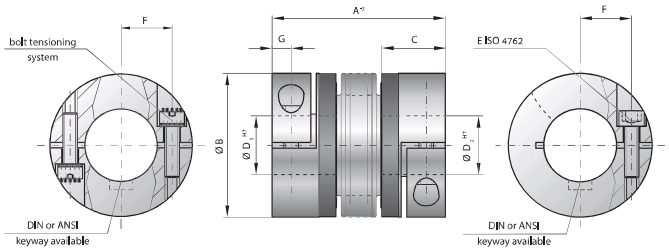
R+W®

קופלונגים מדויקים ללא חופש | Precision Couplings Zero Backlash

אפיון מוצר

	BK2	80	94	20	22.23	XX
Model	●					Special designation only (e.g. anodized hubs).
Size		●				
Overall length mm			●			
Bore D1 H7				●		
Bore D2 H7					●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. BKH/80/94/20/22.23/XX ; XX=finely balanced for 25,000 rpm)						



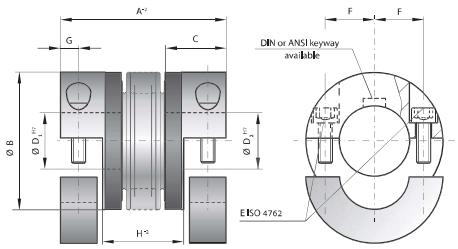
15-10,000 Nm **BK2**

חומר
גרמושקה: נירוסטה
נבה: ראה טבלה

SIZE		15	30	60	80	150	200	300	500	800	1500	4000	6000	10000
Rated torque (Nm)	T_{KN}	15	30	60	80	150	200	300	500	800	1500	4000	6000	10000
Overall length (mm)	A*	59 66 99	69 77 113	83 93 130	94 106 143	95 107 144	105 117 163	111 125 200	133 146 169	140 179	166 230	225	252	288
Outside diameter (mm)	B	49	55	66	81	81	90	110	124	134	157	200	253	303
Fit length (mm)	C	22	27	31	36	36	41	43	51	45	55	85	107	129
Inside diameter possible from Ø to Ø H7 (mm)	D_1/ D_2	8-28	10-30	12-35	14-42	19-42	22-45	24-60	35-60	40-75	50-80	50-90	60-140	70-180
Fastening screw ISO 4762	E	M5	M6	M8	M10	M10	M12	M12	M16	2x M16*	2x M20*	2x M24*	2x M24*	2x M30*
Tightening torque of the fastening screw (Nm)		8	15	40	50	70	120	130	200	250	470	1200	1200	2400
Distance between centerlines (mm)	F	17	19	23	27	27	31	39	41	2x48	2x55	2x65	2x90	2x117
Distance (mm)	G	6.5	7.5	9.5	11	11	12.5	13	16.5	18	22.5	28	35	42
Moment of inertia (10^{-3} kgm²)	J_{tot}	0.06 0.07 0.08	0.12 0.13 0.14	0.32 0.35 0.4	0.8 0.85 0.9	1.9 2 2.1	3.2 3.4 3.6	7.6 7.9 8.3	14.3 14.6 14.8	16.2 17	43 45	165	495	1214
Hub material		Al optional steel	Al optional steel	Al optional steel	Al optional steel	steel optional AL	steel optional AL	steel optional AL	steel optional AL	steel	steel	steel	steel	steel
Approximate weight (kg)		0.16	0.26	0.48	0.8	1.85	2.65	4	6.3	5.7	11.5	28.8	49.4	80.9
Torsional stiffness (10^3 Nm/rad)	C_T	20 15 14	39 28 27	76 55 54	129 85 84	175 110 97	191 140 135	450 350 340	510 500 400	780 711	1304 1180	3400	5700	10950
Axial ± (mm)		1 2 3	1 2 3	1.5 2 3	2 3 4	2 3 4	2 3 4	2.5 3.5 4.5	2.5 3.5 4.5	3.5 4.5	3.5 4.5	3.5	3	3
Lateral ± (mm)	Max. values	0.15 0.2 1	0.2 0.25 1	0.2 0.25 1	0.2 0.25 1	0.2 0.25 1	0.25 0.3 1	0.25 0.3 1	0.3 0.35 1	0.35 1	0.35 1	0.4	0.4	0.4
Angular ± (degree)		1 1.5 2	1 1.5 2	1 1.5 2	1 1.5 2	1 1.5 2	1 1.5 2	1 1.5 2	1 1.5 2	1.5 2	1.5 2	1.5	1.5	1.5
Axial spring stiffness (N/mm)	C_a	25 15 84	50 30 118	72 48 165	48 32 144	82 52 130	90 60 280	105 71 605	70 48 85	100 285	320 440	565	1030	985
Lateral spring stiffness (N/mm)	C_r	475 137 140	900 270 224	1200 420 337	920 290 401	1550 435 500	2040 610 750	3750 1050 1200	2500 840 614	2000 1490	3600 1700	6070	19200	21800

* 180° opposed in each clamping hub.

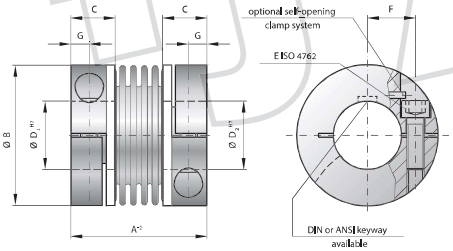
נבה חצויה עם הידוק צביטה



15-4,000 Nm **BKH**

חומר
גרמושקה: נירוסטה
נבה: ראה טבלה

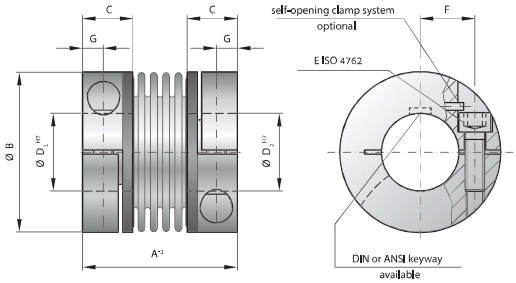
SIZE			15	30	60	80	150	200	300	500	800	1500	4000
Rated torque	(Nm)	T_{KN}	15	30	60	80	150	200	300	500	800	1500	4000
Overall length	(mm)	A^{-2}	59 66	69 77	83 93	94 106	95 107	105 117	111 125	133 146	140	166	225
Outside diameter	(mm)	B	49	55	65	81	81	90	110	124	134	157	200
Fit length	(mm)	C	22	27	31	36	36	41	43	51	45	55	85
Inside diameter possible from Ø to Ø H7	(mm)	D_1/D_2	8-28	10-30	12-35	14-42	19-42	22-45	24-60	35-60	40-75	50-80	50-90
Fastening screw ISO 4762		E	M5	M6	M8	M10	M10	M12	M12	M16	M16	M20	M24
Tightening torque of the fastening screw	(Nm)		8	15	40	50	70	120	130	200	250	470	1200
Distance between centerlines	(mm)	F	17.5	19	23	27	27	31	39	41	48	55	65
Distance	(mm)	G	7	7.5	9.5	12	12	12.5	14	16.5	18	22.5	28
Distance	(mm)	H^{-2}	29 36	35 43	41 51	47 59	48 60	50 62	55 69	61 75	65.5	71	109
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.07 0.08	0.14 0.15	0.23 0.26	0.65 0.67	2.5 3.2	4.5 5.4	8.5 10.5	17.3 19.6	24.3	49.2	165
Hub material			Al optional steel	Al optional steel	Al optional steel	Al optional steel	steel optional AL	steel optional AL	steel optional AL	steel optional AL	steel	steel	steel
Approximate weight	(kg)		0.15	0.3	0.4	0.8	1.7	2.5	4	7.5	7	12	28
Torsional stiffness	(10^3 Nm/rad)	C_T	20 15	39 28	76 55	129 85	175 110	191 140	450 350	510 500	780	1304	3400
Axial	± (mm)	Max. values	1 2	1 2	1.5 2	2 3	2 3	2 3	2.5 3.5	2.5 3.5	3.5	3.5	3.5
Lateral	± (mm)		0.15 0.2	0.2 0.25	0.2 0.25	0.2 0.25	0.2 0.25	0.25 0.3	0.25 0.3	0.3 0.35	0.35	0.35	0.4
Angular	± (degree)		1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1.5	1.5	1.5
Axial spring stiffness	(N/mm)	C_a	25 15	50 30	72 48	48 32	82 52	90 60	105 71	70 48	100	320	565
Lateral spring stiffness	(N/mm)	C_r	475 137	900 270	1200 420	920 290	1550 435	2040 610	3750 1050	2500 840	2000	3600	6070



2-500 Nm **BKL**

חומר
גרמושקה: נירוסטה
נבה: ראה טבלה

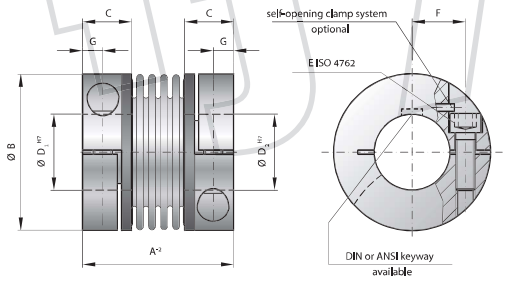
SIZE			2	4.5	10	15	30	60	80	150	300	500
Rated torque	(Nm)	T_{KN}	2	4.5	10	15	30	60	80	150	300	500
Overall length	(mm)	A^{-2}	30	40	44	58	68	79	92	92	109	114
Outside diameter	(mm)	B	25	32	40	49	56	66	82	82	110	123
Fit length	(mm)	C	10	13	13	21.5	26	28	32.5	32.5	41	42.5
Inside diameter possible from Ø to Ø H7	(mm)	$D_{1/2}$	4-12.7	6-16	6-24	8-28	10-32	14-35	16-42	19-42	24-60	35-62
Fastening screw ISO 4762		E	M3	M4	M4	M5	M6	M8	M10	M10	M12	M16
Tightening torque of the fastening screw	(Nm)		2.3	4	4.5	8	15	40	70	85	120	200
Distance between centerlines	(mm)	F	8	11	14	17	20	23	27	27	39	41
Distance	(mm)	G	4	5	5	6.5	7.5	9.5	11	11	13	17
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.002	0.007	0.016	0.065	0.12	0.3	0.75	1.8 0.8	7.5 3.1	11.7 4.9
Hub material			AL optional steel	AL optional steel	AL optional steel	AL optional steel	AL optional steel	AL optional steel	AL optional steel	steel optional AL	steel optional AL	steel optional AL
Approximate weight	(kg)		0.02	0.05	0.06	0.16	0.25	0.4	0.7	1.7 0.75	3.8 1.6	4.9 2.1
Torsional stiffness	(10^3 Nm/rad)	C_T	1.5	7	9	23	31	72	80	141	157	290
Axial	± (mm)	Max. values	0.5	1	1	1	1	1.5	2	2	2	2.5
Lateral	± (mm)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Angular	± (degree)		1	1	1	1	1	1	1	1	1	1
Axial spring stiffness	(N/mm)	C_a	8	35	30	30	50	67	44	77	112	72
Lateral spring stiffness	(N/mm)	C_r	50	350	320	315	366	679	590	960	2940	1450



15-500 Nm **BKS**

חומר
גרמושקה: נירוסטה
נבה: נירוסטה

SIZE			15	30	60	150	300	500
Rated torque	(Nm)	T_{KN}	15	30	60	150	300	500
Overall length	(mm)	A^{-2}	45	52	66	76	89	95
Outside diameter	(mm)	B	49	56	66	82	110	123
Fit length	(mm)	C	17	20	24	30	34	35
Inside diameter* possible from Ø to Ø H7	(mm)	D_1/D_2	12-28	14-32	16-35	19-42	24-60	32-75
Fastening screw ISO 4762		E	M5	M6	M8	M10	M12	M12
Tightening torque of the fastening screw	(Nm)		8	15	40	75	120	125
Distance between centerlines	(mm)	F	17.5	20	23	27	39	45
Distance	(mm)	G	6	7.5	9.5	11	13	13
Moment of inertia	(10^{-3} kgm²)	$J_{ges.}$	0.1	0.2	0.53	1.5	5.5	8.1
Approximate weight	(kg)		0.27	0.42	0.78	1.5	2.9	3.5
Torsional stiffness	(10^3 Nm/rad)	C_T	23	31	72	141	157	290
Axial	± (mm)	Max. values	1	1	1.5	2	2	2.5
Lateral	± (mm)		0.2	0.2	0.2	0.2	0.2	0.2
Angular	± (degree)		1	1	1	1	1	1
Axial spring stiffness	(N/mm)	C_a	30	50	67	77	112	72
Lateral spring stiffness	(N/mm)	C_r	315	366	679	960	2940	2200
Speed max. with balancing	(min^{-1})		60,000	50,500	50,000	40,500	40,000	30,000



15-500 Nm **BKC**

חומר
גרמושקה: נירוסטה
נבה: ראה טבלה

SIZE			15	30	60	150	300	500
Rated torque	(Nm)	T_{KN}	15	30	60	150	300	500
Overall length	(mm)	A^{-2}	48	58	67	78	94	100
Outside diameter	(mm)	B	49	56	66	82	110	123
Fit length	(mm)	C	16.5	21	23	27.5	34	34
Inside diameter possible from Ø to Ø H7	(mm)	D_1/D_2	8-28	12-32	14-35	19-42	24-60	32-75
Fastening screw ISO 4762		E	M5	M6	M8	M10	M12	M12
Tightening torque of the fastening screw	(Nm)		8	15	40	75	120	125
Distance between centerlines	(mm)	F	17.5	20	23	27	39	45
Distance	(mm)	G	6.5	7.5	9.5	11	13	13
Moment of inertia	(10^{-3} kgm²)	$J_{ges.}$	0.05	0.1	0.26	0.65	6.3	9
Hub material			AL	AL	AL	AL	steel	steel
Approximate weight	(kg)		0.13	0.21	0.37	0.72	3.26	3.52
Torsional stiffness	(10^3 Nm/rad)	C_T	23	31	72	141	157	290
Axial	± (mm)	Max. values	1	1	1.5	2	2	2.5
Lateral	± (mm)		0.2	0.2	0.2	0.2	0.2	0.2
Angular	± (degree)		1	1	1	1	1	1
Axial spring stiffness	(N/mm)	C_a	30	50	67	77	112	72
Lateral spring stiffness	(N/mm)	C_r	315	366	679	960	2940	2200
Speed max. with balancing	(min^{-1})		80,000	70,000	60,000	50,000	40,000	30,000

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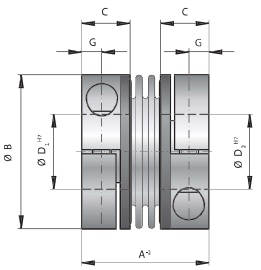
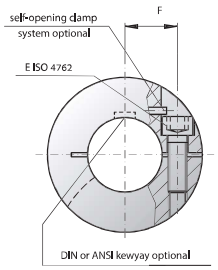


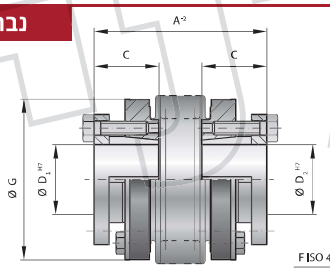


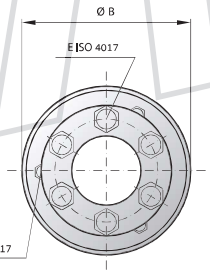
20-1,000 Nm **BKM**

חומר
גרמושקה: נירוסטה
נבה: ראה טבלה

SIZE			20	200	400	1000
Rated torque	(Nm)	T_{KN}	20	200	400	1000
Overall length	(mm)	A^{-2}	40	59	75	89
Outside diameter	(mm)	B	49	66	82	110
Fit length	(mm)	C	16.5	23	27.5	34
Inside diameter possible from Ø to Ø H7	(mm)	$D_{1/2}$	15-28	24-35	32-42	40-60
Fastening screw ISO 4762		E	M5	M8	M10	M12
Tightening torque of the fastening screw	(Nm)		8	40	60	130
Distance between centerlines	(mm)	F	17	23	27	39
Distance	(mm)	G	6	9.5	11	13
Moment of inertia	(10^{-3} kgm²)	J_{gas}	0.05	0.18	0.62	7.2
Hub material			AL	AL	AL	steel
Approximate weight	(kg)		0.13	0.4	0.7	3.5
Torsional stiffness	(10^3 Nm/rad)	C_T	41.9	138	170	570
Axial	± (mm)	Max. values	1	1.5	1	2
Lateral	± (mm)		0.06	0.08	0.1	0.1
Angular	± (degree)		0.5	0.5	0.5	0.5
Axial spring stiffness	(N/mm)	C_a	55.8	153	114	148
Lateral spring stiffness	(N/mm)	C_r	3,710	11,000	6,058	9,010
Speed max. with balancing	(min^{-1})		80,000	60,000	50,000	40,000

נבה קונית



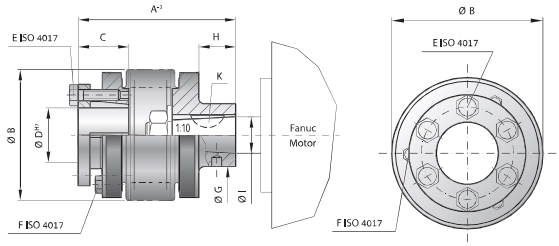


15-10,000 Nm **BK3**

חומר
גרמושקה: נירוסטה
נבה: פלדה

SIZE			15	30	60	150	200	300	500	800	1500	4000	6000	10000
Rated torque	(Nm)	T_{KN}	15	30	60	150	200	300	500	800	1500	4000	6000	10000
Overall length	(mm)	A^{-2}	48 55	57 65	66 76	75 87	78 90	89 103	97 110	114	141	195	210	217
Outside diameter	(mm)	B	49	55	66	81	90	110	124	133	157	200	253	303
Fit length	(mm)	C	19	22	27	32	32	41	41	50	61	80	85	92
Inside diameter possible from Ø to Ø H7	(mm)	$D_{1/2}$	10-22	12-23	12-29	15-38	15-44	24-56	24-60	30-60	35-70	50-100	60-140	70-180
Fastening screw ISO 4017		E	6 x M4	6 x M5	6 x M5	6 x M6	6 x M6	6 x M8	6 x M8	6 x M10	6 x M12	6 x M16	6 x M16	8 x M16
Tightening torque of the fastening screw	(Nm)		4	6	8	12	14	18	25	40	70	120	150	160
Jack screw ISO 4017		F	3 x M4	3 x M4	3 x M5	3 x M5	3 x M6	3 x M6	3 x M6	3 x M8	6 x M8	6 x M10	6 x M10	4 x M10
Outside diameter of hub	(mm)	G	49	55	66	81	90	110	122	116	135	180	246	295
Moment of inertia	(10^{-3} kgm²)	J_{gas}	0.07 0.08	0.15 0.16	0.39 0.41	1.2 1.6	1.7 2.5	5.1 5.9	9.1 9.9	13.2	34.9	85.5	254	629
Approximate weight	(kg)		0.25	0.4	0.8	1.2	1.8	3	4.2	5.6	8.2	23	32.6	45.5
Torsional stiffness	(10^3 Nm/rad)	C_T	20 15	39 28	76 55	175 110	191 140	450 350	510 500	780	1304	3400	5700	10950
Axial	± (mm)	Max. values	1 2	1 2	1.5 2	2 3	2 3	2.5 3.5	2.5 3.5	3.5	3.5	3.5	3	3
Lateral	± (mm)		0.15 0.2	0.2 0.25	0.2 0.25	0.2 0.25	0.25 0.3	0.25 0.3	0.3 0.35	0.35	0.35	0.4	0.4	0.4
Angular	± (degree)		1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1.5	1.5	1.5	1.5	1.5
Axial spring stiffness	(N/mm)	C_a	25 15	50 30	72 48	82 52	90 60	105 71	70 48	100	320	565	1030	985
Lateral spring stiffness	(N/mm)	C_r	475 137	900 270	1200 420	1500 435	2040 610	3750 1050	2500 840	2000	3600	6070	19200	21800

עבור ציר עם קוטר משתנה (tapered shaft)

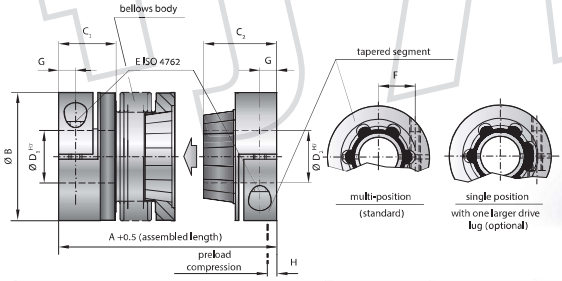


15-150 Nm **BK4**

חומר
גרמושקה: נירוסטה
נבה: פלדה

SIZE			15		30		60		150	
Rated torque	(Nm)	T_{KN}	15		30		60		150	
Overall length	(mm)	A^{-2}	47	54	68	76	72	82	82	94
Outside diameter	(mm)	B	49		55		66		81	
Fit length	(mm)	C	19		22		27		32	
Inside diameter possible from Ø to Ø H7	(mm)	D	10-22		12-23		12-29		15-37	
Fastening screw ISO 4017		E	6 x M4		6 x M5		6 x M5		6 x M6	
Tightening torque of the fastening screw	(Nm)		4		6		8		12	
Jack screw ISO 4017		F	3 x M4		3 x M4		3 x M5		3 x M5	
Outside diameter of hub	(mm)	G	20		27		30		30	
Hub length	(mm)	H	8.5		22		18		20	
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.10	0.12	0.22	0.27	0.58	0.61	1.1	1.4
Approximate weight	(kg)		0.25		0.4		0.8		1.35	
Torsional stiffness	(10^3 Nm/rad)	C_T	20	15	39	28	76	55	175	110
Axial	± (mm)	Max. values	1	2	1	2	1.5	2	2	3
Lateral	± (mm)		0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.25
Angular	± (degree)		1	1.5	1	1.5	1	1.5	1	1.5
Axial spring stiffness	(N/mm)	C_a	25	15	50	30	72	48	82	52
Lateral spring stiffness	(N/mm)	C_r	475	137	900	270	1200	420	1500	435
Cone Ø (Fanuc Motor)	(mm)	I	11		16		16		16	
Key width	(mm)	K	4		5		5		5	

נבה עם מקשר פלסטי קשיח



15-1,500 Nm **BK5**

חומר
גרמושקה: נירוסטה
נבה: גודל 150 ומעלה - פלדה, יתר הגדלים - אלומיניום

SIZE			15		30		60		80		150		300		500		800	1500
Rated torque	(Nm)	T_{KN}	15		30		60		80		150		300		500		800	1500
Overall length (inserted)	(mm)	$A^{+0,5}$	60	67	71	79	85	95	94	106	95	107	114	128	136	149	150	172
Outside diameter	(mm)	B	49		55		66		81		81		110		124		133	157
Fit length	(mm)	C_1	22		27		32		36		36		43		51		45	55
Fit length	(mm)	C_2	28		33		39		43		43		52		61		74	94
Inside diameter possible from Ø to Ø H7	(mm)	D_1	8-28		10-30		12-32		14-42		14-42		24-60		35-60		40-75	50-80
Inside diameter possible from Ø to Ø H7	(mm)	D_2	8-22		10-25		12-32		14-38		14-38		24-58		35-60		40-62	50-75
Fastening screw ISO 4762		E	M5		M6		M8		M10		M10		M12		M16		2 x M16**	2 x M20**
Tightening torque of the fastening screw	(Nm)		8		15		40		50		70		130		200		250	470
Distance between centerlines	(mm)	F	17		19		23		27		27		39		41		2 x 48**	2 x 55**
Distance	(mm)	G	6.5		7.5		9.5		11		11		13		16.5		18	22.5
Preload compression	(mm)	H	0.2 - 1.0		0.5 - 1.0		0.5 - 1.5		0.5 - 1.5		0.5 - 1.5		0.5 - 1.5		1.0 - 2.0		1.0 - 2.5	0.5 - 1.5
Axial recovery force at maximum pretensioning	(N)		20	12	50	30	70	45	48	32	82	52	157	106	140	96	200	650
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.07	0.08	0.14	0.15	0.23	0.26	0.65	0.67	2.2	2.4	7.4	7.9	13.7	14.4	26.2	51.4
Approximate weight	(kg)		0.1	0.1	0.3	0.3	0.4	0.4	0.9	0.9	1.8	1.8	4	4	6.5	6.7	8.2	15.3
Torsional stiffness	(10^3 Nm/rad)	C_T	10	8	20	14	38	28	65	43	88	55	225	175	255	245	400	650
Axial*	± (mm)	Max. values	0.5	1	0.5	1	0.5	1	1	2	1	2	1.5	2	2.5	3.5	3	2
Lateral	± (mm)		0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.25	0.2	0.25	0.25	0.3	0.3	0.35	0.35	0.35
Angular	± (degree)		1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1.5	1.5
Lateral spring stiffness	(N/mm)	C_r	475	137	900	270	1200	420	920	290	1550	435	3750	1050	2500	840	2000	3600

*in addition to maximum allowable pretension **180° opposed in each clamping hub.

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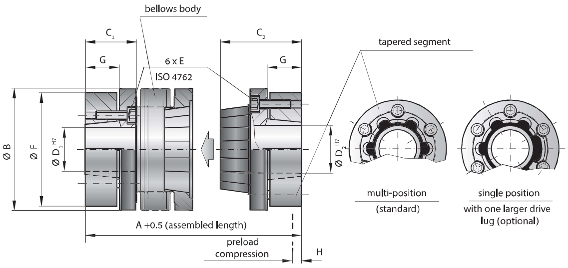
נבה קונית עם מקשר פלסטי קשיח



BK6
15-1,500 Nm

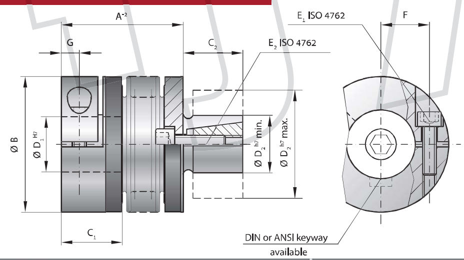
חומר
גרמושקה: נירוסטה
נבה: פלדה

SIZE			15		30		60		150		300		500		800	1500
Rated torque	(Nm)	T_{KN}	15		30		60		150		300		500		800	1500
Overall length (gesteckt)	(mm)	$A^{+0.5}$	58	65	68	76	79	89	97	109	113	127	132	145	140	158
Outside diameter	(mm)	B	49		55		66		81		110		124		133	157
Fit length	(mm)	C_1	13.5		21.5		18		23.5		27		32		42	53
Fit length	(mm)	C_2	29		34		39		49.5		59		68		74	90.5
Inside diameter possible from Ø to Ø H7	(mm)	D_1	10-22		12-24		12-32		15-40		24-56		30-60		40-62	50-75
Inside diameter possible from Ø to Ø H7	(mm)	D_2	10-22		12-24		12-32		15-40		24-56		30-60		40-62	50-75
Fastening screw ISO 4762		E	M4		M5		M5		M6		M8		M8		M10	M12
Tightening torque of the fastening screw	(Nm)	E	3.5		6.5		8		12		30		32		55	110
Diameter of clamping ring	(mm)	F	46.5		51		60		74		102		114		126	146
Clamping ring length	(mm)	G	9.5		10.5		11.5		17.5		20		23		27	32
Preload compression	(mm)	H	0.2 - 1.0		0.5 - 1.0		0.5 - 1.5		0.5 - 1.5		0.5 - 1.5		1.0 - 2.0		1.0 - 2.0	0.5 - 1.5
Axial recovery force at maximum pretensioning	(N)	H	20	12	50	30	70	45	82	52	157	106	140	96	400	650
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.1	0.12	0.2	0.25	0.4	0.45	2.0	2.5	5.4	6.1	8.4	9.1	17.5	44
Approximate weight	(kg)		0.3	0.32	0.5	0.52	0.82	0.84	1.6	1.7	4.1	4.2	6.0	6.3	8.1	16.2
Torsional stiffness	(10^3 Nm/rad)	C_T	10	8	20	14	38	28	88	55	225	175	255	245	400	660
Axial*	± (mm)	Max. values	0.5	1	0.5	1	0.5	1	1	2	1.5	2	2.5	3.5	3	2
Lateral	± (mm)	Max. values	0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.25	0.25	0.3	0.3	0.35	0.35	0.35
Angular	± (degree)	Max. values	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1.5	1.5
Lateral spring stiffness	(N/mm)	C_r	475	137	900	270	1200	420	1550	435	3750	1050	2500	840	2000	3600

* in addition to maximum allowable pretension

Higher torques upon request

קופלונג עם ציר

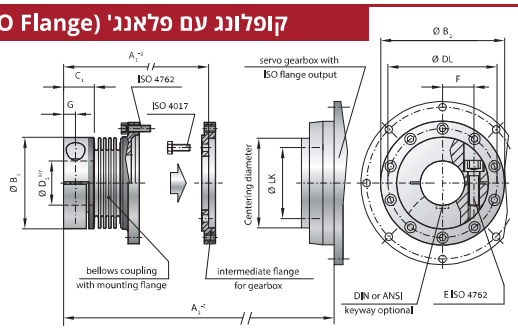


BK7
15-300 Nm

חומר
גרמושקה: נירוסטה
נבה: ראה טבלה
ציר: פלדה

SIZE			15		30		60		150		300	
Rated torque	(Nm)	T_{KN}	15		30		60		150		300	
Overall length	(mm)	A^{-2}	45	52	53	61	62	72	71	83	84	98
Outside diameter	(mm)	B	49		55		66		81		110	
Fit length	(mm)	C_1	22		27		31		36		43	
Fit length	(mm)	C_2	20		25		27		32		45	
Inside diameter possible from Ø to Ø H7	(mm)	D_1	8-28		10-30		12-35		19-42		30-60	
Shaft diameter from Ø to Ø h7	(mm)	D_2	13-25		14-30		23-38		26-42		38-60	
Fastening screw ISO 4762		$E_{1/2}$	M5		M6		M8		M10		M12	
Tightening torque of the fastening screw	(Nm)	$E_{1/2}$	8		14		38		65		120	
Distance between centerlines	(mm)	F	17		19		23		27		39	
Distance	(mm)	G	6.5		7.5		9.5		11		13	
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.07	0.08	0.14	0.15	0.23	0.26	2.2	2.4	6.5	8.9
Hub material			Al		Al		Al		steel		steel	
Approximate weight	(kg)		0.15		0.3		0.4		1.7		4	
Torsional stiffness	(10^3 Nm/rad)	C_T	20	15	39	28	76	55	175	110	450	350
Axial	± (mm)	Max. values	1	2	1	2	1.5	2	2	3	2.5	3.5
Lateral	± (mm)	Max. values	0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.25	0.25	0.3
Angular	± (degree)	Max. values	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5
Axial spring stiffness	(N/mm)	C_a	20	12	50	30	72	48	82	52	105	71
Lateral spring stiffness	(N/mm)	C_r	315	108	730	230	1200	380	1550	435	3750	1050

קופלונג עם פלאנג' (ISO Flange)



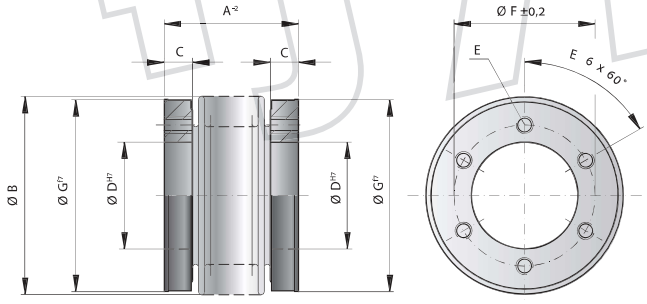
BK8 50-2,600 Nm

חומר
גרמושקה: נירוסטה
נבה: גודל 1,500 - פלדה,
יתר הגדלים - אלומיניום
מתאם לפלאנג' - פלדה

SIZE			15	60	150	300	1500
Flange centering diameter	(mm)		40 h7	63 h7	80 h7	100 h7	160 h7
Flange bolt circle / thread Ø	(mm)		31.5 / 8 x M5	50 / 8 x M6	63 / 12 x M6	80 / 12 x M8	125 / 12 x M10
Maximum torque*	(Nm)		50	210	380	750	2600
Length -2	(mm)	A_1	48.5	67	72	90	140
Length -2	(mm)	A_2	68	97	101	128	190
Outside diameter of hub	(mm)	B_1	49	66	82	110	157
Flange diameter	(mm)	B_2	63.5	86	108	132	188
Fit length	(mm)	C_1	16.5	23	27.5	34	55
Inside diameter possible from Ø to Ø H7	(mm)	D_1	12-28	14-35	19-42	24-60	50-80
Hub bolt circle	(mm)	DL	56.5	76	97	120	170
Fastening threads	(mm)		10 x M4	10 x M5	10 x M6	12 x M6	16 x M8
Fastening screws ISO 4762		E_1	1 x M5	1 x M8	1 x M10	1 x M12	2 x M20
Tightening torque of the fastening screw	(Nm)		8	45	80	120	470
Distance between centerlines	(mm)	F	1 x 17.5	1 x 23	1 x 27	1 x 39	2 x 55
Distance	(mm)	G	6.5	9.5	11	13	22.5
Approximate weight	(kg)		0.3	0.7	1	2.8	10
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.15	0.65	1.3	5.5	45
Lateral	± (mm)	Max. values	0.25	0.25	0.25	0.25	0.25
Angular	± (degree)		1	1	1	1	1
Axial	± (mm)		1	1.5	2	2.5	3

* maximum torque transmittable only for brief periods and requires maximum bore for clamping strength

קופלונג עם פלאנג' כפול



BK1 15-10,000 Nm

חומר
גרמושקה: נירוסטה
נבה: פלדה

SIZE			15		30		60		150		200		300		500		800	1500	4000	6000	10000
Rated torque	(Nm)	T_{KN}	15		30		60		150		200		300		500		800	1500	4000	6000	10000
Overall length	(mm)	A^{-2}	30	37	36	44	43	53	50	62	53	65	56	70	64	77	81	100	145	138	150
Outside diameter of bellows	(mm)	B	49		55		66		81		90		110		124		133	157	200	253	303
Fit length/thread depth	(mm)	C	7.5		10		11		13		14.5		15		16		18	22	30	30	36
Inside diameter H7	(mm)	D	25		28		38		50		58		65		70		75	85	100	145	190
Fastening threads		E	6 x M5		6 x M5		6 x M6		6 x M6		6 x M6		6 x M8		6 x M8		6 x M10	6 x M16	6 x M20	8 x M20	8 x M24
Bolt circle diameter ± 0.2	(mm)	F	35		37		46		62		70		80		94		90	110	140	190	234
Outside diameter f7	(mm)	G	49		55		66		81		90		110		122		116	140	182	235	295
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.07	0.08	0.14	0.15	0.30	0.32	0.90	0.95	1.30	1.40	1.95	2.10	3.0	3.4	4.3	10.6	46	132	350
Approximate weight	(kg)		0.15		0.2		0.3		0.6		0.8		1.35		1.8		1.9	3.3	8.9	13.9	23.7
Torsional stiffness	(10^3 Nm/rad)	C_T	20	15	39	28	76	55	175	110	191	140	450	350	510	500	780	1304	3400	5700	10950
Axial	± (mm)	Max. values	1	2	1	2	1.5	2	2	3	2	3	2.5	3.5	2.5	3.5	3.5	3.5	3.5	3	3
Lateral	± (mm)		0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.25	0.25	0.3	0.25	0.3	0.3	0.35	0.35	0.35	0.4	0.4	0.4
Angular	± (degree)		1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1.5	1.5	1.5	1.5	1.5
Axial spring stiffness	(N/mm)	C_a	25	15	50	30	72	48	82	52	90	60	105	71	70	48	100	320	565	1030	985
Lateral spring stiffness	(N/mm)	C_r	475	137	900	270	1200	420	1550	435	2040	610	3750	1050	2500	840	2000	3600	6070	19200	21800

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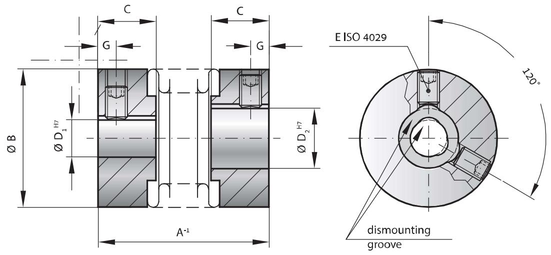
נבה עם ברגי הידוק

MK1 0.05-10 Nm

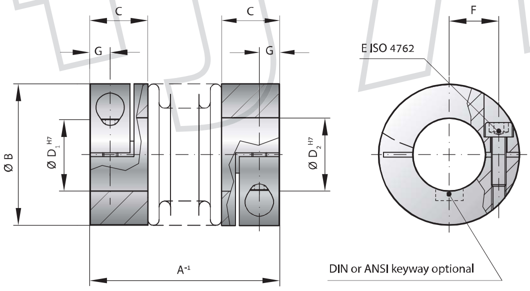


חומר
גרמושקה: גודל 0.5 - tombac
יתר הגדלים - נירוסטה
נבה: אלומיניום
מהירות מקסימלית: 20,000 rpm

SIZE		0.5	1	5			10			15		20			45		100	
Rated torque (Nm)	T_{KN}	0.05	0.1	0.5			1.0			1.5		2.0			4.5		10	
Overall length (mm)	A^{-1}	14	20	20	23	26	22	25	28	24	29	26	31	35	37	45	43	53
Outside diameter (mm)	B	6.5	10	15			15			19		25			32		40	
Fit length (mm)	C	4	5	6.5			6.5			7.5		11			13		15	
Inside diameter possible from Ø to Ø H7 (mm)	$D_{1/2}$	1-3	1-5	3-9			3-9			3-12		3-16			6-22		6-28	
Clamping screw ISO 4029	E	1xM2	1xM2.5	1xM3			1xM3			2xM3		2xM4			2xM5		2xM6	
Tightening torque of the fastening screw (Nm)	E	0.35	0.75	1.3			1.3			1.3		2.5			4		6	
Distance (mm)	G	1.5	1.8	2			2			2		2.5			3.5		4	
Moment of inertia (gcm²)	$J_{ges.}$	0.1	0.4	1.1	1.2	1.3	1.3	1.8	2	4.7	5.5	15	18	20	65	70	180	220
Approximate weight (g)		1	5	6	6	6	6	7	8	12	14	22	24	26	54	58	106	114
Torsional stiffness (Nm/rad)	C_T	50	70	280	210	170	510	380	320	750	700	1200	1300	1200	7000	5000	9050	8800
Axial (mm)	Max. values	0.4	0.4	0.4	0.5	0.6	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.7	0.7	1	1	1.2
Lateral (mm)	Max. values	0.1	0.15	0.15	0.2	0.25	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3
Angular (degree)	Max. values	1	1	1	1.5	2	1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2

נבה חצוייה עם הידוק צביטה באדום

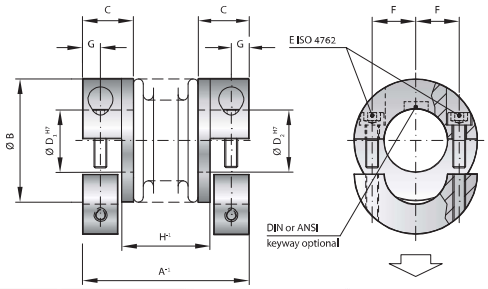
MK2 0.5-10 Nm



חומר
גרמושקה: נירוסטה
נבה: אלומיניום

SIZE		5			10			15		20			45		100	
Rated torque (Nm)	T_{KN}	0.5			1.0			1.5		2.0			4.5		10	
Overall length (mm)	A^{-1}	25	28	31	27	30	33	30	35	35	40	44	46	54	50	60
Outside diameter (mm)	B	15			15			19		25			32		40	
Fit length (mm)	C	9			9			11		13			16		16	
Inside diameter possible from Ø to Ø H7 (mm)	$D_{1/2}$	3-7			3-7			3-8		3-12.7			5-16		5-24	
Fastening screw ISO 4762	E	M2			M2			M2.5		M3			M4		M4	
Tightening torque of the fastening screw (Nm)	E	0.43			0.43			0.85		2.3			4		4.5	
Distance between centerlines (mm)	F	4.5			4.5			6		8			10		15	
Distance (mm)	G	3			3			3.5		4			5		5	
Moment of inertia (gcm²)	J_{ges}	2.6	2.8	3	3	3.4	3.6	8.5	9.5	25	27	29	100	108	160	205
Approximate weight (g)		9	9	9	9	10	11	22	24	36	38	40	74	78	120	130
Torsional stiffness (Nm/rad)	C_T	280	210	170	510	380	320	750	700	1200	1300	1200	7000	5000	9050	8800
Axial (mm)	Max. values	0.4	0.5	0.6	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.7	0.7	1	1	1.2
Lateral (mm)	Max. values	0.15	0.2	0.25	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3
Angular (degree)	Max. values	1	1.5	2	1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2

נבה חצויה עם הידוק צביטה

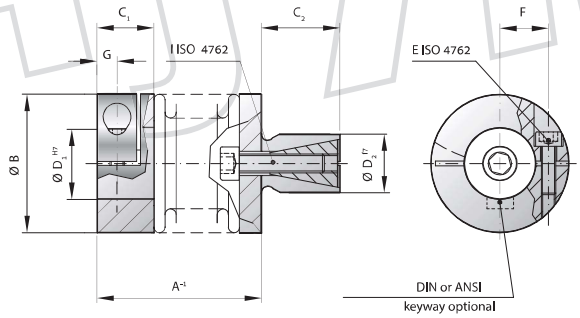


MKH 0.5-10 Nm

חומר
גרמושקה: נירוסטה
נבה: אלומיניום

SIZE			5			10			15		20			45		100	
Rated torque	(Nm)	T_{KN}	0.5			1.0			1.5		2.0			4.5		10	
Overall length	(mm)	A^{-1}	25	28	31	27	30	33	30	35	35	40	44	46	54	50	60
Outside diameter	(mm)	B	15			15			19		25			32		40	
Fit length	(mm)	C	9			9			11		13			16		16	
Inside diameter possible from Ø to Ø H7	(mm)	$D_{1/2}$	3-7			3-7			3-8		3-12.7			5-16		5-24	
Fastening screw ISO 4762		E	M2			M2			M2.5		M3			M4		M4	
Tightening torque of the fastening screw	(Nm)		0.43			0.43			0.85		2.3			4		4.5	
Distance between centerlines	(mm)	F	4.5			4.5			6		8			10		15	
Distance	(mm)	G	3			3			3.5		4			5		5	
Distance	(H)	H^{-1}	12	15	18	14	17	20	14.5	19.5	17	22	26	23.5	31.5	27.5	37.5
Moment of inertia	(gcm^2)	J_{ges}	2.6	2.8	3	3	3.4	3.6	8.5	9.5	25	27	29	100	108	160	205
Approximate weight	(g)		9	9	9	9	10	11	22	24	36	38	40	74	78	120	130
Torsional stiffness	(Nm/rad)	C_T	280	210	170	510	380	320	750	700	1200	1300	1200	7000	5000	9050	8800
Axial	(mm)	Max. values	0.4	0.5	0.6	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.7	0.7	1	1	1.2
Lateral	(mm)		0.15	0.2	0.25	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3
Angular	(degree)		1	1.5	2	1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2

קופלונג עם ציר



MK3 0.5-10 Nm

חומר
גרמושקה: נירוסטה
נבה: אלומיניום
ציר: פלדה

SIZE			5			10			15		20			45		100	
Rated torque	(Nm)	T_{KN}	0.5			1			1.5		2			4.5		10	
Overall length	(mm)	A^{-1}	20	23	26	22	25	28	24	30	27	33	36	36	44	41	51
Outside diameter	(mm)	B	15			15			19		25			32		40	
Fit length	(mm)	C_1	9			9			11		13			16		16	
Shaft length	(mm)	C_2	10			10			12		12			15		20	
Inside diameter possible from Ø to Ø H7	(mm)	D_1	3-7			3-7			4-8		4-12.7			5-16		6-24	
Standard shaft possible from Ø to Ø f7	(mm)	D_2	8-10			8-10			10-14		10-16			14-20		16-24	
Fastening screw ISO 4762		E	M2			M2			M2.5		M3			M4		M4	
Tightening torque of the fastening screw	(Nm)		0.43			0.43			0.85		2.3			4		4.5	
Distance between centerlines	(mm)	F	4.5			4.5			6		8			10		15	
Distance	(mm)	G	3			3			3.5		4			5		5	
Fastening screw ISO 4762		I	M3			M3			M4		M4			M5		M6	
Tightening torque of the fastening screw	(Nm)		1.5			1.5			3		4			6.5		11	
Moment of inertia	(gcm^2)	$J_{ges.}$	2.6	2.8	3.0	3.0	3.4	3.6	8.5	9.5	25	27	29	100	108	160	205
Torsional stiffness	(Nm/rad)	C_T	280	210	170	510	380	320	750	700	1200	1300	1200	7000	5000	9050	8800
Axial	(mm)	Max. values	0.4	0.5	0.6	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.7	0.7	1	1	1.2
Lateral	(mm)		0.15	0.2	0.25	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3

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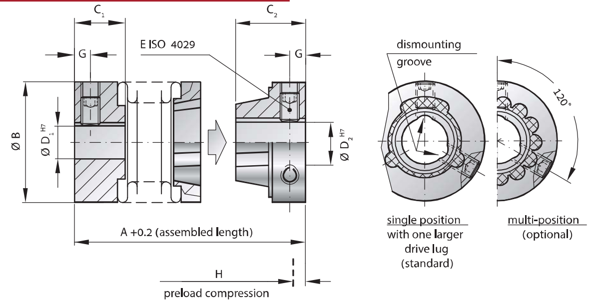
נבה עם מקשר פלסטי קשיח

MK4 0.5-10 Nm

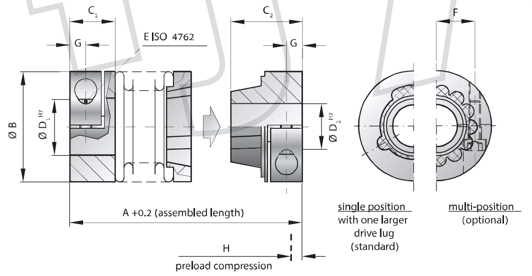


חומר
גרמושקה: נירוסטה
נבה: אלומיניום
מהירות מקסימלית:
20,000 rpm

SIZE			5			15		20			45		100	
Rated torque	(Nm)	T_{KN}	0.5			1.5		2			4.5		10	
Overall length (inserted)	(mm)	$A^{+0.2}$	22	25	28	26	31	28	33	37	39	47	46	56
Outside diameter	(mm)	B	15			19		25			32		40	
Fit length	(mm)	C_1	6.5			7.5		11			13		15	
Fit length	(mm)	C_2	9			10		11			14		16	
Inside diameter possible from Ø to Ø H7	(mm)	D_1	3-9			3-12		3-16			6-22		6-28	
Inside diameter possible from Ø to Ø H7	(mm)	D_2	3-6.35			3-9		3-12.7			6-16		6-20	
Clamping screw ISO 4029		E	1xM3			2xM3		2xM4			2xM5		2xM6	
Tightening torque of the fastening screw	(Nm)	E	1.3			1.3		2.5			4		6	
Distance	(mm)	G	2			2		2.5			3.5		4	
Preload compression	(mm)	H	0.4			0.5		0.5			0.7		1	
Axial recovery force at max. preload compression	(N)		5	3	2	4	3	3	4	3	15	10	25	30
Moment of inertia	(gcm²)	J_{ges}	2.0	2.2	2.5	5.5	6.0	21	23	25	80	85	200	210
Torsional stiffness	(Nm/rad)	C_T	280	210	170	750	700	1200	1300	1200	7000	5000	9050	8800
Axial*	(mm)	Max. values	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.7	0.7	1	1	1.2
Lateral	(mm)	Max. values	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3
Angular	(degree)	Max. values	1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2

נבה עם מקשר פלסטי קשיח

MK5 0.5-10 Nm

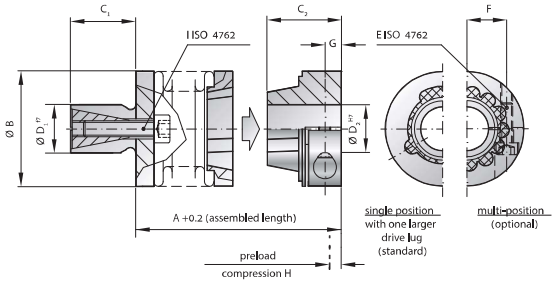


חומר
גרמושקה: נירוסטה
נבה: אלומיניום

SIZE			5			15		20			45		100	
Rated torque	(Nm)	T_{KN}	0.5			1.5		2			4.5		10	
Overall length (inserted)	(mm)	$A^{+0.2}$	27	30	33	34	39	37	43	46	49	57	55	65
Outside diameter	(mm)	B	15			19		25			32		40	
Fit length	(mm)	C_1	9			11		13			16		16	
Fit length	(mm)	C_2	12			14		16			20		21.5	
Inside diameter possible from Ø to Ø H7	(mm)	$D_{1/2}$	3-6.35			3-8		3-12.7			5-16		5-20	
Fastening screw ISO 4762		E	M2			M2.5		M3			M4		M4	
Tightening torque of the fastening screw	(Nm)	E	0.43			0.85		2.3			4		4.5	
Distance between centerlines	(mm)	F	4.5			6		8			10		15	
Distance	(mm)	G	3			3.5		4			5		5	
Preload compression	(mm)	H	0.4			0.5		0.5			0.7		1	
Axial recovery force at max. preload compression	(N)		5	3	2	4	3	3	4	3	15	10	25	30
Moment of inertia	(gcm²)	J_{ges}	3.0	3.2	3.5	9.0	10	28	30	33	110	120	220	230
Torsional stiffness	(Nm/rad)	C_T	280	210	170	750	700	1200	1300	1200	7000	5000	9050	8800
Axial*	(mm)	Max. values	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.7	0.7	1	1	1.2
Lateral	(mm)	Max. values	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3
Angular	(degree)	Max. values	1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2

* in addition to maximum pretensioning

נבה עם מקשר פלסטי קשיח וציר

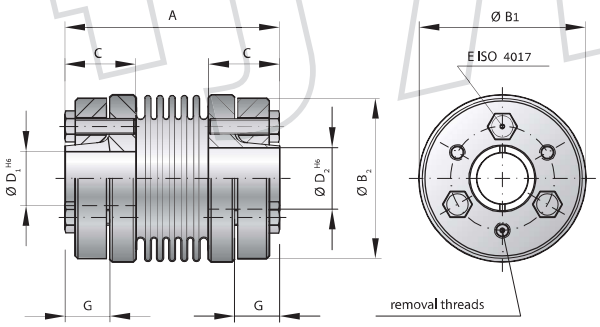


0.5-10 Nm **MK6**

חומר
גרמושקה: נירוסטה
נבה: אלומיניום
ציר: פלדה

SIZE			5			15		20			45		100	
Rated torque	(Nm)	T_{KN}	0.5			1.5		2			4.5		10	
Overall length (inserted)	(mm)	$A^{+0,2}$	21	24	27	27	32	28	34	38	38	46	45	55
Outside diameter	(mm)	B	15			19		25			32		40	
Shaft length	(mm)	C_1	10			12		12			15		20	
Fit length	(mm)	C_2	12			14		16			20		21.5	
Standard shaft Ø f7	(mm)	D_1	8-10			10-14		10-16			14-20		16-24	
Inside diameter possible from Ø to Ø H7	(mm)	D_2	3-6.35			3-8		3-12.7			5-16		5-20	
Fastening screw ISO 4762		E	M2			M2.5		M3			M4		M4	
Tightening torque of the fastening screw	(Nm)		0.43			0.85		2.3			4		4.5	
Distance between centerlines	(mm)	F	4.5			6		8			10		15	
Distance	(mm)	G	3			3.5		4			5		5	
Preload compression	(mm)	H	0.4			0.5		0.5			0.7		1	
Axial recovery force at max. preload compression	(N)		5	3	2	4	3	3	4	3	15	10	25	30
Fastening screw ISO 4762		I	M3			M4		M4			M5		M6	
Tightening torque of the fastening screw	(Nm)		1.5			3		4			6.5		11	
Moment of inertia	(gcm^2)	J_{ges}	3.0	3.2	3.5	9.0	10	28	30	33	110	120	220	230
Torsional stiffness	(Nm/rad)	C_T	280	210	170	750	700	1200	1300	1200	7000	5000	9050	8800
Lateral	(mm)	Max. values	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3
Angular	(degree)		1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2

קופלונג עם טבעת הידוק קונית למהירויות גבוהות



4.5-10 Nm **MKS**

חומר
גרמושקה: נירוסטה
נבה וטבעות הידוק: אלומיניום
מהירות מקסימלית: 120,000 rpm

SIZE			45		100	
Rated torque	(Nm)	T_{KN}	4.5		10	
Overall length	(mm)	A	42		48	
Outside diameter	(mm)	B_1	32		40	
Outside diameter of hub	(mm)	B_2	30		38	
Fit length	(mm)	C	14		16	
Inside diameter possible from Ø to Ø H6	(mm)	$D_{1/2}$	6-10		8-14	
Fastening screw ISO 4017	(mm)	E	3x M3		4x M3	
Tightening torque of the fastening screw	(Nm)		1.3		1.3	
Distance	(mm)	G	8.5		9.5	
Moment of inertia	(gcm^2)	$J_{ges.}$	65		160	
Masse	(g)		51		75	
Torsional stiffness	(Nm/rad)	C_T	7000		9050	
Axial	(mm)	Max. values	0.5		0.75	
Lateral	(mm)		0.1	0.05*	0.1	0.05*
Angular	(degree)		0.5		0.5	

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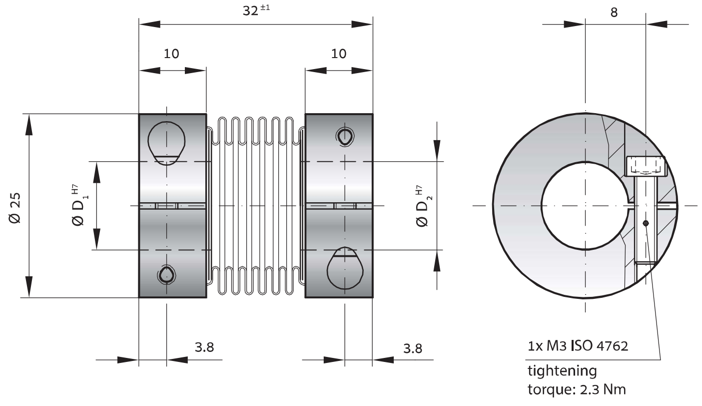
דגם Ecoflex

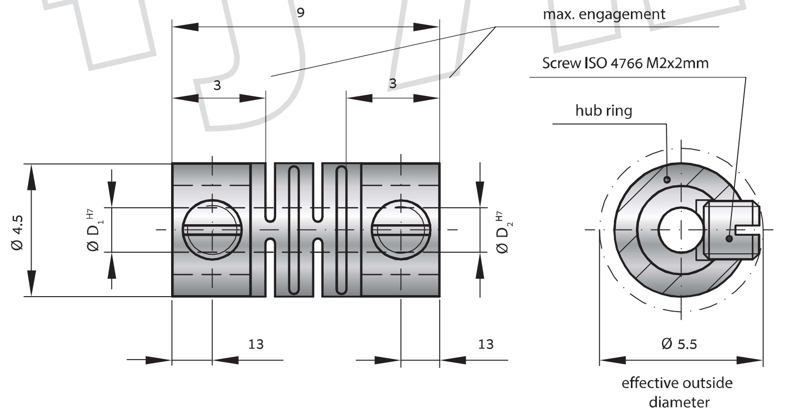


BKL/003 3 Nm

חומר
גרמושקה: נירוסטה
נבה: אלומיניום

SIZE			3
Rated torque	(Nm)	T_{KN}	3
Standard bore diameters H7	(mm)	D_1, D_2	3 to 12.7
Moment of inertia	(gcm²)	$J_{ges.}$	20
Approximate weight	(g)		23
Tightening torque of the fastening screws	(Nm)		2.3
Torsional stiffness	(Nm/rad)	C_T	994
Axial	(mm)	Max. values	1
Lateral	(mm)		0.2
Angular	(degree)		2

דגם Microflex עם ברגי הידוק



FK1 1 Ncm
דגם Microflex עם ברגי הידוק

חומר
אלמנט גמיש: פוליאמיד
נבה: נירוסטה

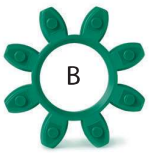
* אופציה להקטנת הקוטר האפקטיבי החיצוני ל- 4.5 מ"מ על ידי שימוש בבורג M2X1.5 מ"מ

SIZE			
Rated torque	(Ncm)	T_{KN}	1
Standard bore H7	(mm)	D_1, D_2	1.5 / 1.5 or 2 / 1.5 additional bore diameters available upon request
Moment of inertia	(gcm²)	$J_{ges.}$	5.39
Approximate weight	(g)		0.47
Torsional stiffness	(Ncm/rad)	C_T	23 (measured at +20° C)
Axial	(mm)	Max. values	0.2
Lateral	(mm)		0.1
Angular	(degree)		1.5

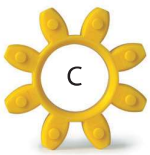
סוגי גומיות

SIZES 2 - 800

Shore hardness 98 A

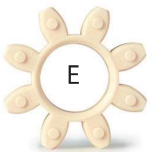


Shore hardness 64 Sh D



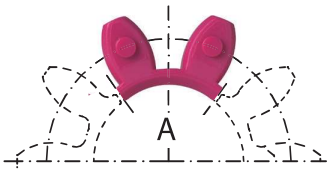
Shore hardness 80 Sh A

Shore hardness 65 Sh D

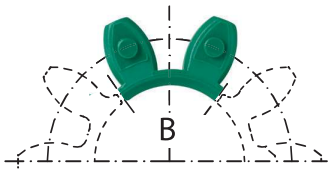


Shore hardness 64 Sh D

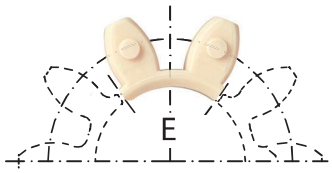
SIZES 2500 - 9500



Shore hardness 98 A



Shore hardness 64 Sh D



Shore hardness 64 Sh D

תכונות גומיות

Type	Shore hardness	Color	Material	Relative damping (Ψ)	Temperature range	Features
A	98 Sh A	red	TPU	0.4 - 0.5	-30°C to +100°C	high damping
B	64 Sh D	green	TPU	0.3 - 0.45	-30°C to +120°C	high torsional stiffness
C	80 Sh A	yellow	TPU	0.3 - 0.4	-30°C to +100°C	very high damping
D	65 Sh D	black	TPU	0.3 - 0.45	-10°C to + 70°C	electrically conductive
E	64 Sh D	beige	Hytrel	0.3 - 0.45	-50°C to +150°C	temperature resistant

אפיון מוצר

	EKL	60	A	12.7	24	XX
Model	●					Special designation only (e.g. special bore tolerance).
Size		●				
Elastomer insert type			●			
Bore D1 H7				●		
Bore D2 H7					●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. EKH/60/A/12.7/24/XX; XX=anodized aluminum)						

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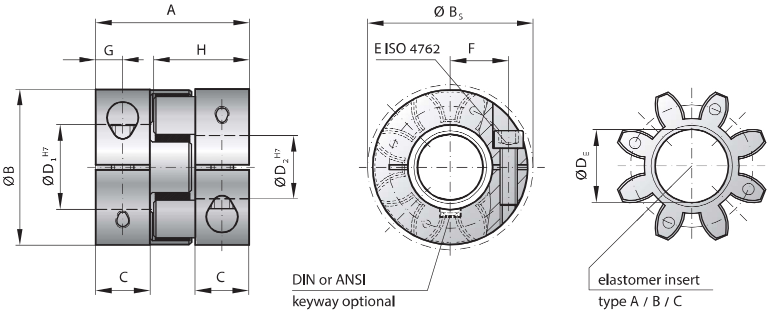
דגם קומפקטי

EKL
0.5-2,150 Nm

חומר
נבה:
גודל 800 - פלדה
יתר הגדלים - אלומיניום
גומיה: פוליאוריתן
תרמופלסטי TPU

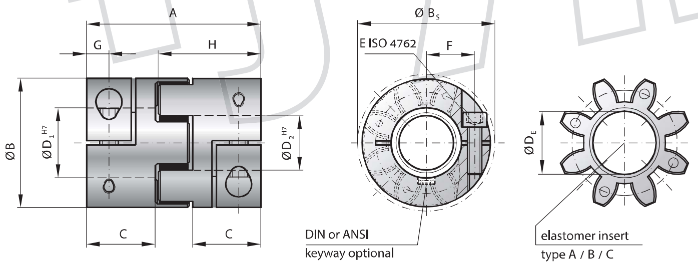


SIZE		2			5			10			20			60			150			300			450			800		
Type (Elastomer insert)		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Rated torque (Nm)	T_{KN}	2	2.4	0.5	9	12	2	12.5	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1100	240
Max. torque* (Nm)	T_{Kmax}	4	4.8	1	18	24	4	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	1060	1350	190	1900	2150	400
Overall length (mm)	A	20			26			32			50			58			62			86			94			123		
Outside diameter (mm)	B	16			25			32			42			56			66.5			82			102			136.5		
Outside diameter with screw head (mm)	B_S	17			25			32			44.5			57			68			85			105			139		
Mounting length (mm)	C	6			8			10.3			17			20			21			31			34			46		
Inside diameter range H7 (mm)	$D_{1/2}$	3 - 8			4 - 12.7			4 - 16			8 - 25			12 - 32			19 - 36			20 - 45			28 - 60			35 - 80		
Inside diameter of elastomer (mm)	D_E	6.2			10.2			14.2			19.2			26.2			29.2			36.2			46.2			60.5		
Clamping screw (ISO 4762)	E	M2			M3			M4			M5			M6			M8			M10			M12			M16		
Tightening torque of the clamping screw (Nm)	E	0.6			2			4			8			15			35			70			120			290		
Distance between centers (mm)	F	5.5			8			10.5			15.5			21			24			29			38			50.5		
Distance (mm)	G	3			4			5			8.5			10			11			15			17.5			23		
Hub length (mm)	H	12			16.7			20.7			31			36			39			52			57			74		
Moment of inertia per hub (10^{-3} kgm²)	J_1/J_2	0.0003			0.002			0.003			0.01			0.04			0.08			0.3			0.66			8		
Approx. weight (kg)		0.008			0.02			0.05			0.12			0.3			0.5			0.9			1.5			8.5		
Speed standard (min^{-1})		15,000			15,000			13,000			12,500			11,000			10,000			9,000			8,000			4,000		
Speed balanced ($10^3 min^{-1}$)		60	67	45	57	65	43	53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	16	17	12	13	13	8

נבה חצויה עם הידוק צביטה

EK2
6-2,150 Nm

חומר
נבה: עד גודל 450 -
אלומיניום קשיח,
גודל 800 - פלדה
גומיה: פוליאוריתן
תרמופלסטי TPU

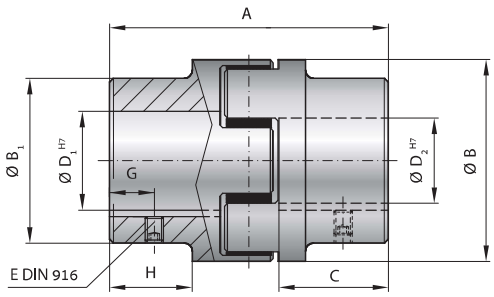


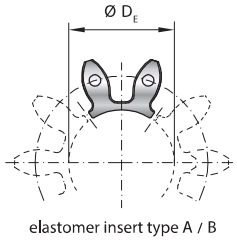
SIZE		20			60			150			300			450			800		
Type (Elastomer insert)		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Rated torque (Nm)	T_{KN}	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1100	240
Max. torque* (Nm)	T_{Kmax}	34	42	12	120	150	35	320	400	85	650	810	170	1060	1350	190	1900	2150	400
Overall length (mm)	A	66			78			90			114			126			162		
Outside diameter (mm)	B	42			56			66.5			82			102			136.5		
Outside diameter with screw head (mm)	B_S	44.5			57			68			85			105			139		
Mounting length (mm)	C	25			30			35			45			50			65		
Inside diameter range H7 (mm)	$D_{1/2}$	8 - 25			12 - 32			19 - 36			20 - 45			28 - 60			35 - 80		
Inside diameter of elastomer (mm)	D_E	19.2			26.2			29.2			36.2			46.2			60.5		
Clamping screw (ISO 4762)	E	M5			M6			M8			M10			M12			M16		
Tightening torque of the clamping screw (Nm)	E	8			15			35			70			120			290		
Distance between centers(mm)	F	15.5			21			24			29			38			50.5		
Distance (mm)	G	8.5			10			12			15			17.5			23		
Hub length (mm)	H	39			46			52.5			66			73			93.5		
Moment of inertia per hub (10^{-3} kgm²)	J_1/J_2	0.016			0.05			0.13			0.4			0.9			9.5		
Approx. weight (kg)		0.15			0.35			0.6			1.1			1.7			10		
Speed standard (min^{-1})		12,500			11,000			10,000			9,000			8,000			4,000		
Speed balanced ($10^3 min^{-1}$)		45	60	35	31	31	25	22	26	18	22	26	16	16	17	12	13	13	8

נבה עם קדח שגם וברגי הידוק

EK1 1,950-25,000 Nm

חומר
נבה: ברזל יצוק
גומיה: פוליאוריתן
תרמופלסטי TPU





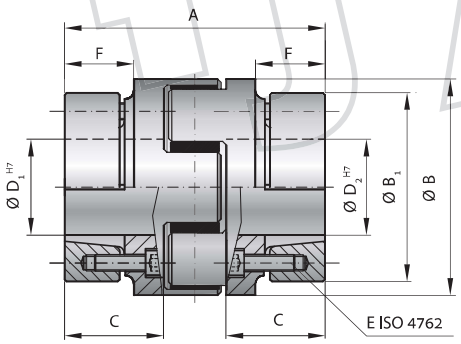
elastomer insert type A / B

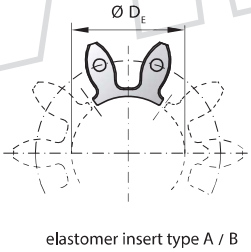
SIZE			2500		4500		9500	
Type (Elastomer insert)			A	B	A	B	A	B
Rated torque	(Nm)	T_{KN}	1950	2450	5000	6200	10000	12500
Max. torque	(Nm)	T_{Kmax}	3900	4900	10000	12400	20000	25000
Overall length	(mm)	A	213		272		341	
Outside diameter	(mm)	B/B_1	160 / 154		225 / 190		290 / 240	
Mounting length	(mm)	C	88		113		142	
Inside diameter (pilot bored)	(mm)	D_V	30		40		50	
Inside diameter range H7	(mm)	$D_{1/2}$	30 - 95		40 - 130		50 - 170	
Inside diameter of elastomer	(mm)	D_E	80		111		145	
Set screws (DIN 916)		E	see table (depending on bore Ø)**					
Distance	(mm)	G	25		30		40	
Possible shortening length	(mm)	H	69		89		110	
Moment of inertia per hub	(10^{-3} kgm²)	J_1/J_2	40		147		480	
Approx. weight	(kg)		12.5		25		53	
Speed standard	(min^{-1})		3,500		3,000		2,000	
Speed balanced	($10^3 min^{-1}$)		10	10	8	8	6.5	6.5

נבה עם טבעות הידוק

EK6 1,950-25,000 Nm

חומר
נבה: ברזל יצוק
גומיה: פוליאוריתן
תרמופלסטי TPU





elastomer insert type A / B

SIZE			2500		4500		9500	
Type (Elastomer insert)			A	B	A	B	A	B
Rated torque	(Nm)	T_{KN}	1950	2450	5000	6200	10000	12500
Max. torque	(Nm)	T_{Kmax}	3900	4900	10000	12400	20000	25000
Overall length	(mm)	A	177		227		282	
Outside diameter	(mm)	B/B_1	160 / 159		225 / 208		285	
Mounting length	(mm)	C	70		90		112	
Inside diameter range H7	(mm)	$D_{1/2}$	40 - 95		50 - 130		60 - 170	
Inside diameter of elastomer	(mm)	D_E	80		111		145	
Clamping screw (ISO 4762)		E	10x M10		10x M12		10x M16	
Tightening torque of the clamping screw	(Nm)		60		100		160	
Distance	(mm)	F	51		66		80	
Moment of inertia per hub	(10^{-3} kgm²)	J_1/J_2	31.7		135.7		469.2	
Approx. weight	(kg)		15		35		73	
Speed standard	(min^{-1})		3,500		3,000		2,000	
Speed balanced	($10^3 min^{-1}$)		10	10	8	8	6.5	6.5

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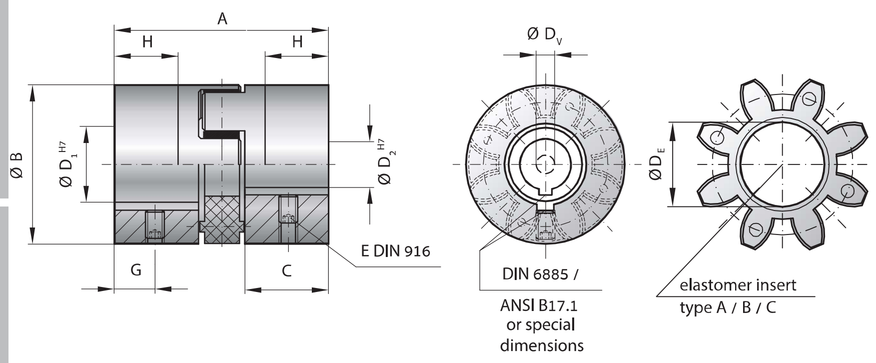
נבה עם קדח שגם וברגי הידוק

0.5-2,150 Nm **EK1**

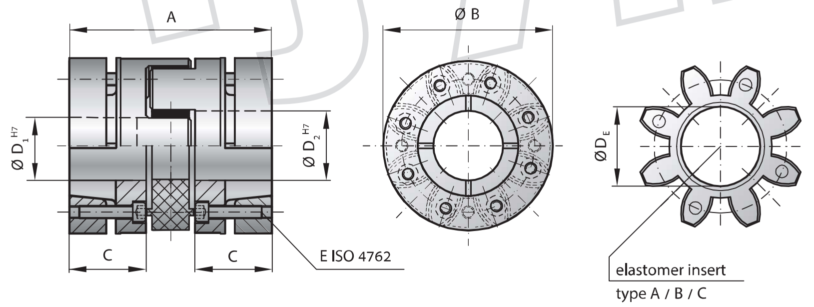


חומר
נבה: עד גודל 450 - אלומיניום קשיח,
גודל 800 - פלדה
- יתר הגדלים אלומיניום
גומיה: פוליאוריתן תרמופלסטי TPU

SIZE		2			5			10			20			60			150			300			450			800		
Type (Elastomer insert)		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Rated torque (Nm)	T_{KN}	2	2.4	0.5	9	12	2	12.5	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1100	240
Max. torque (Nm)	T_{Kmax}	4	4.8	1	18	24	4	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	1060	1350	190	1900	2150	400
Overall length (mm)	A	20			34			35			66			78			90			114			126			162		
Outside diameter (mm)	B/B_1	15			25			32			42			56			66.5			82			102			136.5		
Mounting length (mm)	C	6.5			12			12			25			30			35			45			50			65		
Inside diameter (pilot bored) (mm)	D_V	3			4			6			7			9			14			16			22			29		
Inside diameter range H7 (mm)	$D_{1/2}$	3 - 9			6 - 15			6 - 18			8 - 25			12 - 32			19 - 38			20 - 45			28 - 60			32 - 80		
Inside diameter of elastomer (mm)	D_E	6.2			10.2			14.2			19.2			26.2			29.2			36.2			46.2			60.5		
Set screws (DIN 916)	E	see table (depending on bore Ø)**																										
Distance (mm)	G	3			5			6			9			11			12			15			17			30		
Possible shortening length (mm)	H	4			6			6			19			22			26			32			37			43		
Moment of inertia per hub (10^{-3} kgm²)	J_1/J_2	0.0001			0.001			0.003			0.02			0.06			0.1			0.4			1.1			12		
Approx. weight (kg)		0.008			0.03			0.08			0.15			0.35			0.6			1.1			1.7			11		
Speed standard (min^{-1})		15,000			15,000			13,000			12,500			11,000			10,000			9,000			8,000			4,000		
Speed balanced ($10^3 min^{-1}$)		60	67	45	57	65	43	53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	16	17	12	13	13	8

נבה עם טבעות הידוק

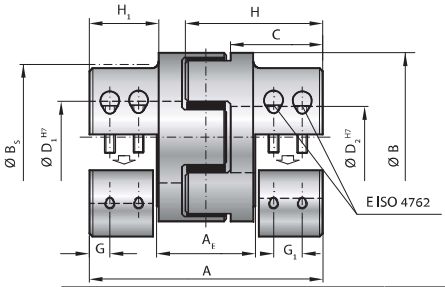
4-2,150 Nm **EK6**

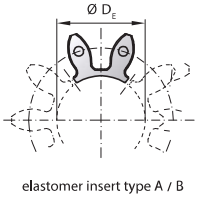


חומר
נבה: עד גודל 450 - אלומיניום קשיח,
גודל 800 - פלדה
גומיה: פוליאוריתן תרמופלסטי TPU

SIZE		10			20			60			150			300			450			800		
Type (Elastomer insert)		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Rated torque (Nm)	T_{KN}	12.5	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1100	240
Max. torque (Nm)	T_{Kmax}	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	1060	1350	190	1900	2150	400
Overall length (mm)	A	42			56			64			76			96			110			138		
Outside diameter (mm)	B/B_1	32			43			56			66.5			82			102			136.5		
Mounting length (mm)	C	15			20			23			28			36			42			53		
Inside diameter range H7 (mm)	$D_{1/2}$	6 - 16			8 - 24			12 - 32			19 - 35			20 - 45			28 - 55			32 - 80		
Inside diameter of elastomer (mm)	D_E	14.2			19.2			26.2			29.2			36.2			46.2			60.5		
Clamping screw (ISO 4762)	E	3x M3			6x M4			4x M5			8x M5			8x M6			8x M8			8x M10		
Tightening torque of the clamping screw (Nm)		2			3			6			7			12			35			55		
Distance (mm)	F																					
Moment of inertia per hub (10^{-3} kgm²)	J_1/J_2	0.004			0.015			0.05			0.1			0.3			0.85			9.2		
Approx. weight (kg)		0.08			0.12			0.3			0.5			0.9			1.5			9.6		
Speed standard (min^{-1})		20,000			19,000			14,000			13,000			10,000			9,000			4,000		
Speed balanced ($10^3 min^{-1}$)		53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	16	17	12	13	13	8

נבה חצויה עם הידוק צביטה



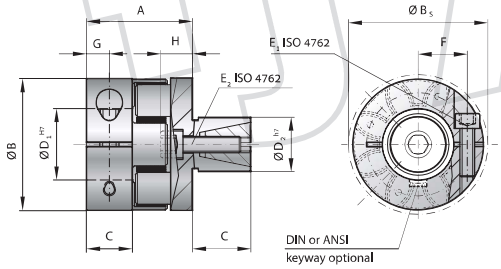


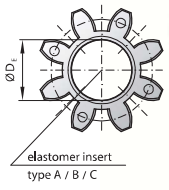
1,950-25,000 Nm **EKH**

חומר
נבה: ברזל יצוק
גומיה: פוליאוריתן
תרמופלסטי TPU

SIZE			2500		4500		9500	
Type (Elastomer insert)			A	B	A	B	A	B
Rated torque	(Nm)	T_{KN}	1950	2450	5000	6200	10000	12500
Max. torque*	(Nm)	T_{Kmax}	3900	4900	10000	12400	20000	25000
Overall length	(mm)	A	213		272		341	
Length of center section	(mm)	A_E	78		104		131	
Outside diameter	(mm)	B	160		225		290	
Outside diameter with screw head	(mm)	B_S	156		190		243	
Mounting length	(mm)	C	85		110		140	
Inside diameter range H7	(mm)	$D_{1/2}$	35 - 90		40 - 120		50 - 140	
Inside diameter of elastomer	(mm)	D_E	80		111		145	
Clamping screw (ISO 4762)		E	8 x M16		8 x M20		8 x M24	
Tightening torque of the clamping screw	(Nm)		300		600		1100	
Distance between centers	(mm)	F	57		72.5		90	
Distance	(mm)	G/G_1	36		24 / 34		30 / 48	
Hub length	(mm)	H/H_1	120 / 69		154 / 80		193 / 110	
Moment of inertia per hub	(10^{-3} kgm²)	J_1/J_2	40		147		480	
Approx. weight	(kg)		12.5		25		53	
Speed standard	(min^{-1})		3,000		3,500		2,000	
Speed balanced	($10^3 min^{-1}$)		10	10	8	8	6.5	6.5

קופלונג עם ציר





2-2,150 Nm **EK7**

חומר
נבה: עד גודל 450 - אלומיניום קשיח,
גודל - 800 פלדה
גומיה: פוליאוריתן תרמופלסטי TPU
ציר - פלדה

SIZE			5			10			20			60			150			300			450			800		
Type (Elastomer insert)			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Rated torque	(Nm)	T_{KN}	9	12	2	12.5	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950		1100	240
Max. torque*	(Nm)	T_{Kmax}	18	24	4	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	1060	1350	190	1900	2150	400	
Overall length	(mm)	A	22			28			40			46			51			68			76			94		
Outside diameter	(mm)	B	25			32			42			56			66.5			82			102			136.5		
Outside diameter with screw head	(mm)	B_S	25			32			44.5			57			68			85			105			139		
Mounting length	(mm)	C_1	8			10.3			17			20			21			31			34			46		
Mounting length	(mm)	C_2	12			20			25			27			32			45			55			60		
Inside diameter range H7	(mm)	D_1	4 - 12.7			5 - 16			8 - 25			12 - 32			19 - 36			20 - 45			28 - 60			35 - 80		
Outside diameter range h7	(mm)	D_2	10 - 16			13 - 25			14 - 30			23 - 38			26 - 42			38 - 60			42 - 70			42 - 80		
Inside diameter of elastomer	(mm)	D_E	10.2			14.2			19.2			26.2			29.2			36.2			46.2			60.5		
Clamping screw (ISO 4762)		E_1	M3			M4			M5			M6			M8			M10			M12			M16		
Tightening torque	(Nm)		2			4			8			15			35			70			120			290		
Clamping screw (ISO 4762)		E_2	M4			M5			M6			M8			M10			M12			M16			M16		
Tightening torque	(Nm)		4			9			12			32			60			110			240			300		
Distance between centers	(mm)	F	8			10.5			15.5			21			24			29			38			50.5		
Distance	(mm)	G	4			5			8.5			10			11			15			17.5			23		
Length	(mm)	H	7			7			10			11			16			20			27			27		
Moment of inertia D_1	(10^{-3} kgm²)	J_1	0.002			0.003			0.01			0.04			0.08			0.3			0.66			8		
Moment of inertia D_2	(10^{-3} kgm²)	J_2	0.002			0.01			0.04			0.1			0.2			1			2.6			9		
Approx. weight	(kg)		0.04			0.05			0.12			0.3			0.5			0.9			1.5			7.6		
Speed standard	(min^{-1})		15,000			13,000			12,500			11,000			10,000			9,000			8,000			4,000		
Speed balanced	($10^3 min^{-1}$)		57	65	43	53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	16	17	12	13	13	8

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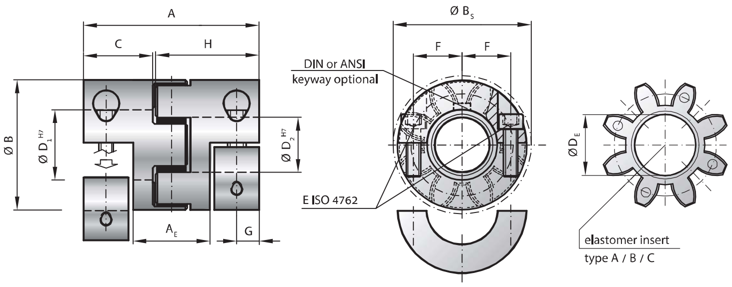
נבה חצויה עם הידוק צביטה

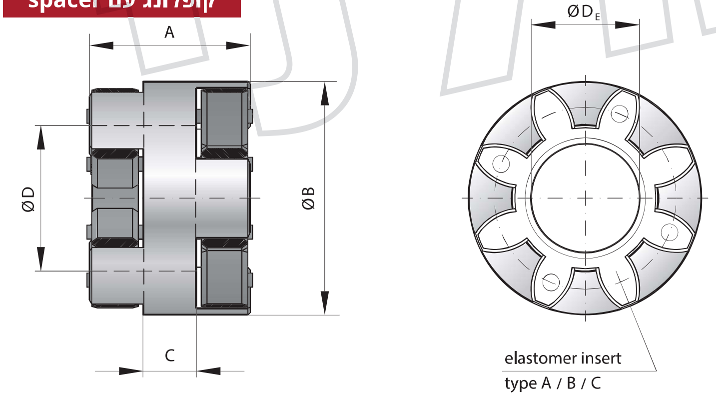


EKH 4-2,150 Nm

חומר
נבה: עד גודל 450 - אלומיניום קשיח,
גודל 800 - פלדה
גומיה: פוליאוריתן תרמופלסטי TPU

SIZE			10			20			60			150			300			450			800		
Type (Elastomer insert)			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Rated torque	(Nm)	T_{KN}	12.6	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1100	240
Max. torque*	(Nm)	T_{Kmax}	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	1060	1350	190	1900	2150	400
Overall length	(mm)	A	53			66			78			90			114			126			162		
Length of center section	(mm)	A_E	20			28			33			37			49			51			65		
Outside diameter	(mm)	B	32			42			56			66.5			82			102			136.5		
Outside diameter with screw head	(mm)	B_S	32			44.5			57			68			85			105			139		
Mounting length	(mm)	C	20			25			30			35			45			50			65		
Inside diameter range H7	(mm)	$D_{1/2}$	6 - 16			8 - 25			12 - 32			19 - 36			20 - 45			28 - 60			35 - 80		
Inside diameter of elastomer	(mm)	D_E	14.2			19.2			26.2			29.2			36.2			46.2			60.5		
Clamping screw (ISO 4762)		E	4 x M4			4 x M5			4 x M6			4 x M8			4 x M10			4 x M12			4 x M16		
Tightening torque of the clamping screw	(Nm)		4			8			15			35			70			120			290		
Distance between centers	(mm)	F	10.5			15.5			21			24			29			38			50.5		
Distance	(mm)	G/G_1	7.5			8.5			10			12			15			17.5			23		
Hub length	(mm)	H/H_1	31			39			46			52.5			66			73			93.5		
Moment of inertia per hub	(10^{-3} kgm²)	J_1/J_2	0.005			0.02			0.06			0.1			0.4			1			9.5		
Approx. weight	(kg)		0.08			0.15			0.35			0.6			1.1			1.7			10		
Speed standard	(min^{-1})		13,000			12,500			11,000			10,000			9,000			8,000			4,000		
Speed balanced	($10^3 min^{-1}$)		53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	16	17	12	13	13	8

קופלונג עם spacer



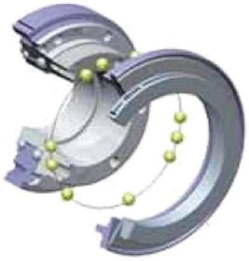
EKZ 0.5-2,150 Nm

חומר
נבה: אלומיניום קשיח
גומיה: פוליאוריתן תרמופלסטי TPU

SIZE			2			5			10			20			60			150			300			450			800		
Type (Elastomer insert)			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Rated torque	(Nm)	T_{KN}	2	2.4	0.5	9	12	2	12.5	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1100	240
Max. torque	(Nm)	T_{Kmax}	4	4.8	1	18	24	4	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	1060	1350	190	1900	2150	400
Overall length	(mm)	A	20			26			30			39			48			53			62			86			81		
Outside diameter	(mm)	B	16			25			32			42			56			66.5			82			102			136.5		
Hub length	(mm)	C	9			9			9			10			16			18			20			40			25		
Inside diameter	(mm)	D	9			15			18			25			32			38			45			60			80		
Inside diameter of elastomer	(mm)	D_E	6.2			10.2			14.2			19.2			26.2			29.2			36.2			46.2			60.5		
Moment of inertia	(10^{-3} kgm²)	J_1/J_2	0.0001			0.0005			0.002			0.008			0.03			0.05			0.1			0.6			1.1		
Approx. weight	(kg)		0.007			0.02			0.04			0.09			0.21			0.33			0.58			1.38			2.09		
Speed standard	(min^{-1})		15,000			15,000			13,000			12,500			11,000			10,000			9,000			8,000			4,000		

מערכות הגבלת המומנט

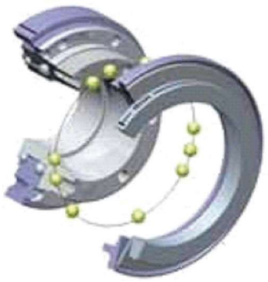
מיקום יחיד / SINGLE POSITION



גירסא סטנדרטית

- לאחר שעומס היתר הוסר מעל המערכת, הקלאץ' ישתלב אוטומטית ובאופן מדויק במיקום ההתחלתי שלו.
- שמירה על סנכרון מיקומו של הציר.
- לוח המתגים מופעל על מנת להתריע על עומס היתר.
- למערכת פטנט ייחודי עבור preload שמונע חופש (backlash).
- מותאם למנגנוני הנעה מדויקים.

מיקום זויתי משתנה / MULTI-POSITION

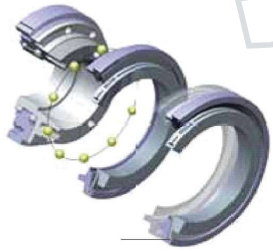


- לאחר שעומס היתר הוסר מעל המערכת, הקלאץ' ישתלב אוטומטית ובאופן מדויק באחד מן המיקומים הזוויתיים האפשריים: 30, 45, 90, 120 מעלות.
- חזרה מיידית לפעולה לאחר הסרת העומס.
- לוח המתגים מופעל על מנת להתריע על עומס היתר.
- צימוד מחדש בגירסא הסטנדרטית במיקום זויתי של 60 מעלות.
- למערכת פטנט ייחודי עבור preload שמונע חופש (backlash).
- מותאם למנגנוני הנעה מדויקים.

ניתוק מוחלט/FULL DISENGAGEMENT

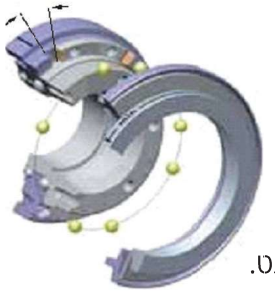
- ניתוק מוחלט בין הכניסה והיציאה לקופלונג במצב של עומס יתר. הציר יסתובב באופן חופשי עד לעצירתו.
- קפיצי הדיסקה מתנתקים ממיקומם ההתחלתי, ומסירים לחלוטין כוחות על מערכת הקלאץ'.
- לוח המתגים מופעל על מנת להתריע על עומס היתר.
- הקופלונג דורש צימוד ידני לאחר הסרת העומס. מיקום זויתי סטנדרטי – 60 מעלות.
- מיקומים זוויתיים אחרים לפי בקשה.
- מותאם לאפליקציות למהירויות גבוהות.

*** ניתן להזמין את הקופלונג עם מערכת ניתוק ידנית לפי בקשה.**



הקפיץ במצב של ניתוק

השהיית העומס/ LOAD HOLDING / LOAD BLOCKING



- התקן עזר לזיהוי עומס היתר
- תנועה סיבובית חלקית בלבד בכניסה וביציאה לקופלונג, שמספיקה עבור הפעלת מערכת הבלימה וניתוק המערכת.
- צימוד מחודש (לאחר הסרת עומס היתר) במיקום המקורי המדויק בו נעשתה ההינתקות.
- לוח המתגים מופעל על מנת להתריע על עומס היתר.
- שימושי במיוחד במערכות הרמה ואפליקציות בהן העומס חייב להיתמך לאחר שחרור מהיר של המומנט.

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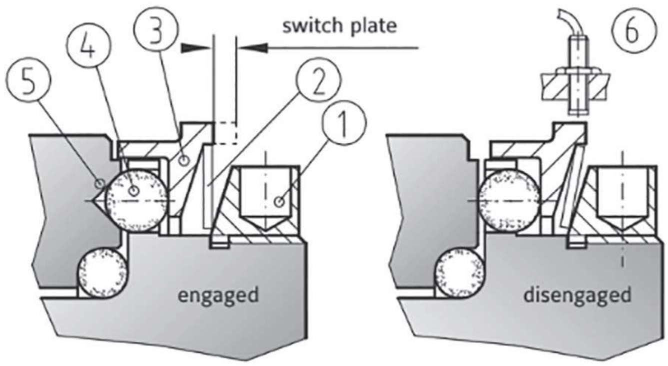


① Torque adjustment nut
② Disc spring system
③ Switch plate
④ Drive ball
⑤ Conical detent
⑥ Proximity switch

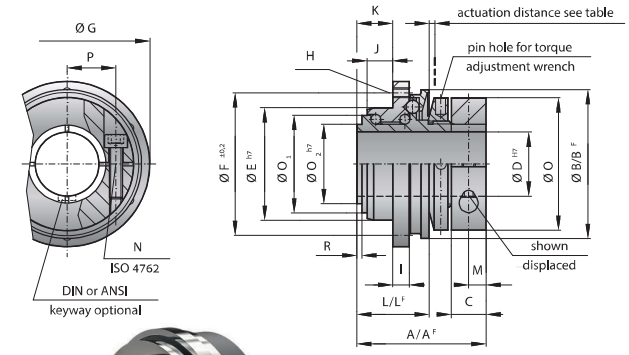
אפיון מוצר

	SK1	10	W	12.7	4	2-6	XX
Model	●						Special designation only (e.g. special bore / keyway dimensions).
Size		●					
Function system			●				
Bore D1 H7				●			
Disengagement torque Nm					●		
Torque adjustment range Nm						●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. SK1/10/W/12.7/4/2-6/X X; XX=stainless steel)							

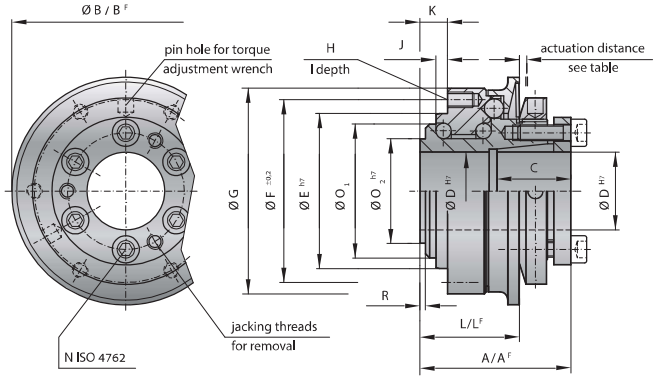
מגביל מומנט עם תותב הידוק קוני/טבעת הידוק

SK1 | 0.1-2,800 Nm

דגם קטן | 10 - 1.5



דגם סטנדרטי | 15 - 2,500



חומר
מערכת הגבלת מומנט: פלדה קשיחה
עבור הדגם הקטן: טבעות הידוק מאלומיניום
עבור הדגם הסטנדרטי: תותבי הידוק מפלדה

SIZE			1.5	2	4.5	10	15	30	60	150	200	300	500	800	1500	2500
Adjustment range available from - to (approx. values)	(Nm)	T_{KN}	0.1-0.6 0.4-1 0.8-2	0.2-1.5 0.5-2.2 1.5-3.5	1-3 2-4.5 3-7	2-6 4-12 7-18	5-15 12-25 20-40 35-70	5-20 10-30 20-60 50-100	10-30 25-80 50-115	20-70 45-150 80-225	30-90 60-160 140-280 250-400	100-200 150-240 220-440	80-200 200-350 320-650	400-650 500-800 650-950	600-800 700-1200 1000-1800	1500-2000 2000-2500 2300-2800
Adjustment range available from - to (approx. values) ("F" Version)	(Nm)	T_{KN}	0.3-0.8 or 0.6-1.3	0.2-1 or 0.7-2	2.5-4.5	2-5 4-10 8-15	7-15	8-20 or 16-30	10-30 20-40 30-60	20-60 40-80 80-150	80-140 or 130-200	120-180 160-300 300-450	50-150 100-300 250-500	200-400 or 450-850	1000-1250 or 1250-1500	1400-2200 or 1800-2700
Overall length	(mm)	A	23	28	32	39	40	50	54	58	63	70	84	95	109	146
Overall length ("F" Version)	(mm)	A^F	23	28	32	39	40	50	54	58	66	73	88	95	117	152
Actuation ring Ø	(mm)	B	23	29	35	45	55	65	73	92	99	120	135	152	174	242
Actuation ring Ø, ("F" Version)	(mm)	B^F	24	32	42	51.5	62	70	83	98	117	132	155	177	187	258
Clamping fit length	(mm)	C	7	8	11	11	19	22	27.5	32	32	41	41	49	61	80
Inner diameter from Ø to Ø H7	(mm)	D	4-8	4-12	5-14	6-20	8-22	12-22	12-29	15-37	20-44	25-56	25-56	30-60	35-70	50-100
Pilot diameter h7	(mm)	E	14	22	25	34	40	47	55	68	75	82	90	100	125	168
Bolt-hole circle diameter ± 0.2	(mm)	F	22	28	35	43	47	54	63	78	85	98	110	120	148	202
Flange outside diameter -0.2	(mm)	G	26	32	40	50	53	63	72	87	98	112	128	140	165	240
Thread		H	4xM2	4xM2.5	6xM2.5	6xM3	6xM4	6xM5	6xM5	6xM6	6xM6	6xM8	6xM8	6xM10	6xM12	6xM16
Thread depth	(mm)	I	3	4	4	5	6	8	9	10	10	10	12	15	16	24
Centering length -0.2	(mm)	J	2.5	3.5	5	8	3	5	5	5	5	6	9	10	13.5	20
Distance	(mm)	K	5	6	8	11	8	11	11	12	12	15	21	19	25	34
Distance	(mm)	L	11	15	17	22	27	35	37	39	44	47	59	67	82	112
Distance, ("F" Version)	(mm)	L^F	11.5	16	18	24	27	37	39	41.5	47	51.5	68	75	94	120
Distance		M	3.5	4	5	5										
Screw ISO 4762		N	1xM2.5	1xM3	1xM4	1xM4	6xM4	6xM5	6xM5	6xM6	6xM6	6xM8	6xM8	6xM10	6xM12	6xM16
Tightening torque	(Nm)		1	2	4	4.5	4	6	8	12	14	18	25	40	70	120
Outside diameter clamp ring Ø	(mm)	O	20	25	32	40										
Diameter	(mm)	O_1	13	18	21	30	35	42	49	62	67	75	84	91	112	154
Diameter h7	(mm)	O_2	11	14	17	24	27	32	39	50	55	65	72	75	92	128
Distance between centers	(mm)	P	6.5	8	10	15										
Distance	(mm)	R	1	1.3	1.5	1.5	2.5	2.5	2.5	2.5	3	3	4	4	4.5	6
Moment of inertia	($10^{-3}kgm^2$)	J_{ges}	0.01	0.02	0.05	0.07	0.15	0.25	0.50	1.60	2.70	5.20	8.6	20	31.5	210
Approx. weight	(kg)		0.03	0.065	0.12	0.22	0.4	0.7	1.0	1.3	2.0	3.0	4.0	5.5	10	28
Actuation distance	(mm)		0.7	0.8	0.8	1.2	1.5	1.7	1.7	1.9	2.2	2.2	2.2	2.2	3.0	3.0

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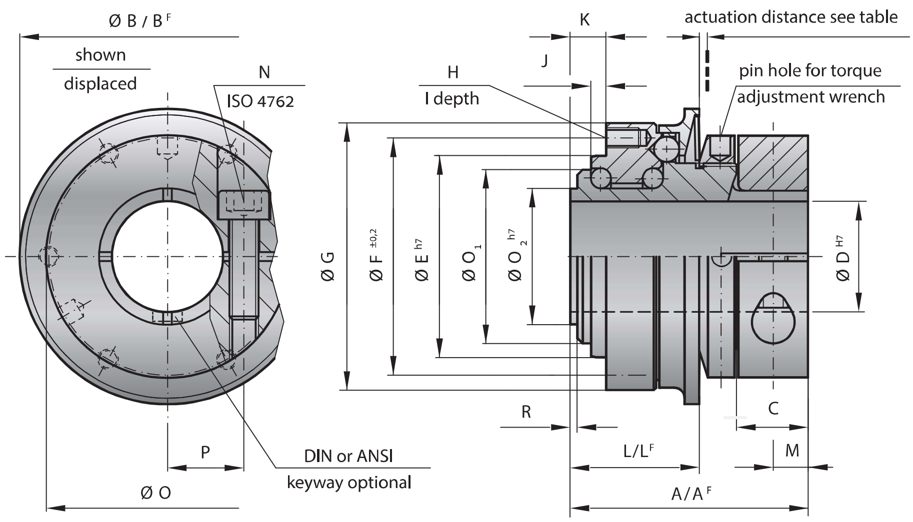
מגביל מומנט עם צווארון הידוק

SKN 5-1,800 Nm

חומר
מערכת הגבלת מומנט: פלדה קשיחה
צווארון הידוק: עד גודל 500 - אלומיניום, גודל 800 ומעלה - פלדה



SIZE			15	30	60	150	200	300	500	800	1500
Adjustment range available from - to (approx. values)	(Nm)	T_{KN}	5-10 or 8-20	10-25 or 20-40	10-30 or 25-80	20-70 45-150 80-180	30-90 60-160 120-240	100-200 150-240 200-320	80-200 200-350 300-500	400-650 500-800 600-850	600-800 700-1200 1000-1800
Adjustment range available from - to (approx. values) ("F" Version)	(Nm)	T_{KN}	7-15	8-20 or 16-30	10-30 20-40 30-60	20-60 40-80 80-150	80-140 or 130-200	120-180 or 160-300	50-150 100-300 250-500	200-400 or 450-800	1000-1250 or 1250-1500
Overall length	(mm)	A	47	59	65	71	80	84	101	115	145
Overall length, ("F" Version)	(mm)	A^F	47	59	65	73	83	87	107	126	160
Actuation ring Ø	(mm)	B	55	65	73	92	99	120	135	152	174
Actuation ring Ø, ("F" Version)	(mm)	B^F	62	70	83	98	117	132	155	177	187
Clamping fit length	(mm)	C	13.5	16	20	23	26	26	30	35	46
Inside diameter from Ø to Ø H7	(mm)	D	12-22*	14-25.4*	16-32	19-40*	24-44	30-56*	35-60*	40-62*	50-72*
Pilot diameter h7	(mm)	E	40	47	55	68	75	82	90	100	125
Bolt-hole circle diameter ± 0.2	(mm)	F	47	54	63	78	85	98	110	120	148
Flange outside diameter -0.2	(mm)	G	53	63	72	87	98	112	128	140	165
Thread		H	6xM4	6xM5	6xM5	6xM6	6xM6	6xM8	6xM8	6xM10	6xM12
Thread depth	(mm)	I	6	8	9	10	10	10	12	15	16
Centering length -0.2	(mm)	J	3	5	5	5	5	6	9	10	13.5
Distance	(mm)	K	8	11	11	12	12	15	21	19	25
Distance	(mm)	L	27	35	37	39	44	47	59	67	82
Distance, ("F" Version)	(mm)	L^F	27	37	39	41.5	47	51.5	68	75	94
Distance		M	6.5	7.5	9.5	11	13	13	14.5	18	22.5
Screw ISO 4762		N	M5	M6	M8	M10	M12	M12	M14	M16	M20
Tightening torque		N	8	15	40	70	120	130	210	270	500
Clamp ring Ø		O	49	55	67	85	94	110	121	134	157
Diameter	(mm)	O_1	35	42	49	62	67	75	84	91	112
Diameter h7	(mm)	O_2	27	36	39	50	55	65	72	75	92
Distance between centers	(mm)	P	17.5	19	23.5	30	32.5	39	43.5	45	52
Distance	(mm)	R	2.5	2.5	2.5	2.5	3	3	4	4	4.5
Moment of inertia	(10^{-3}kgm^2)	J_{ges}	0.15	0.25	0.50	1.60	2.70	5.20	8.60	20	31.5
Approx. weight	(kg)		0.4	0.7	1.0	1.3	2.0	3.0	4.0	5.5	10
Actuation distance	(mm)		1.5	1.5	1.7	1.9	2.2	2.2	2.2	2.2	3.0

מגביל מומנט עם קדח שגם

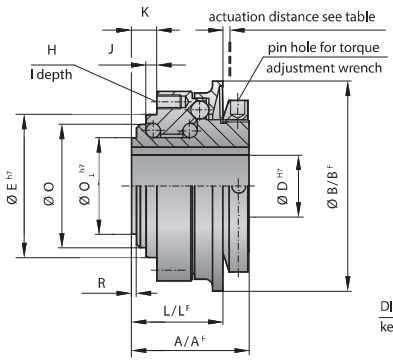
דגם סטנדרטי | 15 - 2,500

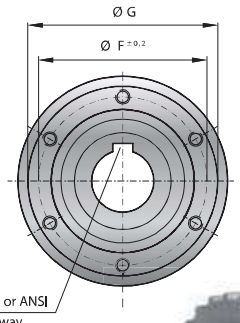
דגם קטן | 10 - 1.5

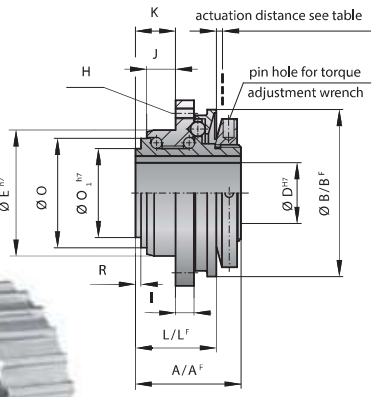
0.1-2,800 Nm **SKP**

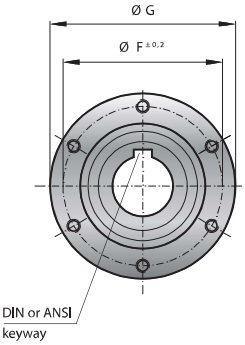
מערכת הגבלת מומנט: פלדה קשיחה
Keyway: DIN 6885 or ANSI B17.1

Standard with keyway mounting









Timing belt or chain sprocket only included upon request.

SIZE			1.5	2	4.5	10	15	30	60	150	200	300	500	800	1500	2500
Adjustment range available from - to (approx. values)	(Nm)	T_{KN}	0.1-0.6 0.4-1 0.8-2	0.2-1.5 0.5-2.2 1.5-3.5	1-3 2-4.5 3-7	2-6 4-12 7-18	5-15 12-25 20-40 35-70	5-20 10-30 20-60 50-100	10-30 25-80 50-115	20-70 45-150 80-225	30-90 60-160 140-280 250-400	100-200 150-240 220-440	80-200 200-350 320-650	400-650 500-800 650-950	600-800 700-1200 1000-1800	1500-2000 2000-2500 2300-2800
Adjustment range available from - to (approx. values) ("F" Version)	(Nm)	T_{KN}	0.3-0.8 or 0.6-1.3	0.2-1 or 0,7-2	2.5-4.5	2-5 4-10 8-15	7-15	8-20 or 16-30	10-30 20-40 30-60	20-60 40-80 80-150	80-140 or 130-200	120-180 160-300 300-450	50-150 100-300 250-400	200-400 or 450-850	1000-1250 or 1250-1500	1400-2200 or 1800-2700
Overall length A	(mm)	A	15.5	20	22	28	34	43	46	48.5	54	57	71.5	80	99	135
Overall length ("F" Version)	(mm)	A^F	15.5	20	22	28	34	43	46	48.5	57	60	75	91	110	141
Actuation ring Ø	(mm)	B	23	29	35	45	55	65	73	92	99	120	135	152	174	242
Actuation ring Ø, ("F" Version)	(mm)	B^F	24	32	42	51.5	62	70	83	98	117	132	155	177	187	258
Inner diameter from Ø to Ø H7	(mm)	D	4-8*	4-10*	4-12*	4-16*	8-18	12-25.4	12-28	15-38	20-42	25-50	25-58	30-60	35-73	50-98
Inner diameter with keyway DIN 6885-3 (flat)	(mm)	D	-	-	-	16-18	18-20	25.4-27	28-30	38-40	42-44	50-52	58-60	60-63	73-75	98-100
Pilot diameter h7	(mm)	E	14	22	25	34	40	47	55	68	75	82	90	100	125	168
Bolt-hole circle diameter ± 0.2	(mm)	F	22	28	35	43	47	54	63	78	85	98	110	120	148	202
Flange outside diameter -0.2	(mm)	G	26	32	40	50	53	63	72	87	98	112	128	140	165	240
Thread		H	4xM2	4xM2.5	6xM2.5	6xM3	6xM4	6xM5	6xM5	6xM6	6xM6	6xM8	6xM8	6xM10	6xM12	6xM16
Thread depth	(mm)	I	3	4	4	5	6	8	9	10	10	10	12	15	16	24
Centering length -0.2	(mm)	J	2.5	3.5	5	8	3	5	5	5	5	6	9	10	13.5	20
Distance	(mm)	K	5	6	8	11	8	11	11	12	12	15	21	19	25	34
Distance	(mm)	L	11	15	17	22	27	35	37	39	44	47	59	67	82	112
Distance, ("F" Version)	(mm)	L^F	11.5	16	18	24	27	37	39	41.5	47	51.5	68	75	94	120
Diameter	(mm)	O	13	18	21	30	35	42	49	62	67	75	84	91	112	154
Diameter h7	(mm)	O_1	11	14	17	24	27	32	39	50	55	65	72	75	92	128
Distance	(mm)	R	1	1.3	1.5	1.5	2.5	2.5	2.5	2.5	3	3	4	4	4.5	6
Moment of inertia	($10^{-3}kgm^2$)	J_{gas}	0.01	0.02	0.05	0.07	0.15	0.25	0.50	1.60	2.70	5.20	8.6	20	31.5	210
Approx. weight	(kg)		0.03	0.065	0.12	0.22	0.4	0.7	1.0	1.3	2.0	3.0	4.0	5.5	10	28
Actuation distance	(mm)		0.7	0.8	0.8	1.2	1.5	1.5	1.7	1.9	2.2	2.2	2.2	2.2	3.0	3.0

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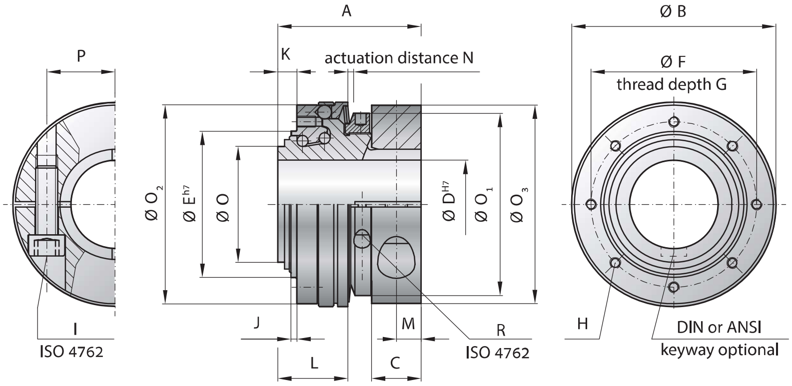
מגביל מומנט עם צווארון הידוק ובורג הידוק

10-700 Nm **SLN**



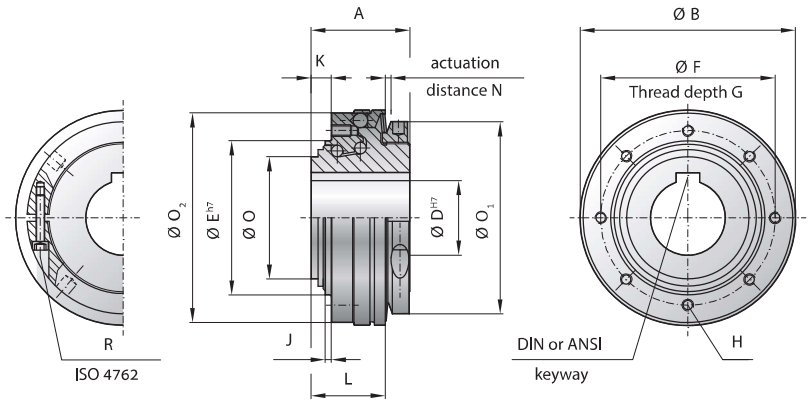
SIZE		30	60	150	300
Adjustment range* from - to (Nm)	T_{KN}	10-35 30-80 40-135	30-80 60-120 100-200	40-100 100-200 150-300	200-350 300-450 400-550 550-700
Overall length (mm)	A	45	53	63	72
Actuation ring Ø (mm)	B	63	74	92	118
Clamping fit length (mm)	C	15	18	22	24
Bore diameter from Ø to Ø H7 (mm)	D	12-30	16-35	19-48	22-60
Bore diameter with keyway DIN 6885 from Ø to Ø H7	D	12-25.4	16-32	19-44	22-54
Pilot diameter h7 (mm)	E	43	53	68	85
Bolt-hole circle diameter ± 0.2 (mm)	F	48	60	75	95
Thread depth +1 (mm)	G	5	6	7	9
Fastening threads	H	8x M4	8x M4	8x M5	8x M6
Screw ISO 4762	I	M6	M8	M10	M12
Tightening torque (Nm)	I	15	40	75	130
Centering length -0.2 (mm)	J	2	2	3	3
Distance (mm)	K	6	7	9	9
Distance to actuation ring edge (mm)	L	23	26	32	36
Distance (mm)	M	7.5	9	11	12
Actuation distance (mm)	N	1.3	1.5	1.8	2
Ø Base element (mm)	O	35	42	54	70
Ø Adjustment nut (mm)	O_1	55	66	82	100
Ø Flange -0.2 (mm)	O_2	58	72	87	110
Ø Clamp ring (mm)	O_3	59	72	90	112
Distance between centers (mm)	P	21.5	25	33	41
Adjustment nut's clamp screw ISO 4762	R	M3	M3	M3	M4
Tightening torque (Nm)	R	2	2	2	4.5
Approx. weight (kg)		0.3	0.5	0.8	1.5
Approx. moment of inertia at D max (10^{-3} Kgm²)	J_{ges}	0.15	0.3	1	3

Maximum transmittable torque of the clamping hub depends on the bore diameter

מגביל מומנט עם קדח שגם

10-700 Nm **SLP**

Keyway: DIN 6885 or ANSI B17.1



SIZE			30	60	150	300
Adjustment range* from - to	(Nm)	T KN	10-35 30-80 40-135	30-80 60-120 100-200	40-100 100-200 150-300	200-350 300-450 400-550 550-700
Overall length	(mm)	A	30	35	41	48
Actuation ring diameter	(mm)	B	63	74	92	118
Bore diameter from Ø to Ø H7	(mm)	D	12-25.4 (28)*	16-32 (34)*	19-44 (46)*	22-54 (58)*
Pilot diameter h7	(mm)	E	43	53	68	85
Bolt-hole circle diameter ± 0.2	(mm)	F	48	60	75	95
Thread depth +1	(mm)	G	5	6	7	9
Fastening threads		H	8x M4	8x M4	8x M5	8x M6
Centering length -0.2	(mm)	J	2	2	3	3
Distance	(mm)	K	6	7	9	9
Distance to actuation ring edge	(mm)	L	23	26	32	36
Actuation distance	(mm)	N	1.3	1.5	1.8	2
Ø Base element	(mm)	O	35	42	54	70
Ø Adjustment nut	(mm)	O_1	55	66	82	100
Ø Flange -0.2	(mm)	O_2	58	72	87	110
Adjustment nut's clamp screw ISO 4762		R	M3	M3	M3	M4
Tightening torque	(Nm)		2	2	2	4.5
Approx. weight	(kg)		0.2	0.35	0.7	1.1
Approx. moment of inertia at D max.	(10^{-3} kgm²)	J_{ges}	0.1	0.4	1.1	2.3

maximum bore diameters shown are only available with shallow keyway*

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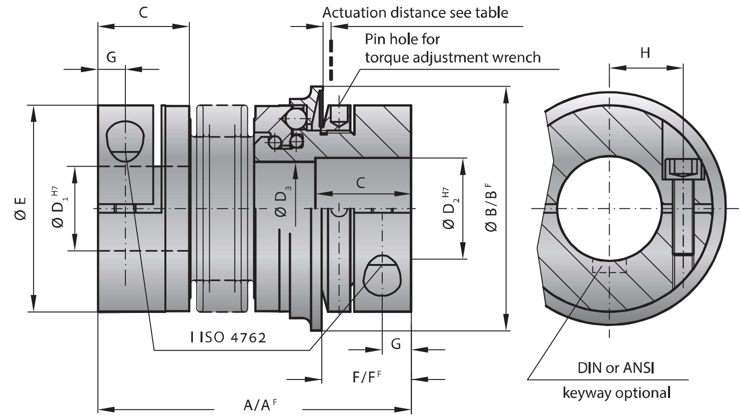
נבה עם בורג הידוק

SK2
0.1-1,800 Nm

חומר
גרמושקה: נירוסטה
מערכת הגבלת מומנט:
פלדה קשיחה
נבה: גודל 150 ומעלה - פלדה
יתר הגדלים - אלומיניום

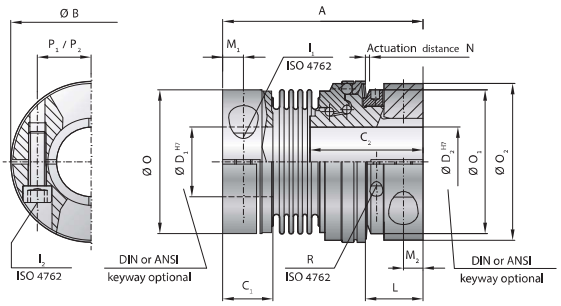


SIZE		1.5	2	4.5	10	15	30	60	80	150	200	300	500	800	1500
Adjustment range available from - to (approx. values) (Nm)	T_{KN}	0.1-0.6 0.4-1 0.8-1.5	0.2-1.5 or 0.5-2	1-3 or 3-6	2-6 or 4-12	5-10 or 8-20	10-25 or 20-40	10-30 or 25-80	20-70 or 30-90	20-70 45-150 80-180	30-90 60-160 120-240	100-200 150-240 200-320	80-200 200-350 300-500	400-650 500-800 650-850	650-800 700-1200 1000-1800
Adjustment range available from - to (approx. values) ("F" Version) (Nm)	T_{KN}	0.3-0.8 or 0.6-1.3	0.2-1 or 0.7-2	2.5-4.5	2-5 or 5-10	7-15	8-20 or 16-30	20-40 or 30-60	20-60 or 40-80	20-60 40-80 80-150	80-140 or 130-200	120-180 or 160-300	60-150 100-300 250-500	200-400 or 450-800	1000-1250 or 1250-1500
Overall length (mm)	A	42	46 / 51	57 / 65	65 / 74	75 / 82	87 / 95	102 / 112	115 / 127	116 / 128	128 / 140	139 / 153	163 / 177	190	223
Overall length, ("F" Version) (mm)	A^F	42	46 / 51	57 / 65	65 / 74	75 / 82	87 / 95	102 / 112	117 / 129	118 / 130	131 / 143	142 / 156	167 / 181	201	232
Actuation ring Ø (mm)	B	23	29	35	45	55	65	73	92	92	99	120	135	152	174
Actuation ring Ø, ("F" Version) (mm)	B^F	24	32	42	51.5	62	70	83	98	98	117	132	155	177	187
Clamping fit length (mm)	C	11	13	16	16	22	27	31	35	35	40	42	51	48	67
Inside diameter from Ø to Ø H7 (mm)	D_1/D_2	3-8*	4-12*	5-14*	6-16*	10-26	12-30	15-32	19-42	19-42	24-45	30-60	35-60	40-75	50-80
Diameter (mm)	D_3	9.1	12.1	14.1	20.1	21.1	24.1	32.1	36.1	36.1	42.1	58.1	60.1	60.1	68.1
Outside diameter of coupling (mm)	E	19	25	32	40	49	55	66	81	81	90	110	123	134	157
Distance (mm)	F	12	13	15	17	19	24	28	31	31	35	35	45	50	63
Distance, ("F" Version) (mm)	F^F	11.5	12	14	16	19	22	29	31	30	33	35	43	54	61
Distance (mm)	G	3.5	4	5	5	6.5	7.5	9.5	11	11	12.5	13	17	18	22.5
Distance between centers (mm)	H	6	8	10	15	17	19	23	27	27	31	39	41	2x48	2x55
Screw ISO 4762	I	M2.5	M3	M4	M4	M5	M6	M8	M10	M10	M12	M12	M16	2xM16	2xM20
Tightening torque (Nm)		1	2	4	4.5	8	15	40	50	70	120	130	200	250	470
Approx. weight (kg)		0.047	0.07	0.2	0.3	0.4	0.6	1.0	2.0	2.4	4.0	5.9	9.6	14	21
Moment of inertia (10^{-3} kgm²)	J_{ges}	0.01	0.01 / 0.01	0.02 / 0.02	0.06 / 0.07	0.10 / 0.15	0.27 / 0.32	0.75 / 0.80	1.80 / 1.90	2.50 / 2.80	5.10 / 5.30	11.5 / 11.8	22.8 / 23.0	42.0	83.0
Torsional stiffness (10^3 Nm/rad)	C_T	0.7	1.2 / 1.3	7 / 5	9 / 8	20 / 15	39 / 28	76 / 55	129 / 85	175 / 110	191 / 140	420 / 350	510 / 500	780	1304
Lateral ± (mm)	max. values	0.15	0.15 / 0.20	0.20 / 0.25	0.20 / 0.30	0.15 / 0.20	0.20 / 0.25	0.20 / 0.25	0.20 / 0.25	0.20 / 0.25	0.25 / 0.30	0.25 / 0.30	0.30 / 0.35	0.35	0.35
Angular ± (Degree)	max. values	1	1 / 1.5	1.5 / 2	1.5 / 2	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1.5 / 2	1.5 / 2	2 / 2.5	2.5	2.5
Lateral spring stiffness (N/mm)		70	40 / 30	290 / 45	280 / 145	475 / 137	900 / 270	1200 / 420	920 / 255	1550 / 435	2040 / 610	3750 / 1050	2500 / 840	2000	3600
Actuation distance (mm)		0.7	0.8	0.8	1.2	1.5	1.5	1.7	1.9	1.9	2.2	2.2	2.2	2.2	3

נבה עם הידוק צביטה

* אופציה לנבה עם צווארון הידוק

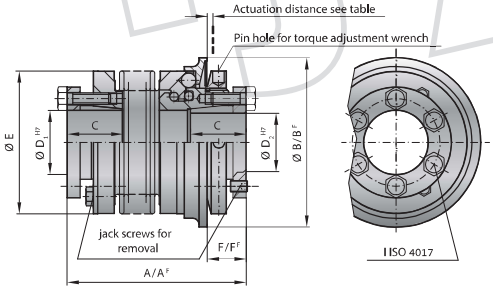
10-400 Nm **SL2**



SIZE			30	60	150	300
Adjustment range* from - to	(Nm)	T_{KN}	10-35 30-80	20-50 40-100	40-100 100-200	100-250 200-350 300-400
Overall length	(mm)	A	80	93	112	126
Actuation ring diameter	(mm)	B	63	74	92	118
Hub length	(mm)	C_1/C_2	21/45	23/53	28 / 63	34/72
Bore diameter from Ø to Ø H7	(mm) D	$_1/D_2$	12-32/12-30	16-35 / 16-35	19-42 / 19-48	22-60 / 22-60
Screw ISO 4762	(mm)	I_1/I_2	M6	M8	M10	M12
Tightening torque	(Nm)		15	40	75	130
Distance to actuation ring edge	(mm)	L	22	26	32	35
Distance	(mm)	M_1/M_2	7.5/7.5	9.5/9	11/11	13/12
Actuation distance	(mm)	N	1.3	1.5	1.8	2
Ø Clamping hub Ø, (coupling end)	(mm)	O	55.5	66	82	110
Ø Adjustment nut	(mm)	O_1	55	66	82	100
Clamping ring Ø, (torque limiter end)	(mm)	O_2	59	72	90	112
Distance between centers, bellows side/safety element	(mm)	P_1/P_2	20/21.5	23 / 25	27/33	39/41
Adjustment nut's clamp screw ISO 4762		R	M3	M3	M3	M4
Tightening torque	(Nm)		2	2	2	4.5
Approx. weight	(kg)		0.4	0.7	1.2	2.8
Approx. moment of inertia at D max.(10 $^{-3}$ Kgm²)		J_{ges}	0.2	0.8	1.4	6.2
Torsional stiffness	(10^{-3} Nm/rad)		31	72	141	157
Lateral ±	max. (mm)		0.2	0.2	0.2	0.25

Maximum transmittable torque of the clamping hub depends on the bore diameter

מגביל מומנט עם תותב הידוק קוני ו-6 ברגי הידוק



5-2,800 Nm **SK3**

חומר
גרמושקה:נירוסטה
מערכת הגבלת מומנט:
פלדה קשיחה
נבה, תותבים:פלדה

SIZE			15	30	60	150	200	300	500	800	1500	2500
Adjustment range available from (approx. values)	(Nm)	T_{KN}	5-10 or 8-20	10-25 or 20-40	10-30 or 25-80	20-70 45-150 80-200	30-90 60-160 140-280	100-200 150-240 220-400	80-200 200-350 300-500	400-650 500-800 600-900	650-850 700-1200 1000-1800	1500-2000 2000-2500 2300-2800
Adjustment range available from (approx. values) ("F" Version)	(Nm)	T_{KN}	7-15	8-20 or 16-30	20-40 or 30-60	20-60 40-80 80-150	80-140 or 130-200	120-180 or 160-300	60-150 100-300 250-500	200-400 or 450-800	1000-1250 or 1250-1500	1400-2200 or 1800-2700
Overall length ±2	(mm)	A	62 69	72 80	84 94	93 105	99 111	114 128	123 136	151	175	246
Overall length. ("F" Version) ±2	(mm)	A^F	62 69	72 80	84 94	93 105	102 114	117 131	127 140	151	184	252
Actuation ring Ø	(mm)	B	55	65	73	92	99	120	135	152	174	243
Actuation ring Ø. ("F" Version)	(mm)	B^F	62	70	83	98	117	132	155	177	187	258
Clamping fit length (mm)		C	19	22	27	32	32	41	41	49	61	80
Inside diameter from Ø to Ø H7	(mm)	D_1/D_2	10-22	12-23	12-29	15-37	20-44	25-56	25-60	30-60	35-70	50-100
Outside diameter of coupling	(mm)	E	49	55	66	81	90	110	123	133	157	200
Distance	(mm)	F	13	16	18	19	19	23	25	31	30	34
Distance. ("F" Version)	(mm)	F^F	13	14	17	18	17	20	22	20	26	31
6x Screw ISO 4017		I	M4	M5	M5	M6	M6	M8	M8	M10	M12	M16
Tightening torque	(Nm)		4	6	8	12	14	18	25	40	70	120
Approx. weight	(kg)		0.3	0.4	1.2	2.3	3.0	5.0	6.5	9.0	16.3	35
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.10 0.15	0.28 0.30	0.75 0.80	1.90 2.00	2.80 3.00	5.50 6.00	11.0 12.8	20	42	257
Torsional stiffness	(10^3 Nm/rad)	C_T	20 15	39 28	76 55	175 110	191 140	420 350	510 500	780	1304	3400
Lateral	max. values		0.15 0.20	0.20 0.25	0.20 0.25	0.20 0.25	0.25 0.30	0.25 0.30	0.30 0.35	0.35	0.35	0.35
Angular			1 1.5	1 1.5	1 1.5	1 1.5	1.5 2	1.5 2	2 2.5	2.5	2.5	2.5
Lateral spring stiffness			475 137	900 270	1200 380	1550 435	2040 610	3750 1050	2500 840	2000	3600	6070
Actuation distance			1.5	1.5	1.7	1.9	2.2	2.2	2.2	2.2	3	3

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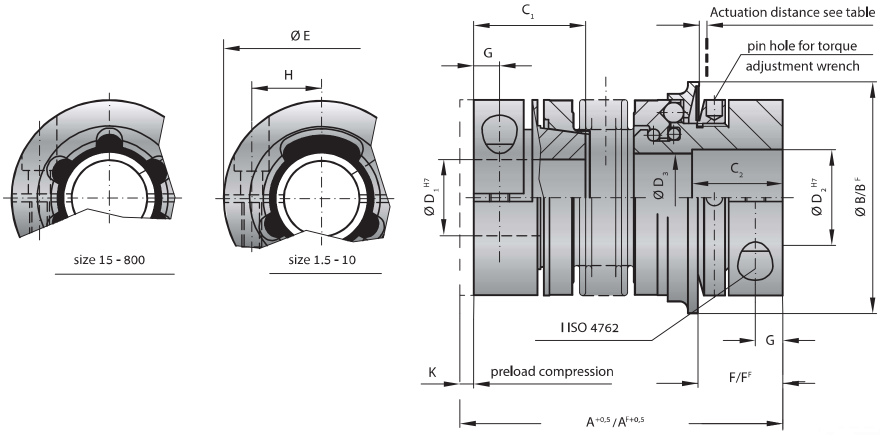
מיסבים
מערכות ליניאריות
שינוע והרמה
מקשרים /קופלונגים
זיווד
גלגלי זימון ותמסורת

נבה עם מקשר פלסטי קשיח

0.1-850 Nm **SK5**

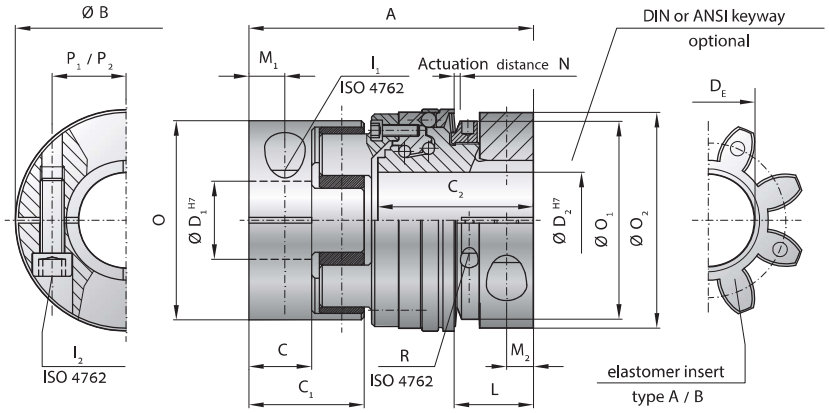
חומר
גרמושקה:נירוסטה
מערכת הגבלת מומנט:
פלדה קשיחה
נבה: גודל 150 ומעלה - פלדה
יתר הגדלים - אלומיניום



Size		1.5		2		4.5		10		15		30		60		80		150		300		500		800	
Adjustment range available from - to (approx. values) (Nm)	T_{KN}	0.1-0.6 0.4-1 0.8-1.5		0.2-1.5 or 0.5-2		1-3 or 3-6		2-6 or 4-12		5-10 or 8-20		10-25 or 20-40		10-30 or 25-80		20-70 or 30-90		20-70 or 45-150		100-200 150-240 200-320		80-200 200-350 300-500		400-650 500-800 650-850	
Adjustment range available from - to (approx. values) ("F" Version) (Nm)	T_{KN}	0.3-0.8 or 0.6-1.3		0.2-1 or 0.7-2		2.5-4.5		2-5 or 5-10		7-15		8-20 or 16-30		20-40 or 30-60		20-60 or 40-80		80-150		120-200 or 160-300		60-150 100-300 250-500		200-400 or 450-800	
Overall length +0.5 (mm)	A	44		48	54	60	68	70	79	76	83	89	97	105	115	115	127	116	128	143	157	166	180	196	
Overall length +0.5 ("F" Version) (mm)	A^F	44		48	54	60	68	70	79	76	83	89	97	105	115	117	129	118	130	146	160	170	184	207	
Actuation ring Ø (mm)	B	23		29		35		45		55		65		73		92		92		120		135		152	
Actuation ring Ø ("F" Version) (mm)	B^F	24		32		42		51.5		62		70		83		98		98		132		155		177	
Clamping fit length C_1/C_2 (mm)	C_1/C_2	14	11	16	13	19	16	21	16	28	22	33	27	39	31	43	35	43	35	52	42	61	52	74	48
Bore Diameter from Ø to Ø H7 (mm)	D_1	3-8*		4-12*		5-16*		5-20*		8-22*		10-25*		12-32		14-38*		14-38*		30-56		35-60		40-62*	
Bore Diameter from Ø to Ø H7 (mm)	D_2	3-8*		4-12*		5-14*		5-20*		8-26		10-30		12-32		14-42		14-42		30-60		35-60		40-75	
Diameter (mm)	D_3	9.1		12.1		14.1		20.1		21.1		24.1		32.1		36.1		36.1		58.1		60.1		60.1	
Outside diameter (mm)	E	19		25		32		40		49		55		66		81		81		110		123		134	
Distance (mm)	F	12		13		15		17		19		24		28		31		31		35		45		50	
Distance ("F" Version) (mm)	F^F	11.5		12		14		16		19		22		29		31		30		36		43		54	
Distance (mm)	G	3.5		4		5		5		6.5		7.5		9.5		11		11		13		17		18	
Distance between centers (mm)	H	6		8		10		15		17		19		23		27		27		39		41		2x48	
Screw ISO 4762	I	M2.5		M3		M4		M4		M5		M6		M8		M10		M10		M12		M16		2xM16	
Tightening torque (Nm)	I	1		2		4		4.5		8		15		40		50		70		130		200		250	
Pretensioning, approx (mm)	K	0.1 - 0.5		0.2 - 0.7		0.2 - 0.7		0.2 - 1.0		0.2 - 1.0		0.3 - 1.5		0.5 - 1.5		0.5 - 1.0		0.5 - 1.0		0.5 - 1.5		0.5 - 2.0		0.8 - 2.0	
Axial recovery of coupling max. (N)	K	4		8	5	15	10	25	30	20	12	50	30	70	45	48	32	82	52	157	106	140	96	200	
Approx. weight (kg)		0.038		0.07		0.2		0.3		0.4		0.6		1.4		2		2.4		5.9		9.6		15	
Moment of inertia (10^{-3} kgm²)	J_{ges}	0.01		0.01	0.01	0.02	0.02	0.06	0.07	0.10	0.15	0.27	0.32	0.75	0.80	1.80	1.90	2.50	2.80	6.50	7.00	13.0	17.0	50	
Torsional stiffness (10^3 Nm/rad)	C_T	0.7		1.2	1.3	7	5	8	7	12	10	18	16	40	31	68	45	90	60	220	190	260	250	390	
Lateral ± (mm)	max. values	0.15		0.15	0.20	0.20	0.25	0.20	0.30	0.15	0.20	0.20	0.25	0.20	0.25	0.20	0.25	0.20	0.25	0.25	0.30	0.30	0.35	0.35	
Angular ± (Degree)	max. values	1		1	1.5	1.5	2	1.5	2	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1.5	2	2	2.5	2.5	
Lateral spring stiffness (N/mm)		70		40	30	290	45	280	145	475	137	900	270	1200	420	920	290	1550	435	3750	1050	2500	840	2000	
Actuation distance (mm)		0.7		0.8		0.8		1.2		1.5		1.5		1.7		1.9		1.9		2.2		2.2		2.2	

נבה עם צווארון וברג הידוק

10-700 Nm **SLE**



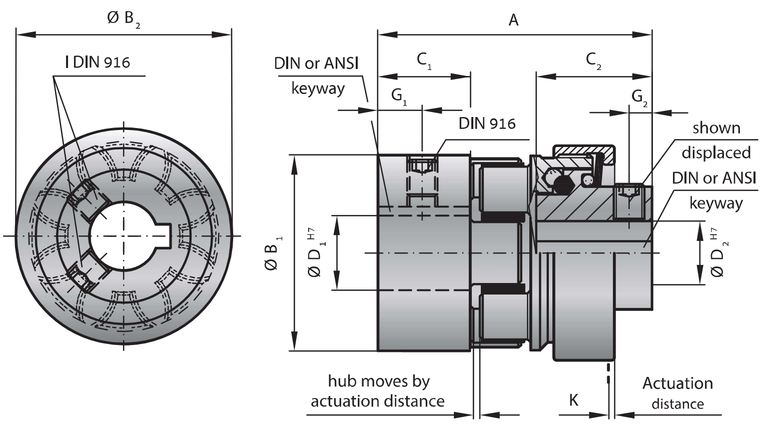
SIZE			30		60		150		300	
Type (elastomer insert)			A	B	A	B	A	B	A	B
Rated torque		T_{KN}	60	75	160	200	325	405	530	660
Max. torque		$T_{KN\,max}$	120	150	320	400	650	810	1060	1350
Adjustment range* possible from -to	(Nm)	T_{KN}	10-35 30-80 40-135		30-80 60-120 100-200		40-100 100-200 150-300		200-350 300-450 400-550 550-700	
Overall length	(mm)	A	85		93		122		135	
Actuation ring diameter	(mm)	B	63		74		92		118	
Hub length (coupling hub end)	(mm)	C/C_1	20 / 36		21 / 39		31 / 52		34 / 57	
Length of hub (torque limiting portion)		C_2	45		53		63		72	
Bore diameter from Ø to Ø H7	(mm) D	$_1/D_2$	12-32 /12-30		16-36 / 16-35		19-45 / 19-48		22-60 / 22-60	
Inner diameter (elastomer insert)		D_E	26.2		29.2		36.2		46.2	
ISO 4762 screw, coupling side / torque limiter side		I_1/I_2	M6		M8		M10		M12	
Tightening torque	(Nm)		15		40		75		130	
Distance to actuation ring edge	(mm)	L	22		26		32		35	
Distance	(mm)	M_1/M_2	10 / 7.5		12 / 9		15 / 11		17.5 / 12	
Actuation distance	(mm)	N	1.3		1.5		1.8		2	
Clamping hub Ø, elastomer coupling		O	56		66.5		82		102	
Ø Adjustment nut		O_1	55		66		82		100	
Clamping hub Ø, safety coupling		O_2	59		72		90		112	
Distance to clamping screw, coupling side / torque limiter side		P_1/P_2	21 / 21.5		24 / 25		29 / 33		38 / 41	
Adjustment nut's clamp screw ISO 4762		R	M3		M3		M3		M4	
Tightening torque	(Nm)		2		2		2		4.5	
Approx. weight	(kg)		0.4		0.8		1.5		2.9	
Approx. moment of inertia at D max.(10 $^{-3}$ Kgm^2)		J_{ges}	0.3		1		1.8		5	
Static torsional rigidity	(Nm/rad)		3290	9750	4970	10600	12400	18000	15100	27000
Dynamic torsional rigidity	(Nm/rad)		7940	11900	13400	29300	23700	40400	55400	81200
Lateral ±	approx. (mm)		0.12	0.1	0.15	0.12	0.18	0.14	0.2	0.18

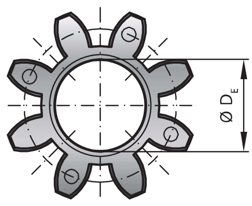
מיסבים
מערכות ליניאריות
שינוע והרמה
מקשרים /קופלונגים
זיווד
גלגלי זימון וחגורות

נבה עם קדח שגם

ESL 1-150 Nm

חומר
מערכת הגבלת מומנט: פלדה קשיחה
נבה: אלומיניום





elastomer insert type A / B

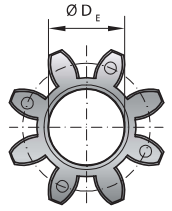
Size			5		10		20		60		150	
Type (Elastomer insert)			A	B	A	B	A	B	A	B	A	B
Rated torque	(Nm)	T_{Kn}	9	12	12.5	16	17	21	60	75	160	200
Torque setting possible* from - to	(Nm)	T_{Kn}	1-6		1-12		3-19		5-60		20-150	
Overall length	(mm)	A	34		45		64		80		90	
Diameter of the hub	(mm)	B_1	25		32		42		56		66.5	
Diameter of the hub	(mm)	B_2	29		32		46		59		75	
Clamping fit length	(mm)	C_1	12.5		12		25		30		35	
Clamping fit length	(mm)	C_2	11.5		20		22		31		35	
Inside diameter from Ø to Ø H7	(mm)	D_1	6-15		6-18		8-25		12-32		19-38	
Inside diameter from Ø to Ø H7	(mm)	D_2	6-10		6-12		8-19		12-24		19-32	
Inside diameter max. (elastomer)	(mm)	D_E	10.5		14.2		19.2		26.2		29.2	
Distance	(mm)	G_1	5		6		9		11		12	
Distance	(mm)	G_2	2.5		3.5		4		4		4	
Screws DIN 916**		I	depending on bore diameter see below table									
Approx. weight	(kg)		0.05		0.15		0.2		0.5		1	
Moment of inertia	(10^{-3} kgm^2)	J_1/J_2	0.01		0.02		0.08		0.15		0.5	
Actuation distance	(mm)	K	0.6		0.6		0.7		1.1		1.4	

.Disengagement torque is permanently set at the factory*

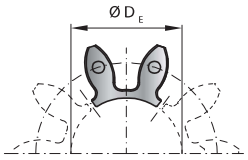
נבה עם בורג הידוק

1-1,800 Nm **ES2**

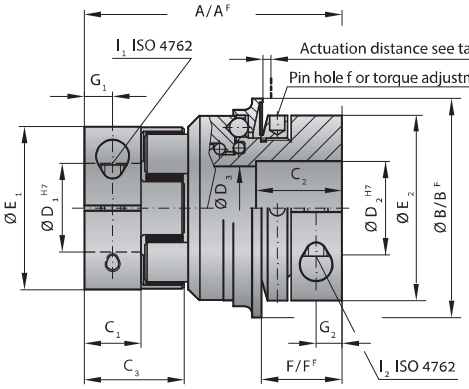
חומר
מערכת הגבלת מומנט - פלדה קשיחה
נבה D1: עד גודל 450 - אלומיניום, אחרת - פלדה
נבה D2: עד גודל 60 - אלומיניום, אחרת - פלדה

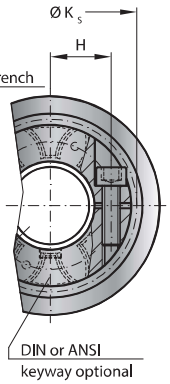


Size 5-800
elastomer insert
type A / B



Size 1500
includes 5x elastomer
segments type A / B





Size			5		10		20		60		150		300		450		800		1500	
Type (Elastomer insert)			A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Rated torque	(Nm)	T_{KN}	9	12	12.5	16	17	21	60	75	160	200	325	405	530	660	950	1100	1950	2450
Max. torque*	(Nm)	T_{Kmax}	18	24	25	32	34	42	120	150	320	400	650	810	1060	1350	1900	2150	3900	4900
Adjustment range possible from -to	(Nm)	T_{KN}	1-3 or 3-6		2 - 6 or 4 - 12		10 - 25 or 20 - 40		10 - 30 or 25 - 80		20 - 70 45 - 150 80 - 180		100 - 200 150 - 240 200 - 320		80 - 200 200 - 350 300 - 500		400 - 650 500 - 800 600 - 900		600 - 850 700 - 1200 1000 - 1800	
Adjustment range ("F" Version) possible from -to	(Nm)	T_{KN}^F	2.5 - 4.5		2 - 5 or 5 - 10		8 - 20 or 16 - 30		20 - 40 or 30 - 60		20 - 60 40 - 80 80 - 150		120 - 180 or 180 - 300		60 - 150 100 - 300 250 - 500		200 - 400 or 450 - 800		1000 - 1250 or 1250 - 1500	
Overall length	(mm)	A	50		60		86		96		106		140		164		179		245	
Overall length ("F" Version)	(mm)	A_F	50		60		86		96		108		143		168		190		257	
Actuation ring Ø	(mm)	B	35		45		65		73		92		120		135		152		174	
Outside diameter of actuation ring ("F" Version)	(mm)	B_F	42		51.5		70		83		98		132		155		177		187	
Clamping fit length	(mm)	C_1	8		10.3		17		20		21		31		34		46		67	
Fit length	(mm)	C_2	14		16		27		31		35		42		51		45		16	
Length of hub	(mm)	C_3	16.7		20.7		31		36		39		52		57		74		120	
Inside diameter from Ø to Ø H7	(mm)	D_1	4 - 12.7**		5 - 16**		8 - 25		12 - 32		19 - 36		20 - 45		28 - 60		35 - 80		35 - 90	
Inside diameter from Ø to Ø H7	(mm)	D_2	6 - 14**		6 - 20**		12 - 30		15 - 32		19 - 42		30 - 60		35 - 60		40 - 75		50 - 80	
Diameter Ø	(mm)	D_3	14.1		20.1		24.1		32.1		36.1		58.1		60.1		60.1		68.1	
Inside diameter (Elastomer insert)	(mm)	D_E	10.2		14.2		19.2		26.2		29.2		36.2		46.2		60.5		79	
Diameter of the hub	(mm)	E_1	25		32		42		56		66.5		82		102		136.5		160	
Diameter of the hub	(mm)	E_2	19		40		55		66		81		110		123		132		157	
Distance	(mm)	F	15		17		24		28		31		35		45		50		63	
Distance ("F" Version)	(mm)	F_F	14		16		22		29		30		35		43		54		61	
Distance	(mm)	G_1	4		5		8.5		10		11		15		17.5		23		36	
Distance	(mm)	G_2	5		5		7.5		9.5		11		13		17		18		22.5	
Distance between centers	(mm)	H_1	8		10.5		15		21		24		29		38		50.5		2x 57	
Screws (ISO 4762)		I_1	M3		M4		M5		M6		M8		M10		M12		M16		4x M16***	
Tightening torque	(Nm)		2		4.5		8		15		35		70		120		290		300	
Distance between centers D2 side	(mm)	H_2	10		15		19		23		27		39		41		48		2x 55	
Screws (ISO 4762)		I_2	M4		M4		M6		M8		M10		M12		M16		2x M16		2x M20	
Tightening torque	(Nm)		4		4.5		15		40		70		130		200		250		470	
Diameter with screwhead	(mm)	K_S	25		32		44.5		57		68		85		105		139		155	
Approx. weight	(kg)		0.2		0.3		0.6		1.0		2.4		5.8		9.3		14.3		26	
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.02		0.06		0.25		0.7		2.3		11		22		33.5		185	
Actuation distance	(mm)		0.8		1.2		1.5		1.7		1.9		2.2		2.2		2.2		3.0	

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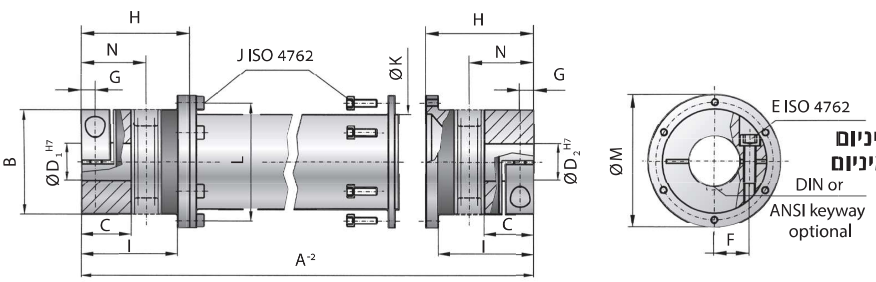
איפיון מוצר

ORDERING EXAMPLE	ZA	10	1551	18	19.05	XX
Model	●					Special designation only (e.g. special bore tolerance).
Size		●				
Overall length mm			●			
Bore D1 H7				●		
Bore D2 H7					●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. ZA/10/1551/18/19.05/X X; XX=anodized aluminum)						



ZA

10-800 Nm

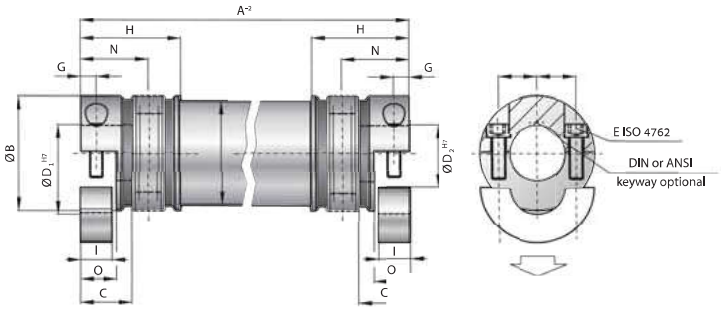
חומר
גרמושקה: נירוסטה
ציר: גודל 300 ומעלה - פלדה, יתר הגדלים - אלומיניום
נבה: גודל 150 ומעלה - פלדה, יתר הגדלים - אלומיניום

SIZE			10	30	60	150	200	300	500	800
Rated torque	(Nm)	T_{KN}	10	30	60	150	200	300	500	800
Overall length min. to max.	(mm)	A^{-2}	110 - 6000	140 - 6000	170 - 6000	215 - 6000	215 - 6000	250 - 6000	260 - 6000	260 - 6000
Outside diameter clamping hub	(mm)	B	40	55	66	81	90	110	123	134
Fit length	(mm)	C	16	27	31	35.5	40.5	43	50	48
Inside diameter from Ø to Ø H7	(mm)	$D_{1/2}$	5 - 20	10 - 28	12 - 32	19 - 42	22 - 45	30 - 60	35 - 60	40 - 72
With keyway max. Ø H7	(mm)	$D_{1/2}$	17	23	29	36	45	60	60	66
ISO 4762 clamping screw		E	M4	M6	M8	M10	M12	M12	M16	2x M16
Tightening torque	(Nm)		5	15	40	70	110	130	200	250
Distance between centers	(mm)	F	15	19	23	27	31	39	41	48
Distance	(mm)	G	5	7.5	9.5	11	12.5	13	17	18
Length bellows body	(mm)	H	44.5	57.5	71	78	86	94	110	101
Distance	(mm)	I	38.5	51	61	69	75.5	81	96	89
ISO 4762 clamping screw		J	4x M4	6x M4	6x M5	8x M6	8x M6	8x M8	8x M8	10x M8
Tightening torque	(Nm)		3	4	7	10	12	30	30	40
Outside diameter tube section	(mm)	K	35	50	60	76	90	100	110	120
Bolt hole circle Ø	(mm)	L	45	62.5	71.5	88	100	120	132	138
Outside diameter flange	(mm)	M	52	70	80	98	110	135	148	153
Shaft average value	(mm)	N	25	34	41	47	52	56	66	64

נבה חצויה עם הידוק צביטה

10-800 Nm **ZAE**

חומר
גרמושקה: נירוסטה
ציר: גודל 300 ומעלה - פלדה, יתר הגדלים - אלומיניום
נבה: גודל 150 ומעלה - פלדה, יתר הגדלים - אלומיניום



SIZE			10	30	60	150	300	500	800
Rated torque	(Nm)	T_{KN}	10	30	60	150	300	500	800
Overall length min. to max.	(mm)	A -2	100 - 6000	130 - 6000	160 - 6000	180 - 6000	240 - 6000	250 - 6000	250 - 6000
Outside diameter clamping hub	(mm)	B	40	55	66	81	110	123	133
Fit length	(mm)	C	16	27	31	34.5	42	50	47
Inside diameter from Ø to Ø H7	(mm)	$D_{1/2}$	5 - 20	10 - 28	12 - 32	19 - 42	30 - 60	35 - 60	40 - 72
Max. inside diameter clamping hub	(mm)	D_{max}	24	30	32	42	60	60	75
With keyway - max Ø H7	(mm)	$D_{1/2}$	17	23	29	36	60	60	66
ISO 4762 clamping screws		E	M4	M6	M8	M10	M12	M16	M16
Tightening torque	(Nm)		5	15	40	70	130	200	250
Distance between centers	(mm)	F	15	19	23	27	39	41	48
Distance	(mm)	G	5	7.5	9.5	12	14	17	19
Length bellows body	(mm)	H	39.5	52	64	72	83	96	95
Clamping length	(mm)	I	10	15	19	22	28	33.5	37.5
Outside diameter tube section	(mm)	K	35	50	60	76	100	110	120
Length	(mm)	O	11.5	17	21	24	30	35	40
Shaft average value	(mm)	N	25	34	41	47	56	66	65

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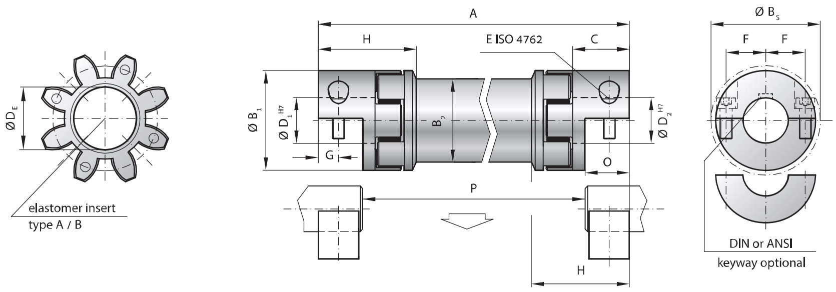
נבה חצויה עם הידוק צביטה

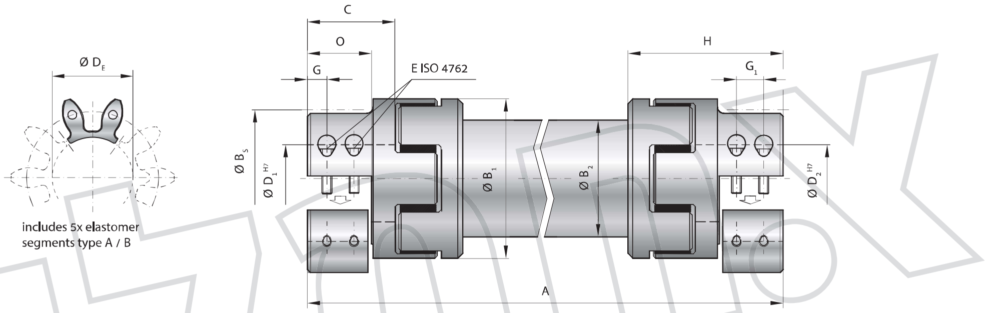
EZ2 12.5-25,000 Nm

חומר
נבה: עד גודל 450 - אלומיניום קשיח, גודל 800 - פלדה,
גודל 2500 ומעלה - ברזל יצוק
ציר: גודל 800 - ומעלה - פלדה, יתר הגדלים אלומיניום

דגם קטן | 10 - 800



דגם סטדנרטי | 2,500 - 9,500



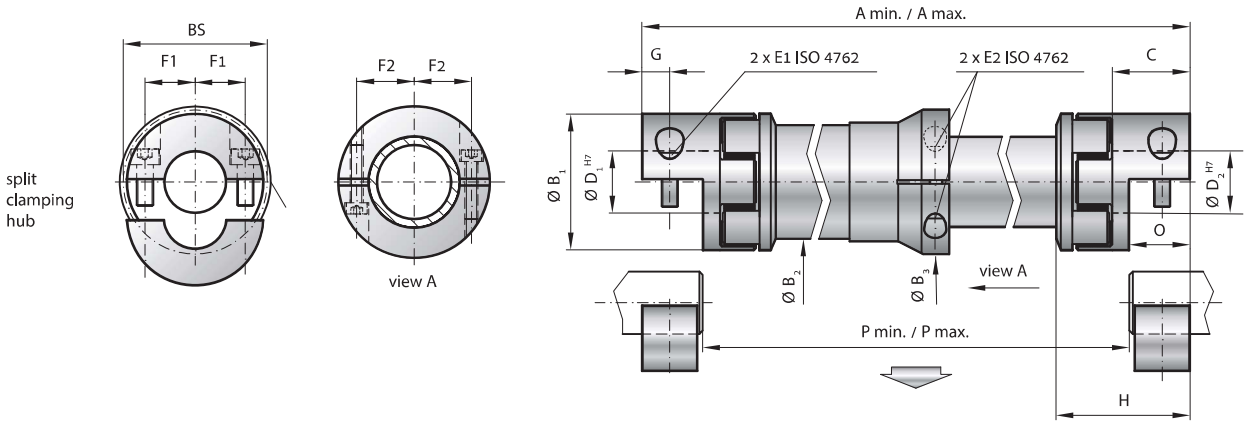
SIZE		10		20		60		150		300		450		800		2500		4500		9500	
Type (Elastomer insert)		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Rated torque (Nm)	T_{KN}	12.5	16	17	21	60	75	160	200	325	405	530	660	950	1,100	1,950	2,450	5,000	6,200	10,000	12,500
Max. torque* (Nm)	T_{Kmax}	25	32	34	42	120	150	320	400	650	810	1060	1350	1,900	2,150	3,900	4,900	10,000	12,400	20,000	25,000
Overall length (mm)	A	95 - 4,000		130 - 4,000		175 - 4,000		200 - 4,000		245 - 4,000		280 - 4,000		320 - 4,000		460 - 4,000		580 - 4,000		710 - 4,0 00	
Outside diameter hub (mm)	B_1	32		42		56		66.5		82		102		136.5		160		225		290	
Outside diameter tube (mm)	B_2	28		35		50		60		76		90		120		150		175		220	
Outside diameter with screwhead (mm)	B_S	32		44.5		57		68		85		105		139		155		190		243	
Fit length (mm)	C	20		25		40		47		55		65		79		85		110		140	
Inside diameter range from Ø to Ø H7 (mm)	$D_{1/2}$	5 - 16		8 - 25		14 - 32		19 - 36		19 - 45		24 - 60		35 - 80		35 - 90		40 - 120		50 - 140	
Max. inside diameter (Elastomer insert) (mm)	D_E	14.2		19.2		26.2		29.2		36.2		46.2		60.5		80		111		145	
Mounting screw ISO 4762	E	4 x M4		4 x M5		4 x M6		4 x M8		4 x M10		4 x M12		4 x M16		4 x M16		8 x M16		8 x M24	
Tightening torque (Nm)	E	4		8		15		35		70		120		290		300		300		980	
Distance between centers (mm)	F	10.5		15.5		21		24		29		38		50.5		57		72.5		90	
Distance (mm)	G/G_1	7.5		8.5		15		17.5		20		25		30		36		24 / 34		30 / 48	
Coupling length (mm)	H	34		46		63		73		86		99		125		142		181		229	
Moment of inertia per hub (10^{-3} kgm²)	J_1/J_2	0.01		0.02		0.15		0.21		1.02		2.3		17		30		140		450	
Inertia of tube per meter (10^{-3} kgm²)	J_3	0.075		0.183		0.66		1.18		2.48		10.6		38		360		750		1,800	
Combined dynamic torsional stiffness of the inserts (Nm/rad)	C_{Tdyn}^{E}	270	825	1,270	2,220	3,970	5,950	6,700	14,650	11,850	20,200	27,700	40,600	41,300	90,000	87,500	108,000	168,500	371,500	590,000	670,000
Torsional stiffness of tube per meter (Nm/rad)	C_T^{ZWR}	321		1,530		6,632		11,810		20,230		65,340		392,800		1,000,000		2,500,000		5,000,000	
Shaft average value (mm)	N	26		33		49		57		67		78		94		108		137		171	
Length (mm)	O	16.6		18.6		32		37		42		52		62		67		85		105	

Maximum transmittable torque of the clamping hub depends on the bore diameter *

ציר טלסקופי

12.5-1,200 Nm **EZV**

חומר
נבה: אלומיניום קשיח
ציר: אלומיניום

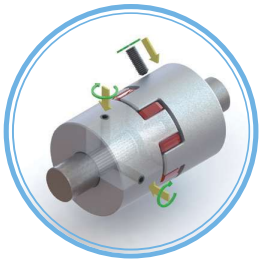


SIZE			10		20		60		150		300		450	
Type (Elastomer insert)			**A**	**B**	**A**	**B**	**A**	B	A	B	**A**	**B**	A	**B**
Rated torque	**(Nm)**	T_{KN}	12.5	**16**	**17**	21	60	75	160	**200**	**325**	**405**	530	**660**
Max. torque*	**(Nm)**	T_{Kmax}	25	**32**	34	**42**	**120**	150	320	**400**	**650**	810	1060	**1200**
Inserted min. length from - to	(mm)	A_{min}	**150 - 2,055**		200 - 2,075		250 - 2,095		300 - 2,115		350 - 2,130		400 - 2,150	
Extended over all length from - to	(mm)	A_{max}	190 - 4,000		250 - 4,000		310 - 4,000		370 - 4,000		440 - 4,000		**500 - 4,000**	
Measurement	**(mm)**	X1+X2	115		156		**197**		240		**280**		**312**	
Outside diameter clamping hub	(mm)	B_1	32		42		56		**66.5**		**82**		**102**	
Outside diameter tube	(mm)	B_2	28		35		**50**		**60**		**80**		**90**	
Outside diameter center hub	(mm)	B_3	41.5		**47**		**67**		**77**		**102**		**115**	
Outside diameter with screwhead	(mm)	B_5	**32**		**44.5**		**57**		**68**		**85**		**105**	
Fit length	**(mm)**	C	**20**		**25**		**40**		**47**		**55**		**65**	
Inside diameter from Ø to Ø H7	**(mm)**	$D_{1/2}$	**5 - 16**		**8 - 25**		**14 - 32**		**19 - 35**		**19 - 45**		**24 - 60**	
Screw ISO 4762		E_1	**M4**		**M5**		**M6**		**M8**		**M10**		**M12**	
Tightening torque	**(Nm)**		**4**		**8**		**15**		**35**		**70**		**120**	
Screw ISO 4762		E_2	**M4**		**M4**		**M5**		**M6**		**M8**		**M10**	
Tightening torque	**(Nm)**		**4**		**4.5**		**8**		**18**		**35**		**70**	
Distance between centers	**(mm)**	$F_{10.5}$	**10.5**		**15.5**		**21**		**24**		**29**		**38**	
Distance between centers	**(mm)**	F_2	**15**		**18**		**26**		**31**		**41**		**45**	
Distance	**(mm)**	G	**7.5**		**8.5**		**15**		**17.5**		**20**		**25**	
Coupling length	**(mm)**	H	**34**		**46**		**63**		**73**		**86**		**99**	
Shaft average value	**(mm)**	N	**26**		**33**		**49**		**57**		**67**		**78**	
Length	**(mm)**	O	**16.6**		**18.6**		**32**		**37**		**42**		**52**	
Moment of inertia coupling half	**(10^{-3} kgm²)**	J_1/J_2	**0.01**		**0.02**		**0.15**		**0.21**		**1.02**		**2.3**	
Inertia of tube per meter	**(10^{-3} kgm²)**	J_3	**0.075**		**0.183**		**0.66**		**1.18**		**2.48**		**10.6**	
Combined dynamic torsional stiffness of the inserts	**(Nm/rad)**	C_{tdyn}^{E}	**270**	**825**	**1,270**	**2,220**	**3,970**	**5,950**	**6,700**	**14,650**	**11,850**	**20,200**	**27,700**	**40,600**
Torsional stiffness of tube per meter	**(Nm/rad)**	C_T^{ZWR}	**321**		**1,530**		**6,632**		**11,810**		**20,230**		**65,340**	

Maximum transmittable torque of the clamping hub depends on the bore diameter*

קופלונגים | Couplings

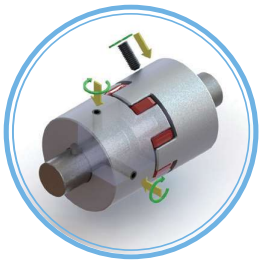
אפשרויות חיבור הקופלונג לציר



נבה עם ברגי הידוק Set-screw type

חיבור הקופלונג ישירות לציר באמצעות ברגים בלבד

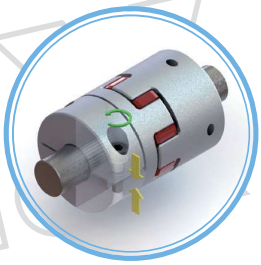
ברגי ההידוק עלולים לפגוע בציר בעקבות המגע הישיר



נבה עם חריץ לשגם וברגי הידוק keyway type

חיבור הקופלונג לציר באמצעות נעילתו בחריץ מובנה

רצוי להשתמש באמצעי זה בתור מנגנון נעילה נוסף לברגי ההידוק או הידוק צביטה

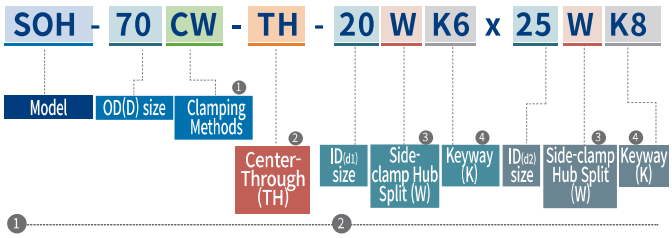


נבה עם הידוק צביטה Side-clamp type

הידוק הקופלונג בצורה אנכית באמצעות ברגי הידוק

יש לשים לב לטולרנס המומלץ על מנת למנוע שחרור הקופלונג

אפיון מוצר



1 Clamping Methods

No mark	Set-screw
C	General Side-clamp
CW	Side-clamp Hub Split

2 Center-Through

No mark	Center-Solid
TH	Center-Through

3 Side-clamp Hub Split

No mark	Not Split
W	Split (Only applicable on Side-clamp Type)

4 Keyway

No mark	No Keyway
K(b size)	Keyway processed according to the indicated b size.

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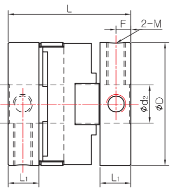
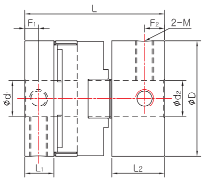
Set-Screw **SOH**

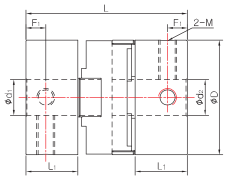
נבה: אלומיניום
גומי: POM
בורג הידוק: SCM435




SOH-(no mark)




SOH-S




SOH-SS

SOH-(no mark)

Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min⁻¹)	Moment of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	F	Size	Fastening Torque(N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SOH-6	5.9	8.4	2.5	1.3	M2	0.3	0.2	0.4	22,000	$2.5 \text{ x } 10^{-9}$	5	0.5	1.5	0.5	0.05
SOH-8	7.9	9.8	2.5	1.3	M2	0.3	0.5	1	20,000	$8.4 \text{ x } 10^{-9}$	10	0.9	1.5	0.7	0.05
SOH-10	9.9	10.4	2.9	1.5	M2	0.3	0.7	1.4	18,000	$2.4 \text{ x } 10^{-8}$	25	1.7	1.5	0.9	0.05
SOH-12	11.9	14.5	3.9	2	M3	0.7	0.9	1.8	15,000	$6.3 \text{ x } 10^{-8}$	55	3	1.5	1	0.05
SOH-16	16	17.9	4.7	2.2	M3	0.7	1	2	13,000	2.4×10^{-7}	65	7	1.5	1	0.1
SOH-20	20	19.9	5.1	2.4	M4	1.7	1.5	3	11,000	6.4×10^{-7}	120	12	1.5	1.5	0.1
SOH-25	25.5	25.4	6.9	3.1	M4	1.7	2.5	5	10,000	2.2×10^{-6}	200	24	1.5	2	0.1
SOH-32	32	31.9	8	3.8	M5	4	7	14	9,000	6.3×10^{-6}	620	41	1.5	2.5	0.2
SOH-43	43	52	16.5	7.1	M5	4	12.5	25	8,000	3.7×10^{-5}	1,200	135	1.5	3	0.15
SOH-53	53	58.3	19.5	7.5	M6	7	20	40	7,000	1.0×10^{-4}	1,400	228	1.5	3.2	0.15
SOH-57	57	76.2	26.9	9.9	M8	15	34	68	6,000	1.8×10^{-4}	2,600	345	1.5	3.5	0.2
SOH-70	73	75.5	25	12.2	M8	15	60	120	4,500	4.5×10^{-4}	4,800	567	1.5	3.5	0.2

SOH-S

Model	Size (±0.3mm)						Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min⁻¹)	Moment of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	L_2	F_1	F_2	Size	Fastening Torque(N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SOH-16S	16	20.9	4.7	7.7	2.2	3.8	M3	0.7	1	2	13,000	2.7×10^{-7}	65	7.9	1.5	1	0.1
SOH-20S	20	22.8	5.1	8	2.4	3.6	M4	1.7	1.5	3	11,000	7.5×10^{-7}	120	13	1.5	1.5	0.1
SOH-25S	25.5	28.7	6.9	10.2	3.1	4.9	M4	1.7	2.5	5	10,000	2.6×10^{-6}	200	27.2	1.5	2	0.1
SOH-32S	32	38.3	8	14.4	3.8	5.5	M5	4	7	14	9,000	8.1×10^{-6}	620	52	1.5	2.5	0.2

SOH-SS

Model	Size (±0.3mm)						Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min⁻¹)	Moment of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	L_2	F_1	F_2	Size	Fastening Torque(N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SOH-8SS	7.9	12.6	4.6	4.6	2.3	2.3	M3	0.7	0.5	1	20,000	$1.3 \text{ x } 10^{-8}$	10	1.5	1.5	0.7	0.05
SOH-16SS	16	23.9	7.7	7.7	3.8	3.8	M3	0.7	1	2	13,000	3.4×10^{-7}	65	9.3	1.5	1	0.1
SOH-20SS	20	25.7	8	8	3.6	3.6	M4	1.7	1.5	3	11,000	8.9×10^{-7}	120	15	1.5	1.5	0.1
SOH-25SS	25.5	32	10.2	10.2	4.9	4.9	M4	1.7	2.5	5	10,000	2.9×10^{-6}	200	31	1.5	2	0.1
SOH-32SS	32	44.7	14.4	14.4	5.5	5.5	M5	4	7	14	9,000	9.5×10^{-6}	620	63	1.5	2.5	0.2

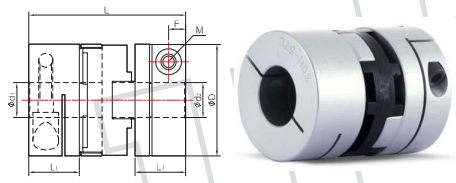
Model	Standard Inner Diameter (d_1, d_2) (mm)																	
	1	1.5	2	2.5	3	4	4.5	5	6	6.35	8	9	9.525	10	11	12	14	15
SOH-6□□	●	●	●															
SOH-8□□	●		●	●	●													
SOH-10□□			●		●	●												
SOH-12□□					●	●	●	●										
SOH-16□□					●	●		●	●									
SOH-20□□						●		●	●	●	●							
SOH-25□□								●	●	●	●	●	●	●				
SOH-32□□									●	●	●	●	●	●	●	●	●	●

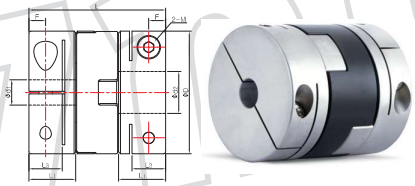
Model	Standard Inner Diameter (d_1, d_2) (mm)																		
	8	9	9.525	10	11	12	14	15	16	18	19	20	22	24	25	25.4	28	30	32	35
SOH-43□□	●	●	●	●	●	●	●	●	●	●	●									
SOH-53□□				●	●	●	●	●	●	●	●	●	●	●	●					
SOH-57□□								●	●	●	●	●	●	●	●	●	●			
SOH-70								●	●	●	●	●	●	●	●	●	●	●	●	●

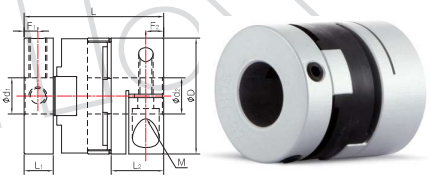
חריץ לשגם אופציונלי
טולרנס מומלץ לציר h7

SOH Side-clamp

נבה: אלומיניום
גומי: POM
בורג הידוק: SCM435


SOH-C : Size 16C ~ 57C


SOH-C : Size 70C ~ 120C


SOH-SC

SOH-C

Model	Size (±0.3mm)					Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	L_3	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SOH-16C	16	23.9	7.7	-	2.7	M2.6	1	1	2	13,000	3.1×10^{-7}	65	8.5	1.5	1	0.1
SOH-20C	20	25.7	8	-	2.8	M2.6	1	1.5	3	11,000	8.2×10^{-7}	120	14.2	1.5	1.5	0.1
SOH-25C	25.5	32	10.2	-	3.5	M3	1.7	2.5	5	10,000	2.7×10^{-6}	200	29.3	1.5	2	0.1
SOH-32C	32	44.7	14.4	-	4.9	M4	3.5	7	14	9,000	9.2×10^{-6}	620	59.6	1.5	2.5	0.15
SOH-43C	43	52	16.5	-	5.8	M5	8	12.5	25	8,000	3.4×10^{-5}	1,200	127	1.5	3	0.15
SOH-53C	53	58.3	19.5	-	6.3	M5	8	20	40	7,000	9.1×10^{-5}	1,400	217	1.5	3.2	0.2
SOH-57C	57	76.2	26.9	-	7.7	M6	13	34	68	6,000	1.6×10^{-4}	2,600	329	1.5	3.5	0.2
SOH-70C	73	81.5	28	20	10	M8	30	65	130	4,500	5.4×10^{-4}	2,000	670	1.5	3.5	0.3
SOH-90C	88	97	33.5	25	12	M10	50	105	210	4,500	1.2×10^{-3}	2,500	1,240	1.5	4	0.35
SOH-120C	118	138	40.5	26.5	13	M12	90	200	400	3,500	6.5×10^{-3}	6,300	2,600	1.5	4.5	0.4

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SOH-SC (Combination)

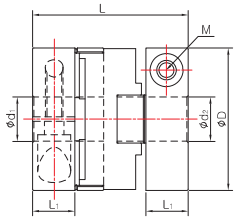
Model	Size (±0.3mm)						Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min⁻¹)	Moment of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	L_2	F_1	F_2	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SOH-16SC	16	20.9	4.7	7.7	2.2	2.7	M3/M2.6	0.7/1	1	2	13,000	2.9×10^{-7}	65	7.5	1.5	1	0.1
SOH-20SC	20	22.8	5.1	8	2.4	2.8	M4/M2.6	1.7/1	1.5	3	11,000	7.2×10^{-7}	120	12.6	1.5	1.5	0.1
SOH-25SC	25.5	28.7	6.9	10.2	3.1	3.5	M4/M3	1.7/1.7	2.5	5	10,000	2.6×10^{-6}	200	26	1.5	2	0.1
SOH-32SC	32	38.3	8	14.4	3.8	4.9	M5/M4	4/3.5	7	14	9,000	7.8×10^{-6}	620	50.3	1.5	2.5	0.2

Model	Standard Inner Diameter (d_1, d_2) (mm)																													
	3	4	5	6	6.35	8	9	9.525	10	11	12	14	15	16	18	19	20	22	24	25	25.4	28	30	32	35	40	42	45	50	55	60
SOH-16□□	●	●	●	●																											
SOH-20□□		●	●	●	●	●																									
SOH-25□□			●	●	●	●	●	●	●																						
SOH-32□□				●	●	●	●	●	●	●	●	●	●																		
SOH-43□□						●	●	●	●	●	●	●	●	●	●	●															
SOH-53□□									●	●	●	●	●	●	●	●	●	●	●	●											
SOH-57□□													●	●	●	●	●	●	●	●	●	●									
SOH-70□□													●	●	●	●	●	●	●	●	●	●	●	●	●	●					
SOH-90□□													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
SOH-120□□																				●	●	●	●	●	●	●	●	●	●	●	●

חריץ לשגם אופציונלי
טולרנס מומלץ לציר h7

Model	Max. Torque (N.m)	Slip Torque (N.m) by Inner Diameter (d_1, d_2)																		
		3	4	5	6	6.35	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25
SOH-16C	2	1.9																		
SOH-20C	3		2.3	2.4																
SOH-25C	5			3.1	3.5	3.9														
SOH-32C	14				7.2	8.4														
SOH-43C	25						15	15.7	18.5	18.2	21									
SOH-53C	40								22	22.4	23.8									
SOH-57C	68												42	46.2	49	51.8	56.7			
SOH-70C	130												121							
SOH-90C	210												168	192						
SOH-120C	400																			344

SOHM Side-clamp



נבה: אלומיניום
גומי: POM
בורג הידוק: SCM435

Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SOHM-12C	11.9	16.5	5	2.5	M2	0.5	0.9	1.8	15,000	7.4×10^{-8}	55	3.5	1.5	1	0.05
SOHM-16C	16	20.7	6.1	3	M2.6	1	1	2	13,000	2.6×10^{-7}	65	7.4	1.5	1	0.1
SOHM-20C	20	21.9	6.1	2.9	M2.6	1	1.5	3	11,000	6.8×10^{-7}	120	12	1.5	1.5	0.1
SOHM-25C	25.5	26.4	7.4	3.7	M3	1.7	2.5	5	10,000	2.2×10^{-6}	200	23	1.5	2	0.1
SOHM-32C	32	34.9	9.5	4.7	M4	3.5	7	14	9,000	6.8×10^{-6}	620	44	1.5	2.5	0.2
SOHM-43C	43	47	14.7	7.3	M5	8	12.5	25	8,000	3.0×10^{-5}	1,200	114	1.5	3	0.15
SOHM-53C	53	53.1	16.9	8.3	M5	8	20	40	7,400	8.3×10^{-5}	1,400	197	1.5	3.2	0.15
SOHM-57C	57	56.8	18	8.7	M6	13	34	68	6,000	1.2×10^{-4}	2,600	232	1.5	3.5	0.2
SOHM-70C	73	75.5	25	12.3	M8	30	60	120	4,500	4.5×10^{-4}	4,800	547	1.5	3.5	0.2

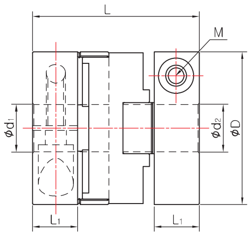
Model	Standard Inner Diameter (d_1, d_2) (mm)																								
	3	4	4.5	5	6	6.35	8	9	9.525	10	11	12	14	15	16	18	19	20	22	24	25	25.4	28	30	32	35
SOHM-12C	●	●	●	●																						
SOHM-16C	●	●		●	●																					
SOHM-20C		●		●	●	●	●																			
SOHM-25C				●	●	●	●	●	●	●																
SOHM-32C					●	●	●	●	●	●	●	●	●	●												
SOHM-43C							●	●	●	●	●	●	●	●	●	●	●									
SOHM-53C										●	●	●	●	●	●	●	●	●	●	●	●					
SOHM-57C														●	●	●	●	●	●	●	●	●	●			
SOHM-70C														●	●	●	●	●	●	●	●	●	●	●	●	●

חריץ לשגם אופציונלי
טולרנס מומלץ לציר h7

Model	Max. Torque (N.m)	Slip Torque (N.m) by Inner Diameter (d_1, d_2)														
		3	4	4.5	5	6	6.35	8	9.525	10	11	12	14	15	16	18
SOHM-12C	1.8	0.5	0.6	1	1.2											
SOHM-16C	2	0.6	1		1.2	1.4										
SOHM-20C	3		1.4		1.5	1.8	2.7									
SOHM-25C	5				1.8	2.6	3.6									
SOHM-32C	14					5	5.9	6.8	8.4	12.5	13.4					
SOHM-43C	25							14.7	18.8	22.6						
SOHM-53C	40									24.8	26.4	29	33.3			
SOHM-57C	68													49.6	57.6	62.4
SOHM-70C	130													96	112	

SOHMP Side-clamp

נבה: אלומיניום
גומי: PEEK (Polyether Ether Ketone)
בורג הידוק: SUSXM7



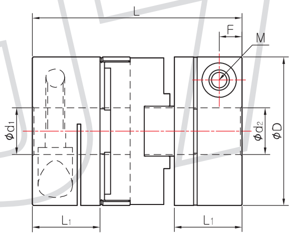
Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min⁻¹)	Moment of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L1	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SOHMP-20C	20	21.9	6.1	2.9	M2.6	1	1.2	2.4	11,000	6.8×10^{-7}	80	12	1.5	1.5	0.1
SOHMP-25C	25.5	26.4	7.4	3.7	M3	1.7	2	4	10,000	2.2×10^{-6}	120	23	1.5	2	0.1
SOHMP-32C	32	34.9	9.5	4.7	M4	3.5	5.6	11.2	9,000	6.8×10^{-6}	300	44	1.5	2.5	0.2

Model	Standard Inner Diameter (d_1, d_2) (mm)												
	3	4	5	6	6.35	8	9	9.525	10	11	12	14	15
SOHMP-20C		●	●	●	●	●							
SOHMP-25C			●	●	●	●	●	●	●				
SOHMP-32C				●	●	●	●	●	●	●	●	●	●

חריץ לשגם אופציונלי
טולרנס מומלץ לציר h7

SOHV Side-clamp

נבה: אלומיניום
מאריך: Vespel (פוליאמיד)
בורג הידוק: SUSXM7

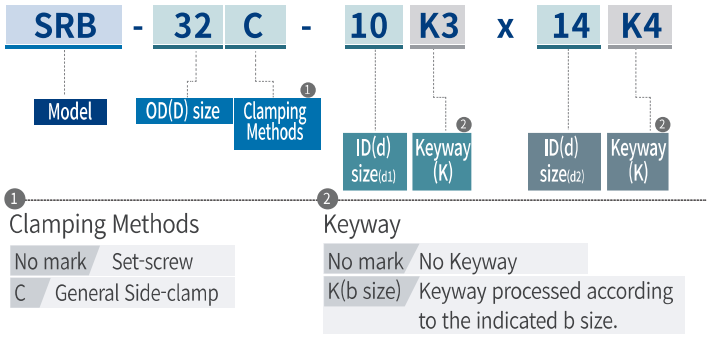


Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min⁻¹)	Moment of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L1	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SOHV-20C	20	25.7	8	2.8	M2.6	1	0.8	1.6	11,000	1.7×10^{-6}	96	31	1.5	1.5	0.1
SOHV-25C	25.5	32	10.2	3.5	M3	1.7	1.4	2.7	10,000	5.7×10^{-6}	144	62	1.5	2	0.1
SOHV-32C	32	44.7	14.4	4.9	M4	3.5	3.8	7.6	9,000	1.8×10^{-5}	360	125	1.5	2.5	0.2

Model	Standard Inner Diameter (d_1, d_2) (mm)												
	3	4	5	6	6.35	8	9	9.525	10	11	12	14	15
SOHV-20C		●	●	●	●	●							
SOHV-25C			●	●	●	●	●	●	●				
SOHV-32C				●	●	●	●	●	●	●	●	●	●

חריץ לשגם אופציונלי
טולרנס מומלץ לציר h7

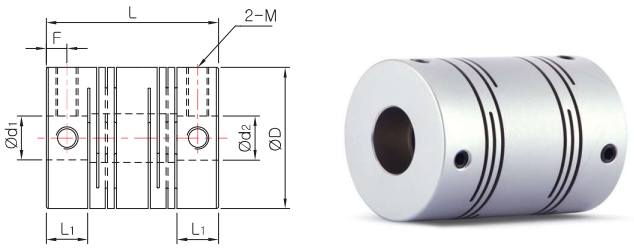
אפיון מוצר



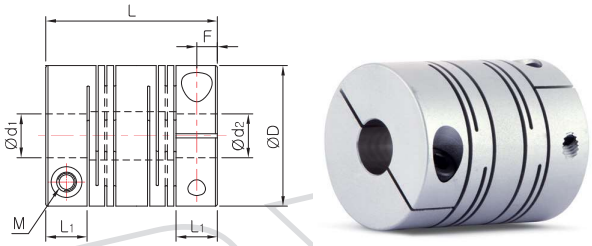
SRB

נבה: אלומיניום AL-7075-T6
בורג הידוק: SCM435

Set-Screw (SRB-no mark)



Side-clamp (SRB-C)



Set-screw

Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SRB-8	7.9	14	3.5	1.7	M2	0.3	0.1	0.2	50,000	1.2×10^{-8}	16	1.5	2.5	0.1	±0.2
SRB-12	12.7	18	4.5	2.2	M2.5	0.5	0.2	0.4	40,000	1.1×10^{-7}	40	4.4	2.5	0.1	±0.3
SRB-16	16	18.5	4.7	2.3	M3	0.7	0.4	0.8	30,000	2.8×10^{-7}	75	7.2	2.5	0.15	±0.3
SRB-19	19.1	22	6	2.9	M3	0.7	0.6	1.2	24,000	6.4×10^{-7}	150	12	2.5	0.15	±0.3
SRB-22	22.2	25	6.5	3.2	M4	1.7	1	2	20,000	1.4×10^{-6}	200	17.4	2.5	0.15	±0.4
SRB-26	26.2	30	7.7	3.4	M4	1.7	2	4	18,000	3.1×10^{-6}	340	29.2	2.5	0.2	±0.4
SRB-32	31.8	39	9.4	4.7	M5	4	3.8	7.6	18,000	9.4×10^{-6}	450	56.8	2.5	0.2	±0.4
SRB-39	39	56	16	5.9	M5	4	7	14	12,000	2.8×10^{-5}	640	124	2.5	0.25	±0.4
SRB-49	49	70	19.8	9.4	M6	7	15	30	10,000	1.0×10^{-4}	1,500	280	2.5	0.25	±0.5
SRB-60	60	88	19	9	M8	15	30	60	8,500	2.7×10^{-4}	2,500	500	2.5	0.3	±0.5

Side-clamp

Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($kg·m^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L_1	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SRB-12C	12.7	19	5	2.5	M2	0.5	0.2	0.4	35,000	1.1×10^{-7}	40	4.4	2.5	0.1	±0.3
SRB-16C	16	21.5	6.1	3	M2.6	1	0.4	0.8	27,000	3.1×10^{-7}	75	8.2	2.5	0.15	±0.3
SRB-19C	19.1	23	6.2	3.1	M2.6	1	0.6	1.2	20,000	6.4×10^{-7}	150	12	2.5	0.15	±0.3
SRB-22C	22.2	26.5	7.2	3.6	M3	1.7	1	2	18,000	1.4×10^{-6}	200	17.9	2.5	0.15	±0.4
SRB-26C	26.2	31.5	7.5	3.7	M3	1.7	2	4	17,000	3.2×10^{-6}	340	29.9	2.5	0.2	±0.4
SRBA-32C	31.8	39	9.4	4.7	M4	3.5	3.8	7.6	14,000	8.6×10^{-6}	450	54.9	2.5	0.2	±0.4
SRBB-32C	31.8	44	9.4	4.7	M4	3.5	3.8	7.6	14,000	1.0×10^{-5}	450	62.3	2.5	0.2	±0.4
SRBA-39C	39	43	10.7	5.3	M5	8	7	14	10,000	2.1×10^{-5}	640	87.8	2.5	0.25	±0.4
SRBB-39C	39	56	12	5.5	M5	8	7	14	10,000	2.8×10^{-5}	640	117	2.5	0.25	±0.4
SRBA-49C	49	63.5	15.1	7.5	M6	13	15	30	10,000	8.4×10^{-5}	1,500	236	2.5	0.25	±0.5
SRBB-49C	49	70	14.5	7.2	M6	13	15	30	8,400	1.0×10^{-4}	1,500	258	2.5	0.25	±0.5
SRBA-60C	60	76.2	19	9.4	M8	30	30	60	7,000	2.2×10^{-4}	2,500	407	2.5	0.25	±0.5
SRBB-60C	60	88	19	9.4	M8	30	30	60	7,000	2.6×10^{-4}	2,500	483	2.5	0.25	±0.5

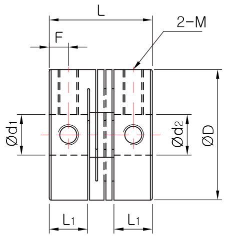
Model	Standard Inner Diameter (d_1, d_2) (mm)																	
	2	3	4	5	6	6.35	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25
SRB-8□	●	●																	
SRB-12□		●	●	●															
SRB-16□		●	●	●	●														
SRB-19□			●	●	●	●	●												
SRB-22□				●	●	●	●	●	●										
SRB-26□				●	●	●	●	●	●	●	●								
SRB□-32□							●	●	●	●	●	●	●						
SRB□-39□									●	●	●	●	●	●	●	●			
SRB□-49□											●	●	●	●	●	●	●		
SRB□-60□													●	●	●	●	●	●	●	●

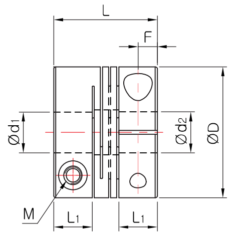
חריץ לשגם אופציונלי
טולרנס מומלץ לציר h7

SRBM

Set-Screw (SRBM-no mark) **Side-clamp (SRBM-C)**

נבה: אלומיניום AL-7075-T6
בורג הידוק: SCM435





Set-screw

Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L1	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SRBM-12	12.7	13	4.5	2.2	M2.5	0.5	0.2	0.4	40,000	8.0×10^{-8}	60	3.2	1	-	±0.15
SRBM-16	16	14	5	2.4	M3	0.7	0.4	0.8	30,000	2.2×10^{-7}	130	5.8	1	-	±0.15
SRBM-19	19.1	17	6.3	3.1	M3	0.7	0.6	1.2	24,000	5.3×10^{-7}	160	10	1	-	±0.15
SRBM-22	22.2	19	6.9	3.3	M4	1.7	1	2	20,000	1.1×10^{-6}	180	14	1	-	±0.15
SRBM-26	26.2	22	7.9	3.8	M4	1.7	2	4	18,000	2.5×10^{-6}	480	25	1	-	±0.15
SRBM-32	31.8	29	10.5	5.1	M5	4	3.8	7.6	16,000	6.9×10^{-6}	780	44.9	1	-	±0.15

Side-clamp

Model	Size (±0.3mm)				Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	L	L1	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SRBM-12C	12.7	14	5	2.5	M2	0.5	0.2	0.4	35,000	7.9×10^{-8}	60	3.2	1	-	±0.15
SRBM-16C	16	16	6	3	M2.6	1	0.4	0.8	27,000	2.3×10^{-7}	130	6.3	1	-	±0.15
SRBM-19C	19.1	17	6.3	3.1	M2.6	1	0.6	1.2	20,000	5.0×10^{-7}	160	9.2	1	-	±0.15
SRBM-22C	22.2	20	7.4	3.7	M3	1.7	1	2	18,000	1.1×10^{-6}	180	15	1	-	±0.15
SRBM-26C	26.2	23	8.4	4.1	M3	1.7	2	4	17,000	2.5×10^{-6}	480	25	1	-	±0.15
SRBM-32C	31.8	30	11	5.4	M4	3.5	3.8	7.6	14,000	6.8×10^{-6}	780	44	1	-	±0.15

Model	Standard Inner Diameter (d_1, d_2) (mm)											
	3	4	5	6	6.35	8	9.525	10	11	12	14	15
SRBM-12□	●	●	●									
SRBM-16□	●	●	●	●								
SRBM-19□		●	●	●	●	●						
SRBM-22□			●	●	●	●	●	●				
SRBM-26□			●	●	●	●	●	●	●	●		
SRBM-32□				●	●	●	●	●	●	●	●	●

חריץ לשגם אופציונלי
טולרנס מומלץ לציר h7

*שימו לב: זהו קטלוג מצומצם, את הקטלוג המלא ניתן למצוא באתרנו בכתובת www.chemlani.co.il

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