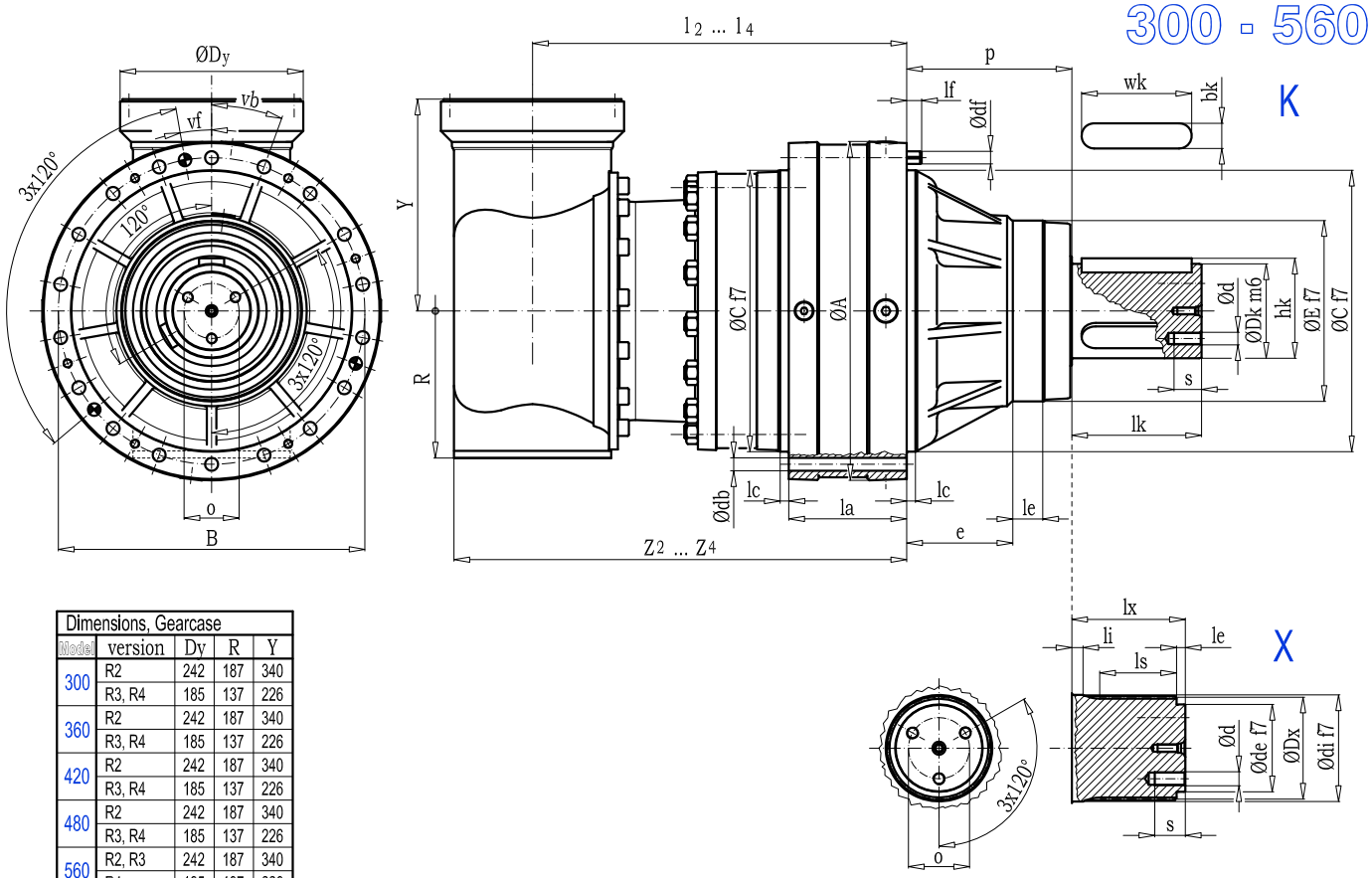
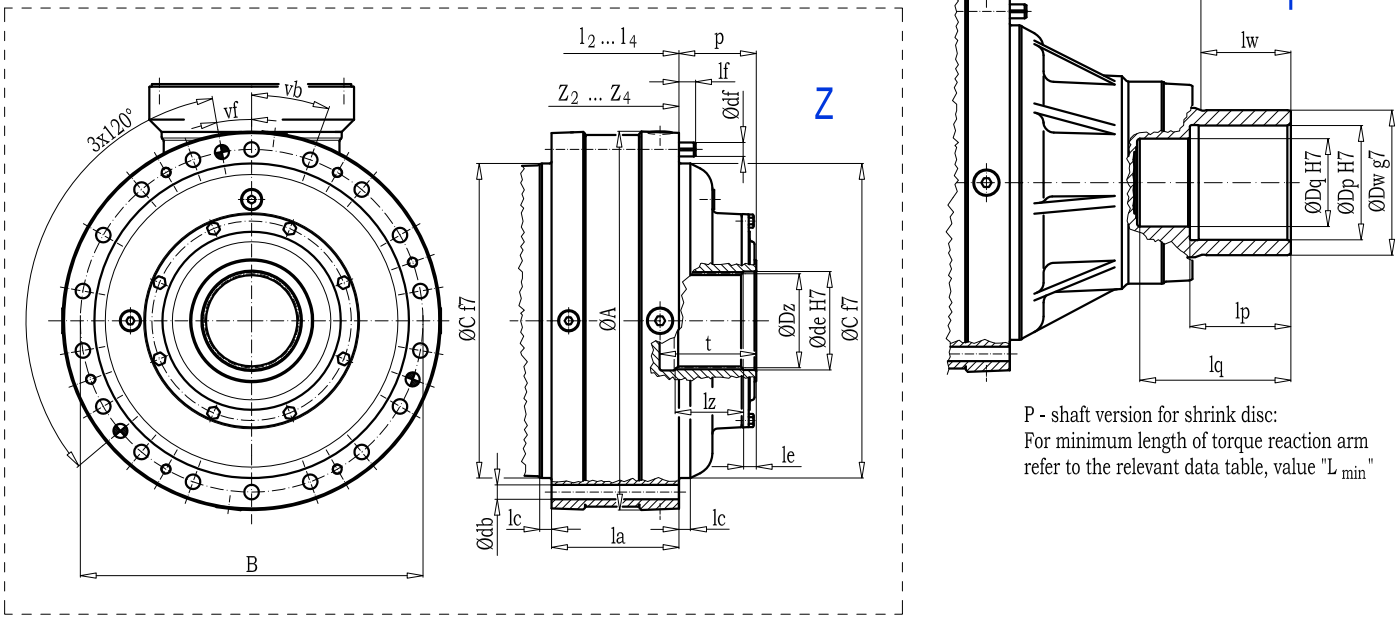
300 - 560



Dimensions, Gearcase				
Model	version	Dy	R	Y
300	R2	242	187	340
	R3, R4	185	137	226
360	R2	242	187	340
	R3, R4	185	137	226
420	R2	242	187	340
	R3, R4	185	137	226
480	R2	242	187	340
	R3, R4	185	137	226
560	R2, R3	242	187	340
	R4	185	137	226



P - shaft version for shrink disc:
For minimum length of torque reaction arm refer to the relevant data table, value "L_{min}"

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

Dimensions, solid shafts																							Keyed						DIN Splined							
Model	A	la	B	db	vb	C	lc	E	le	e	df	lf	vf	p	l_2	l_3	l_4	Z_2	Z_3	Z_4	d	s	o	Dk	lk	bk	hk	wk	code	Dx	lx	ls	di	li	de	le	code
300	432	122	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	331	331	394	434	410	473	M14	30	65	100	165	28	106	140	K 11	100x94	110	66	105	12	85	12	X 12
360	432	125	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	331	334	396	434	413	475	M14	30	65	100	165	28	106	140	K 11	100x94	110	66	105	12	85	12	X 12
420	432	125	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	331	334	411	434	413	490	M16	35	70	120	165	32	127	140	K 13	120x3	130	88	122	15	100	10	X 14
480	432	150	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	356	359	436	459	438	515	M16	35	70	120	165	32	127	140	K 13	120x3	130	88	122	15	100	10	X 14
560	432	150	390	16.5	18x20°	358	13.5	230	40	135	16	19	10°	210	356	476	461	459	579	540	M16	35	70	120	165	32	127	140	K 13	120x3	130	88	122	15	100	10	X 14

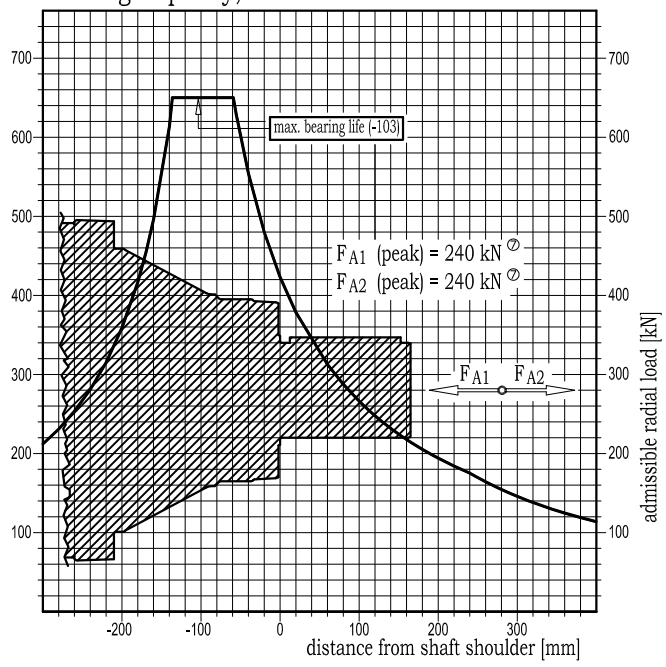
Dimensions, hollow shafts									Hollow for Shrink Disc																		Hollow Splined										
Model	A	B	db	vb	C	lc	df	lf	vf	la	E	le	e	p	l_2	l_3	l_4	Z_2	Z_3	Z_4	Dp	lp	Dq	lq	Dw	lw	code	L_{min}	la	p	l_2	l_3	l_4	Z_2	Z_3	Z_4	Dz	lz	de	le	t	code
300	432	390	16.5	18x20°	358	13.5	16	19	10°	122	230	40	135	220	326	326	389	429	405	468	130	115	100	175	165	100	P 24	800	117	88	326	326	389	429	405	468	100x94	78	102	15	110	Z 21
360	432	390	16.5	18x20°	358	13.5	16	19	10°	125	230	40	135	220	326	329	391	429	408	470	130	115	100	175	165	100	P 24	800	120	88	326	329	391	429	408	470	100x94	78	102	15	110	Z 21
420	432	390	16.5	18x20°	358	13.5	16	19	10°	125	230	40	135	220	326	329	406	429	408	485	130	115	100	175	165	100	P 24	800	120	88	326	329	406	429	408	485	100x94	78	102	15	110	Z 21
480	432	390	16.5	18x20°	358	13.5	16	19	10°	150	230	40	135	220	351	354	431	454	433	510	130	115	100	175	165	100	P 24	800	145	88	351	354	431	454	433	510	110x3	78	112	15	110	Z 23
560	432	390	16.5	18x20°	358	13.5	16	19	10°	150	230	40	135	220	351	471	455	454	574	535	130	115	100	175	165	100	P 24	800	145	88	351	471	456	454	574	535	110x3	78	112	15	110	Z 23

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

Model	300		360		420		480		560	
Torque Rating①	30000 Nm		36000 Nm		42000 Nm		48000 Nm		56000 Nm	
R2	NOM. RATIO② (ACT. RATING) 12 (A) 25 (B) 16 (B) 30 (B) 18 (A) 34 (C) 21 (C)		NOM. RATIO② (ACT. RATING) 13 (A) 16 (B) 21 (A) 25 (B)		NOM. RATIO② (ACT. RATING) 12 (A) 14 (A) 18 (A) 21 (A)		NOM. RATIO② (ACT. RATING) 16 (B) 25 (B) 28 (C) 34 (D)		NOM. RATIO② (ACT. RATING) 16 (B)	
n_1 nom./max.	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm	2250 rpm	3000 rpm
P th.③/max.	37 kW	150 kW	37 kW	160 kW	37 kW	170 kW	45 kW	200 kW	45 kW	220 kW
R3	NOM. RATIO② (ACT. RATING) 42 (A) 140 (B) 60 (A) 150 (B) 67 (A) 170 (B) 71 (B) 210 (B) 80 (A) 240 (C) 90 (A) 105 (A) 125 (A)		NOM. RATIO② (ACT. RATING) 50 (A) 67 (A) 80 (A) 95 (A) 105 (A) 130 (A) 150 (A) 170 (B)		NOM. RATIO② (ACT. RATING) 42 (A) 110 (A) 50 (A) 125 (A) 60 (A) 150 (A) 67 (A) 71 (A) 80 (A) 95 (A) 105 (A)		NOM. RATIO② (ACT. RATING) 50 (A) 60 (A) 71 (A) 80 (A) 90 (A) 110 (A) 170 (C) 210 (D)		NOM. RATIO② (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	2250 rpm	3000 rpm
P th.③/max.	19 kW	70 kW	19 kW	75 kW	19 kW	80 kW	22 kW	90 kW	28 kW	100 kW
R4	NOM. RATIO② (ACT. RATING) 140 (A) 560 (A) 160 (A) 630 (A) 200 (A) 710 (A) 220 (A) 800 (A) 250 (A) 900 (A) 260 (A) 1000 (B) 300 (A) 1050 (B) 340 (A) 1200 (B) 360 (A) 1250 (B) 400 (A) 1400 (B) 450 (A) 1600 (C) 500 (A)		NOM. RATIO② (ACT. RATING) 170 (A) 710 (A) 200 (B) 800 (A) 220 (A) 900 (A) 250 (A) 1050 (B) 280 (A) 320 (A) 360 (A) 400 (A) 450 (A) 500 (A) 560 (A) 630 (A)		NOM. RATIO② (ACT. RATING) 160 (A) 710 (A) 190 (A) 800 (A) 220 (A) 900 (A) 260 (A) 1000 (A) 300 (A) 340 (A) 360 (A) 400 (A) 450 (A) 500 (A) 560 (A) 630 (A)		NOM. RATIO② (ACT. RATING) 190 (A) 1050 (B) 220 (A) 1200 (C) 260 (A) 1400 (D) 300 (A) 340 (A) 360 (A) 400 (A) 450 (A) 500 (A) 560 (A) 670 (A) 800 (A)		NOM. RATIO② (ACT. RATING) 170 (A) 670 (A) 190 (A) 710 (B) 220 (A) 750 (A) 250 (A) 850 (A) 300 (A) 900 (A) 340 (A) 1000 (A) 360 (A) 1050 (B) 420 (A) 1200 (B) 480 (A) 530 (A) 560 (A) 630 (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.	15 kW	28 kW	15 kW	29 kW	15 kW	30 kW	17 kW	31 kW	17 kW	33 kW
Actual Torque Rating [Nm]④	(A) 37000 (B) 33000 (C) 28000		(A) 44000 (B) 39000		(A) 51000		(A) 56000 (B) 51000 (C) 47000 (D) 42500		(A) 65000 (B) 58000	
Peak Torque⑤	45000 Nm		52000 Nm		58000 Nm		65000 Nm		75000 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:

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