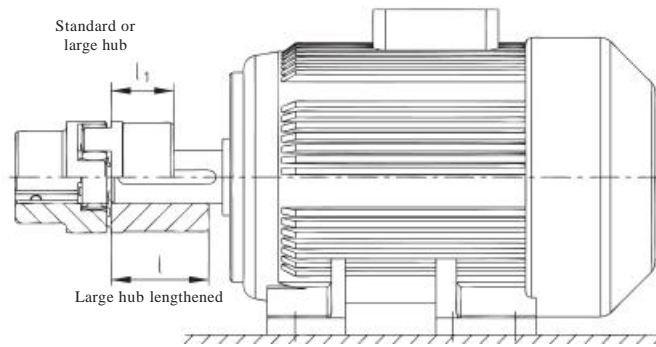


Selection of standard IEC motors



ROTEX® couplings for standard IEC motors, protection class IP 54/IP 55 (spider 92 Shore A)

A. C. motor 50 Hz		Motor power n= 3000 rpm 2 poles		ROTEX® coupling size	Motor power n= 1500 rpm 4 poles		ROTEX® coupling size	Motor power n= 1000 rpm 6 poles		ROTEX® coupling size	Motor power n= 750 rpm 8 poles		ROTEX® coupling size
Size	Shaft end d x l [mm]	Power P [kW]	Torque T [Nm]		Power P [kW]	Torque T [Nm]		Power P [kW]	Torque T [Nm]		Power P [kW]	Torque T [Nm]	
	2 poles			4, 6, 8 poles									
56	9 x 20	0.09	0.32	9 ¹⁾	0.06	0.43	9 ¹⁾	0.037	0.43	9 ¹⁾			
		0.12	0.41		0.09	0.64		0.045	0.52				
63	11 x 23	0.18	0.62		0.12	0.88		0.06	0.7				
		0.25	0.86	14	0.18	1.3	14	0.09	1.1	14			
71	14 x 30	0.37	1.3		0.25	1.8		0.18	2		0.09	1.4	14
		0.55	1.9		0.37	2.5		0.25	2.8		0.12	1.8	
80	19 x 40	0.75	2.5		0.55	3.7		0.37	3.9		0.18	2.5	
		1.1	3.7	19	0.75	5.1	19	0.55	5.8	19	0.25	3.5	19
90S	24 x 50	1.5	5		1.1	7.5		0.75	8		0.37	5.3	
90L		2.2	7.4		1.5	10		1.1	12		0.55	7.9	
100L	28 x 60	3	9.8	24	2.2 3	15	24	1.5	15	24	0.75	11	24
						20					1.1	16	
112M		4	13		4	27		2.2	22		1.5	21	
132S		5.5	18		5.5	36		3	30		2.2	30	
132M	38 x 80	7.5	25	28	7.5	49	28	4	40	28	3	40	28
								5.5	55				
160M	42 x 110	11	36		11	72		7.5	75	38	4	54	
		15	49	38			38				5.5	74	38
160L		18.5	60		15	98		11	109		7.5	100	
180M	48 x 110	22	71		18.5	121							
180L					22	144		15	148	42	11	145	42
200L	55 x 110	30	97	42	30	196	42	18.5	181		15	198	
		37	120					22	215				
225S	55 x 110				37	240	48				18.5	244	48
225M	60 x 140	45	145		45	292	55	30	293	55	22	290	55
250M	60 x 140	55	177	48	55	356		37	361		30	392	65
280S	75 x 140	75	241		75	484	65 ²⁾	45	438	65 ²⁾	37	483	65 ²⁾
280M		90	289	55	90	581		55	535		45	587	75
315S		110	353		110	707	75	75	727	75	55	712	75
315M	65 x 140	132	423	65	132	849		90	873		75	971	
		160	513		160	1030		110	1070		90	1170	
315L	80 x 170	200	641		200	1290	90	132	1280	90	110	1420	90
				75				160	1550		132	1710	
315	85 x 170	250	802		250	1600		200	1930		160	2070	
		315	1010		315	2020		250	2410	100	200	2580	100
		355	1140		355	2280	100						
355	75 x 140	400	1280	90	400	2570		315	3040	110	250	3220	110
		500	1600		500	3210	110	400	3850		315	4060	125
		560	1790		560	3580		450	4330	125	355	4570	
400	80 x 170	630	2020		630	4030	125	500	4810		400	5150	140
		710	2270	100	710	4540		560	5390	140	450	5790	
		800	2560		800	5120	140	630	6060		500	6420	
450	90 x 170	900	2880		900	5760		710	6830		560	7190	160
		1000	3200	110	1000	6400	160	800	7690	160	630	8090	

The coupling selection is based on an ambient temperature up to +30 °C. The selection is based on a minimum safety factor of 2 versus the max. coupling torque (TK max). A detailed selection is possible according to catalogue page 14 et seqq. Drives with periodical torque curves must be selected according to DIN 740 part 2. If requested, KTR will perform the selection. Torque T = rated torque according to Siemens catalogue M 11 · 1994/95.

- 1) For dimensions see ROTEX® GS series
- 2) For motor hub made of steel see page 40

ROTEX® Flexible jaw couplings

Cylindrical bores and spline bores

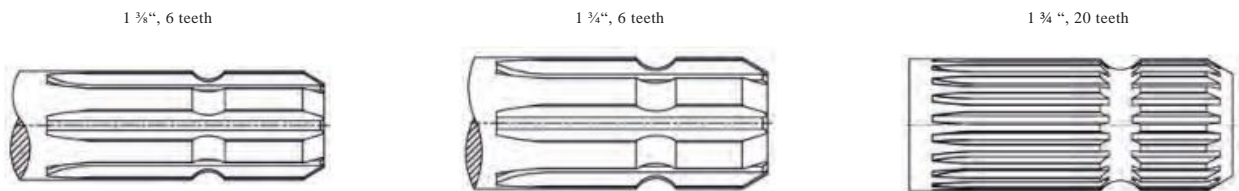
ROTEX® size		Stock programme of cylindrical finish bores [mm] H7 feather keyway acc. to DIN 6885 sheet 1 [JS9] and setscrew																																				
Material	Un-bored	Ø6	Ø8	Ø9	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø17	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75	Ø80	Ø85	Ø90	Ø100		
14	Sint	☒	☒	☒	☒	☒	☒	☒	☒	☒																												
	Al-H	☒	☒	☒	☒	☒	☒	☒	☒	☒																												
19	Sint	☒																																				
	Al-D	☒																																				
24	St	☒																																				
	Sint	☒																																				
28	Al-D	☒																																				
	St	☒																																				
38	GJL	☒																																				
	St	☒																																				
42	GJL	☒																																				
	St	☒																																				
48	GJL	☒																																				
	St	☒																																				
55	GJL	☒																																				
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75	GJL	☒																																				
	St	☒																																				
90	GJL	☒																																				
	St	☒																																				

Basic programme of SAE involute splines											
Spline code	Size	Pitch circle	Pitch	No. of teeth	Angle	Spline code	Size	Pitch circle	Pitch	No. of teeth	Angle
PH-S	5/8"	14.28	16/32	9	30°	PS-S	1 1/2"	35.98	12/24	17	30°
PI-S	3/4"	17.46	16/32	11	30°	PD-S	1 1/2"	36.51	16/32	23	30°
PB-S	7/8"	20.63	16/32	13	30°	PE-S	1 3/4"	42.86	16/32	27	30°
PB-BS	1"	23.81	16/32	15	30°	PK-S	1 3/4"	41.275	8/16	13	30°
PJ	1 1/8"	26.98	16/32	17	30°	PT-C 1)	2"	47.625	8/16	15	30°
PC-S	1 1/4"	29.63	12/24	14	30°	PQ-C 1)	2 1/4"	53.975	8/16	17	30°
PA-S	1 3/8"	33.33	16/32	21	30°						

Basic programme of spline bores acc. to DIN 5482									
Size	Pitch circle	Module	No. of teeth	Profile correction	Size	Pitch circle	Module	No. of teeth	Profile correction
A 17 x 14	14.40	1.6	9	+0.600 2)	A 35 x 31	31.50	1.75	18	+0.676
A 20 x 17	19.20	1.6	12	-0.2	A 40 x 36	38.00	1.9	20	+0.049
A 25 x 22	22.40	1.6	14	+0.550	A 45 x 41	44.00	2	22	+0.181
A 28 x 25	26.25	1.75	15	+0.302	A 50 x 45	48.00	2	24	+0.181
A 30 x 27	28.00	1.75	16	+0.327					

Basic programme of spline bores acc. to DIN 5480							
Spline code	Pitch circle	Module	No. of teeth	Spline code	Pitch circle	Module	No. of teeth
20 x 1 x 18 x 7H	18.0	1	18	40 x 2 x 18 x 8H	36.0	2	18
20 x 1.25 x 14 x 7H	17.5	1.25	14	45 x 2 x 21 x 7H	41.0	2	21
25 x 1.25 x 18 x 7H	22.5	1.25	18	48 x 2 x 22 x 9H	44.0	2	22
28 x 1.25 x 21 x 7H	26.25	1.25	21	50 x 2 x 24 x 8H	48.0	2	24
30 x 2 x 14 x 7H	26.0	2	14	60 x 2 x 28 x 8H	56.0	2	28
32 x 2 x 14 x 8H	28.0	2	14	75 x 3 x 24 x 7H	72.0	3	24
35 x 2 x 16 x 8H	32.0	2	16	80 x 3 x 25 x 8H	75.0	3	25

Basic programme of spline bores acc. to DIN 9611 - ISO 500 (p.t.o. shaft connection)				
Size	Width of keyway	No. of teeth	Tip circle	Root circle
1 3/8"	8.69	6	34.93	29.65
1 3/8"	-	21	34.95	34.80 3)
1 3/4"	11.07	6	44.45	37.74
1 3/4"	-	20	45.20	40.20



Spline clamping hubs are often adapted to the shafts of hydraulic pumps/hydraulic motor shafts. Please contact us for the respective hub length of the spline code!

1) For clamping hubs only, with plug-in hubs use code PT or PQ.
2) Profile correction different from DIN
3) Similar to code PA-S