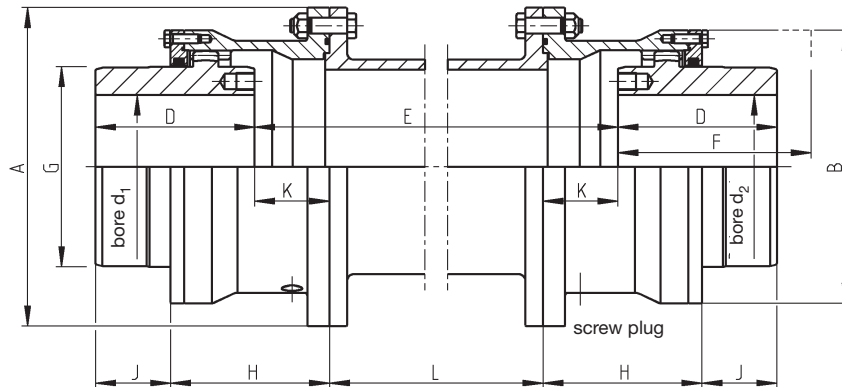


Curved Tooth Couplings

Construction Series SBLk

Dimension Table No. 243 130/ 1



For coupling selection, please see page 6.

Torsional stiffness values and mass moments of inertia for couplings with spacer are contained in the data table for SBk-type couplings.

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

Sizes 38 to 225 are available from stock, without spacer.

Other sizes available on request.

The maximum permissible static parallel misalignment depends on the permissible angular misalignment and on the length of the spacer. The permissible angular misalignment for SBLk-type couplings is $\Delta K_{w \text{ perm.}} = 0.75^\circ$ per coupling half.

Higher misalignment capacity is possible, but requires special measures.

Note: The constructional design of the SBLk series allows different hub configurations in the sleeve.

Please see Hub Configuration for SBk-type couplings.

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

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

2) Values for the complete coupling without spacer, with bore $d_1, d_{2\text{max}}$.

Type SBLk	Norm. Speed ¹⁾ cont. duty $\frac{P_{KN}}{n}$	n_{max} rpm	bore $d_1; d_2$		Dimensions									Total grease ²⁾ quantity kg	Mass ²⁾ moment of inertia J kgm ²	Weight ²⁾ kg
			min mm	max mm	A mm	B mm	D mm	F mm	G mm	H mm	J mm	K mm	L mm			
38	0.082	7500	12	42	118	92	60	90	60	58.5	17	15.5	E-31	0.09	0.01	4.7
48	0.146	6900	22	55	145	115	70	100	77	72.0	26	28	E-56	0.09	0.02	8.6
60	0.288	6300	22	65	165	135	80	110	90	82.0	32.5	34.5	E-69	0.17	0.04	12.6
70	0.50	5900	28	80	200	160	90	120	112.5	94.5	40	44.5	E-89	0.25	0.09	21
80	0.82	5400	28	92	220	178	100	130	128.5	105	46	51	E-102	0.35	0.15	28
90	1.14	5000	32	105	240	196	110	140	145	115	53	58	E-116	0.40	0.23	35
100	1.64	4700	32	115	270	225	125	150	160.5	130	58	63	E-126	0.60	0.44	52
110	2.30	4300	55	126	280	240	140	170	176.0	140	66	66	E-132	0.75	0.57	62
125	2.88	4000	65	145	310	265	150	180	200.5	150	71	71	E-142	1.0	0.94	82
140	4.60	3700	75	162	340	295	170	200	224.5	175	80	85	E-170	1.3	1.86	115
160	6.48	3400	85	185	390	325	190	230	256.5	190	88	88	E-176	1.6	2.84	160
180	9.24	3100	120	210	435	370	220	260	288.5	219	106	105	E-210	2.6	5.18	228
200	12.92	2900	140	230	480	415	250	300	320.5	249	121	120	E-240	3.3	8.77	316
225	18.4	2700	160	260	545	465	280	330	362	279	134	133	E-266	4.8	15.6	449
250	25.6	2400	160	280	580	510	300	350	400	282	164	146	E-292	5	22.3	564
265	32.8	2200	180	310	645	560	330	380	440	304	174	148	E-296	7	34.2	757
280	41.0	2100	200	325	680	595	330	380	460	324	194	188	E-376	8	46.5	873
315	51.4	2000	220	360	745	660	360	420	510	356	205	201	E-402	10	73	1090
335	64.8	1900	240	380	775	675	380	440	535	377	219	216	E-432	11	114	1315
355	82.0	1800	260	410	825	725	400	460	580	398	228.5	226.5	E-453	13	129	1571
375	98.6	1700	280	440	915	795	420	480	620	410	224.5	214.5	E-429	20	195	1970
400	118.3	950	330	470	960	840	440	500	665	421	226.5	207.5	E-415	26	247	2259
425	138.0	900	355	500	1010	890	460	520	710	441	237.5	218.5	E-437	29	337	2600
450	165.1	875	370	520	1050	925	480	550	730	451	240.0	211.0	E-422	32	396	3087

Subject to change due to technical improvement.