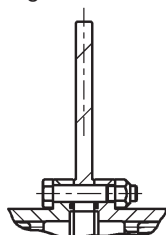


# Curved Tooth Couplings

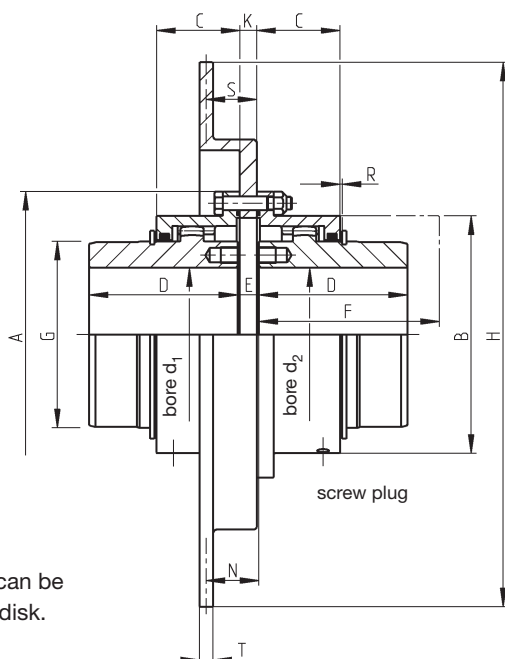
## Construction Series LBkT

Dimension Table No. 243 142

Fig. 2



As an option, the couplings can be supplied with straight brake disk.



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

Torsional stiffness values are contained in the data table for LBk-type couplings.

For coupling selection, please see page 6.

Other sizes available on request.

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

2) Based on a permissible angular misalignment of  $\Delta K_{w \text{ perm.}} = 0.75^\circ$  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  $d_1$ ;  $d_2 \text{ max.}$

Coupling size	Recommended brake disk allocation		
	Brake disk ØH (nominal dimension)		
	mm	mm	mm
32	300		
38	300		
48	300		
60	350		
70	400	460	515
80	400	460	515
90	460	515	610
100	460	515	610 710
110	515	610	710
125	515	610	710 810
140	610	710	810
160	610	710	810 915
180	710	810	915
200	710	810	915
225	810	915	

Brake disk dimensions				Mass <sup>4)</sup> moment of inertia	Weight <sup>4)</sup>
ØH	T	K	S		
mm	mm	mm	mm	kgm <sup>2</sup>	kg
300	12.7	8	34.65	0.098	6.7
356	12.7	10	47.65	0.19	10
406	12.7	13	47.65	0.30	12
457	12.7	16	47.65	0.48	16
514	12.7	16	47.65	0.57	20
610	12.7	16	47.65	1.5	26
711	12.7	18	47.65	2.9	39
812	12.7	23	47.65	5.8	61
915	12.7	23	47.65	10.0	92

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

5) The axial clearances have to be checked in relation to the brake calipers.

Type LBkT	Norm. cont. duty	Speed <sup>1)</sup> $n_{max}$	Dimensions											Max. static radial misalignment $\Delta K_{max}^2)$	Total grease quantity	Mass <sup>3)</sup> moment of inertia J	Weight <sup>3)</sup>		
			bore $d_1; d_2$		A	B	C	D	E	F	G	N	R <sup>5)</sup>						
Size	$\frac{P_{KN}}{n}$	rpm	min	max	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kgm <sup>2</sup>	kg
32	0.050	8500	12	35	105	74	44.5	50	K+ 2	80	48	35.65	1.5	±0.57	0.03	0.003	2.9		
38	0.082	7500	12	42	115	87	50.0	60	K+ 3	90	60	36.15	1.5	±0.69	0.04	0.006	4.3		
48	0.146	6900	22	55	145	108	50.0	70	K+ 3	100	77	36.15	2	±0.71	0.06	0.015	7.0		
60	0.288	6300	22	65	165	125	52.5	80	K+ 4	110	90	49.65	2	±0.77	0.10	0.026	9.3		
70	0.50	5900	28	80	195	146	54.5	90	K+ 3	120	112	49.15	2	±0.78	0.15	0.059	14.7		
80	0.82	5400	28	92	215	168	58.0	100	K+ 3	130	128	49.15	2	±0.84	0.22	0.097	20.0		
90	1.14	5000	32	105	230	185	62.0	110	K+ 5	140	145	50.15	2	±0.92	0.29	0.14	25.4		
100	1.64	4700	32	115	265	210	72.0	125	K+ 4	150	160	49.65	3	±1.08	0.44	0.28	38.0		
110	2.30	4300	55	126	270	224	78.5	140	K+ 4	170	176	49.65	3	±1.23	0.55	0.36	45.6		
125	2.88	4000	65	145	305	245	85.5	150	K+ 6	180	200	50.65	3	±1.34	0.79	0.64	62		
140	4.60	3700	75	162	330	270	96.5	170	K+ 6	200	224	50.65	3	±1.44	0.90	1.03	82		
160	6.48	3400	85	185	375	305	108.0	190	K+ 7	230	256	51.15	3	±1.70	1.23	1.5	93		
180	9.24	3100	120	210	425	348	122.0	220	K+ 6	260	288	50.65	3	±1.89	1.9	3.6	177		
200	12.92	2900	140	230	470	392	133.0	250	K+ 8	300	320	51.65	3	±2.12	2.4	6.2	245		
225	18.4	2700	160	260	535	437	154.5	280	K+10	330	362	52.65	3	±2.42	3.7	11.2	347		

Subject to change due to technical improvement.