

## High Speed (Input) Shafts

These High Speed Shafts (HSS) are available in several sizes and versions. The smaller of them, C4N and C4R, are suitable for the transmission of smaller powers only. The larger types, from C60 to C13, allow for the transmission of high power, for example by means of multiple belt drives.

Models C60 to C13 provide the possibility to install a cover or guard, while C4N and C4R do not have this feature.

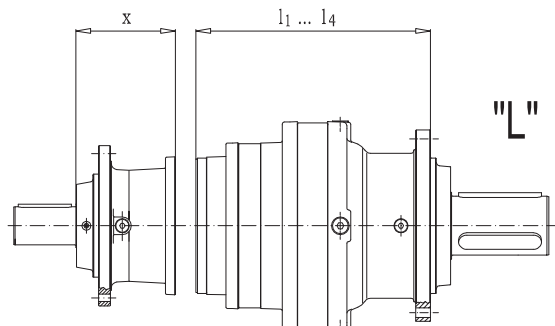
See table below for availability, for dimensions and technical data refer to page 'F 02'.

### Availability, High Speed Shafts

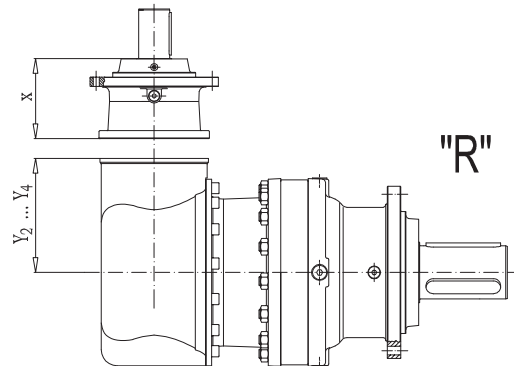
Data and dimensions are not binding and may be modified without prior notice

Gearbox Model																	
Size	In-Line										Size	Right-Angle					
15	15 L1-L4																
18	18 L1-L4																
22	22 L1-L4																
28	28 L1-L4																
32	32 L1-L4																
36	36 L2-L4	36 L1									36	36 R2-R4					
42	42 L2-L4	42 L1									42	42 R2-R4					
50	50 L2-L4	50 L1									50	50 R2-R4					
60	60 L2-L4	60 L1									60	60 R2-R4					
67	67 L2-L4	67 L1									67	67 R2-R4					
75	75 L3-L4	75 L2	75 L1								75	75 R2-R4					
85	85 L3-L4	85 L2	85 L1								85	85 R2-R4					
100	100 L3-L4	100 L2	100 L1								100	100 R2-R4					
110	110 L3-L4	110 L2	110 L1								110	110 R2-R4					
130	130 L3-L4	130 L2	130 L1								130	130 R2-R4					
140	140 L3-L4	140 L2		140 L1							140	140 R2-R4					
170	170 L3-L4	170 L2		170 L1							170	170 R2-R4					
200	200 L4	200 L3	200 L2		200 L1						200	200 R3-R4	200 R2				
220	220 L4	220 L3	220 L2		220 L1						220	220 R3-R4	220 R2				
260	260 L4	260 L3	260 L2		260 L1						260	260 R3-R4	260 R2				
300	300 L4	300 L3	300 L2			300 L1					300	300 R3-R4	300 R2				
360	360 L4	360 L3		360 L2			360 L1				360	360 R3-R4	360 R2				
420	420 L4	420 L3			420 L2		420 L1				420	420 R3-R4	420 R2				
480	480 L4	480 L3			480 L2		480 L1				480	480 R3-R4	480 R2				
560		560 L4	560 L3		560 L2		560 L1				560	560 R4	560 R2-R3				
630		560 L4	630 L3		630 L2		630 L1				630	630 R4	630 R3				
750		750 L4	750 L3			750 L2			750 L1		750	750 R4	750 R3				
900		900 L4	900 L3			900 L2			900 L1		900	900 R4	900 R3				
1100		1100 L4		1100 L3				1100 L2	1100 L1		1100	1100 R4	1100 R3				
1300		1300 L4		1300 L3				1300 L2	1300 L1		1300	1300 R4	1300 R3				
1700			1700 L4		1700 L3		1700 L2			1700 L1							
2100			2100 L4			2100 L3			2100 L2		2100		2100 L1				
2500			2500 L4			2500 L3			2500 L2		2500		2500 L1				
Type	Distance 'x' [mm]										Type	Distance 'x' [mm]		[kg]	[lbs]		
C4N	107	9.3 20.5	111	10.8 23.8							C4N	107	9.3 20.5				
C4R	107	9.5 20.9	111	11.0 24.3							C4R	107	9.5 20.9				
C60			165	22.5 49.6	190	23.7 52.3	191	27.6 60.8	191	27.6 60.8				165	22.5 49.6		
C65					222.5	31.8 69.7	223.5	35.1 78.7	223.5	35.1 78.7					197		
C80							255	48.2 106.2	197.5	40.3 88.8							
C90									213.5	69.0 152.1	213.5	69.0 152.1					
C10										238.5	100.0 220.5	262	117.5 259.0				
C13														279	141.8 312.8	254.5	135.4 298.5

Mounting Scheme, In-Line Gears

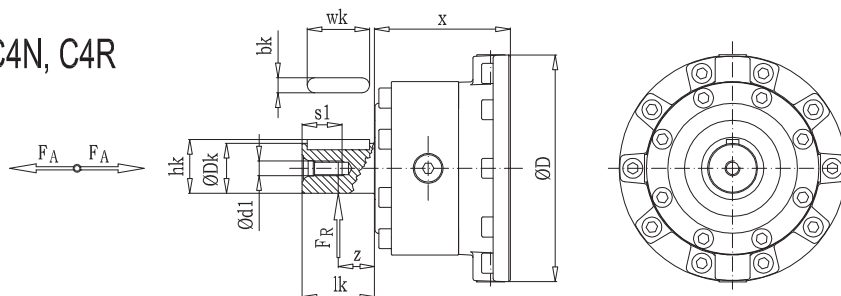


Mounting Scheme, Right-Angle Gears

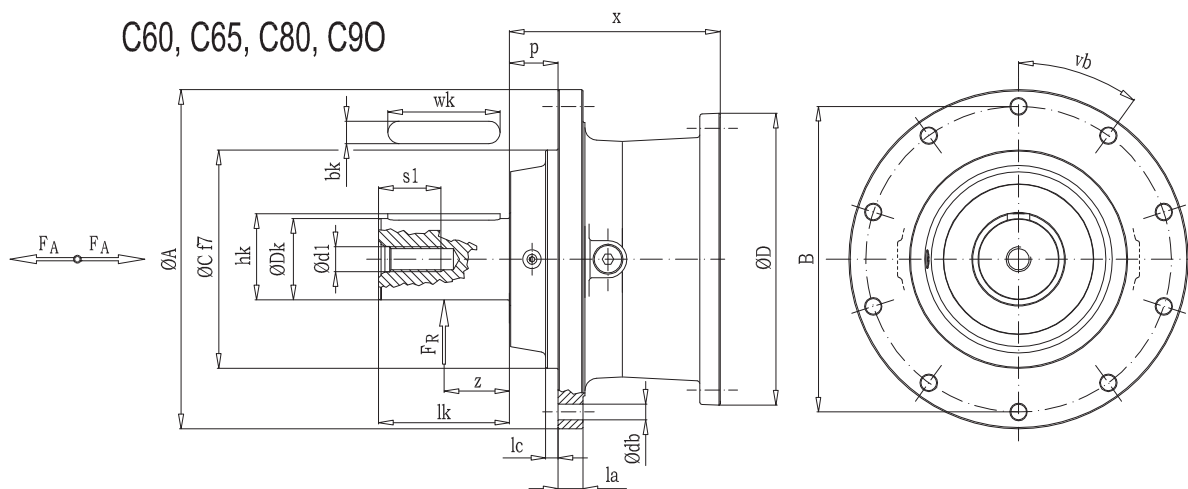


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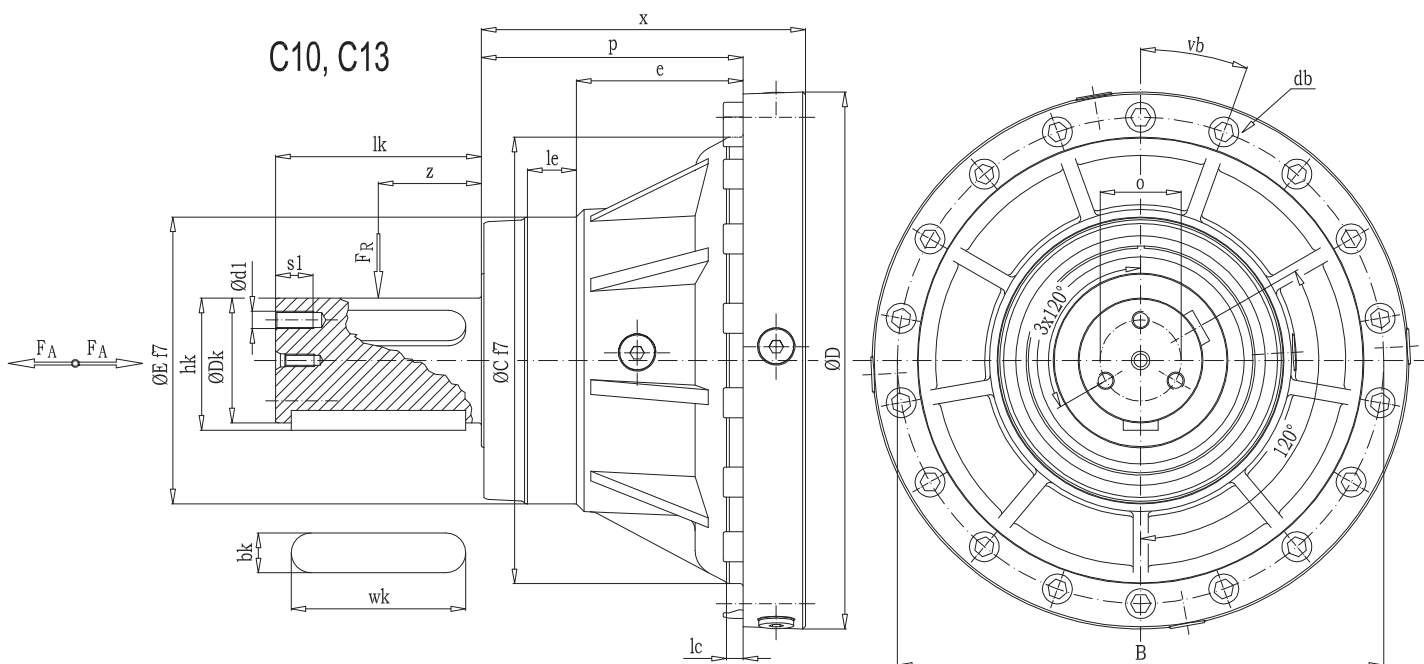
### C4N, C4R



### C60, C65, C80, C90



### C10, C13



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

Dimensions																				Admissible Shaft Loads [kN] (based on location of load and bearing life)																			
Type	A	la	B	db	vb	C	lc	D	E	e	p	Dk	lk	bk	hk	wk	d1	s1	o	z	FA <sup>①</sup>	FR shaft shoulder				FR middle of shaft				FR end of shaft				n <sub>r</sub>	x	h	Type		
																					10 <sup>5</sup>	10 <sup>6</sup>	10 <sup>7</sup>	10 <sup>8</sup>	10 <sup>5</sup>	10 <sup>6</sup>	10 <sup>7</sup>	10 <sup>8</sup>	10 <sup>5</sup>	10 <sup>6</sup>	10 <sup>7</sup>	10 <sup>8</sup>	10 <sup>5</sup>	10 <sup>6</sup>	10 <sup>7</sup>	10 <sup>8</sup>			
C4N	—	—	—	—	—	—	—	185	—	—	—	40 k6	58	12	43	50	M12	32	—	29	2	15.5	7.2	3.3	1.6	10.8	5.1	2.3	1.1	6.9	3.2	1.5	0.7	—	—	—	C4N		
C4R	—	—	—	—	—	—	—	185	—	—	—	40 k6	58	12	43	50	M12	32	—	29	2	32.6	16.3	8.2	4.1	16.3	7.6	3.5	1.6	10.3	4.8	2.2	1.0	—	—	—	C4R		
C60	220	18	195	12.5	10x36°	150	14	242	—	—	—	15	60 k6	105	18	64	90	M20	50	—	52.5	7	62.1	31.1	15.6	7.8	38.3	19.2	9.6	4.8	27.7	13.9	7.0	3.5	—	—	—	C60	
C65	272	20	245	12.5	10x36°	175	10	242	—	—	—	39	65 k6	105	18	69	90	M20	50	—	52.5	7	72.8	36.5	18.3	9.2	50.3	25.2	12.6	6.3	38.4	19.3	9.7	4.8	—	—	—	C65	
C80	280	22	250	15	12x30°	200	14.5	285	—	—	—	40	80 k6	130	22	85	110	M20	50	—	65	10	92.0	56.0	23.0	11.5	62.0	31.0	15.5	7.8	47.0	23.5	11.8	5.9	—	—	—	C80	
C90	325	25	295	16.5	20x18°	230	10	360	—	—	—	36	90 k6	170	25	95	150	M20	50	—	85	15	152	76.0	38.0	19.0	94.0	47.0	23.5	11.8	68.0	34.0	17.0	8.5	—	—	—	C90	
C10	—	—	390	M16	18x20°	358	13.5	432	230	40	135	210	100 m6	165	28	106	140	M14	30	65	82.5	20	212	106	53.0	27.0	142	71.0	36.0	18.0	107	54.0	27.0	14.0	—	—	—	C10	
C13	—	—	415	M18	18x20°	385	13	460	260	38	152	227	130 m6	170	32	137	160	M16	35	70	85	25	305	153	76.0	38.0	216	108	54.0	27.0	134	67.0	34.0	17.0	—	—	—	C13	

DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

① Max. values, which must not be exceeded. Combined thrust and radial shaft loads might reduce bearing life. Contact Plan-Star Engineering for precise life calculation.