

BK2

With clamping hub

15 – 200 Nm

Features

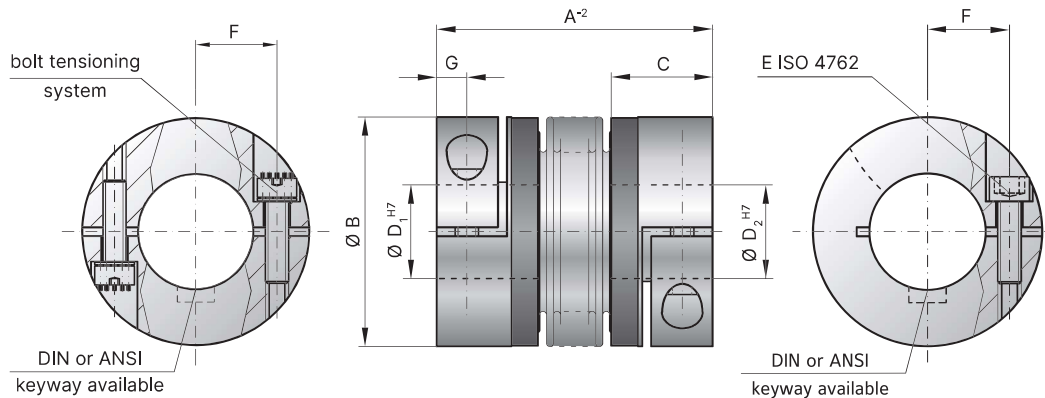
- Easy to mount
- Light weight and low moment of inertia

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 $\varnothing$ to $\varnothing$ 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)	Max. values	1	2	3	1	2	3	1.5	2	3	2	3	4	2	3	4	2	3	4
Lateral	$\pm$ (mm)		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

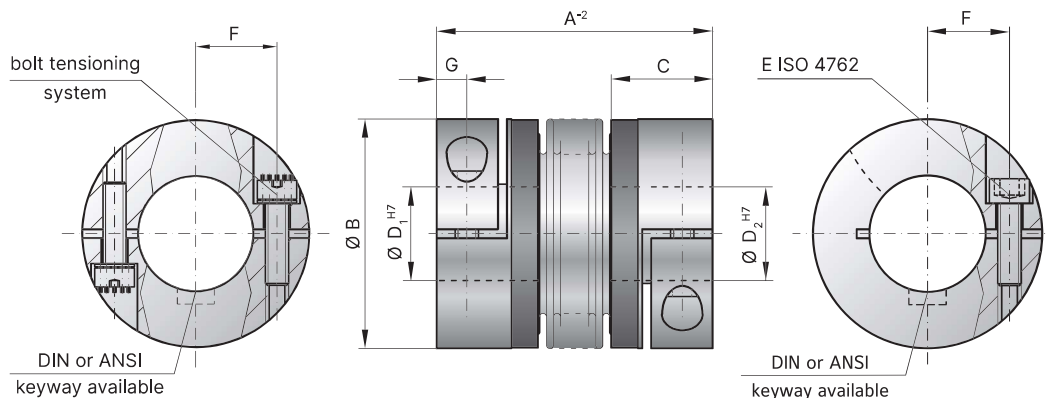
- Easy to mount
- Light weight and low moment of inertia
- Optional: bolt tensioning system in size 800 and up

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 Ø to Ø H7 (mm)	D_1/D_2		24-60		35-60		40-75		50-80		50-90		60-140		70-180
Fastening screw ISO 4762	E		M12		M16		2x M16*		2x M20*		2x M24*		2x M24*		2x M30*
Tightening torque of the fastening screw (Nm)			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)			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)		Max. values	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.