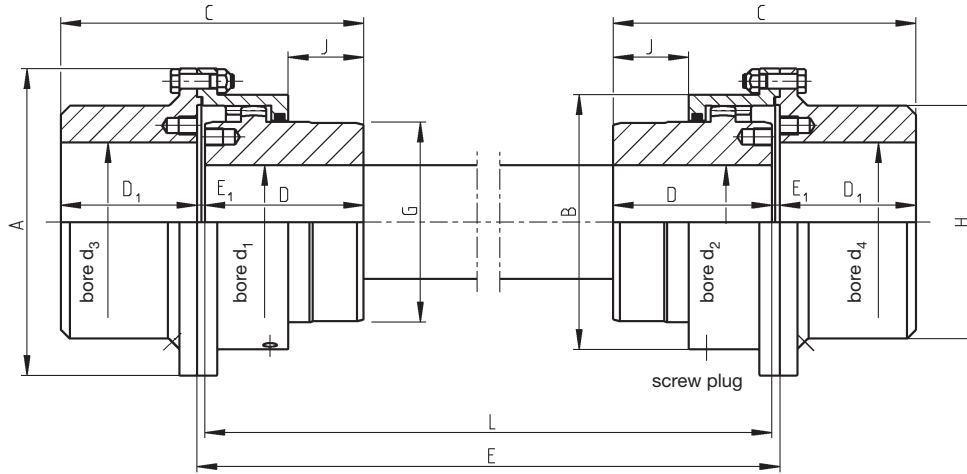


Curved Tooth Couplings



Construction Series LBGk

Dimension Table No. 243 134/ 2



For coupling selection, please see page 6.

Torsional stiffness values for couplings with intermediate shaft and weight details are contained in the data table for LBGk-type couplings.

Sizes 32 to 225 are available from stock, without intermediate shaft. Other sizes available on request.

The maximum permissible static parallel misalignment depends on the permissible angular misalignment and on the length of the intermediate shaft. The permissible angular misalignment for LBGk coupling types is $\Delta K_{w \text{ perm.}} = 0.75^\circ$ per coupling half.

Higher misalignment capacity is possible, but requires special measures.

1) The speed n_{max} depends on the length and weight of the intermediate shaft.

The maximum speed capacity is determined by the misalignment. Please see table 'Speed Factors'.

2) Values for the complete coupling without intermediate shaft, with bores d_1 , $d_{2 \text{ max}}$ and d_3 ; $d_{4 \text{ max}}$.

Type LBGk	Norm. Speed ¹⁾ cont. duty $\frac{P_{KN}}{n}$ kW·min	n_{max} rpm	Dimensions												Total grease quantity kg	Mass ²⁾ moment of inertia J kgm ²	Weight ²⁾ kg	
			bore d_1 - d_4 d_1 ; d_2 d_3 ; d_4			A	B	C	D	D_1	E_1	G	H	J				
Size			min	max	max	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
32	0.050	8500	12	35	42	105	74	94.5	50	40	4.5	48	65	9.5	0.03	0.01	5.2	
38	0.082	7500	12	42	55	115	88	115	60	50	5.0	60	80	14.5	0.04	0.01	7.4	
48	0.146	6900	22	55	65	145	108	135	70	60	5.0	77	95	24.0	0.06	0.03	12.4	
60	0.288	6300	22	65	75	165	125	155.5	80	70	5.5	90	112	32.0	0.10	0.05	17.5	
70	0.50	5900	28	80	90	195	146	176	90	80	6	112.5	130	40.0	0.15	0.11	27	
80	0.82	5400	28	92	100	215	168	196	100	90	6	128	150	46.5	0.22	0.19	38	
90	1.14	5000	32	105	115	230	185	217	110	100	7	145	170	53.5	0.29	0.28	49	
100	1.64	4700	32	115	130	265	210	242	125	110	7	160.5	190	58.0	0.44	0.54	71	
110	2.30	4300	55	126	140	270	224	267	140	120	7	176	205	66.5	0.55	0.70	85	
125	2.88	4000	65	145	155	305	245	288	150	130	8	200.5	225	70.5	0.79	1.22	115	
140	4.60	3700	75	162	170	330	270	329	170	150	9	224.5	250	80.5	0.90	2.0	156	
160	6.48	3400	85	185	195	375	305	365	190	165	10	256.5	285	89.5	1.23	3.3	197	
180	9.24	3100	120	210	225	425	348	422	220	190	12	288.5	325	107.0	1.90	7.0	330	
200	12.92	2900	140	230	250	470	392	482	250	220	12	320.5	360	126.0	2.40	11.9	457	
225	18.4	2700	160	260	280	535	437	539	280	245	14	362	410	136.5	3.70	22.2	665	

Subject to change due to technical improvement.