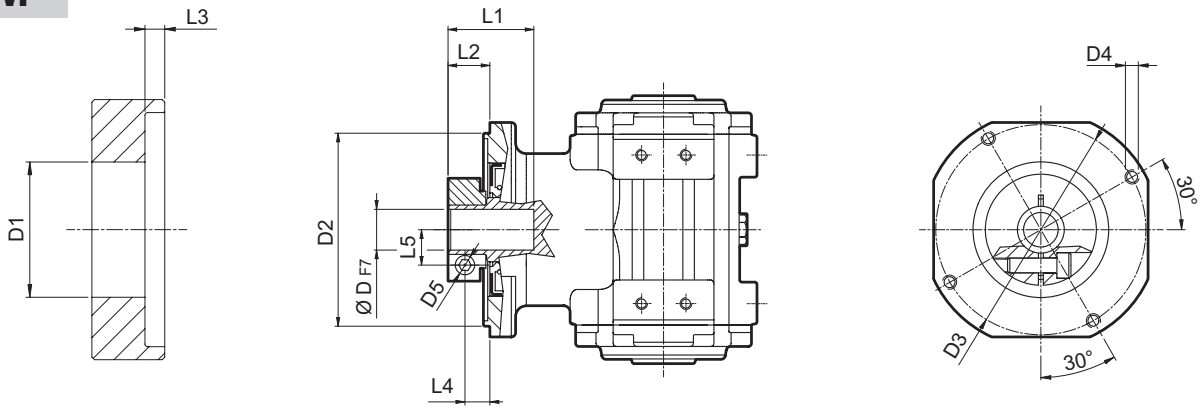
KR 040... LDF

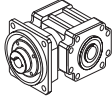




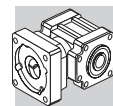


10.7.1 RIDUTTORE PRIVO DI FLANGIA MOTORE

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	

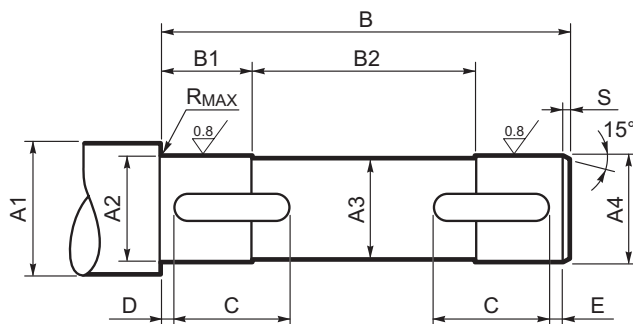


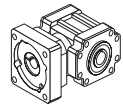

10.7.2 INDICAZIONI COSTRUTTIVE ALBERO MACCHINA CLIENTE

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.

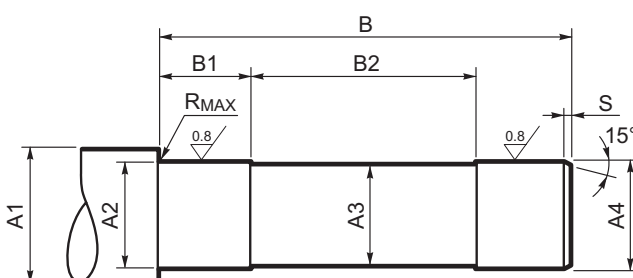
H

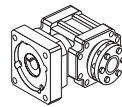


	A1	A2	A3	A4	B	B1	B2	C	D	E	R _{MAX}	 UNI 6604	S
KR 030	≥ 26	18 h7	17	18 h7	129	18	90	32	2	2	0.5	6x6x25 A	1
KR 040	≥ 36	28 h7	27	28 h7	149	28	90	50	2	2	0.5	8x7x35 A	1

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	



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	Descrizione
39...52	Aggiunta nuova serie TQF
...	Rivisti alcuni dati tecnici

2015 12 04

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