

Curved Tooth Couplings

Construction Series LBkD

Dimension Table No. 243 141

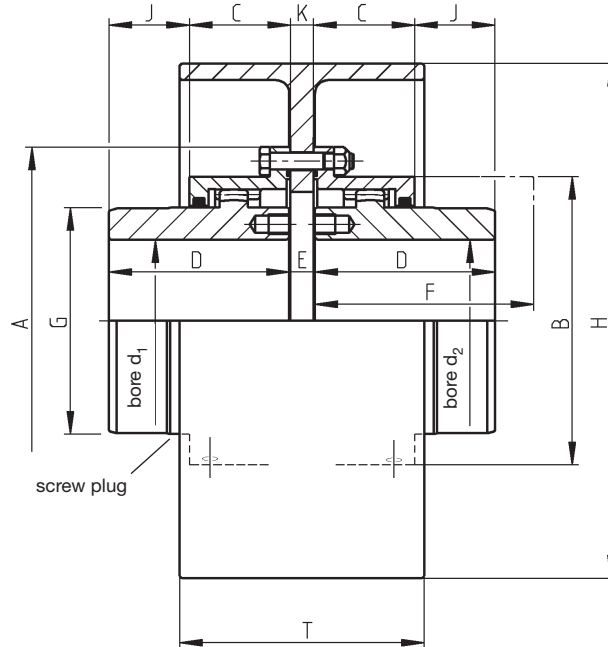
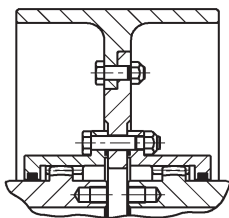


Fig. 2



Coupling size	Recommended brake disk allocation		
	mm	mm	mm
32	200		
38	200	250	
48	200	250	315
60	200	250	315
70	250	315	400
80	315	400	
90	315	400	
100	400	500	
110	400	500	
125	400	500	630
140	400	500	630
160	500	630	710
180	500	630	710
200	630	710	
225	710		

Brake disk dimensions			Mass ⁴⁾ moment of inertia	Weight ⁴⁾
ØH mm	T mm	K mm		
200	75	8	0.033	4.22
250	95	9	0.09	7.25
315	118	11	0.28	13.5
400	150	14	0.90	28
500	190	18	2.35	45
630	236	22	7.50	94
710	265	22	12.5	123

Split brake disks allow the vertical installation and removal of the machines.

The dismounting dimension F is required for the vertical installation and removal of the machines and O-ring replacement.

For coupling selection, please see page 6.

Other sizes available on request.

1) The speed n_{max} depends on the permissible circumferential speed of the brake disk. The specifications of the brake supplier have to be observed!

2) Based on a permissible angular misalignment of $\Delta K_{w perm.} = 0.75^\circ$ per coupling half.

These values only apply to the couplings, not to the brake.

3) Values for the complete coupling, without brake disk, with bore $d_1; d_2 max.$

4) Weights and mass moments of inertia are based on the largest coupling size allocated.

Torsional stiffness values are given in the data table for LBK-type couplings.

Type LBkD	Norm. Speed ¹⁾ cont. duty $\frac{P_{KN}}{n}$ kW-min	n_{max} rpm	bore $d_1; d_2$		Dimensions									Max. static radial misalign- ment $\Delta K_{max}^{2)}$	Total grease quantity	Mass ³⁾ moment of inertia J	Weight ³⁾
					min	max	A	B	C	D	E	F	G				
32	0.050	8500	12	35	105	74	44.5	50	K+ 2	80	48	7.0	±0.57	0.03	0.003	2.9	
38	0.082	7500	12	42	115	87	50.0	60	K+ 3	90	60	12.0	±0.69	0.04	0.006	4.3	
48	0.146	6900	22	55	145	108	50.0	70	K+ 3	100	77	21.5	±0.71	0.06	0.015	7.0	
60	0.288	6300	22	65	165	125	52.5	80	K+ 4	110	90	29.5	±0.77	0.10	0.026	9.3	
70	0.50	5900	28	80	195	146	54.5	90	K+ 3	120	112	37.0	±0.78	0.15	0.059	14.7	
80	0.82	5400	28	92	215	168	58.0	100	K+ 3	130	128	43.5	±0.84	0.22	0.097	20.0	
90	1.14	5000	32	105	230	185	62.0	110	K+ 5	140	145	50.5	±0.92	0.29	0.14	25.4	
100	1.64	4700	32	115	265	210	72.0	125	K+ 4	150	160	55.0	±1.08	0.44	0.28	38.0	
110	2.30	4300	55	126	270	224	78.5	140	K+ 4	170	176	63.5	±1.23	0.55	0.36	45.6	
125	2.88	4000	65	145	305	245	85.5	150	K+ 6	180	200	67.5	±1.34	0.79	0.64	62	
140	4.60	3700	75	162	330	270	96.5	170	K+ 6	200	224	76.5	±1.44	0.90	1.03	82	
160	6.48	3400	85	185	375	305	108.0	190	K+ 7	230	256	85.5	±1.70	1.23	1.5	93	
180	9.24	3100	120	210	425	348	122.0	220	K+ 6	260	288	101.0	±1.89	1.9	3.6	177	
200	12.92	2900	140	230	470	392	133.0	250	K+ 8	300	320	121.0	±2.12	2.4	6.2	245	
225	18.4	2700	160	260	535	437	154.5	280	K+10	330	362	130.5	±2.42	3.7	11.2	347	

Subject to change due to technical improvement.