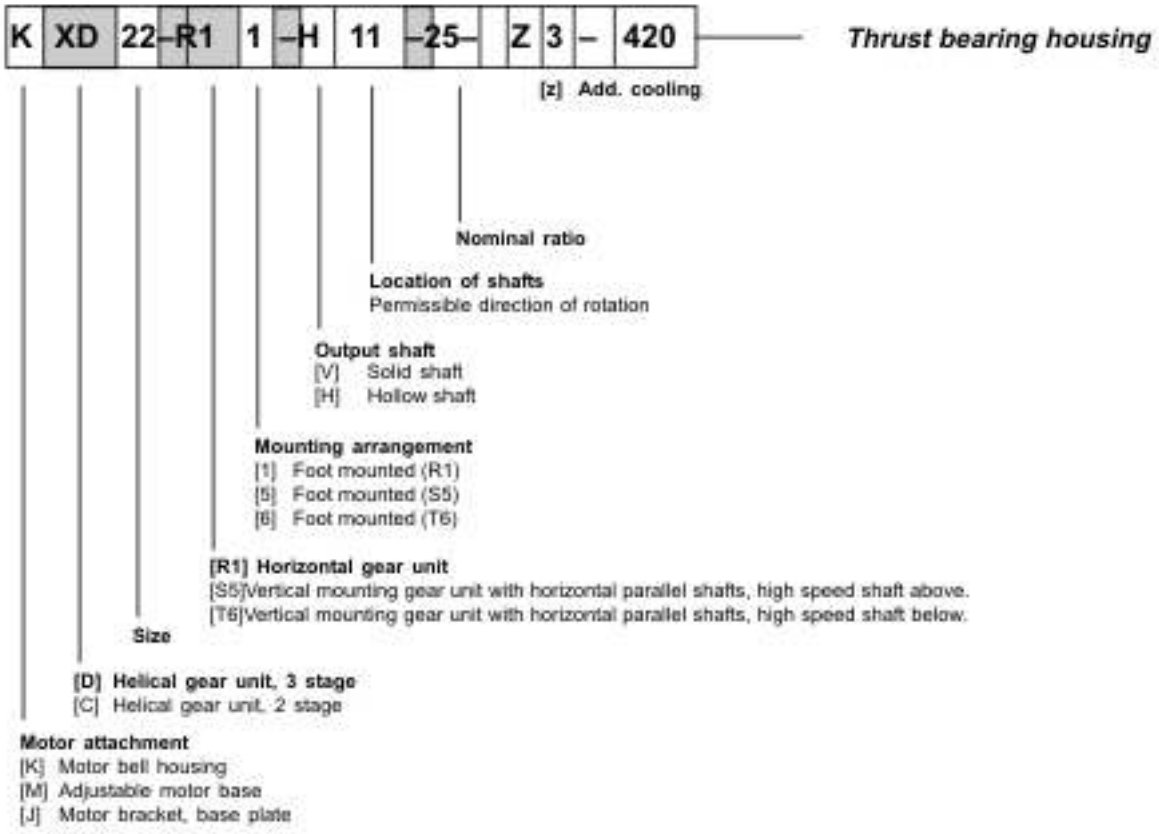
Combination

Combination : Gear Unit – Thrust Bearing Case

Size	318	415	417	418	420	422	424	428	430	436	440	448	452	456	460	464	468	472
XC/XD 14	I	I	I	I	I													
XC/XD 16				I	I	I	I											
XC/XD 18					I	I	I	I										
XC/XD 20							I	I	I									
XC/XD 22								I	I	I								
XC/XD 25										I	I							
XC/XD 28										I	I	I						
XC/XD 31											I	I	I					
XC/XD 35											I	I	I	I				
XC/XD 40												I	I	I	I			
XC/XD 42													I	I	I			
XC/XD 45														I	I	I		
XC/XD 47															I	I	I	

Example



Exact ratios

Helical Gear Units, two-stage

Type	Size												
XC	14	16	18	20	22	25	28	31	35	40	42	45	47
iN	Exact ratios												
4	3.98		4.00		3.95		4.03		3.97		3.92		
4.5	4.46		4.49		4.44		4.52		4.48		4.39		
5	5.01		5.06		5.01		5.10		5.06	5.24	4.92	4.83	
5.6	5.64		5.72	5.77	5.66	5.39	5.76	5.45	5.74	5.90	5.54	5.41	
6.3	6.38	6.48	6.35	6.49	6.29	6.06	6.40	6.13	6.27	6.68	6.27	6.08	6.00
7.1	7.24	7.26	7.26	7.31	7.18	6.83	7.31	6.90	7.16	7.58	7.12	6.84	6.72
8	7.89	8.15	7.94	8.26	7.86	7.71	8.00	7.80	7.68	8.27	7.76	7.73	7.54
9	8.89	9.18	9.00	9.18	8.91	8.57	9.07	8.67	8.70	9.45	8.74	8.79	8.49
10	10.1	10.4	9.90	10.5	9.80	9.80	9.98	9.90	9.99	10.1	9.95	9.58	9.60
11.2	11.2	11.8	11.4	11.5	11.3	10.7	11.5	10.8	10.9	11.5	11.0	10.8	10.9
12.5	13.0	12.9	12.7	13.0	12.6	12.1	12.8	12.3	12.8	13.2	12.8	12.3	11.9
14	14.5	14.5	14.2	14.3	14.0	13.4	14.3	13.5	14.4	14.3	14.2	13.5	13.4
16	16.2	16.5	16.1	16.5	15.7	15.4	16.2	15.6	15.9	16.9	15.5	15.7	15.3
18	17.8	18.2	17.8	18.4	17.3	17.1	18.2	17.3	17.8	18.9	17.6	17.6	16.8
20		21.1		20.5		19.1		19.3		21.0		19.1	19.5
22.4		23.5		23.2		21.4		22.0		23.5		21.8	21.8
25		26.3		25.7		23.6		24.7					23.7
28		28.9											27.0

Helical Gear Units, three-stage

Type	Size												
XD	14	16	18	20	22	25	28	31	35	40	42	45	47
iN	Exact ratios												
16			15.9				16.1		16.1		16.1		
18			17.7				18.0		18.1		17.9		
20	20.8		20.1		19.6		20.4		20.0	21.2	19.5	19.8	
22.4	23.2		22.5	22.9	21.9		23.0	21.8	23.0	23.8	23.0	22.1	
25	25.8		25.1	25.6	24.5	26.7	25.7	24.3	25.9	26.4	25.6	24.1	24.6
28	28.4		28.5	29.0	27.0	29.8	29.2	27.7	28.6	30.3	27.9	28.3	27.4
31.5	32.1	33.8	31.5	32.5	31.4	33.4	32.8	31.2	32.1	34.1	31.7	31.6	29.9
35.5	35.8	37.7	35.1	36.2	35.1	36.8	35.7	34.8	35.9	37.7	35.6	34.4	35.2
40	40.0	42.1	39.8	41.1	39.3	42.9	40.6	39.6	39.7	42.4	38.7	39.2	39.2
45	43.9	46.2	44.0	45.5	43.2	47.8	45.5	44.4	44.6	47.4	44.1	43.9	42.7
50	51.9	52.3	51.7	50.7	49.3	53.6	51.2	48.3	51.1	52.4	51.0	47.8	48.6
56	57.9	58.2	57.7	57.5	55.0	58.9	57.1	54.9	57.4	58.8	56.9	54.4	54.5
63	64.6	65.0	65.5	63.6	61.7	67.3	64.9	61.7	63.6	67.4	62.0	63.0	59.3
71	71.0	71.5	72.4	74.7	67.8	75.0	72.9	69.3	71.3	75.8	70.5	70.2	67.5
80		84.5	79.0	83.3		84.1	80.0	77.3	79.0	83.9	80.9	76.5	78.2
90		94.2	89.6	94.6		92.5	90.9	87.9	87.4	94.1	88.2	87.0	87.1
100		105	99.1	105			102	98.7	98.1	104	100	99.9	94.9
112		116		114				108		115		109	108
125				129				123		129		124	124
140				143				138					135
160													154

iN = Nominal Ratio

Nominal Output Torques

Type	Size												
XC	14	16	18	20	22	25	28	31	35	40	42	45	47
iN	Nominal Output Torques T_{2N} [kNm]												
4	3.10		5.86		13.8		21.4		45.8		63.7		
4.5			6.59		14.3		24.1		50.1		71.6		
5	3.12		7.32		14.6		24.5		50.9	57.3	79.6	79.6	
5.6	3.26		8.20	8.20	15.3	19.3	25.3	29.9	53.5	62.4	89.1	89.1	
6.3		4.61	8.48	9.23	16.0	20.1	26.5	33.7	57.0	64.2	92.3	100	100
7.1		5.10	8.85	10.4	16.6	20.8	27.1	34.8		67.8	101	113	113
8		5.41	8.86	11.8	16.8	20.9	29.0	36.2		71.8		117	127
9						21.4	30.8	37.8		76		126	143
10						22.8		38.2					146
11.2						23.2	32.2	42.0					155
12.5						24.2	33.9		59.3		105		
14			8.36			24.6	33.2		60.4				
16	3.10		8.20		16.5		32.0	43.5	57.0	79	104	131	
18	3.16							44.9			101	134	
20						23.3		46.4		76		129	161
22.4						21.4		43.7				126	164
25		5.10				22.8		42.8					160
28													155

Power ratings

Type			Size												
XC			14	16	18	20	22	25	28	31	35	40	42	45	47
	iN	n1 n2 [min⁻¹]	Nominal Power P_N [kW]												
Helical Gear Units, two-stage	4	1500 1000	375 250	121 81		230 153		542 360		840 560		1800 1200		2500 1670		
	4.5	1500 1000	335 220	108 72		230 153		500 360		840 560		1750 1170		2500 1670		
	5	1500 1000	300 200	98 65		230 153		460 350		770 513		1600 1070	1800 1200	2500 1670	2500 1670	
	5.6	1500 1000	270 180	91 58		230 153	230 153	430 310	540 360	710 473	840 560	1500 1000	1750 1170	2500 1670	2500 1670	
	6.3	1500 1000	240 160	81 52	115 85	211 141	230 153	400 270	500 360	661 441	840 560	1430 955	1600 1070	2300 1535	2500 1660	2500 1660
	7.1	1500 1000	211 141	72 46	112 75	196 131	230 153	367 245	460 350	600 400	770 513	1260 840	1500 1000	2230 1490	2500 1670	2500 1670
	8	1500 1000	188 125	64 41	106 71	174 116	232 155	330 220	410 310	570 380	711 474	1120 746	1490 990	1985 1325	2300 1530	2500 1660
	9	1500 1000	167 111	57 35	94 63	155 103	206 137	294 196	374 249	538 358	660 440	995 663	1320 880	1763 1175	2200 1470	2500 1665
	10	1500 1000	150 100	51 33	85 57	139 93	185 123	264 176	358 239	483 322	600 400	895 600	1200 800	1590 1058	1980 1320	2300 1530
	11.2	1500 1000	134 89	46 29	76 51	124 83	165 110	236 157	326 217	452 301	589 391	800 533	1070 710	1420 945	1770 1180	2175 1450
	12.5	1500 1000	120 80	41 26	68 45	111 74	148 99	211 141	304 203	426 284	527 351	745 500	955 640	1320 880	1585 1055	1950 1300
	14	1500 1000	107 71	37 23	61 41	94 63	132 88	189 126	276 184	373 249	470 312	680 452	853 570	1180 786	1415 945	1740 1160
	16	1500 1000	94 63	30 20	53 35	81 54	116 77	160 110	242 161	314 209	427 285	560 370	775 520	1020 680	1290 860	1520 1015
	18	1500 1000	83 56	28 18	47 31	71 48	103 69	146 96	216 143	280 187	392 261	500 330	690 460	878 590	1170 780	1355 920
	20	1500 1000	75 50		42 28		93 62		183 122		364 243		596 398		1010 675	1270 845
	22.4	1500 1000	67 44.5		38 25		82 55		160 105		306 204		533 355		884 587	1150 770
	25	1500 1000	60 40		32 21		74 49		143 95		269 179					1005 670
	28	1500 1000	54 35.5		29 19											875 575

Nominal Output Torques

Type	Size												
XD	14	16	18	20	22	25	28	31	35	40	42	45	47
iN	Nominal Output Torques T_{2N} [kNm]												
16			8.86				27.6		59.3				
18			8.36				30.8		60.4				
20	3.26		8.20		16.8		32.0		57.0	79.0	105	131	
22.4			8.86				33.9	37.5	59.3			134	
25	3.01		8.36		16.5	24.6		42.0	60.4	76.0		131	161
28	3.16		8.20			23.3	32.0	45.7	57.0	79.0			164
31.5	3.26	5.41			16.8	22.8		47.0			101	134	161
35.5			8.36				33.9		60.4	76.0	105	129	
40	3.10	5.10	8.20		16.5	24.6	32.0	43.7	57.0			126	164
45	3.16					23.3		42.8		79.0	101	134	160
50	3.26	5.41	8.86	11.8	16.8	22.8	33.9	47.0	59.3	76.0	105	129	155
56			8.36					43.7	60.4			126	164
63	3.10	5.10	8.20		16.5	24.6	32.0	42.8	57.0	79.0		131	160
71	3.16					23.3		47.0			101	134	155
80		5.41	8.36			22.8	30.8		60.4	76.0	105	129	161
90			8.20				32.0	43.7	57.0			126	164
100		5.10						42.8		79.0	101	134	160
112								42.0		76.0		129	155
125								43.7				126	164
140								42.8					160
160													155

Power ratings

Type			Size												
XD			14	16	18	20	22	25	28	31	35	40	42	45	47
	iN	n1 n2 [min⁻¹]	Nominal Power P_N [kW]												
Helical Gear Units, three-stage	16	1500 / 1000	94 / 63			87 / 58				300 / 200		582 / 388		1031 / 687		
	18	1500 / 1000	83 / 56			73 / 49				267 / 178		527 / 351		917 / 611		
	20	1500 / 1000	75 / 50	26 / 17		64 / 43		132 / 88		252 / 168		447 / 298	621 / 414	817 / 545	1029 / 686	
	22.4	1500 / 1000	67 / 44.5	23 / 15.2		62 / 41	83 / 55	118 / 79		239 / 159	294 / 195	416 / 277	554 / 369	737 / 491	937 / 625	
	25	1500 / 1000	60 / 40	19.5 / 13		53 / 35	74 / 49	103 / 69	155 / 103	213 / 142	264 / 176	380 / 253	477 / 318	660 / 440	808 / 539	1013 / 675
	28	1500 / 1000	54 / 35.5	18 / 12		46 / 29	66 / 39	93 / 62	130 / 87	180 / 120	256 / 171	322 / 209	443 / 295	584 / 389	736 / 490	922 / 615
	31.5	1500 / 1000	47.5 / 31.5	16 / 11	27 / 18	41 / 27	59 / 39	84 / 56	113 / 75	160 / 107	235 / 157	284 / 189	394 / 263	502 / 333	666 / 444	796 / 531
	35.5	1500 / 1020	42.5 / 28	14 / 9.3	24 / 16	37 / 25	52 / 35	74 / 49	101 / 67	150 / 100	208 / 139	267 / 178	338 / 223	465 / 310	569 / 379	713 / 475
	40	1500 / 1000	37.5 / 25	12.2 / 8.1	20 / 13.3	32 / 21	46 / 31	65 / 43	97 / 65	126 / 84	172 / 115	224 / 149	300 / 200	409 / 273	495 / 330	645 / 430
	45	1500 / 1000	33.5 / 22.2	11 / 7.3	18 / 12	29 / 19	41 / 27	58 / 39	81 / 54	112 / 75	150 / 100	200 / 133	276 / 184	354 / 235	466 / 311	557 / 371
	50	1500 / 1020	30 / 20	10 / 6.7	17 / 11	28 / 19	37 / 25	53 / 35	71 / 47	106 / 71	148 / 99	186 / 124	234 / 156	330 / 220	404 / 269	487 / 324
	56	1500 / 1000	27 / 17.9	9.1 / 6.1	15 / 10	23 / 15	32 / 21	47 / 31	64 / 43	95 / 63	123 / 82	169 / 113	215 / 142	296 / 197	356 / 236	461 / 307
	63	1500 / 1000	23.8 / 16	7.7 / 5.2	12.7 / 8.5	20 / 13	29 / 19	41 / 27	61 / 41	80 / 53	107 / 71	142 / 95	197 / 131	259 / 173	327 / 218	398 / 265
	71	1500 / 1020	21 / 14	7.0 / 4.7	11 / 7.3	18 / 12	26 / 17	37 / 24	51 / 34	71 / 47	104 / 69	126 / 84	175 / 117	222 / 148	295 / 197	340 / 227
	80	1500 / 1020	18.8 / 12.5		11 / 7.3	16 / 11	23 / 15		45 / 30	60 / 40	92 / 61	119 / 79	149 / 99	206 / 137	252 / 168	317 / 211
	90	1500 / 1000	16.7 / 11.1		9.4 / 6.3	14.3 / 9.5	21 / 13		40 / 27	56 / 37	76 / 51	99 / 66	133 / 89	182 / 121	220 / 146	284 / 191
	100	1500 / 1000	15 / 10		7.7 / 5.1	12.9 / 8.6	18 / 12			50 / 33	67 / 45	90 / 60	124 / 83	158 / 105	210 / 140	251 / 167
	112	1500 / 1020	13.4 / 8.9		7.2 / 4.8		17 / 11				59 / 39		106 / 71		180 / 120	217 / 144
	125	1500 / 1020	12 / 8				15 / 9.9				55 / 37		96 / 64		158 / 105	206 / 137
	140	1500 / 1020	10.7 / 7.1				13 / 8.6				48 / 32					179 / 119
	160	1500 / 1020	9.4 / 6.3													152 / 102

Thermal capacities

Average air speed	Type XC..-R1												
	Size												
	14	16	18	20	22	25	28	31	35	40	42	45	47
	P_{t0} [kw] without add. cooling												
Vw=0.5 m/s 1)	30	40	50	64	78	94	111	132	149	191	216	260	315
Vw=1.2 m/s 2)	42	55	70	89	108	130	154	184	207	265	300	361	437
Vw=4.0 m/s 3)	54	71	90	114	138	166	197	235	265	339	384	462	559
	P_{t3} [kw] with cooling coil												
Vw = 0.5 m/s 1)	85	163	113	232	201	414	347	576	469	876	728	945	1000
Vw = 1.2 m/s 2)	97	178	133	257	231	450	390	628	527	950	812	1046	1122
Vw = 4.0 m/s 3)	109	193	153	282	261	486	433	680	585	1024	896	1147	1244
Vw = 0.5 m/s	Values of P_{t0} and P_{t3} meant for gearbox sizes **22-47** are applicable from ratios as indicated.				8	8	8	8	12.5	12.5	12.5	12.5	12.5
Vw = 1.2 m/s					(For smaller ratios consult				7.1	7.1	9	9	9
Vw = 4.0 m/s									5	5	6.3	6.3	6.3
	Type XD..-R1												
	P_{t0} [kw] without add. cooling												
Vw = 0.5 m/s 1)	20	27	34	42	52	62	73	89	111	127	144	174	210
Vw = 1.2 m/s 2)	28	37	47	59	72	86	102	123	154	177	200	241	291
Vw = 4.0 m/s 3)	36	47	60	76	92	110	131	157	197	227	256	308	372
	P_{t3} [kw] with cooling coil												
Vw = 0.5 m/s 1)	57	109	76	154	134	276	231	385	325	584	485	631	667
Vw = 1.2 m/s 2)	65	119	89	171	154	300	260	419	368	634	541	698	748
Vw = 4.0 m/s 3)	73	129	102	188	174	324	289	453	411	684	597	765	829
Vw = 0.5 m/s	Values of P_{t0} and P_{t3} meant for gearbox sizes **35-47** are applicable from ratios as indicated. (For smaller ratios consult								20	20	22.4	22.4	22.4
Vw = 1.2 m/s									16	20	16	20	25
Vw = 4.0 m/s									16	20	16	20	25

1) Small closed room, little air movement
2) Large hall with free air movement
3) Constantly strong air movement

Table 1 :	Thermal Factor f_w	
J = [°C]	ED 100%	ED 80%
10	1.14	1.21
20	1.00	1.06
30	0.86	0.91
40	0.71	0.76
50	0.57	0.61

Thermal capacities of types XC / XD-S5 and - T6 on request

Table 2 :	f_A - Utilization Factor								
	Utilization P_e / P_N [%]								
20	30	40	50	60	70	80	90	100
0.7	0.8	0.86	0.9	0.93	0.96	0.98	0.99	1

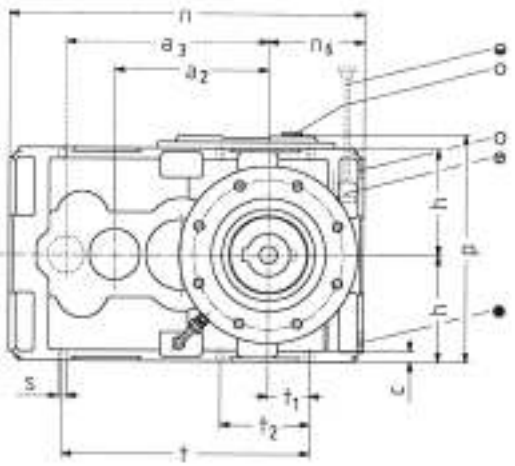
Table 3 : Thrust bearing Factor f_L for P_{t0}																		
Size	Thrust Bearing Case																	
	318	415	417	418	420	422	424	428	430	436	440	448	452	456	460	464	468	472
XC/XD 14	1.06	1.05	1.05	1.03	1.02													
XC/XD 16				1.02	1.01	1.00	0.97											
XC/XD 18					1.01	1.00	0.98	0.94										
XC/XD 20							0.98	0.96	0.93									
XC/XD 22								0.96	0.94	0.86								
XC/XD 25										0.88	0.81							
XC/XD 28										0.90	0.84	0.79						
XC/XD 31											0.87	0.82	0.76					
XC/XD 35											0.94	0.90	0.85	0.78				
XC/XD 40												0.92	0.88	0.82	0.82			
XC/XD 42													0.90	0.84	0.84	0.81		
XC/XD 45														0.87	0.87	0.84	0.80	
XC/XD 47															0.88	0.85	0.82	0.85
	f_L for P_{t3} (with cooling coil)																	
XC/XD 14	1.00	0.98	0.97	0.96	0.93													
XC/XD 16				0.98	0.96	0.94	0.92											
XC/XD 18					0.95	0.92	0.89	0.84										
XC/XD 20							0.94	0.92	0.89									
XC/XD 22								0.92	0.90	0.81								
XC/XD 25										0.89	0.84							
XC/XD 28										0.87	0.81	0.76						
XC/XD 31											0.88	0.85	0.81					
XC/XD 35											0.88	0.85	0.80	0.72				
XC/XD 40												0.91	0.89	0.84	0.83			
XC/XD 42													0.87	0.82	0.81	0.77		
XC/XD 45														0.86	0.85	0.82	0.77	
XC/XD 47															0.85	0.83	0.78	0.80

Dimensions

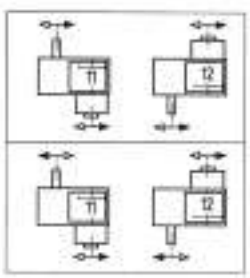
900-6021-MB 1/1

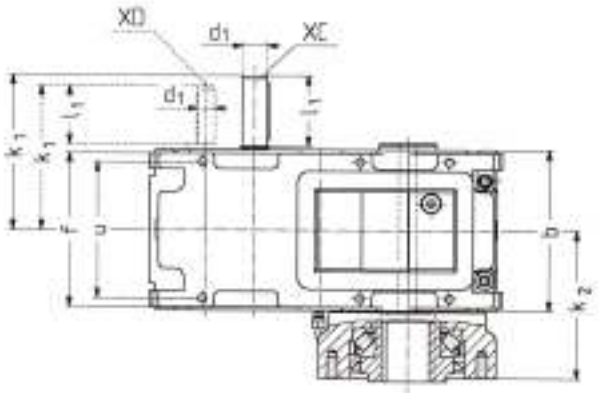
12.99

Type **XC 14-R1 … XC 31-R1** (two-stage)
XD 14-R1 … XD 31-R1 (three-stage)



Location of input and output shaft - Directions of rotation





Location of shafts on the same side on request

- Filling Plug
- Oil Level
- Oil Drain
- Breather

Type	a2	Input shaft ød1	k1	l1	Oil filling *)(l)	Type	a3	Input shaft iN	ød1 se	k1	l1	Oil filling *)(l)
XC 14	216	35k6	218	100	8	XD 14	285	20...71	25	203	82	8
XC 16	272	35k6	218	100	11	XD 16	341	31.5...112				11
XC 18	293	45k6	275	120	17	XD 18	387	16...45	35	283	100	17
								50...100	30			
XC 20	347	45k6	275	120	23	XD 20	441	22.4...63	35	283	100	23
								71...140	30			
XC 22	376	60m6	337	140	31	XD 22	492	20...45	50	347	120	31
								50...71	40			
XC 25	434	60m6	337	140	40	XD 25	550	25...56	50	347	120	40
								63...90	40			
XC 28	464	70m6	369	140	51	XD 28	591	16...45	50	362	120	51
								50...100	40			
XC 31	532	70m6	369	140	70	XD 31	659	22.4...63	50	362	120	70
								71...140	40			

Tapped centre holes in shaft ends DIN 332 Form DS

d1				
25...30	35	40...50	65...85	>85
M10	M12	M16	M 20	M24

Keys to DIN 6885/1 supplied by

Type of protection as per IP 55

*) Standard value only, oil filling acc. to dip stick or oil level glass

Type	b	c	f	h -0.2	n	n6	p	ø s	t	t1	t2	u	Thrust bearing k2: 318	415	417	418	420	422	424	428	430	436	440	448	452	Weight kg 1)
XC/XD 14	226	15	216	150	500	134	333	12	348	58	125	192	208	221	233	238	253									150
XC/XD 16	226	15	216	180	605	183	393	12	453	107	217	192				238	253	258	263							215
XC/XD 18	294	18	284	190	654	171	419	14.5	486	87	175	248					287	292	297	317						300
XC/XD 20	294	18	284	225	764	227	489	14.5	596	143	285	248							297	317	322					400
XC/XD 22	358	24	346	235	826	215	513	18.5	622	113	226	306								349	354	384				530
XC/XD 25	358	24	346	265	940	271	573	18.5	736	169	340	306										384	404			730
XC/XD 28	420	28	408	280	1000	256	610	24	752	132	265	360										415	435	440		920
XC/XD 31	420	28	408	315	1137	325	680	24	889	201	402	360											435	440	455	1260

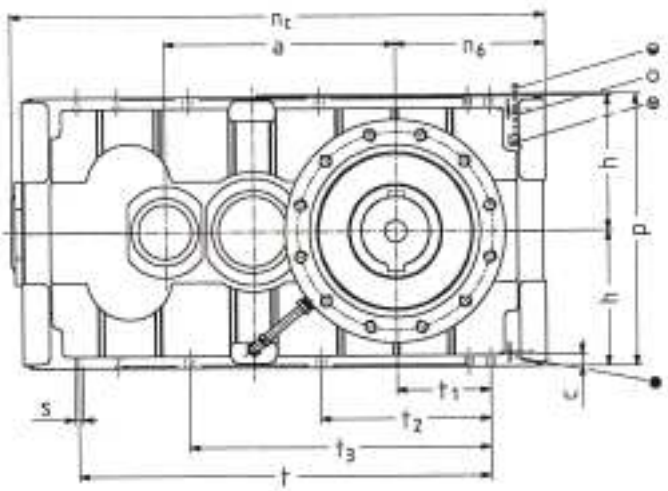
1) Combination with bearing of medium size

Dimensions

900-6021-MB 2

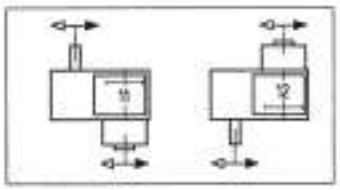
12.99

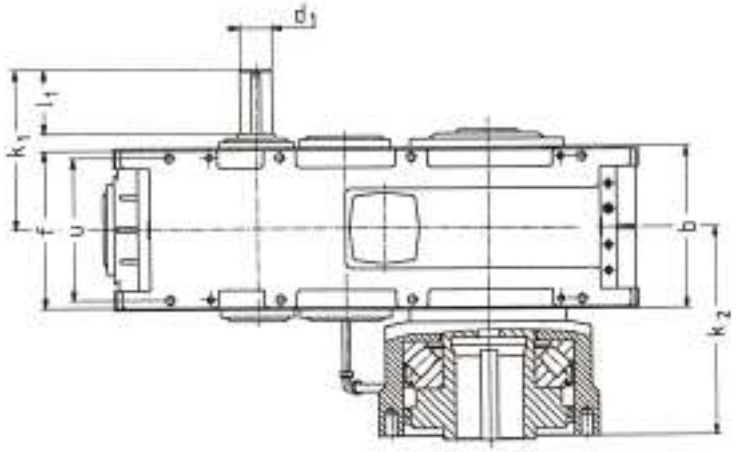
Type **XC 35-R1 ... XC 47-R1** (two-stage)



Location of input and output shaft - Directions of rotation

XC





Location of shafts on the same side on request

○ Filling Plug
◒ Oil Level
● Oil Drain
⊗ Breather

Tapped centre hole in shaft ends DIN 332 Form DS
d1
90
M24

Type	a	Input shaft ød1	k1	l1	Oil filling *)(l)
XC 35	570	90m6	446	180	60
XC 40	647	90m6	446	180	81
XC 42	693	100m6	537	215	98
XC 45	759	100m6	537	215	140
XC 47	845	100m6	537	215	187

*) Standard value only, oil filling acc. to dip stick or oil level glass

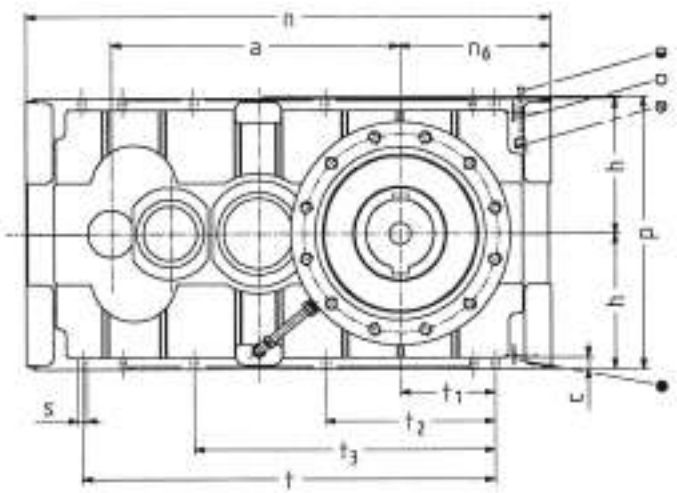
Type	b	c	f	h -0.2	nc	n6	p	ø s	t	t1	t2	t3	u	Thrust bearing 440	448	452	456	460	464	468	472	Weight
														k2								kg 1)
XC 35	450	32	438	300	1346	345	610	24	1005	190	325	695	396	560	565	585	620					2150
XC 40	450	32	438	375	1501	423	760	24	1157	265	477	847	396		550	580	610	635				2605
XC 42	530	40	514	355	1652	422	720	28	1230	225	390	820	460			620	650	675	710			3185
XC 45	530	40	514	425	1786	490	860	28	1356	285	516	946	460				650	675	710	765		4095
XC 47	530	40	514	500	1957	575	1010	28	1527	370	687	1117	460					635	670	735	755	4860

1) Combination with bearing of medium size

Dimensions

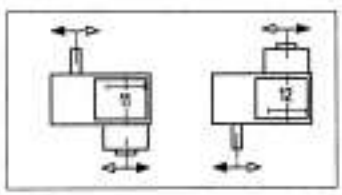
900-6031-MB 2
12.99

Type **XD 35-R1 … XD 47-R1** (three-stage)

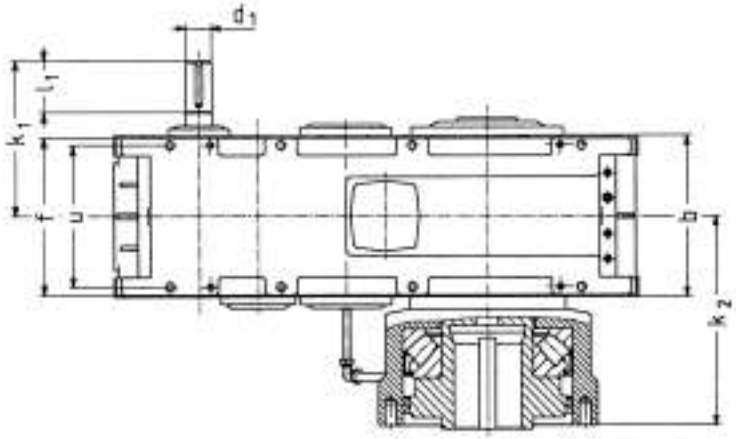


Location of input and output shaft - Directions of rotation

XD



Location of shafts on the same side on request



- Filling Plug
- Oil Level
- Oil Drain
- Breather

Keys to DIN 6885/1 supplied by ELECON. Type of protection as per IP 55

*) Standard Value only, oil filling acc. to dip stick or oil level glass

Type	a	Input shaft								Oil filling *)[l]
		iN	ød1 m6	k1	l1	iN	ød1 m6	k1	l1	
XD 35	734	16...45	70	435	145	50...100	50k6	415	125	65
XD 40	811	20...56	70	435	145	63...125	50k6	415	125	86
XD 42	894	16...45	80	508	170	50...100	65	483	145	108
XD 45	960	20...56	80	508	170	63...125	65	483	145	150
XD 47	1046	25...71	80	508	170	80...160	65	483	145	202

Tapped centre holes in shaft ends DIN 332 Form DS	
d1	
50	60...80
M16	M 20

Type	b	c	f	h -0.2	n	ns	p	ø s	t	t1	t2	t3	u	Thrust bearing k2								Weight kg 1)
														440	448	452	456	460	464	468	472	
XD 35	450	32	438	300	1315	345	610	24	1005	190	325	695	396	560	565	585	620					2200
XD 40	450	32	438	375	1470	423	760	24	1157	265	477	847	396		550	580	610	635				2655
XD 42	530	40	514	355	1615	422	720	28	1230	225	390	820	460			620	650	675	710			3255
XD 45	530	40	514	425	1749	490	860	28	1356	285	516	946	460				650	675	710	765		4165
XD 47	530	40	514	500	1920	575	1010	28	1527	370	687	1117	460					635	670	735	755	4920

1) Combination with bearing of medium size

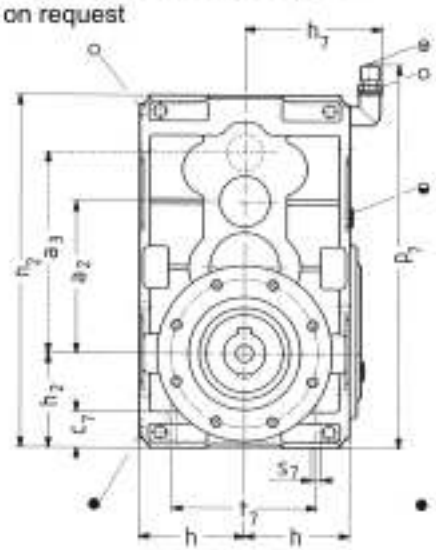
Dimensions

900-6025-MB 1/1

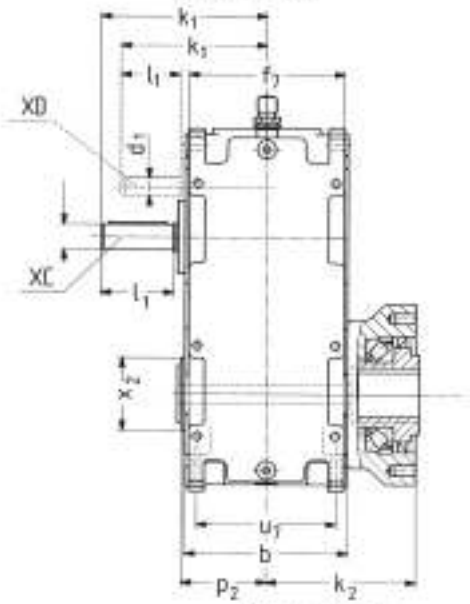
12.99

Type **XC 14-S5 ... XC 31-S5** (two-stage)
XD 14-S5 ... XD 31-S5 (three-stage)

Sizes 35 -47 on request

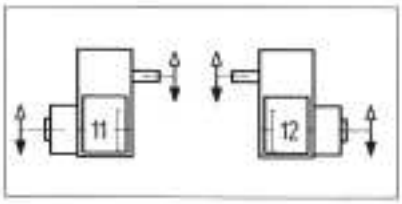


Location of input and output shaft - Directions of rotation

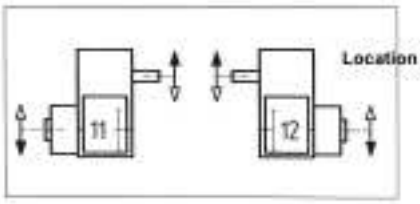


Directions of rotation

XC



XD



Location of shafts on the same side on request

- Filling Plug
- Oil Level
- Oil Drain
- Breather

Type	a2	Input shaft ød1	k1	l1	Oil filling *)(l)	Type	a3	Input shaft iN	ød1 k6	k1	l1	Oil filling *)(l)
XC 14	216	35k6	218	100	13	XD 14	285	20...71	25	203	82	15
XC 16	272	35k6	218	100	20	XD 16	341	31.5...112				23
XC 18	293	45k6	275	120	29	XD 18	387	16...45	35	283	100	35
								50...100	30			
XC 20	347	45k6	275	120	38	XD 20	441	22.4...63	35	283	100	45
								71...140	30			
XC 22	376	60m6	337	140	50	XD 22	492	20...45	50	347	120	60
								50...71	40			
XC 25	434	60m6	337	140	65	XD 25	550	25...56	50	347	120	80
								63...90	40			
XC 28	464	70m6	369	140	82	XD 28	591	16...45	50	362	120	102
								50...100	40			
XC 31	532	70m6	369	140	120	XD 31	659	22.4...63	50	362	120	140
								71...140	40			

Tapped centre holes in shaft ends DIN 332 Form DS

d1				
25...30	35	40...50	65...85	>85
M10	M12	M16	M 20	M24

Type of protection as per IP 55

*) Standard value only, oil filling acc. to dip stick or oil level glass

Type	b	c7	f7	h -0.2	h2 -0.2	h7	n2	p2	p7	Fitting øs7	dsX lmax	t7	u7	x2	Thrust bearing k2 318	415	417	418	420	422	424	428	430	436	440	448	452	Weight kg 1)
XC/XD 14	226	51	216	150	34	195	500	130	535	14.5	M12x90	206	194	165	208	221	233	236	253									150
XC/XD 16	226	51	216	180	83	225	606	133	640	14.5	M12x90	266	194	195				236	253	258	263							215
XC/XD 18	294	62	284	190	71	245	654	167	690	16.5	M14x100	260	258	220					287	292	297	317						300
XC/XD 20	294	62	284	225	27	280	764	172	795	16.5	M14x100	330	258	250							297	317	322					400
XC/XD 22	358	76	346	235	15	305	826	-	865	24	M20x130	326	312	—								349	354	384				530
XC/XD 25	358	77	346	265	71	335	940	207	980	24	M20x130	384	312	310										384	404			730
XC/XD 28	420	86	408	280	56	360	1000	240	1030	28	M24x150	386	366	335										415	435	440		920
XC/XD 31	420	95	408	315	25	395	1137	242	1165	28	M24x160	456	366	375											435	440	455	1260

1) Combination with bearing of medium size

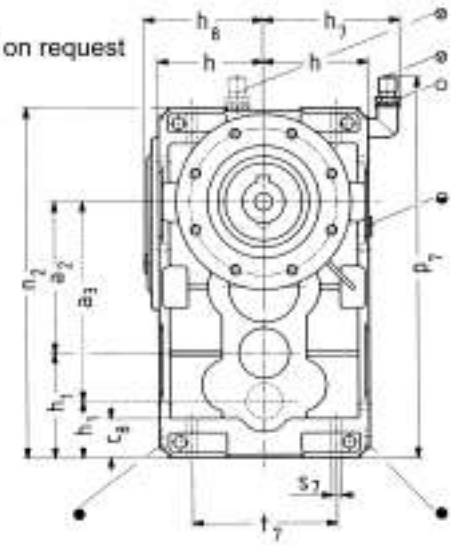
Dimensions

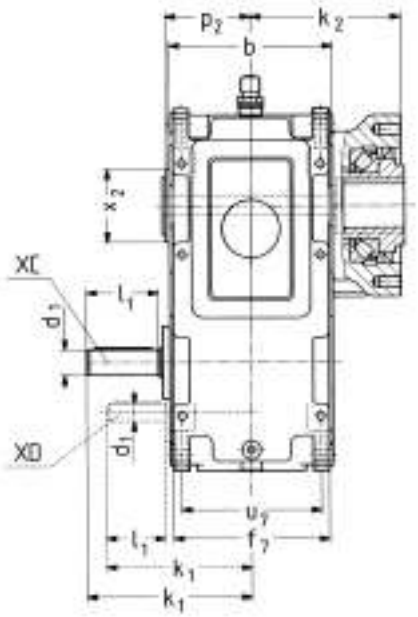
900-6026-MB 1/1

12.99

Type **XC 14-T6 … XC 31-T6** (two-stage)
XD 14-T6 … XD 31-T6 (three-stage)

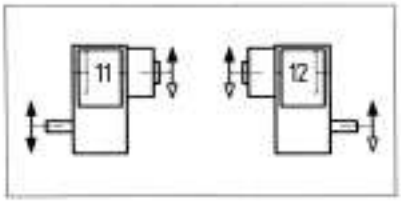
Sizes 35 -47 on request



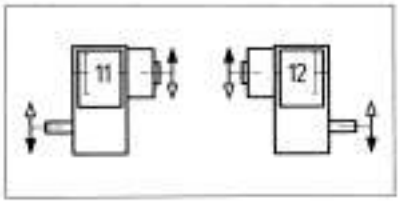


Location of input and output shaft - Directions of rotation

XC



XD



Location of shafts on the same side on request

- Filling Plug
- Oil Level
- Oil Drain
- Breather

Type	a2	h1 -0.2	Input shaft ød1	k1	l1	Oil filling *)(l)	Type	a3	h1 -0.2	Input shaft iN	ød1 k6	k1	l1	Oil filling *)(l)
XC 14	216	150	35k6	218	100	13	XD 14	285	81	20...71	25	203	82	12
XC 16	272		35k6	218	100	21	XD 16	341		31.5...112				18
XC 18	293	190	45k6	275	120	30	XD 18	387	96	16...45	35	283	100	29
										50...100	30			
XC 20	347	190	45k6	275	120	38	XD 20	441	96	22.4...63	35	283	100	35
										71...140	30			
XC 22	376	235	60m6	337	140	52	XD 22	492	119	20...45	50	347	120	51
										50...71	40			
XC 25	434	235	60m6	337	140	65	XD 25	550	119	25...56	50	347	120	65
										63...90	40			
XC 28	464	280	70m6	369	140	90	XD 28	591	153	16...45	50	362	120	90
										50...100	40			
XC 31	532	280	70m6	369	140	135	XD 31	659	153	22.4...63	50	362	120	125
										71...140	40			

Tapped centre holes in shaft ends DIN 332 Form DS				
d1				
25...30	35	40...50	65...85	>85
M10	M12	M16	M 20	M24

Type of protection as per IP 56

*) Standard value only, oil filling acc. to dip stick or oil level glass

Type	b	c3	f7	h -0.2	h7	h3	n2	p2	p7	Fitting ø57	dxx lmax	t7	u7	x2	Thrust bearing 318	415	417	418	420	422	424	428	430	436	440	448	452	Weight kg 1)
															k2													
XC/XD 14	226	57	216	150	195	183	500	130	535	14.5	M12x90	206	194	165	208	221	233	238	253									150
XC/XD 16	226	57	216	180	225	213	605	133	640	14.5	M12x90	266	194	195				238	253	258	263							215
XC/XD 18	294	64	284	190	245	229	654	167	690	16.5	M14x100	260	258	220					287	292	297	317						300
XC/XD 20	294	64	284	225	280	264	764	172	795	16.5	M14x100	330	258	250							297	317	322					400
XC/XD 22	358	76	346	235	305	278	826	-	865	24	M20x130	326	312	-								349	354	384				530
XC/XD 25	358	77	346	265	335	308	940	207	980	24	M20x130	384	312	310										384	404			730
XC/XD 28	420	92	408	280	360	330	1000	240	1030	28	M24x150	386	366	335										415	435	440		920
XC/XD 31	420	96	408	315	395	365	1137	242	1165	28	M24x160	456	366	375											435	440	465	1260

1) Combination with bearing of medium size

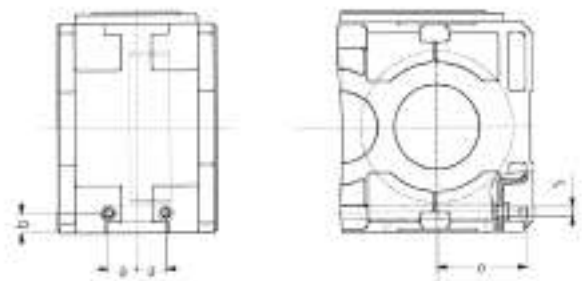
Dimensions

900-6002-MB 1

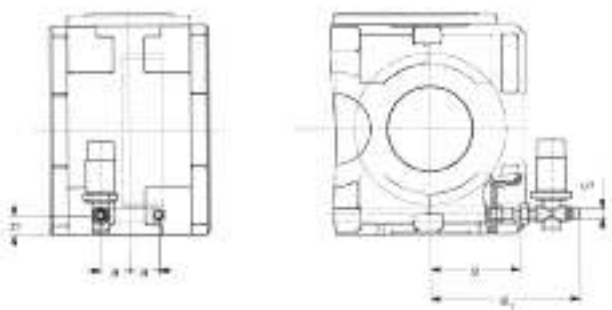
12.99

Cooling coil for horizontal position of gear case R1

XC / XD 14

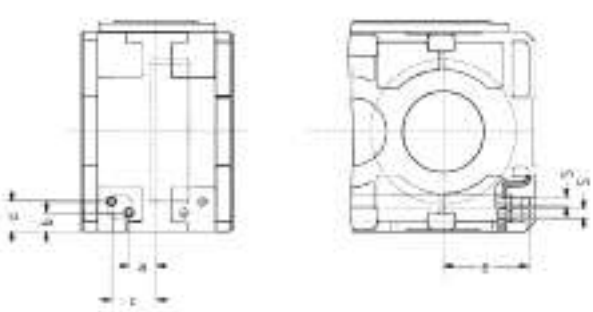


Water connection for cooling coil without cooling water controler

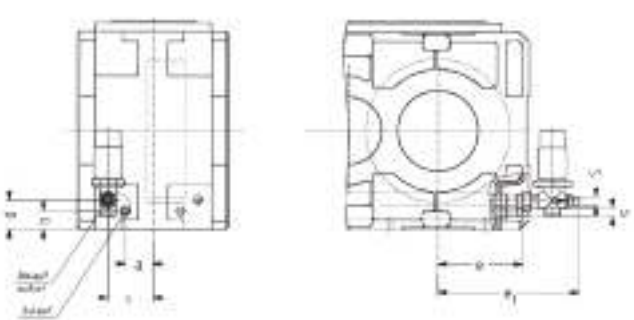


Water connection for cooling coil with cooling water controler

FROM XC / XD 16



Water connection for cooling coil without cooling water controler



Water connection for cooling coil with cooling water controler

Cooling coil placed adjacent to the final gear wheel. For the gear wheel position see the dimension sheets

Size	a	b	c	d	e	e1	s	water l/min	D pw bar
14	36	34	–	–	131	294	R 3/8A	6	0.3
16	38	34	38	74	192	346	R 3/8A	6	0.55
18	44	42	77	65	170	323	R 3/8A		0.3
20	44	42	74	69	225	378	R 3/8A		0.75
22	53	48	88	67	200	353	R 3/8A		0.75
25	55	48	76	115	263	399	R 1/2A	12	0.75
28	55	63	114	101	240	376	R 1/2A		0.55
31	58	60	111	106	300	436	R 1/2A		1.1
35	45	87	115	87	300	436	R 1/2A		0.75
40	35	97	125	97	375	511	R 1/2A		0.5
42	40	100	130	100	336	472	R 1/2A		0.4
45	40	100	130	100	404	540	R 1/2A		0.5
47	40	105	130	105	484	620	R 1/2A		0.5