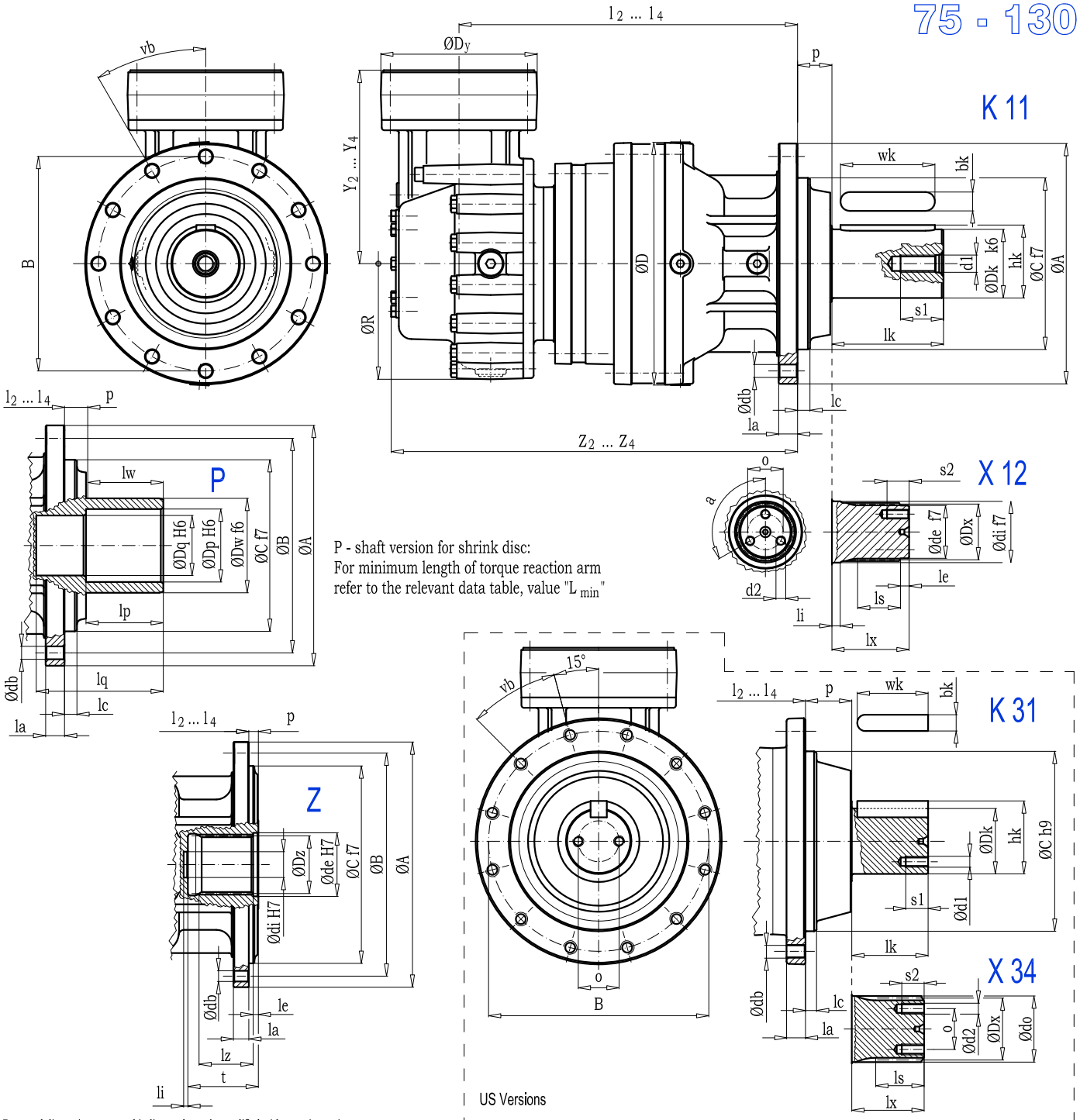
75 - 130



Data and dimensions are not binding and may be modified without prior notice

Dimensions METRIC, solid shafts																			Keyed								DIN Splined									
Model	A	la	B	db	vb	C	lc	D	p	l2	l3	l4	Y2	Y3	Y4	Dy	Z2	Z3	Z4	R	Dk	lk	bk	hk	wk	d1	s1	code	Dx	lx	ls	de	le	di	li	d2	s2	a	o	code
75	280	22	250	15	12x30°	200	14.5	285	40	317	380	380	226	226	276	185	396	459	459	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X 12
85	280	22	250	15	12x30°	200	14.5	285	40	317	380	380	226	226	276	185	396	459	459	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X 12
100	280	22	250	15	12x30°	200	14.5	285	40	317	380	380	226	226	276	185	396	459	459	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X 12
110	280	22	250	15	12x30°	200	14.5	285	40	332	395	395	226	226	276	185	411	474	474	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X 12
130	280	22	250	15	12x30°	200	14.5	285	40	332	410	410	226	226	276	185	411	489	489	274	80	130	22	85	110	M20	50	K 11	70x64	90	50	62	10	72	10	M10	20	3x120°	40	X 12

Dimensions METRIC, hollow shafts													Hollow for Shrink Disc													Hollow Splined											
Model	A	D	l2	l3	l4	Y2	Y3	Y4	Dy	Z2	Z3	Z4	R	la	B	db	vb	C	lc	p	Dp	lp	Dq	lq	Dw	lw	L min	code	la	B	db	vb	C	lc	p	Dz	lz	de	le	di	li	t	code
75	280	285	317	380	380	226	226	276	185	396	459	459	274	22	250	15	12x30°	200	14.5	27	85	90	70	148	110	88	300	P 24	18	260	12.5	10x36°	230	7	11	70x64	65	74	6	30	5	82	Z 21
85	280	285	317	380	380	226	226	276	185	396	459	459	274	22	250	15	12x30°	200	14.5	27	85	90	70	148	110	88	300	P 24	18	260	12.5	10x36°	230	7	11	70x64	65	74	6	30	5	82	Z 21
100	280	285	317	380	380	226	226	276	185	396	459	459	274	22	250	15	12x30°	200	14.5	27	85	90	70	148	110	88	400	P 24	18	260	12.5	10x36°	230	7	11	70x64	65	74	6	30	5	82	Z 21
110	280	285	332	395	395	226	226	276	185	411	474	474	274	22	250	15	12x30°	200	14.5	27	85	90	70	148	110	88	400	P 24	18	260	12.5	10x36°	230	7	11	70x64	65	74	6	30	5	82	Z 21
130	280	285	332	410	410	226	226	276	185	411	489	489	274	22	250	15	12x30°	200	14.5	27	85	90	70	148	110	88	400	P 24	18	260	12.5	10x36°	230	7	11	70x64	65	74	6	30	5	82	Z 21

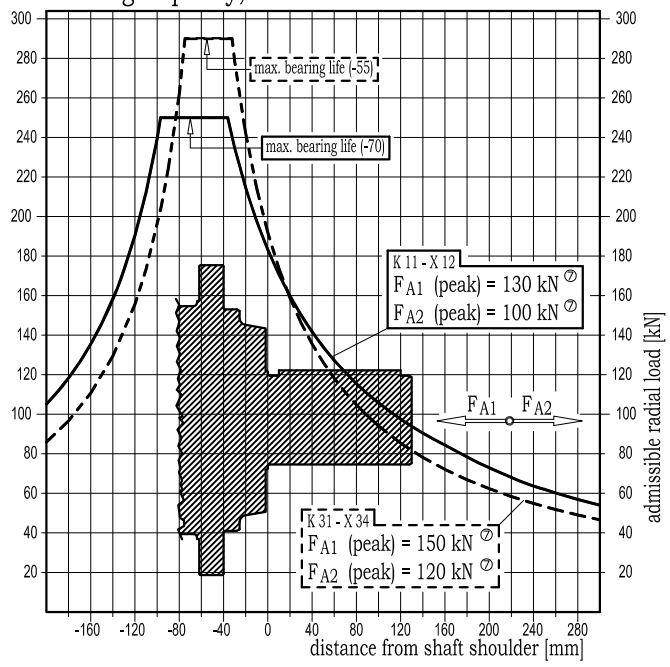
Dimensions US version, solid shafts																				Keyed						ANSI Splined									
Model	A	la	B	db	vb	C	lc	D	p	l2	l3	l4	Y2	Y3	Y4	Dy	Z2	Z3	Z4	R	Dk	lk	bk	hk	wk	code	Dx	lx	ls	do	d3	s3	a	o	code
75	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	317	380	380	226	226	276	185	396	459	459	274	76.2 h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7 h12	1/2"-20	25	2x180°	47.6	X 34
85	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	317	380	380	226	226	276	185	396	459	459	274	76.2 h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7 h12	1/2"-20	25	2x180°	47.6	X 34
100	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	317	380	380	226	226	276	185	396	459	459	274	76.2 h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7 h12	1/2"-20	25	2x180°	47.6	X 34
110	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	332	395	395	226	226	276	185	411	474	474	274	76.2 h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7 h12	1/2"-20	25	2x180°	47.6	X 34
130	287	22	256.5	5/8"-11	12x30°	209.55	13	285	54.5	332	410	410	226	226	276	185	411	489	489	274	76.2 h7	88.9	19.05	85.1	82.5	K 31	8/16-23T	84.3	56.5	75.7 h12	1/2"-20	25	2x180°	47.6	X 34

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

Model	75		85		100		110		130	
Torque Rating①	7500 Nm		8500 Nm		10000 Nm		11000 Nm		13000 Nm	
R2	NOM. RATIO ② (ACT. RATING) 10 (B) 21 (C) 12 (A) 25 (B) 16 (B) 30 (B) 18 (A) 34 (C)		NOM. RATIO ② (ACT. RATING) 10 (B) 25 (B) 13 (A) 16 (B) 21 (A)		NOM. RATIO ② (ACT. RATING) 12 (A) 14 (A) 18 (A) 21 (A)		NOM. RATIO ② (ACT. RATING) 12 (A) 28 (C) 16 (B) 34 (D) 18 (A) 25 (B)		NOM. RATIO ② (ACT. RATING) 13 (A) 16 (B) 21 (A) 25 (B)	
n_1 nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th.③/max.	20 kW	54 kW	20 kW	57 kW	20 kW	60 kW	22.5 kW	66 kW	22.5 kW	72 kW
R3	NOM. RATIO ② (ACT. RATING) 34 (B) 90 (A) 38 (A) 100 (B) 45 (A) 110 (A) 53 (B) 125 (A) 60 (A) 150 (B) 67 (A) 170 (B) 71 (A) 210 (B) 80 (A) 240 (C)		NOM. RATIO ② (ACT. RATING) 34 (B) 80 (A) 38 (B) 85 (A) 45 (A) 95 (A) 50 (A) 105 (A) 53 (B) 130 (A) 60 (B) 150 (A) 67 (A) 170 (B) 71 (A)		NOM. RATIO ② (ACT. RATING) 38 (A) 95 (A) 45 (A) 105 (A) 50 (A) 125 (A) 60 (A) 150 (A) 67 (A) 71 (A) 80 (A) 85 (A)		NOM. RATIO ② (ACT. RATING) 38 (A) 150 (B) 50 (A) 170 (C) 60 (A) 210 (D) 71 (A) 80 (A) 90 (A) 110 (A) 125 (B)		NOM. RATIO ② (ACT. RATING) 50 (A) 67 (A) 80 (A) 95 (A) 105 (A) 125 (A) 150 (A) 170 (B)	
n_1 nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th.③/max.	14 kW	22 kW	14 kW	23.5 kW	14 kW	25 kW	16 kW	28 kW	16 kW	31 kW
R4	NOM. RATIO ② (ACT. RATING) 140 (A) 630 (A) 160 (A) 670 (A) 180 (B) 750 (A) 200 (A) 850 (A) 220 (A) 900 (B) 260 (A) 1050 (B) 300 (A) 1250 (B) 340 (A) 1400 (B) 400 (A) 1600 (C) 450 (A) 500 (A) 560 (A)		NOM. RATIO ② (ACT. RATING) 170 (A) 630 (A) 190 (A) 750 (A) 220 (A) 800 (A) 250 (A) 900 (A) 260 (A) 1000 (A) 300 (A) 1200 (B) 340 (A) 360 (A) 400 (A) 480 (A) 530 (A) 560 (A)		NOM. RATIO ② (ACT. RATING) 160 (A) 530 (A) 190 (A) 560 (A) 220 (A) 630 (A) 250 (A) 670 (A) 300 (A) 750 (A) 340 (A) 800 (A) 360 (A) 850 (A) 400 (A) 900 (A) 420 (A) 1000 (A) 450 (A) 480 (A) 500 (A)		NOM. RATIO ② (ACT. RATING) 130 (A) 450 (A) 140 (A) 500 (A) 170 (A) 560 (A) 190 (A) 630 (A) 200 (A) 670 (A) 220 (A) 750 (A) 240 (A) 850 (B) 260 (A) 900 (B) 300 (A) 1050 (B) 340 (A) 1200 (C) 380 (A) 1400 (D) 420 (A)		NOM. RATIO ② (ACT. RATING) 170 (A) 750 (A) 190 (A) 850 (A) 220 (A) 900 (A) 260 (A) 1000 (A) 300 (A) 1200 (B) 340 (A) 400 (A) 450 (A) 500 (A) 560 (A) 630 (A) 670 (A)	
n_1 nom./max.	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm	3000 rpm	4000 rpm
P th.③/max.	11 kW	11 kW	11 kW	11.5 kW	11 kW	12 kW	12.5 kW	13.5 kW	12.5 kW	15 kW
Actual Torque Rating [Nm]④	(A) 8700 (B) 7800 (C) 6600		(A) 10400 (B) 9400		(A) 12000		(A) 13000 (B) 11700 (C) 10800 (D) 9900		(A) 15000 (B) 13000	
Peak Torque⑤	10500 Nm		12000 Nm		13500 Nm		15000 Nm		16000 Nm	

Data and dimensions are not binding and may be modified without prior notice

Bearing Capacity, solid shafts⑥⑧



① Harmonized nominal value referring to Preferred Numbers R'40.
Actual transmissible torque may vary depending on ratio, speed, application.

② Harmonized nominal value referring to Preferred Numbers R'40.
For actual ratios see Annex C.

③ Thermal power limit. For actual figures based on speed, temperature and duty see Section B4, Specifications, Paragraph 8.

④ Mean value at rated conditions. For actual figures based on speed, service life and application/duty see Section B4, Specifications, Paragraph 6.

⑤ Restrictions may apply for hollow shaft for shrink disc, see Section G, Output Accessories.
Customer to verify the mating shaft is capable of loads actually transmitted.

⑥ Mean values at rated conditions. For actual admissible loads based on speed, service life and application/duty see Section B4, Specifications, Paragraph 9.

⑦ Max. peak values, which must never be exceeded. Combined thrust and radial shaft loads might reduce bearing life. Please contact Plan-Star Engineering for accurate life calculation of your specific application.

⑧ Combination of high torque and heavy radial shaft load might require verification of the output shaft. If the following condition is not fulfilled, contact Plan-Star Engineering for accurate verification of your specific application:

$$\frac{\text{Radial Load (applied)}}{\text{Radial Load (admissible)}} \times \frac{\text{Torque (applied)}}{\text{Torque (nominal)}} < 0.5$$