

BK2

With clamping hub

15 – 200 Nm



Feataures

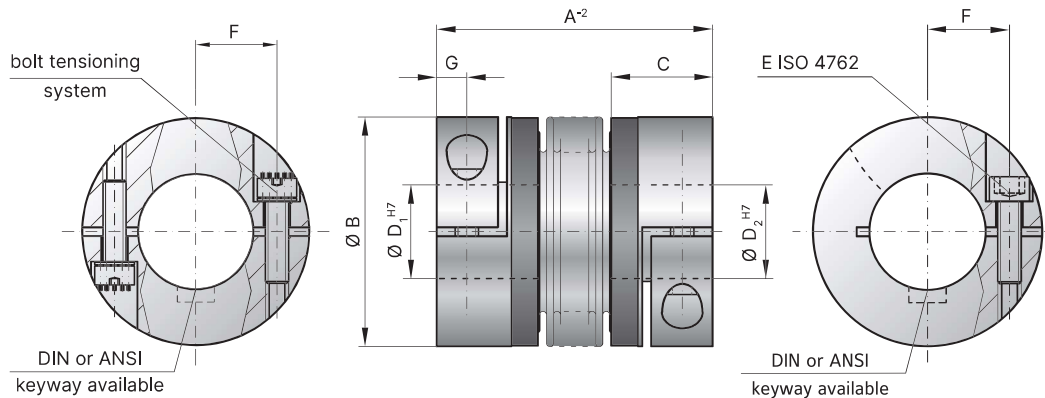
- Easy to mount
- Light weight and low moment of inertia

Material

- **Bellows:** high grade stainless steel

Design

Two clamping hubs concentrically mounted to flexible bellows.
Brief overloads of up to 1.5x the rated torque are acceptable.



Advantage: reduce screw tightening torques by up to 90% by using multiple smaller screws to create the same tension.

Optionally also available in other materials.

Model BK2

Size			15			30			60			80			150			200		
Rated torque (Nm)	T_{KN}		15			30			60			80			150			200		
Overall length (mm)	A^{-2}		59	66	99	69	77	113	83	93	130	94	106	143	95	107	144	105	117	163
Outside diameter (mm)	B		49			55			66			81			81			90		
Fit length (mm)	C		22			27			31			36			36			41		
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		
Fastening screw ISO 4762			M5			M6			M8			M10			M10			M12		
Tightening torque of the fastening screw (Nm)	E		8			15			40			50			70			120		
Distance between centerlines (mm)	F		17			19			23			27			27			31		
Distance (mm)	G		6.5			7.5			9.5			11			11			12.5		
Moment of inertia (10^{-3} kgm^2)	J_{ges}		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
Hub material			AL optional steel			AL optional steel			AL optional steel			AL optional steel			steel optional AL			steel optional AL		
Approximate weight (kg)			0.16			0.26			0.48			0.8			1.85			2.65		
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
Axial $\pm$ (mm)			1	2	3	1	2	3	1.5	2	3	2	3	4	2	3	4	2	3	4
Lateral $\pm$ (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
Angular $\pm$ (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
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
Lateral spring stiffness (N/mm)	C_r		475	137	140	900	270	224	1,200	420	337	920	290	401	1,550	435	500	2,040	610	750

* 180° opposed in each clamping hub.

BK2

With clamping hub

300 – 10,000 Nm



Feataures

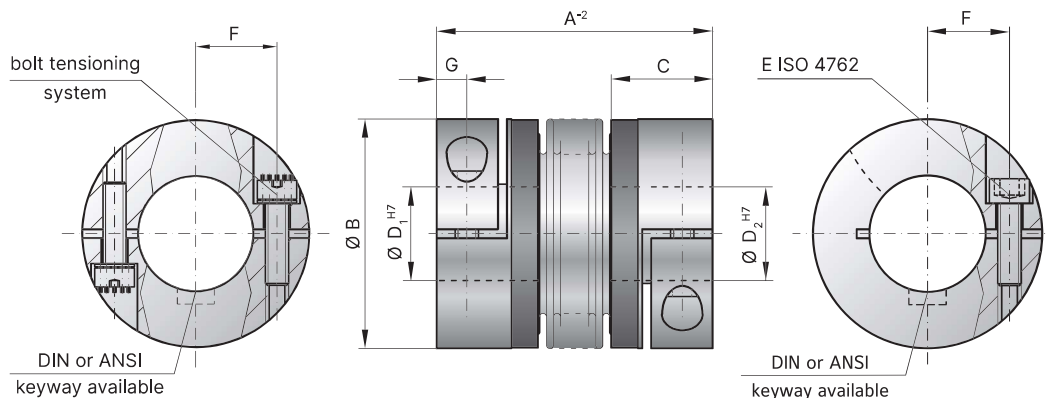
- Easy to mount
- Light weight and low moment of inertia
- Optional: bolt tensioning system in size 800 and up

Material

- **Bellows:** high grade stainless steel

Design

Two clamping hubs concentrically mounted to flexible bellows.
Brief overloads of up to 1.5x the rated torque are acceptable.



Advantage: reduce screw tightening torques by up to 90% by using multiple smaller screws to create the same tension.

Optionally also available in other materials.

Model BK2

Size			300			500			800		1,500		4,000	6,000	10,000
Rated torque	(Nm)	T_{KN}	300			500			800		1,500		4,000	6,000	10,000
Overall length	(mm)	A^{-2}	111	125	200	133	146	169	140	179	166	230	225	252	288
Outside diameter	(mm)	B	110			124			134		157		200	253	303
Fit length	(mm)	C	43			51			45		55		85	107	129
Inside diameter possible from $\varnothing$ to $\varnothing$ H7	(mm)	D_1/D_2	24-60			35-60			40-75		50-80		50-90	60-140	70-180
Fastening screw ISO 4762			M12			M16			2x M16*		2x M20*		2x M24*	2x M24*	2x M30*
Tightening torque of the fastening screw	(Nm)	E	130			200			250		470		1,200	1,200	2,400
Distance between centerlines	(mm)	F	39			41			2x48		2x55		2x65	2x90	2x117
Distance	(mm)	G	13			16.5			18		22.5		28	35	42
Moment of inertia (10^{-3} kgm^2)		J_{ges}	7.6	7.9	8.3	14.3	14.6	14.8	16.2	17	43	45	165	495	1,214
Hub material			steel optional AL			steel optional AL			steel		steel		steel	steel	steel
Approximate weight	(kg)		4			6.3			5.7		11.5		28.8	49.4	80.9
Torsional stiffness (10^3 Nm/rad)		C_T	450	350	340	510	500	400	780	711	1,304	1,180	3,400	5,700	10,950
Axial	$\pm$ (mm)	Max. values	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	$\pm$ (mm)		0.25	0.3	1	0.3	0.35	1	0.35	1	0.35	1	0.4	0.4	0.4
Angular	$\pm$ (degree)		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	105	71	605	70	48	85	100	285	320	440	565	1,030	985
Lateral spring stiffness (N/mm)		C_r	3,750	1,050	1,200	2,500	840	614	2,000	1,490	3,600	1,700	6,070	19,200	21,800

* 180° opposed in each clamping hub.