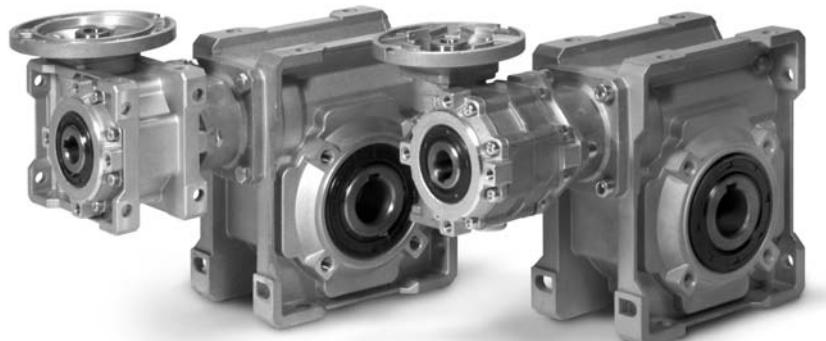


5.0 RIDUTTORI A VITE SENZA FINE COMBINATI

COMBINED WORM GEAR-BOXES

KOMBINIERTE-SCHNECKENGETRIEBE

5.1	Caratteristiche	<i>Characteristics</i>	Merkmale	78
5.2	Designazione	<i>Designation</i>	Bezeichnung	78
5.3	Lubrificazione e posizioni di montaggio	<i>Lubrication and mounting position</i>	Schmierung und Einbaulage	82
5.4	Dati tecnici	<i>Technical data</i>	Technische Daten	85
5.5	Dimensioni	<i>Dimensions</i>	Abmessungen	90
5.6	Limitatore di coppia cavo passante	<i>Torque limiter with through hollow shaft</i>	Drehmomentbegrenzer mit durchgehender Hohlwelle	96
5.7	Esecuzione con vite bispongente	<i>Double extended worm shaft design</i>	Versionen mit doppelseitig herausragender Schneckenwelle	98
5.8	Accessori	<i>Accessories</i>	Zubehör	99
5.9	Lista parti di ricambio	<i>Spare parts list</i>	Ersatzteilliste	100



XX

KX



KK



5.1 Caratteristiche

La combinazione di due riduttori a vite senza fine comporta rendimenti molto bassi, ma l'elevata riduzione di velocità ottenuta in uno spazio ridottissimo rende comunque interessante, e a volte insostituibile, questa soluzione. I riduttori a vite senza fine combinati sono disponibili nelle serie KX, XX e KK.

Le serie KX e KK sono disponibili esclusivamente nella versione p.a.m.

La serie XX è invece disponibile nella versione alberata XXA e nelle due versioni con predisposizione attacco motore in forma copatta XXC o con campana e giunto XXF.

Sono forniti con albero cavo di serie ed esiste un'ampia gamma di accessori: seconda entrata, cuscinetti conici sulla corona, flangia uscita, albero lento con 1 o 2 sporgenze, limitatore di coppia con cavo passante, braccio di reazione.

5.1 Characteristics

The combination of two worm gearboxes provides very low efficiency, however the fact that substantial reduction in speed can be obtained in an extremely reduced space makes this solution very interesting and sometimes irreplaceable. Combined worm gearboxes are available in series: KX, XX and KK.

The KX and KK series are available for IEC version only.

The XX series is available in the XXA version with shaft and in two versions with motor coupling: XXC (compact) and XXF (with bell and joint).

5.1 Merkmale

Die Kombination zweier Schneckengetriebe bringt sehr niedrigen Wirkungsgrad mit sich, es handelt sich jedoch um eine interessante und manchmal unersetzbare Lösung, weil hohe Drehzahlverringerung in einem beträchtlich reduzierten Raum erhalten werden kann. Kombinierte Schneckengetriebe sind in Serien erhältlich: KX, XX und KK.

Die Serien KX und KK sind nur mit IEC-Motoranbau verfügbar.

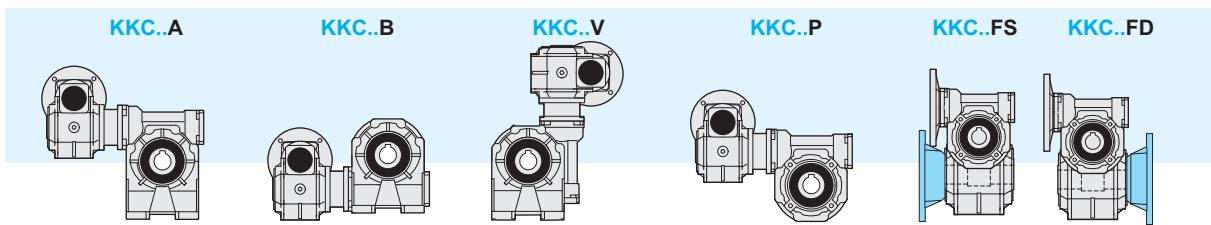
Die Serie XX ist mit Welle (XXA Version), oder mit Kupplung für Motoranschluss (XXC kompakt und XXF mit Glocke und Verbindsstück) lieferbar.

5.2 Designazione

5.2 Designation

5.2 Bezeichnung

Riduttore entrata Gearbox at input Getriebe am Eingang	Macchina uscita Gearbox at output Getriebe am Ausgang	Tipo entrata Input type Antriebsart	Grandezza Size Größe	Rapporto rid. Ratio Untersetzung	Predispos.att. mot. Motor coupling Motorschluss	Versone Version Version	Forma costruttiva Execution Bauform	Posizione di mont. Mounting position Einbaulage	Limitatore di coppia. Torque limiter Drehmomentbegrenzer	Seconda entrata Additional input Zusatzzentrale	Albero uscita Output shaft Abtriebswelle	Braccio di reazione Torque arm Drehmomentstütze
K K C 50/110 1200 P.A.M. F1 a B3 LD SeA1 H BR												
Riduttore a vite senza fine combinato Combined worm gearbox Doppelschneckengetriebe		C	30/30 30/40 30/50 30/63 40/63 40/75 40/90 50/75 50/90 50/110 63/110	150 200 300 450 600 900 1200 1500 1950 2500 3250 4000 5000 10000	56 63 71 80 90	ab cd ef gh A (1-2) ik B (1-2) im V (1-2) no pq	B3 B6 B7 B8 V5 V6	LD LS L1	SeA1 SeA2	H SD SS DD	BR	





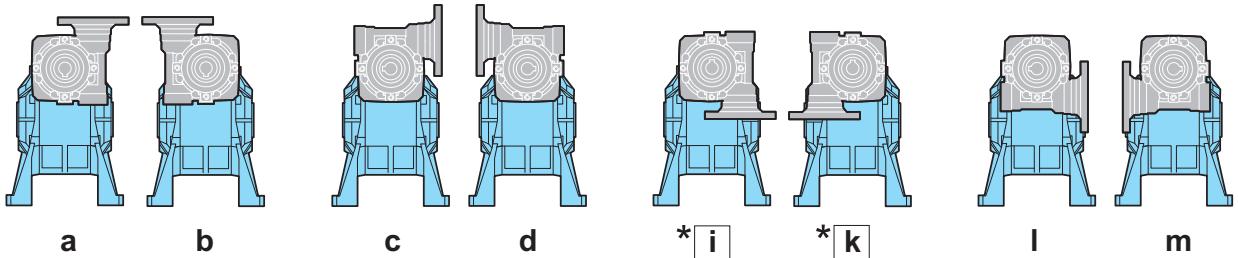
5.2 Designazione

5.2 Designation

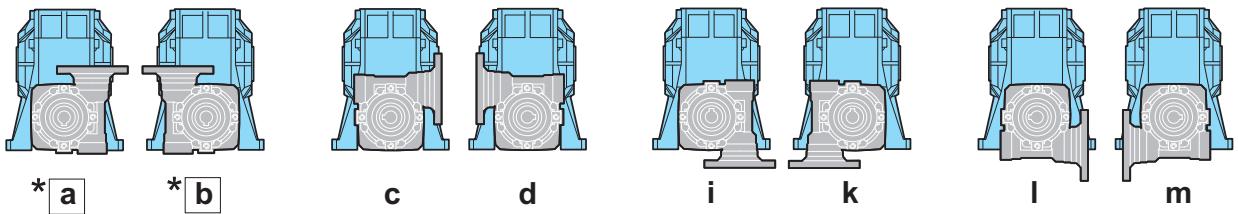
5.2 Bezeichnung

Forma costruttiva / version / Bauform

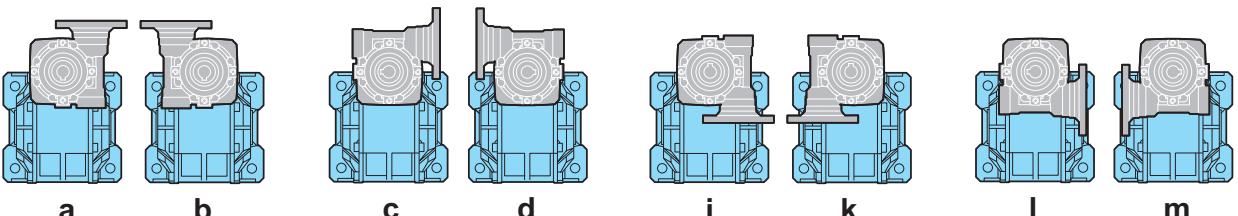
A



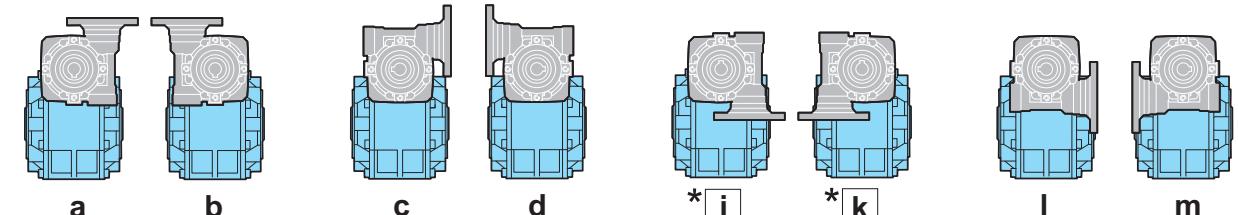
B



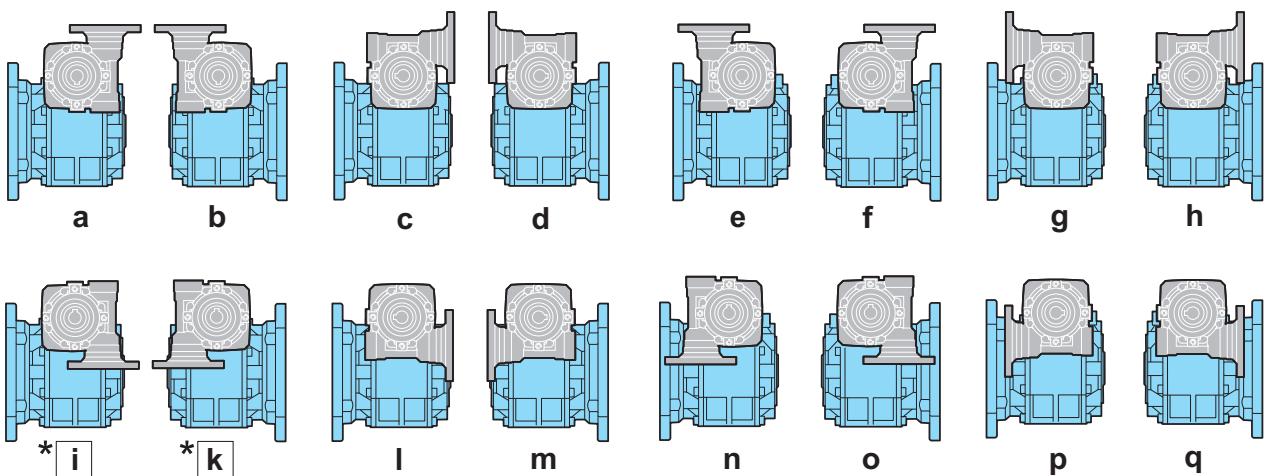
V



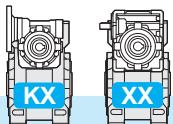
P



F



* Forma costruttiva non realizzabile su: / Version not feasible on: / Bauform nicht ausführbar für:
30/30, 30/40, 30/50 PAM 63B5 (\varnothing 140), 40/63 PAM 71B5 (\varnothing 160)



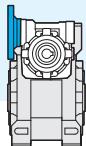
5.2 Designazione

5.2 Designation

5.2 Bezeichnung

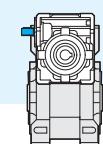
Riduttore a vite senza fine combinato Combined worm gearbox Doppelschneckengetriebe	Tipo entrata Input type Antriebsart	Grandezza Size Größe	Rapporto rid. Ratio Untersetzung	Predispos. att. mot. Motor coupling Motorschluss	Versone Version Version	Forma costruttiva Execution Bauform	Posizione di mont. Mounting position Einbaulage	Limitatore di coppia. Torque limiter Drehmomentbegrenzer	Seconda entrata Additional input Zusatzzantreib	Albero uscita Output shaft Antriebswelle	Braccio di reazione Torque arm Drehmomentstütze
K X C 50/110 1200 P.A.M. F1 a B3 LD SeA1 H BR	C	30/30 30/40 30/50 30/63 40/63 40/75 40/90 50/75 50/90 50/110 63/110	150 200 300 450 600 900 1200 1500 1950 2500 3250 4000 5000 10000	56 63 71 80 90	P (1-2-3)	ab cd ef gh ik lm no pq	B3 B6 B7 B8 V5 V6	LD LS L1	SeA1 SeA2	H SD SS DD	BR

KXC..

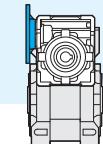


Riduttore a vite senza fine combinato Combined worm gearbox Doppelschneckengetriebe	Tipo entrata Input type Antriebsart	Grandezza Size Größe	Rapporto rid. Ratio Untersetzung	Predispos. att. mot. Motor coupling Motorschluss	Versone Version Version	Forma costruttiva Execution Bauform	Posizione di mont. Mounting position Einbaulage	Limitatore di coppia. Torque limiter Drehmomentbegrenzer	Seconda entrata Additional input Zusatzzantreib	Albero uscita Output shaft Antriebswelle	Braccio di reazione Torque arm Drehmomentstütze
X X C 50/110 1200 P.A.M. F1 a B3 LD SeA1 H BR	A C F	30/30 30/40 30/50 30/63 40/63 40/75 40/90 50/75 50/90 50/110 63/110	150 200 300 450 600 900 1200 1500 1950 2500 3250 4000 5000 10000	56 63 71 80 90	P (1-2-3)	ab cd ef gh ik lm no pq	B3 B6 B7 B8 V5 V6	LD LS L1	SeA1 SeA2	H SD SS DD	BR

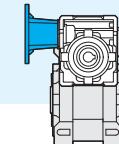
XXA..



XXC..



XXF..

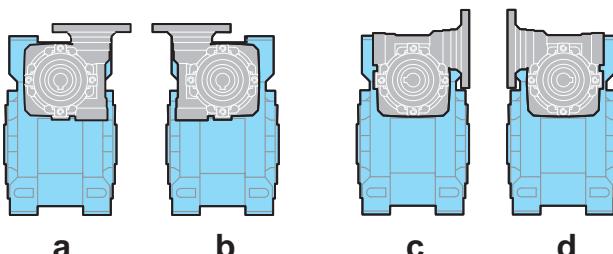


5.2 Designazione

5.2 Designation

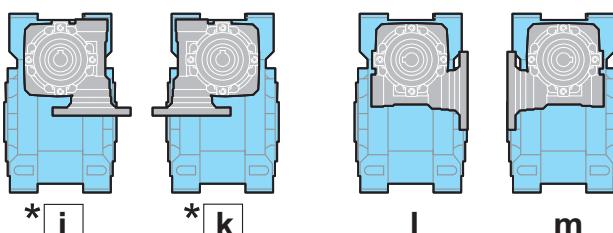
5.2 Bezeichnung

Forma costruttiva / version / Bauform



a b c d

P

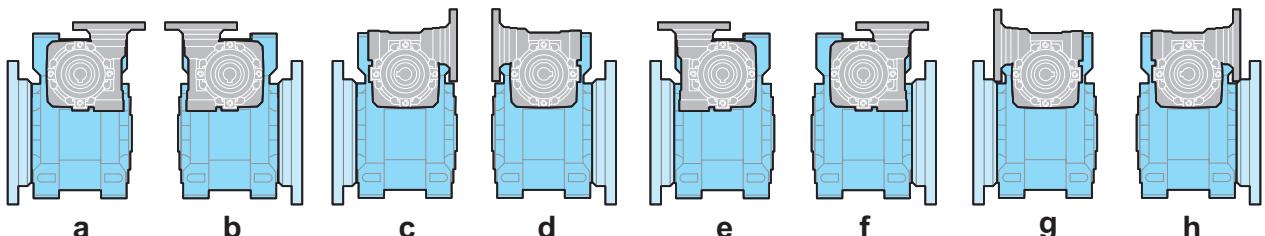


*i *k l m



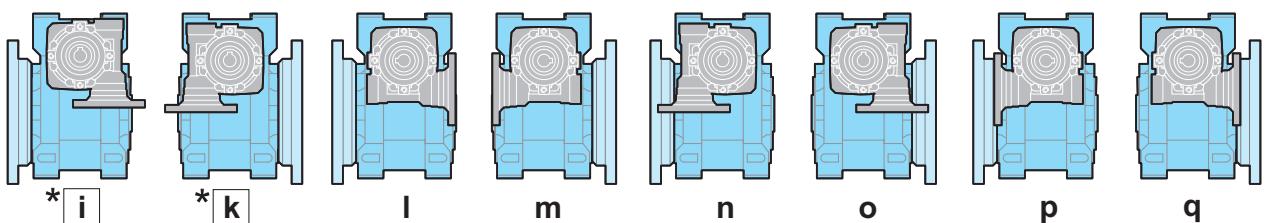
Forma costruttiva non realizzabile su:
Version not feasible on:
Bauform nicht ausführbar für:

30/30, 30/40, 30/50 PAM 63B5 (\varnothing 140)
40/63 PAM 71B5 (\varnothing 160)

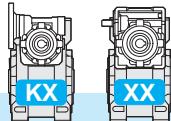


a b c d e f g h

F



*i *k l m n o p q



5.3 Lubrificazione e posizioni di montaggio

I riduttori a vite senza fine combinati sono forniti completi di lubrificante sintetico.

Si raccomanda di precisare sempre in fase di ordine la forma costruttiva e la posizione di lavoro desiderata.

5.3 Lubrication and mounting position

Combined worm gearboxes are supplied with synthetic lubricant.

Always specify the version and the mounting position when ordering.

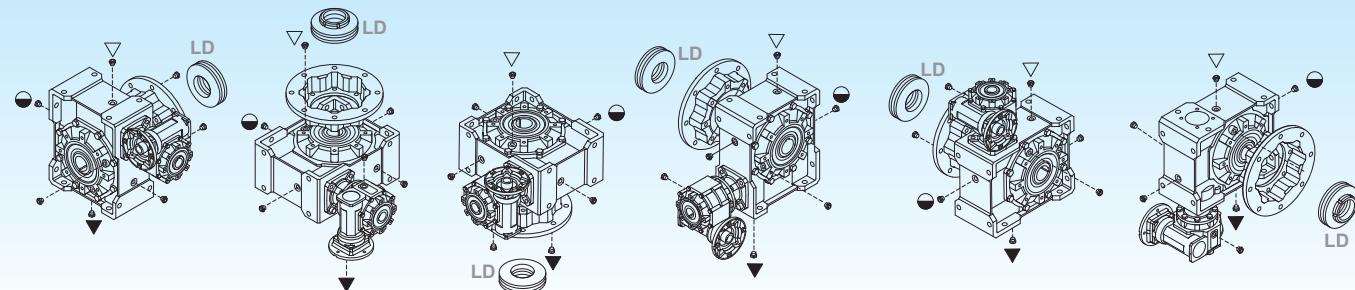
5.3 Schmierung und Einbaulage

Kombinierte Schneckengetriebe werden mit synthetischem Schmiermittel geliefert.

Im Auftrag sind immer Einbaulage und Bauform anzugeben.

F (b, d, f, h, k, m, o, q)

P (a, b, c, d, i, k, l, m)



B3

B6

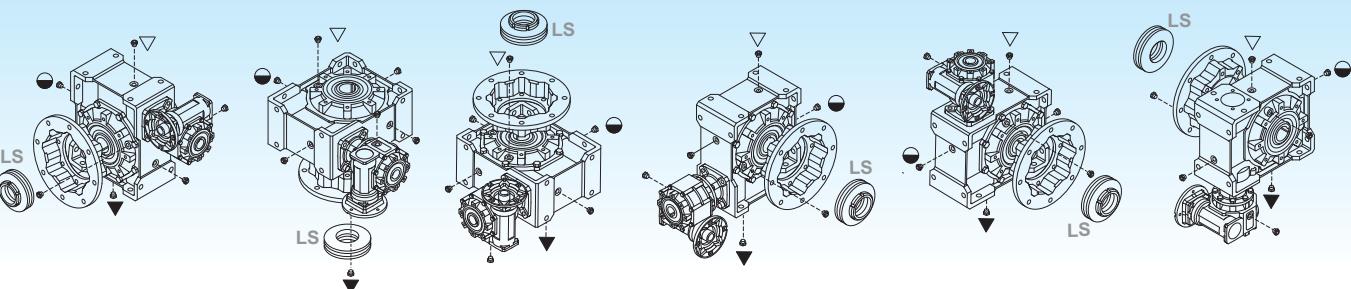
B7

B8

V5

V6

F (a, c, e, g, i, l, n, p)



B3

B6

B7

B8

V5

V6

Carico e sfiato / Filling and breather

Einfüll und Entlüftung

Livello / Level / Ölstand

Scarico / Drain / Ablass

Nei corpi in alluminio 30, 40, 50, 63, 75 è presente un solo tappo di riempimento olio.

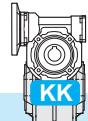
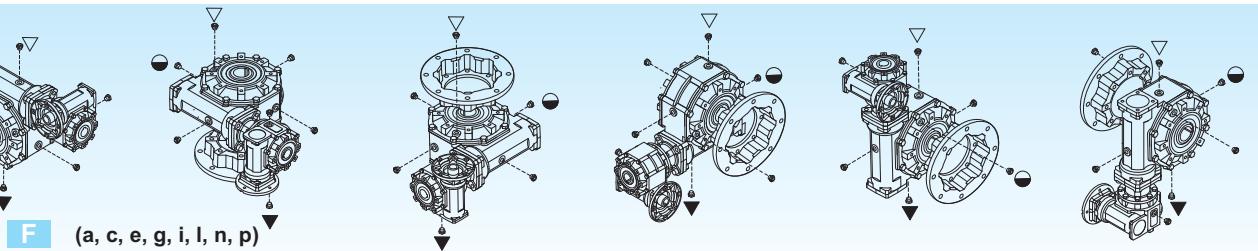
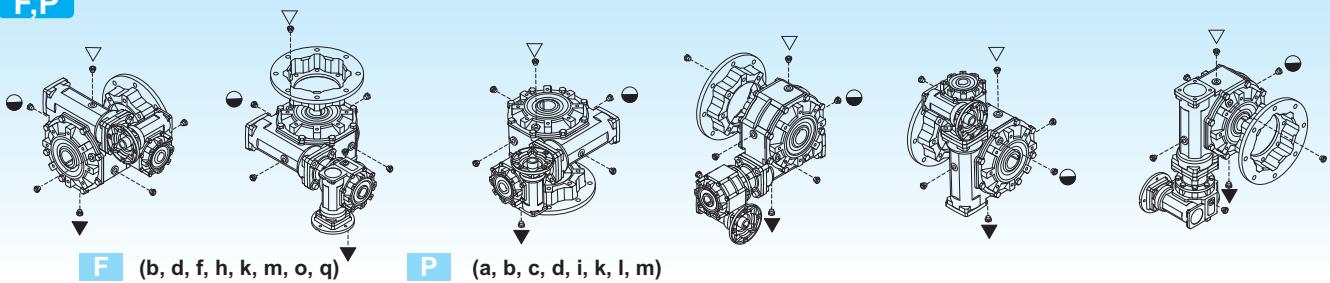
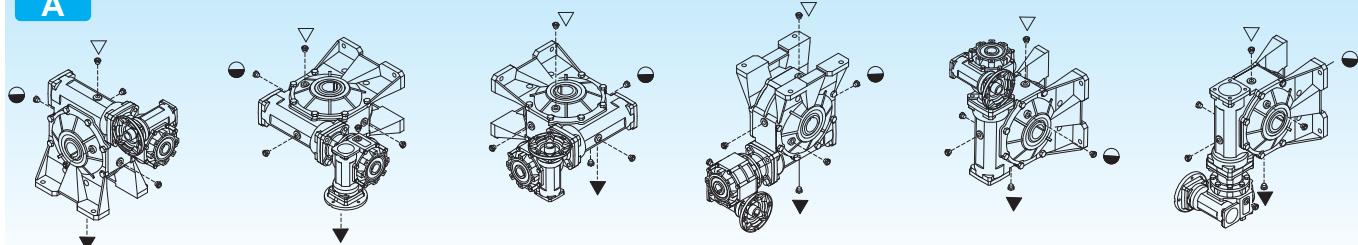
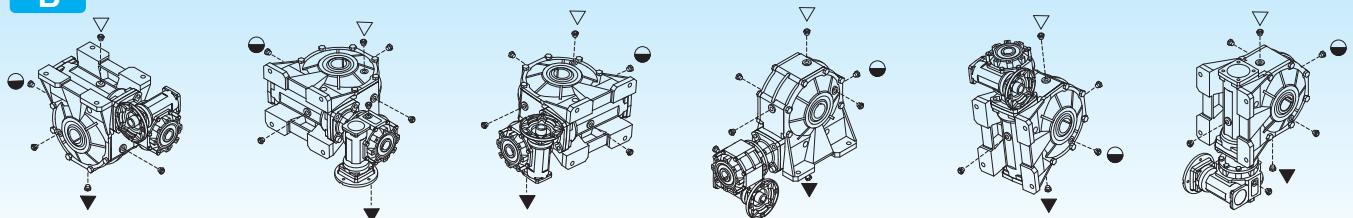
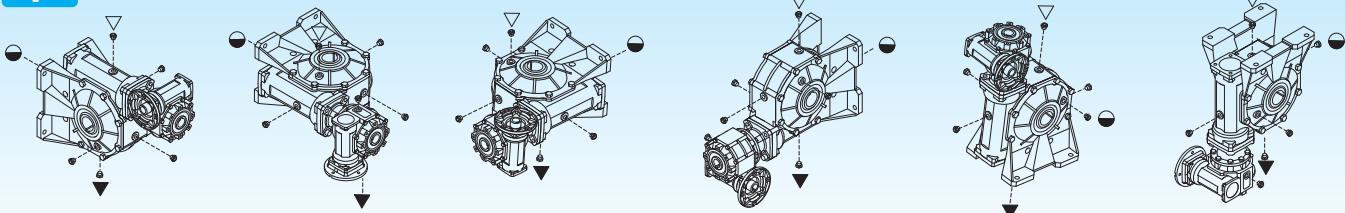
30, 40, 50, 63 and 75 aluminium housings have one oil filling plug only.

30, 40, 50, 63 und 75 Aluminiumgehäuse verfügen über 1 Einfüllschraube.

Posizioni di montaggio Mounting positions	Q.tà olio / Oil quantity / Schmiermittelmenge [lt]										
	XXA - XXC - KXC - XXF										
	30/30	30/40	30/50	30/63	40/63	40/75	40/90	50/75	50/90	50/110	63/110
B3	IN	0.015				0.04			0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	1.1	0.26	1.1	2.2
B6	IN	0.015				0.04			0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	0.9	0.26	0.9	1.8
B7	IN	0.015				0.04			0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	0.9	0.26	0.9	1.8
B8	IN	0.015				0.04			0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	0.8	0.26	0.8	1.6
V5	IN	0.015				0.04			0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	1.2	0.26	1.2	2.4
V6	IN	0.015				0.04			0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	1.2	0.26	1.2	2.4

IN = Riduttore entrata / Gearbox at input / Getriebe am Antrieb

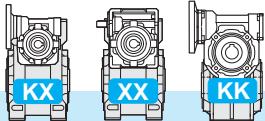
OUT = Riduttore uscita / Gearbox at output / Getriebe am Abtrieb


F,P

A

B

V

B3
B6
B7
B8
V5
V6

Posizioni di montaggio Mounting positions Einbaulage		Q.tà olio / Oil quantity / Schmiermittelmenge [lt]										
		Combinato tipo : KKC										
		30/30	30/40	30/50	30/63	40/63	40/75	40/90	50/75	50/90	50/110	63/110
B3	IN	0.015				0.04				0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	1.1	0.26	1.1	2.4	2.4
B6	IN	0.015				0.04				0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	0.9	0.26	0.9	2	2
B7	IN	0.015				0.04				0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	0.9	0.26	0.9	2	2
B8	IN	0.015				0.04				0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	1.3	0.26	1.3	2.38	2.8
V5	IN	0.015				0.04				0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	1.2	0.26	1.2	2.7	2.7
V6	IN	0.015				0.04				0.08		0.16
	OUT	0.015	0.04	0.08	0.16	0.16	0.26	1.2	0.26	1.2	2.7	2.7

IN = Riduttore entrata / Gearbox at input / Getriebe am Antrieb

OUT = Riduttore uscita / Gearbox at output / Getriebe am Abtrieb



Posizione morsettiera

Terminal board position

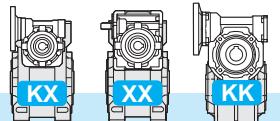
Lage der Klemmenkaste

B3 	B6 	B7
B8 	V5 	V6

Specificare sempre in fase di ordinazione la posizione di montaggio e la forma costruttiva.

Specify the version and the mounting position when ordering.

Bei der Bestellung immer die gewünschte Montageposition und Bauform angeben.



5.4 Dati tecnici

5.4 Technical data

5.4 Technische Daten

30/30	n₁ = 1400			KXC - XXC - XXF - KKC									XXA				
	i _n	30	30	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd	
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5/B14	B5	B14			
150		15	9.3	32	0.06	1.2									37	0.070	0.51
200		10	20	7.0	39	0.06	0.8								32	0.050	0.47
300				4.7	52*	0.06	0.8*								39	0.045	0.42
450		15		3.1	73*	0.06	0.5*								39	0.032	0.40
600		20		2.3	91*	0.06	0.4*								39	0.026	0.37
900		30		1.6	125*	0.06	0.3*								39	0.019	0.34
1200		40		1.2	149*	0.06	0.3*								39	0.016	0.30
1500		50		0.9	173*	0.06	0.2*								39	0.014	0.28
1950		65		0.7	209*	0.06	0.2*								39	0.011	0.26
2500		50		0.6	235*	0.06	0.1*								30	0.008	0.23
3250		65		0.4	283*	0.06	0.11*								30	0.006	0.21
4000		80		0.4	328*	0.06	0.09*								30	0.005	0.20
5000		100		0.3	385*	0.06	0.08*								30	0.005	0.19
10000				100	0.1	609*	0.06	0.03*							17	0.002	0.15

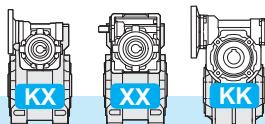
30/40	n₁ = 1400			KXC - XXC - XXF - KKC									XXA				
	i _n	30	40	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd	
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5/B14	B5	B14			
150		15	9.3	72	0.13	1.1									82	0.148	0.54
200		10	20	7.0	76	0.11	1.0								76	0.110	0.51
300				4.7	79	0.09	1.0								82	0.094	0.43
450		15		3.1	74	0.06	1.1								82	0.067	0.40
600		20		2.3	92	0.06	0.9								82	0.054	0.37
900		30		1.6	126*	0.06	0.6*								82	0.039	0.34
1200		40		1.2	151*	0.06	0.5*								82	0.033	0.31
1500		50		0.9	176*	0.06	0.5*								82	0.028	0.29
1950		65		0.7	212*	0.06	0.4*								82	0.023	0.27
2500		50		0.6	236*	0.06	0.3*								68	0.017	0.23
3250		65		0.4	285*	0.06	0.24*								68	0.014	0.21
4000		80		0.4	330*	0.06	0.21*								68	0.012	0.20
5000		100		0.3	387*	0.06	0.18*								68	0.011	0.19
10000				100	0.1	626*	0.06	0.06*							35	0.003	0.15

30/50	n₁ = 1400			KXC - XXC - XXF - KKC									XXA				
	i _n	30	50	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd	
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5/B14	B5	B14			
150		15	9.3	124	0.22	1.2									149	0.265	0.55
200		10	20	7.0	129	0.18	1.1								144	0.201	0.52
300				4.7	118	0.13	1.3								150	0.166	0.44
450		15		3.1	140	0.11	1.1								150	0.118	0.42
600		20		2.3	143	0.09	1.0								150	0.094	0.39
900		30		1.6	131	0.06	1.1								150	0.069	0.36
1200		40		1.2	156	0.06	1.0								150	0.058	0.32
1500		50		0.9	182	0.06	0.8								150	0.049	0.30
1950		65		0.7	220*	0.06	0.7*								150	0.041	0.28
2500		50		0.6	253*	0.06	0.5*								125	0.030	0.25
3250		65		0.4	305*	0.06	0.41*								125	0.025	0.23
4000		80		0.4	354*	0.06	0.35*								125	0.021	0.22
5000		100		0.3	414*	0.06	0.30*								125	0.018	0.20
10000				100	0.1	645*	0.06	0.11*							69	0.006	0.16

* ATTENZIONE: la coppia massima utilizzabile [T_{2M}] deve essere calcolata utilizzando il fattore di servizio: $T_{2M} = T_2 \times FS'$

* WARNING: Maximum admissible torque [T_{2M}] must be calculated using the following service factor: $T_{2M} = T_2 \times FS'$

* ACHTUNG: das max. anwendbare Drehmoment [T_{2M}] muss mit folgendem Betriebsfaktor berechnet werden: $T_{2M} = T_2 \times FS'$



5.4 Dati tecnici

5.4 Technical data

5.4 Technische Daten

30/63	n₁ = 1400			KXC - XXC - XXF - KKC										XXA		
	i _n	30	63	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5	B14			
	150	10	15	9.3	126	0.22	1.8	63	56	—	63	56	—	63	56	228 0.400 0.56 279 0.378 0.54 268 0.285 0.46 268 0.202 0.43 268 0.162 0.40 268 0.118 0.37 268 0.099 0.33 268 0.085 0.31 268 0.071 0.29 222 0.050 0.26
200	20	7.0	162	0.22	1.7											
300		4.7	207	0.22	1.3											
450	15	3.1	238	0.18	1.1											
600	20	2.3	215	0.13	1.2											
900	30	1.6	250	0.11	1.1											
1200	40	1.2	243	0.09	1.1											
1500	50	0.9	189	0.06	1.4											
1950	65	0.7	228	0.06	1.2											
2500	50	0.6	265	0.06	0.8											
3250	8.5	65	0.4	319*	0.06	0.70*	63	—	63	—	63	56	—	63	56	268 0.099 0.33 268 0.085 0.31 268 0.071 0.29 222 0.050 0.26 222 0.042 0.24
4000		80	0.4	369*	0.06	0.60*										
5000		100	0.3	433*	0.06	0.51*										
10000		100	0.1	663*	0.06	0.21*										

40/63	n₁ = 1400			KXC - XXC - XXF - KKC										XXA		
	i _n	40	63	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5	B14			
	150	10	15	9.3	214	0.37	1.2	71	63	—	71	63	56	71	63	—
200	20	7.0	277	0.37	1.0											
300		4.7	238	0.25	1.1											
450	15	3.1	244	0.18	1.1											
600	20	2.3	226	0.13	1.2											
900	30	1.6	257	0.11	1.0											
1200	40	1.2	264	0.09	1.0											
1500	50	0.9	203	0.06	1.3											
1950	65	0.7	241	0.06	1.1											
2500	50	0.6	284	0.06	0.8											
3250	9.5	65	0.4	338*	0.06	0.66*	56	—	56	—	56	—	—	—	—	
4000		80	0.4	400*	0.06	0.55*										
5000		100	0.3	471*	0.06	0.47*										
10000		100	0.1	722*	0.06	0.19*										

* ATTENZIONE: la coppia massima utilizzabile [T_{2M}] deve essere calcolata utilizzando il fattore di servizio: $T_{2M} = T_2 \times FS'$

* WARNING: Maximum admissible torque [T_{2M}] must be calculated using the following service factor : $T_{2M} = T_2 \times FS'$

* ACHTUNG: das max. anwendbare Drehmoment [T_{2M}] muss mit folgendem Betriebsfaktor berechnet werden: $T_{2M} = T_2 \times FS'$



5.4 Dati tecnici

5.4 Technical data

5.4 Technische Daten

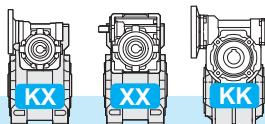
40/75 14.5	n₁ = 1400			KXC - XXC - XXF - KKC									XXA				
	i _n	40	75	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd	
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5	B14				
150		15	9.3	322	0.55	1.3									409	0.698	0.57
200		10	20	7.0	417	0.55	1.1								442	0.583	0.56
300				4.7	358	0.37	1.2	71	63	—	71	63	56	71	63	—	
450		15		3.1	346	0.25	1.2								418	0.432	0.47
600		20		2.3	390	0.22	1.1								418	0.302	0.45
900		30		1.6	309	0.13	1.4								418	0.236	0.43
1200		40		1.2	388	0.13	1.1								418	0.176	0.39
1500		50		0.9	379	0.11	1.1								418	0.140	0.36
1950		65		0.7	368	0.09	1.1								418	0.121	0.34
2500		50		0.6	296	0.06	1.3								418	0.102	0.31
3250		65		0.4	352	0.06	1.08								381	0.077	0.29
4000		80		0.4	417	0.06	0.91								381	0.065	0.26
5000		100		0.3	491*	0.06	0.78*								381	0.055	0.25
10000				100	0.1	762*	0.06								381	0.047	0.24
															232	0.018	0.19

50/75 16.5	n₁ = 1400			KXC - XXC - XXF - KKC									XXA				
	i _n	50	75	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd	
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5	B14				
150		15	9.3	409	0.75	1.0									409	0.750	0.57
200		10	20	7.0	422	0.55	1.0								442	0.576	0.56
300				4.7	363	0.37	1.2	80	71	—	80	71	63	80	71	—	
450		15		3.1	350	0.25	1.2								418	0.427	0.48
600		20		2.3	418	0.25	1.0								418	0.299	0.46
900		30		1.6	418	0.18	1.0								418	0.250	0.42
1200		40		1.2	406	0.13	1.0								418	0.180	0.40
1500		50		0.9	470	0.13	0.9								418	0.134	0.38
1950		65		0.7	572*	0.13	0.7*								418	0.116	0.35
2500		50		0.6	674*	0.13	0.6*								381	0.095	0.33
3250		65		0.4	819*	0.13	0.47*								381	0.074	0.30
4000		80		0.4	939*	0.13	0.41*								381	0.053	0.26
5000		100		0.3	1108*	0.13	0.34*								381	0.045	0.25
10000				100	0.1	1719*	0.13								232	0.018	0.19

* ATTENZIONE: la coppia massima utilizzabile [T_{2M}] deve essere calcolata utilizzando il fattore di servizio: T_{2M} = T₂ x FS'

* WARNING: Maximum admissible torque [T_{2M}] must be calculated using the following service factor : T_{2M} = T₂ x FS'

* ACHTUNG: das max. anwendbare Drehmoment [T_{2M}] muss mit folgendem Betriebsfaktor berechnet werden: T_{2M} = T₂ x FS'



5.4 Dati tecnici

5.4 Technical data

5.4 Technische Daten

40/90	n₁ = 1400			KXC - XXC - XXF - KKC										XXA		
	i _n	40	90	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF		B5		B14			
150	10	15	9.3	327	0.55	1.3	71	—	71	63	56	71	63	435	0.732	0.58
200		20	7.0	424	0.55	1.3								560	0.727	0.56
300			4.7	542	0.55	1.2								673	0.683	0.48
450	15		3.1	520	0.37	1.3								673	0.478	0.46
600	20		2.3	668	0.37	1.0								673	0.373	0.44
900	30		1.6	605	0.25	1.1								673	0.278	0.39
1200	40		1.2	668	0.22	1.0								673	0.221	0.37
1500	50		0.9	630	0.18	1.0								660	0.188	0.34
1950	65		0.7	542	0.13	1.1								620	0.149	0.31
2500	50		0.6	564	0.11	1.1								634	0.124	0.30
3250	65		0.4	549	0.09	1.15								634	0.104	0.28
4000	80		0.4	651	0.09	0.97								634	0.088	0.27
5000			0.3	767	0.09	0.83								634	0.074	0.25
10000	100		0.1	1173*	0.09	0.34*								401	0.031	0.19

50/90	n₁ = 1400			KXC - XXC - XXF - KKC										XXA		
	i _n	50	90	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF		B5		B14			
150	10	15	9.3	541	0.90	1.2	80	—	80	71	63	80	71	655	1.089	0.59
200		20	7.0	584	0.75	1.2								709	0.910	0.57
300			4.7	548	0.55	1.2								673	0.675	0.49
450	15		3.1	527	0.37	1.3								673	0.473	0.46
600	20		2.3	463	0.25	1.5								673	0.363	0.45
900	30		1.6	632	0.25	1.1								673	0.266	0.41
1200	40		1.2	573	0.18	1.2								673	0.212	0.39
1500	50		0.9	662	0.18	1.0								673	0.183	0.36
1950	65		0.7	582	0.13	1.2								673	0.150	0.34
2500	50		0.6	701	0.13	0.9								634	0.118	0.32
3250	65		0.4	853*	0.13	0.74*								634	0.097	0.30
4000	80		0.4	977*	0.13	0.65*								634	0.084	0.28
5000			0.3	1153*	0.13	0.55*								634	0.071	0.26
10000	100		0.1	1764*	0.13	0.23*								401	0.030	0.20

* ATTENZIONE: la coppia massima utilizzabile [T_{2M}] deve essere calcolata utilizzando il fattore di servizio: T_{2M} = T₂ x FS'

* WARNING: Maximum admissible torque [T_{2M}] must be calculated using the following service factor : T_{2M} = T₂ x FS'

* ACHTUNG: das max. anwendbare Drehmoment [T_{2M}] muss mit folgendem Betriebsfaktor berechnet werden: T_{2M} = T₂ x FS'

5.4 Dati tecnici
5.4 Technical data
5.4 Technische Daten

50/110	n₁ = 1400			KXC - XXC - XXF - KKC										XXA		
	i _n	50	110	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5	B14			
	150		15	9.3	557	0.9	1.4	80				—		785	1.269	0.60
49.0	200	10	20	7.0	712	0.9	1.4							1000	1.265	0.58
	300			4.7	928	0.9	1.3	71						1165	1.130	0.50
	450	15		3.1	1105	0.75	1.1							1165	0.791	0.48
	600	20		2.3	1054	0.55	1.1							1165	0.608	0.47
	900	30		1.6	968	0.37	1.2							1165	0.445	0.43
	1200	40		1.2	823	0.25	1.4							1165	0.354	0.40
	1500	50		0.9	952	0.25	1.2							1165	0.306	0.37
	1950	65		0.7	1018	0.22	1.1							1150	0.248	0.35
	2500	50		0.6	1009	0.18	1.1							1119	0.200	0.33
	3250	65		0.4	886	0.13	1.26							1119	0.164	0.31
'	4000	80		0.4	1015	0.13	1.10							1119	0.143	0.29
	5000		100	0.3	1198	0.13	0.93							1119	0.121	0.27
	10000		100	0.1	1854*	0.13	0.39*							727	0.051	0.21

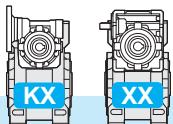
63/110	n₁ = 1400			KXC - XXC - XXF - KKC										XXA		
	i _n	63	110	n ₂	T ₂	P ₁	FS'	Input - IEC						T _{2M} [Nm]	P [kW]	Rd
		i ₁	i ₂	[min ⁻¹]	[Nm]	[kW]		KC - XC	XF			B5	B14			
	150		15	9.3	939	1.5	1.2	90						1123	1.793	0.61
52.0	200	10	20	7.0	1200	1.5	1.0							1229	1.536	0.59
	300			4.7	1148	1.1	1.0							1165	1.116	0.51
	450	15		3.1	1119	0.75	1.0							1165	0.781	0.49
	600	20		2.3	1081	0.55	1.1							1165	0.593	0.48
	900	30		1.6	995	0.37	1.2							1165	0.433	0.44
	1200	40		1.2	1165	0.37	1.0							1165	0.370	0.40
	1500	50		0.9	998	0.25	1.2							1165	0.292	0.39
	1950	65		0.7	1217	0.25	1.0							1165	0.239	0.37
	2500	50		0.6	1469	0.25	0.8							1119	0.190	0.34
	3250	65		0.4	1792*	0.25	0.62*							1119	0.156	0.32
'	4000	80		0.4	2097*	0.25	0.53*							1119	0.133	0.31
	5000		100	0.3	2395*	0.25	0.47*							1119	0.117	0.28
	10000		100	0.1	3706*	0.25	0.20*							727	0.049	0.22

* ATTENZIONE: la coppia massima utilizzabile [T_{2M}] deve essere calcolata utilizzando il fattore di servizio: $T_{2M} = T_2 \times FS'$

* WARNING: Maximum admissible torque [T_{2M}] must be calculated using the following service factor : $T_{2M} = T_2 \times FS'$

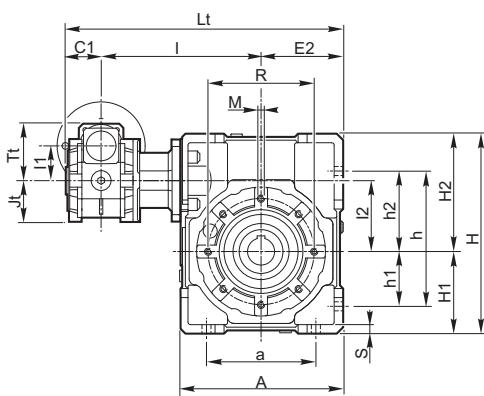
* ACHTUNG: das max. anwendbare Drehmoment [T_{2M}] muss mit folgendem Betriebsfaktor berechnet werden: $T_{2M} = T_2 \times FS'$



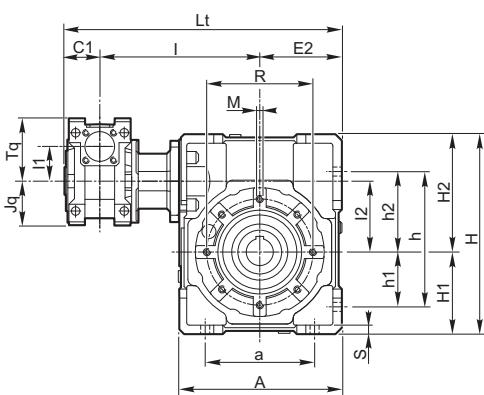


5.5 Dimensioni

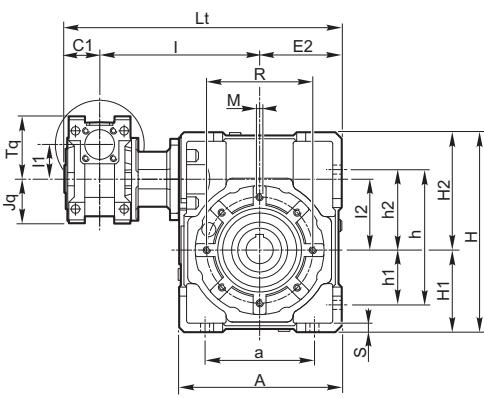
KXC



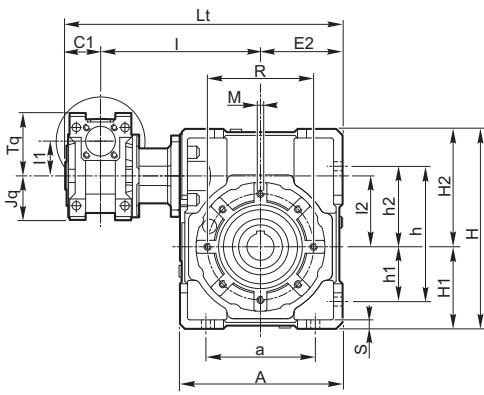
XXA



XXF

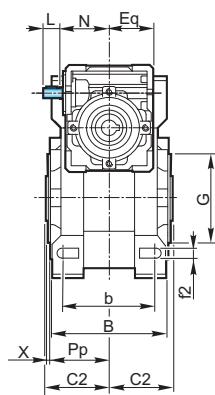
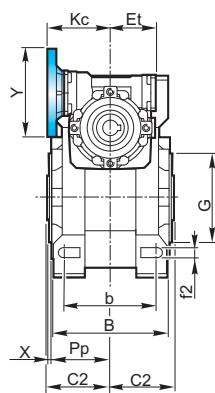


XXC

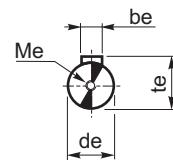


5.5 Dimensions

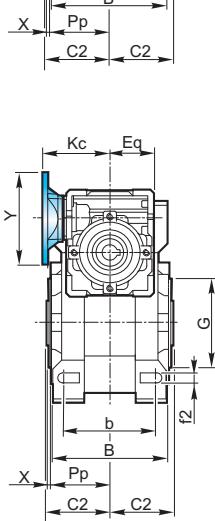
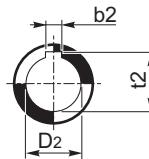
5.5 Abmessungen



Albero entrata
Input shaft
Antriebswelle



Albero uscita cavo
Output hollow shaft
Abtriebshohlwelle

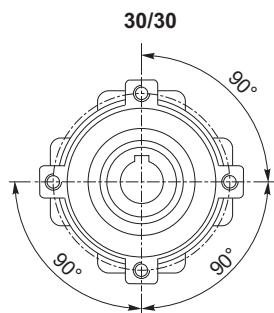


5.5 Dimensioni

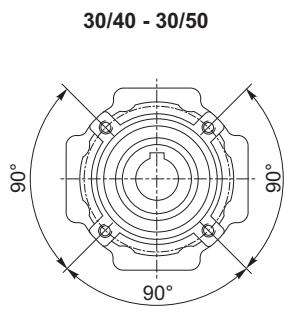
5.5 Dimensions

5.5 Abmessungen

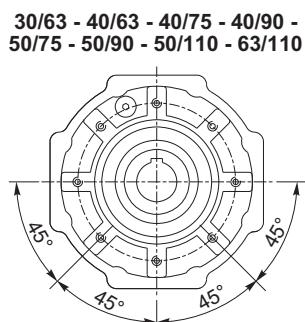
Flangia pendolare / Shaft-mounted flange / Aufsteckflansch



4 Fori / Holes / Bohrungen



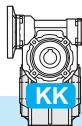
4 Fori / Holes / Bohrungen



8 Fori / Holes / Bohrungen

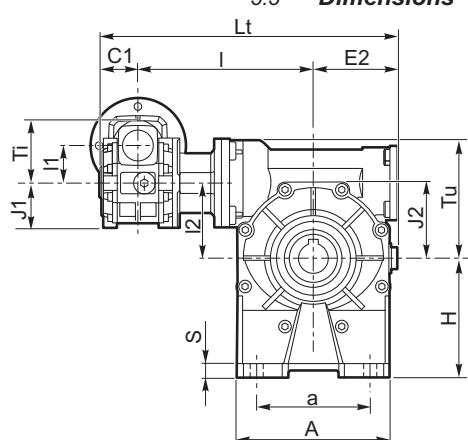
	KXC - XXXC - XXF -XXA																									
	a	A	b	be	b ₂		B	C ₁	C ₂	de	D ₂ H7		Et	Eq	E ₂	f ₂	G h8	h	h ₁	h ₂	H	H ₁	H ₂			
30/30	54	80	44		5	—	56		31.5		14	—			40	6.5	55	71	27	44	97	40	57			
30/40	70	105	60		6	6	71		31.5	39	18	19	41	40	50	6.5	60	90	35	55	125	50	75			
30/50	80	125	70			8	85		46			24			60	8.5	70	104	40	64	150	60	90			
30/63 40/63	100	147	85		8	—	103		56		25	—			72	9	80	130	50	80	182	72	110			
40/75 50/75	120	176	90		4			39		11			51	50												
					5	8	112		46	60	14	28	30		60	60	86	11	95	153	60	93	219.5	86	133.5	
40/90 50/90	140	203	100		4	10	—	130	39	70	11	35	—	51	50	103	13	110	172	70	102	248.5	103	145.5		
50/110 63/110	170	252.5	115		5	12	—	143	56	77.5	14	42	—	60	60	71	72	127.5	14	130	210	85	125	310.5	127.5	183

	KXC - XXXC - XXF -XXA																							
	I	I ₁	I ₂	Jt	Jq	K _c	K _q	L	L _t	M	Me	N	P _P	R	S	Tt	Tq	Te	t ₂	X				
30/30	100		31.5						171.5	M6x8			29	65	5.5				16.3	—	1.5			
30/40	122		31.5	40		40	57	57	15	203.5	M6x10	M4x10	44.5	36.5	75	6			20.8	21.8	1.5			
30/50	132			50					223.5	M8x10			43.5	85	7				27.3	1.5				
30/63	145				63				248.5	M8x14			53	95	8				28.3	—	2			
40/63	150			40		43.5	50	75	75	20	261	M4x12	57.5			68.5	75	12.5						
40/75	174.5				75		53.5	60	82	82	25	299.5	M8x14		57	115	10		82.5	90	16	31.3	33.3	2
50/75	190	50					53.5	60	82	82	25	322	M5x13	67.5										
40/90	184.5	40		90		43.5	50	75	75	20	326.5	M10x18	M4x12	57.5	67	130	12	68.5	75	12.2	38.3	—	2	
50/90	200			50		53.5	60	82	82	25	349		M5x13	67.5				82.5	90	16				
50/110	226				110		64	72	97	95	30	399.5	M8x20		74	165	14		100.5	110	21.5	45.3	—	2.5
63/110	236	63										M8x20	77.5											



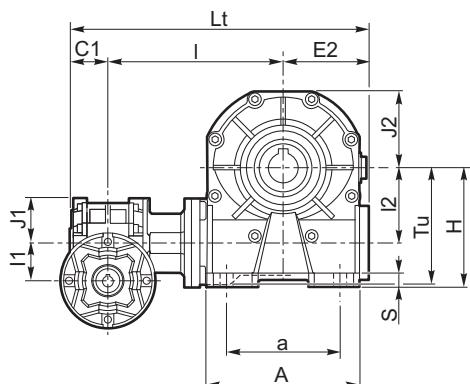
5.5 Dimensioni

5.5 Dimensions

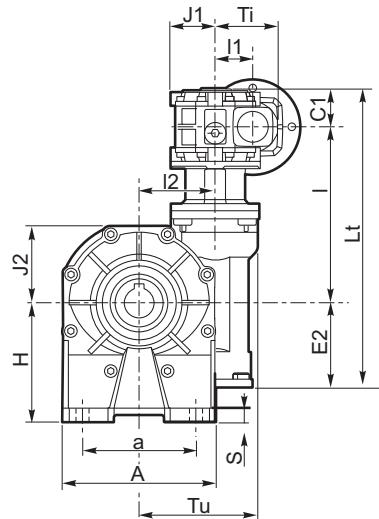


KKC_A

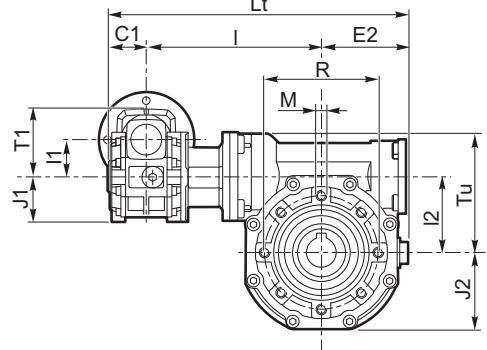
KKC_B



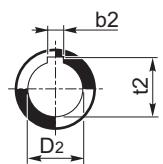
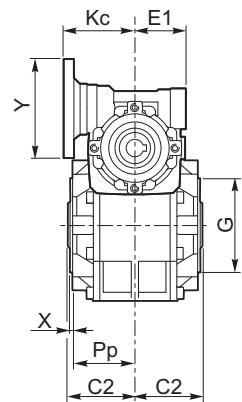
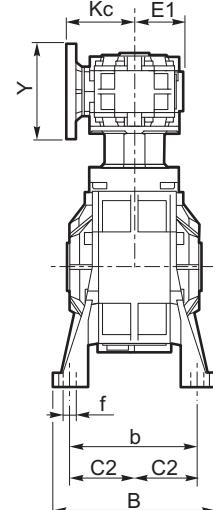
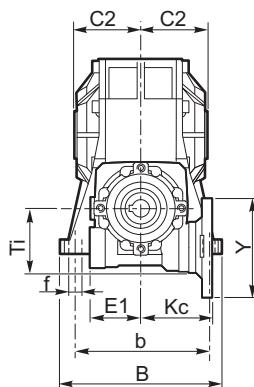
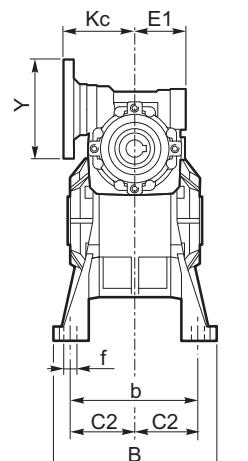
KKC_V



KKC_P



5.5 Abmessungen



Albero uscita cavo
Output hollow shaft
Abtriebs-Hohlwelle

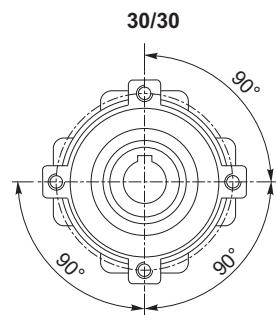


5.5 Dimensioni

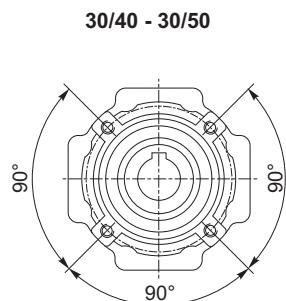
5.5 Dimensions

5.5 Abmessungen

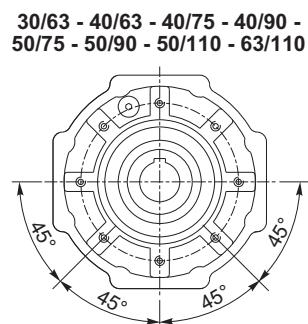
Flangia pendolare / Shaft-mounted flange / Aufsteckflansch



4 Fori / Holes / Bohrungen



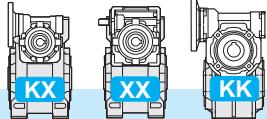
4 Fori / Holes / Bohrungen



8 Fori / Holes / Bohrungen

	KKC																							
	A		a		B		b		f		H		S		b_2		C_1	C_2	$D_2 H7$		E_1	E_2	$G h8$	
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	5	—	31.5	14	—	41	55			
30/30	67		40-52		78		66		6.5		52	55	5	8	5	—	31.5	39	18	19	41	51	60	
30/40	86.5		70	52	98		84	81	7	8.5	71	72	9	10	6	6		46	24	—		60	70	
30/50	106		63-85		119		99		9		85	82	11	8	8	—		56	25	—		71	80	
30/63 40/63	127.5		95		136		111		11		100		12			39	56	—	—	51	—	—		
40/75 50/75	155.5		120		140		115		11		115		12		8		—	60	28 (30)		—	60	85	95
40/90 50/90	190		140		168		140	146	13	11	135	142	14		10	—	46	39	70	35	51	—	103	110
50/110			250		200		210	162	181	13	13	171	170	17	15	12	—	46	77.5	42	60	—	127.5	130
63/110																	56	71						

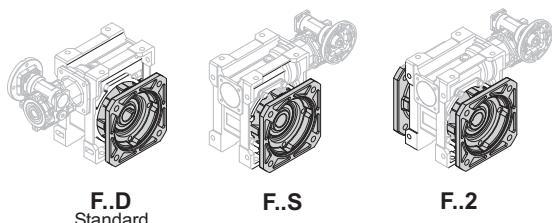
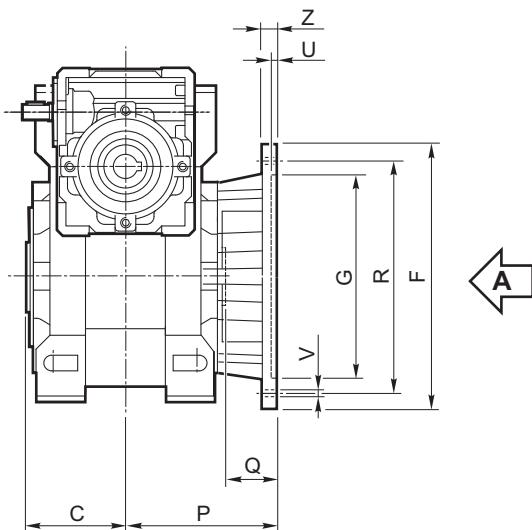
	KKC																		
	I	I_1	I_2	J_1	J_2	K_c	L_t	M	P_p	R	T_i	T_u	t_2		X				
30/30	100			31.5		37.5		171.5	M6x8	29		65			52.5	16.3	—	1.5	
30/40	122			31.5	40	43.5		203.5	M6x10	36.5		75			68.5	20.8	21.8	1.5	
30/50	132				50	53.5		223.5	M8x10	43.5		85			82.5		27.3	1.5	
30/63	145				63	64		248.5	M8x14	53		95			100.5		28.3	—	2
40/63	150			40		43.5		261							68.5				
40/75	176.5				75	75		301.5							116.5	31.3	—	2	
50/75	192	50				53.5		82	324	M8x14	57		115		82.5				
40/90	186.5	40		90	43.5	75	328.5		M10x18	67		130			68.5				
50/90	202				53.5	100	351								131.5	38.3	—	2	
50/110	226			50		82	399.5		M8x20	74		165			82.5				
63/110	236	63		110	64	122	97	419.5							100.5	161.5	45.3	—	2.5



Flangia uscita

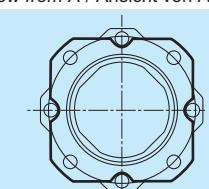
Output flange

Abtriebsflansch



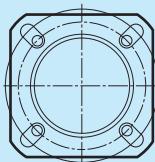
Vista da A / View from A / Ansicht von A

30/30
F1
—
—



30/30

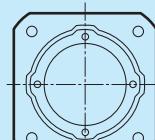
30/40	30/50
F1	F1
F2	—
—	—



30/40	30/50
—	—
—	F2
F3	—

30/40 - 30/50

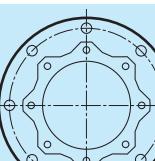
30/63	40/75
40/63	50/75
F1	F1
F2	—
—	—



30/63	40/75
40/63	50/75
—	—
—	F2
F3	—

30/63 - 40/63 - 40/75 - 50/75

40/90	50/110
50/90	63/110
—	F1
—	—
—	—



40/90	50/110
50/90	63/110
F1	—
F2	F2
F3	—

40/90 - 50/90 - 50/110 - 63/110

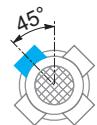
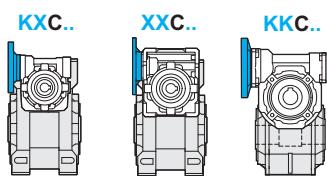
KX XX KK	Tipo Type Typ	C		F		G H8	P	Q	R	U	V		Z		
30/30	F1	31.5				66	50	54.5	23	68	4	n* 4		6.5	6
	F2														
	F3														
30/40	F1	39				85	60	67	28	75-90	4	n* 4		9	8
	F2					85	60	97	58	75-90	4	n* 4		9	8
	F3					140		95	80	115	5		n* 7	9	10
30/50	F1	46				94	70	90	44	85-100	5	n* 4		11	10
	F2					160		110	89	130	5		n* 7	11	11
	F3														
30/63 40/63	F1	56				142	115	82	26	150	5	n* 4		11	11
	F2					142	115	112	56	150	5	n* 4		11	11
	F3					160		110	80.5	130	5	n* 4		11	12
40/75 50/75	F1	60				160	130	111	51	165	5	n* 4		13	12
	F2					160		110	90	130	6	n* 4		11	13
	F3														
40/90 50/90	F1	70				200		152	111	175	5	n* 4		13	12
	F2					200		152	151	175	5	n* 4		13	13
	F3					200		130	110	165	6	n* 4		11	11
50/110 63/110	F1	77.5				260		170	131	230	6		n* 8	13	15
	F2					250		180	150	215	5	n* 4		15	16
	F3														

5.5 Dimensioni

5.5 Dimensions

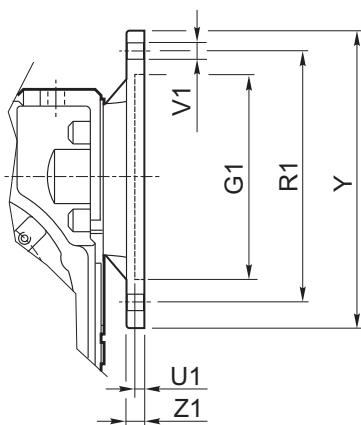
5.5 Abmessungen

Flangia entrata / Input flange / Antriebsflansch



PM = 1

PM = 2



KXC XXC KKC	IEC	G ₁ H7	PM		R ₁	U ₁	V ₁				Y	Z ₁	Diametro fori PAM / Holes diameter IEC Bohrungsdurchmesser IEC							
			1	2			∅	150 200 300	450	600	900		1500 2500	1950 3250	4000	5000 10000				
30/30	56 B5	80	•	•	100	4	7		8		120	8	9	9	9	9	9	9	9	
30/40	56 B14	50		•	65	3.5	6			4	80	8	9	9	9	9	9	9	9	
30/50	63 B5	95	•	•	115	4	9		8		140	8	11	11	11	11	/	/	/	
30/63	63 B14	60	•	•	75	4	6		8		90	8	11	11	11	11	/	/	/	
40/63 40/75 40/90	56 B5	80	•	•	100	4	7		8		120	9	/	/	/	/	9	9	9	
	56 B14	50		•	65	3.5	6			4	80	8	/	/	/	/	9	9	9	
	63 B5	95	•	•	115	4	9		8		140	9	11	11	11	11	11	11	11	
	63 B14	60		•	75	3.5	6			4	90	8	11	11	11	11	11	11	11	
	71 B5	110	•	•	130	4.5	9		8		160	10	14	14	14	14	/	/	/	
	71 B14	70		•	85	3.5	7			4	105	8	14	14	14	14	/	/	/	
50/75 50/90 50/110	63 B5	95	•	•	115	4	9		8		140	9	/	/	/	/	11	11	11	
	63 B14	60		•	75	3.5	6			4	90	8	/	/	/	/	11	11	11	
	71 B5	110	•	•	130	4.5	9		8		160	10	14	14	14	14	14	14	14	
	71 B14	70		•	85	3.5	7			4	105	8	14	14	14	14	14	14	14	
	80 B5	130	•	•	165	4.5	11		8		200	10	19	19	19	19	/	/	/	
	80 B14	80		•	100	4	7		8		120	10	19	19	19	19	/	/	/	
63/110	71 B5	110	•	•	130	4.5	9		8		160	10	/	/	/	/	14	14	14	
	71 B14	70		•	85	3.5	7			4	105	10	/	/	/	/	14	14	14	
	80 B5	130	•	•	165	4.5	11		8		200	10	19	19	19	19	19	19	19	
	80 B14	80		•	100	4	7			4	120	10	19	19	19	19	19	19	19	
	90 B5	130	•	•	165	4.5	11		8		200	10	24	24	24	24	/	/	/	
	90 B14	95		•	•	115	4	8.5		8		140	10	24	24	24	/	/	/	

* Speciale

* Special

* Sonderausführung

N.B.: E' possibile realizzare anche tutte le composizioni ibride ottenibili dalle flange esistenti.

N.B.: it is possible to create hybrid combinations with the existing flanges.

Anmerkung: Mischkombinationen sind mit den bestehenden Flanschen möglich.

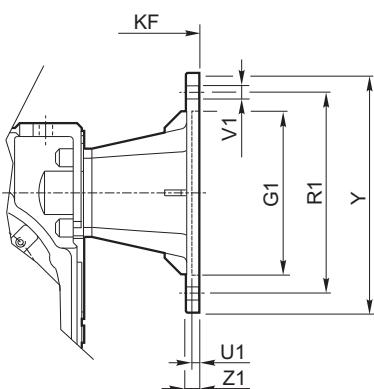
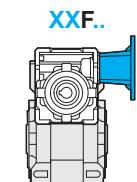
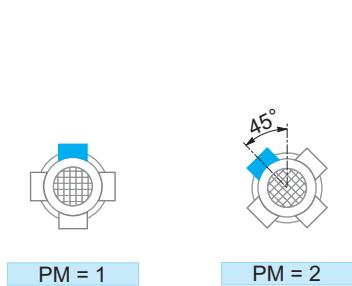


5.5 Dimensioni

5.5 Dimensions

5.5 Abmessungen

Flangia entrata / Input flange / Antriebsflansch



XXF	IEC	PM		G ₁ H7	K _F	R ₁	U ₁	V ₁			Y	Z ₁	
		1	2					Ø	1	2			
30/30 30/40 30/50 30/63	56 B5	•	•	80	82.5	100	3.5	7		8		120	8
	56 B14		•	50	82.5	65	3.5	6			4	80	8
	63 B5	•	•	95	85.5	115	4	9		8		140	10
	63 B14	•	•	60	85.5	75	3.5	6		8		90	8
40/63 40/75 40/90	56 B5	•	•	80	101.5	100	3.5	7		8		120	8
	63 B5	•	•	95	104.5	115	4	9		8		140	10
	63 B14	•	•	60	104.5	75	3.5	6		8		90	8
	71 B5	•	•	110	111.5	130	4.5	9		8		160	10
	71 B14	•	•	70	111.5	85	4	7		8		105	10
50/75 50/90 50/110	63 B5	•	•	95	119.5	115	4	9		8		140	10
	71 B5	•	•	110	126.5	130	4.5	9		8		160	10
	71 B14		•	70	126.5	85	3.5	7			4	105	10
	80 B5	•	•	130	136.5	165	4.5	11		8		200	10
	80 B14	•	•	80	136.5	100	4	7		8		120	10
63/110	71 B5	•	•	110	141.5	130	4.5	9		8		160	10
	80/90 B5	•	•	130	161.5	165	4.5	11		8		200	10
	80 B14	•	•	80	151.5	100	4	7		8		120	10
	90 B14	•	•	95	161.5	115	4	9		8		140	10

5.6 Limitatore di coppia
cavo passante5.6 Torque limiter with through
hollow shaft5.6 Drehmomentbegrenzer
mit durchgehender Hohlwelle

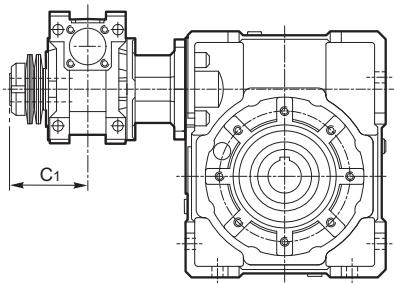
XX-KX KK	N°. giri della ghiera di regolazione / N°. revolutions of ring nut / Nr. Umdrehungen der Mutter												
	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4
30/30	22	27	33	38	43								
30/40	55	64	73	87									
30/50	75	97	120	157									
30/63		127	155	180	205	232	260	282					
40/63			235	265	295	327	360	407	455				
40/75			320	349	400	440	475	517	550	595	630	650	670
50/90													
50/110													
63/110													

I valori riportati in tabella si riferiscono ai limitatori nelle versioni LS e LD (riduttore uscita).

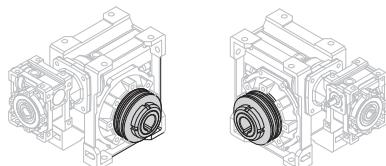
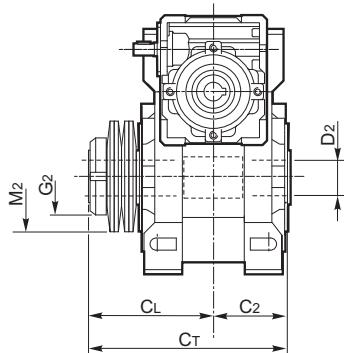
The values listed in the table refer to torque limiters in the LS and LD versions (output gearbox).

Die in der Tabelle angegebenen Werte beziehen sich auf die LS und LD Versionen (Getriebe am Abtrieb).

5.6 Limitatore di coppia cavo passante



5.6 Torque limiter with through hollow shaft



LD LS

XX - KX	C2	CL	CT	D2 H7	G2	M2
30/30	31.5	55.5	87	14	M25x1.5	50x25.4x1.5
30/40	39	65	104	18 (19)	M30x1.5	56x30.5x2
30/50	46	76	122	25 (24)	M40x1.5	63x40.5x2.5
30/63 40/63	56	91	147	25	M40x1.5	71x40.5x2.5
40/75 50/75	60	100	160	28 (30)	M50x1.5	90x50.5x3.5
40/90 50/90	70	109	179	35 (32)	M50x1.5	100x51x3.5
50/110 63/110	77.5	127.5	205	42	M60x2	125x61x5

* Limitatore I1 nei combinati

La versione con limitatore sul riduttore in entrata (L1), anche se composta da componenti standard, deve considerarsi una esecuzione speciale dal punto di vista dell'utilizzo.

Infatti il valore di taratura del limitatore L1, anche se al valore minimo, genera una coppia sul secondo riduttore molto elevata, spesso al di sopra del limite massimo ammesso.

Anche la precisione di taratura, di conseguenza, è molto bassa: infatti ogni variazione della coppia sul primo riduttore va moltiplicata per il rapporto del riduttore uscita.

La scelta del limitatore in entrata (L1) non può assolutamente essere motivata dal prezzo inferiore rispetto a quello in uscita. L'utilità di questa versione potrebbe invece nascere dalla necessità di avere una limitazione nella trasmissione della potenza del motore ma, nel contempo, di avere sul riduttore in uscita una irreversibilità senza il rischio di slittamento.

Per queste ragioni il limitatore in entrata (L1) viene fornito in posizione libera, cioè con taratura a cura del cliente secondo le proprie esigenze.

* L1 torque limiter in combined gearboxes

The version with torque limiter on the gearbox at input (L1), although made of standard component, is to be regarded as a special execution from the utilization point of view.

Actually, the L1 limiter calibration value, even though set to its minimum, generates on the second gearbox a very high torque which often exceeds the maximum admissible value.

As a consequence, calibration is not precise: any variation of the torque on the first gearbox is to be multiplied by the ratio of the gearbox at output.

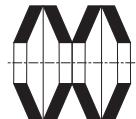
The choice of the limiter at input (L1) cannot be based on the fact that the price of the limiter at input is lower than that at output.

Nevertheless, this is a good solution if the application requires at the same time both the limitation of the power transmitted by the motor and irreversibility on the second gearbox in order to prevent sliding.

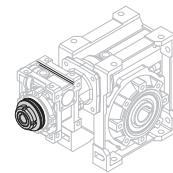
For the above mentioned reasons, the torque limiter at input (L1) is supplied in free position, i.e. the customer will carry out the limiter calibration according to the customer's requirements.

5.6 Drehmomentbegrenzer mit durchgehender Hohlwelle

Disposizione delle molle
Washers' arrangement
Lage der Feder



IN SERIE (min. coppia, max. sensibilità)
SERIES (min. torque, max sensitivity)
SERIE (min. Moment, max. Empfindlichkeit)



L1*

XX - KX	C1
30/30	55.5
30/40	
30/50	
30/63	
40/63	65
40/75	
40/90	
50/75	76
50/90	
63/110	91

* L1 Rutschkupplung in kombinierten getrieben

Die Ausführung mit Rutschkupplung an dem Getriebe am Antrieb (L1), obwohl aus Standard Bestandteile, ist eine Sonderausführung mit Bezug auf die Anwendung.

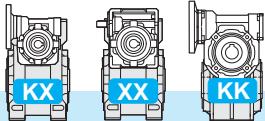
Der Eichungswert der L1 Rutschkupplung, auch der mindeste, erzeugt an das zweite Getriebe ein sehr hohes Drehmoment, das oft den max. zulässigen Wert überschreitet.

Daraus folgt, dass die Eichung nicht präzis ist: jede Änderung des Drehmoments an dem ersten Getriebe soll mit dem Verhältnis des zweiten Getriebes multipliziert werden.

Der Grund für die Wahl der Rutschkupplung am Antrieb (L1) darf nicht der niedriger Preis sein.

Diese Ausführung ist jedoch bemerkenswert, falls die Applikation sowohl die Begrenzung der Motorleistung als auch die Irreversibilität des zweiten Getriebes verlangt.

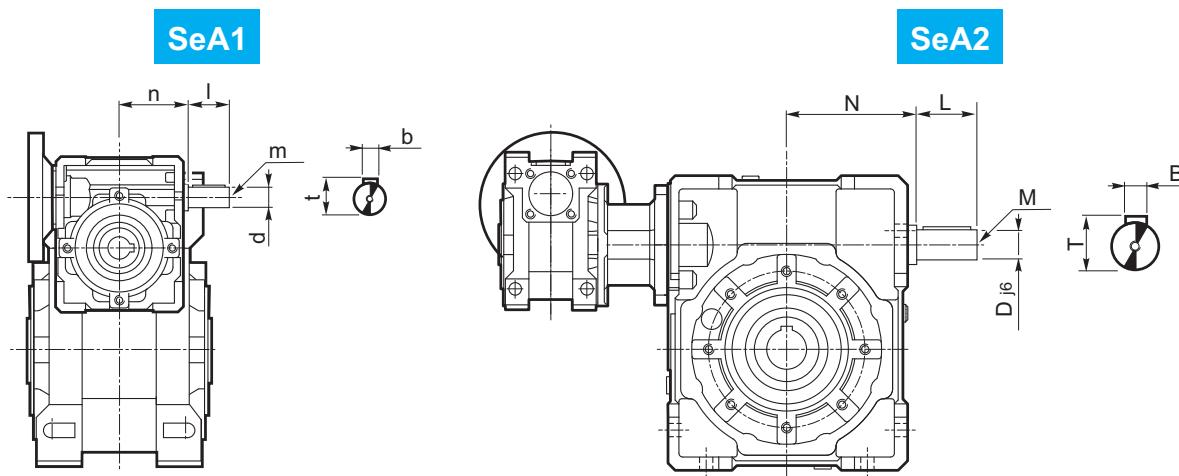
Folglich wird die Rutschkupplung am Antrieb (L1) frei gestellt, d. h. der Kunde soll die Rutschkupplung nach seiner Bedürfnisse eichen.



5.7 **Esecuzione con vite bisporgente**

5.7 **Double extended worm shaft design**

5.7 **Versionen mit Doppelseitig Herausragender Schneckenwelle**



L' entrata supplementare del riduttore in uscita (SeA2) non può essere utilizzata come comando in quanto il relativo movimento risulta impedito dalla irreversibilità del primo riduttore.

Utilizzato come asse condotto, avrà velocità corrispondente a quella di ingresso ridotta del rapporto del primo riduttore.

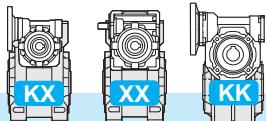
The second input shaft of the output gearbox (SeA2) can not be utilized as a drive because its motion will be stopped by the reversibility of the first gearbox.

If utilized as a drive shaft its speed will be equal to the input speed decreased by the ratio of the first gearbox.

Die verlängerte Schneckenwelle des zweiten Getriebes (SeA2) kann nicht als Antrieb verwendet werden, da die Selbsthemmung des ersten Getriebes entgegengewirkt.

Wird sie als Abtriebswelle verwendet, besitzt sie eine um die Untersetzung des ersten Getriebes entsprechend reduzierte Drehzahl und Drehmoment.

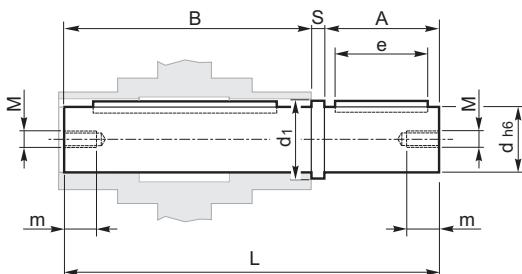
KXC - XXXC XXF - XXXA KKC	SeA1							SeA2						
	b	d j6	I	m	n		t	B	D j6	L	M	N		T
					KX	XX						KX	XX	
30/30	3	9	15	M4x10	42.5	42.5	10.2	3	9	15	M4x10	42.5	42.5	10.2
30/40	3	9	15	M4x10	42.5	42.5	10.2	4	11	20	M4x12	52.5	52.5	12.5
30/50	3	9	15	M4x10	42.5	42.5	10.2	5	14	25	M5x13	62.5	62.5	16
30/63	3	9	15	M4x10	42.5	42.5	10.2	6	19	30	M8x20	72.5	74.5	21.5
40/63	4	11	20	M4x12	52.5	52.5	12.5	6	19	30	M8x20	72.5	74.5	21.5
40/75	4	11	20	M4x12	52.5	52.5	12.5	8	24	40	M8x20	93	91	27
50/75	5	14	25	M5x13	62.5	62.5	16	8	24	40	M8x20	93	91	27
40/90	4	11	20	M4x12	52.5	52.5	12.5	8	24	40	M8x20	108	108	27
50/90	5	14	25	M5x13	62.5	62.5	16	8	24	40	M8x20	108	108	27
50/110	5	14	25	M5x13	62.5	62.5	16	8	28	50	M8x20	132	132	31
63/110	6	19	30	M8x20	72.5	74.5	21.5	8	28	50	M8x20	132	132	31



5.8 Accessori

Albero lento

Albero lento semplice
Single output shaft
Standard Abtriebswelle



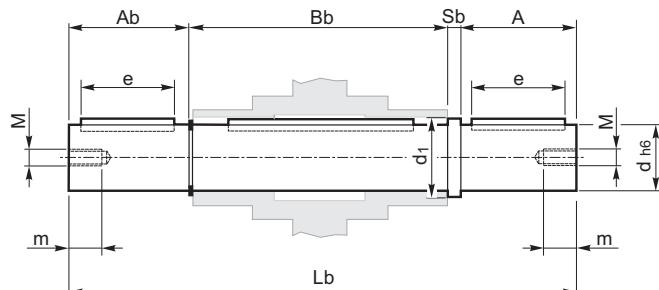
5.8 Accessories

Output shaft

5.8 Zubehör

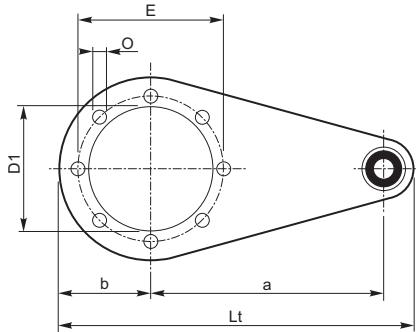
Abtriebswelle

Albero lento doppio
Double output shaft
Doppelte Abtriebswelle

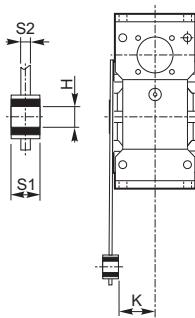


KK-KX-XX	A	A_b	B	B_b	d ($h6$)	d_1	e	L	L_b	M	m	S	S_b
30/30	30	29	62	64	14	18.5	20	94.5	126	M6	16	2.5	2.5
30/40	40	39	77	79	18	23.5	30	120	161	M6	16	3	3
30/50	50	49	90	93	25	31.5	40	143.5	195	M8	22	3.5	3.5
30/63 40/63	50	49	111	113	25	31.5	40	165	216	M8	22	4	4
40/75 50/75	60	59	119	121	28	34.5	50	183	244	M8	22	4	4
40/90 50/90	80	78.5	139	141.5	35	41.5	60	224	305	M10	28	5	5
50/110 63/110	80	77.5	154.5	157	42	49.5	60	242.5	322.5	M10	28	8	8

Braccio di reazione



Torque arm

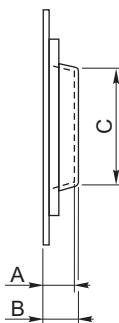


Drehmomentstütze

KK KX XX	a	b	D_1	E	H	K	L_t	O	S1	S2
30/30	85	37.5	55	65	8	24	141.5	7	14	4
30/40	100	45	60	75	10	31.5	167	7	14	4
30/50	100	50	70	85	10	39	172	9	14	5
30/63 40/63	150	55	80	95	10	49	227	9	14	6
40/75 50/75	200	70	95	115	20	47.5	302	9	25	6
40/90 50/90	200	80	110	130	20	57.5	312	11	25	6
50/110 63/110	250	100	130	165	25	62	390	11	30	6

Kit di protezione:

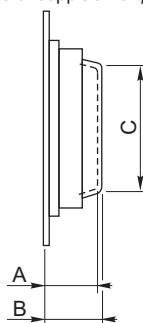
Albero cavo / Hollow shaft / Hohlwelle



KK KX XX	A		B		C	
	IN	OUT	IN	OUT	IN	OUT
30/30	12		13		39	
30/40	14		15.5		44	
30/50	15		16.5		54	
30/63	17		19		60	
40/63	14		15.5		44	
40/75	18		20		70	
50/75	15		16.5		54	
40/90	14		21.5		44	
50/90	15		16.5		54	
50/110	22		25		60	
63/110	17		19		96	

Protection Kit:

Limitatore di coppia / Torque limiter / Drehmomentschaltung



KK KX XX	A		B		C	
	IN	OUT	IN	OUT	IN	OUT
30/30			36		37	
30/40			40		41.5	
30/50			47		48.5	
30/63			52		54	
40/63			40		41.5	
40/75			58		60	
50/75			47		48.5	
40/90			40		41.5	
50/90			47		48.5	
50/110			72		75	
63/110			52		54	

Opzioni disponibili:

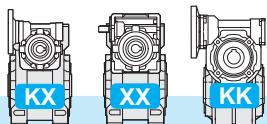
Cuscinetti a rulli conici corona

Available options:

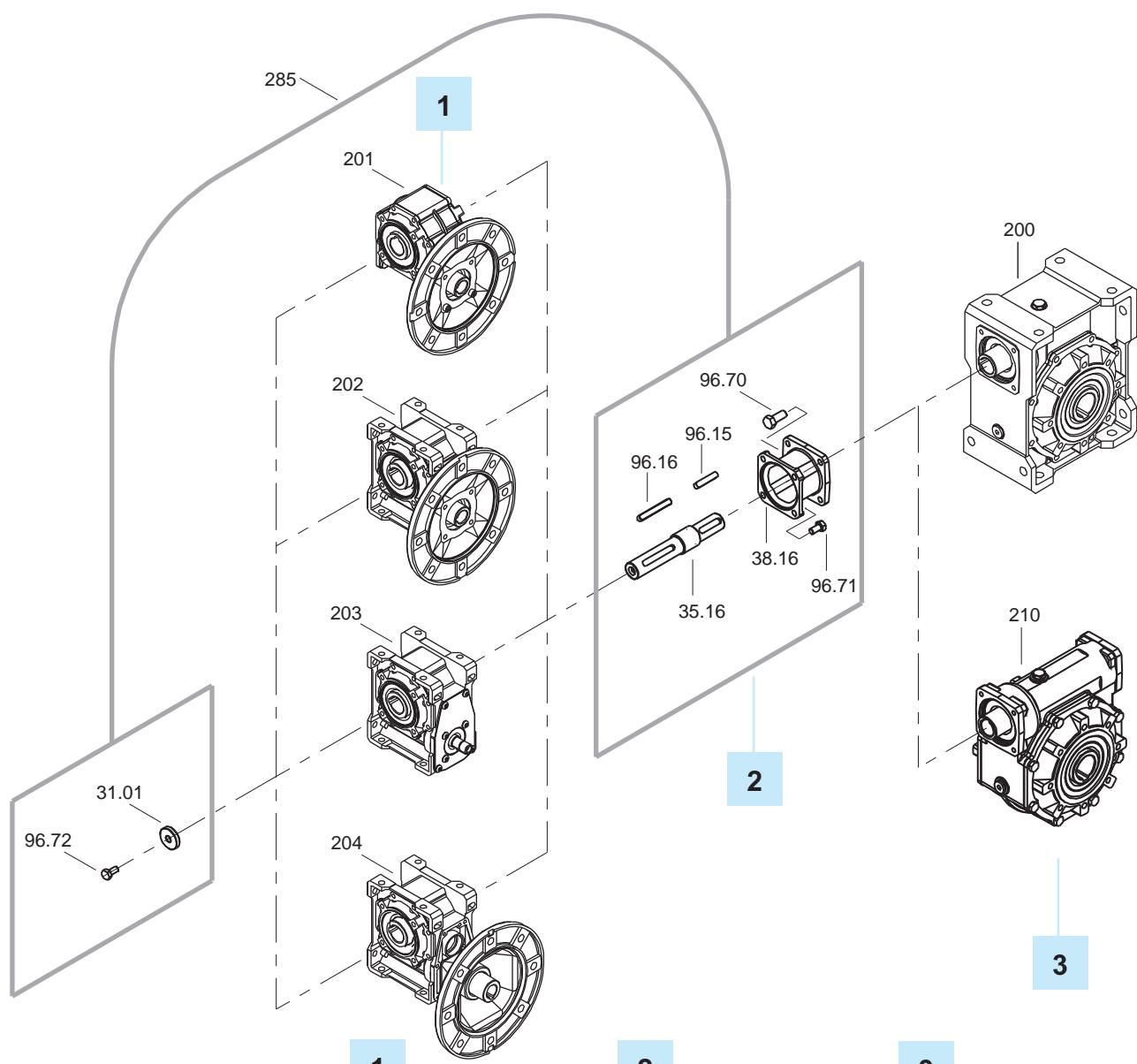
Tapered roller bearings on worm wheel

Auf Anfrage ist folgendes Zubehör erhältlich:

Kegelrollenlager für Schneckenrad



KXC - XXC - XXA - XXF - KKC



1

2

3

IN X..P - K..P
30/30
30/40
30/50
30/63
40/63
40/75
40/90
50/75
50/90
50/110
63/110

KIT
KIT 30/30 (2850002010)
KIT 30/40 (2850002013)
KIT 30/50 (2850002016)
KIT 30/63 (2850002019)
KIT 40/63 (2850002028)
KIT 40/75-90 (2850002031)
KIT 50/75-90 (2850002034)
KIT 50/110 (2850002049)
KIT 63/110 (2850002052)

OUT XC - KC
30/9
40/11
50/14
63/19
63/19
75/24
90/24
75/24
90/24
110/28
110/28