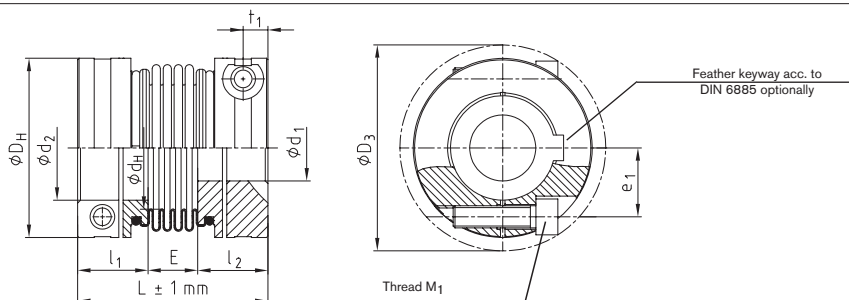


Type S with clamping hubs



- Backlash-free, torsionally stiff
- Frictionally engaged clamping hubs
- Maintenance-free
- Short design
- Higher stiffness of torsion spring
- Lower mass moment of inertia
- Temperature range: for size 5 to 12: -30 °C to +100 °C
from size 16: suitable for high temperatures due to flanged insert connection (max. 200 °C)
- Good resistance to corrosion
- Finish bore from Ø 6 mm also available with feather key acc. to DIN 6885 sheet 1 – JS9



TOOLFLEX® type S with clamping hubs material of hubs aluminium (size 55/65 steel)/material of bellow stainless steel material

Size	min./max. finish bore		Dimensions [mm]						Clamping screws DIN EN ISO 4762				
	min. d	max. d	L	$l_1; l_2$	E	D_H	d_H	M_1	D_3	t_1	e_1	T_A [Nm]	
7	3	7	24	9	6	15	9	M2	16,5	3,2	5	0,37	
9	3	9	29	11	7	20	12	M2,5	21,5	3,5	7,1	0,76	
12	4	12	34,5	13	8,5	25	16	M3	26,5	4	8,5	1,34	
16	5	16	45	17,0	11	32	20	M4	35,0	5	12,0	2,9	
20	8	20	55	21,5	12	40	27	M5	43,5	6	14,5	6	
30	10	30	63	23,0	17	55	33	M6	58,0	7	19	10	
38	12	38	69	25,5	18	65	42	M8	72,6	9	25	25	
42	14	42	84	30,0	24	70	46	M8	76,1	9	27	25	
45	14	45	86,5	32,0	22,5	83	58	M10	89,0	11	30	49	
55 ⁴⁾	20	55	111	40,0	31	100	73	M12	106,0	14	37	120	
65 ⁴⁾	30	65	126	45,0	36	125	95	M14	127,2	15	45	185	

Technical data

Size	Bellow-hub-connection	Bellow torque T_{KN}^1 [Nm]	Speed n^2 [rpm]	Moment if inertia ³⁾ [$\times 10^{-6} \text{kgm}^2$]	Torsional stiffness C_T [Nm/rad]	Axial spring stiffness [N/mm]	Radial spring stiffness [N/mm]	Perm. displacements			Weight ³⁾ [kg]
								Axial [mm]	Radial [mm]	Angular [°]	
7	Bonded	1	31800	0,26	390	—	—	$\pm 0,3$	0,10	0,7	0,007
9		1,5	23800	0,97	750	—	—	$\pm 0,35$	0,15	1,0	0,014
12		2	19100	2,6	1270	—	—	$\pm 0,4$	0,15	1,0	0,025
16		5	14900	9	4500	43	138	$\pm 0,3$	0,15	1,0	0,06
20	Flanged	15	11950	30	9600	63	189	$\pm 0,4$	0,15	1,0	0,12
30		35	8700	114	17800	97	233	$\pm 0,5$	0,20	1,5	0,24
38		65	7350	245	37400	108	318	$\pm 0,6$	0,20	1,5	0,35
42		95	6820	396	54700	120	499	$\pm 0,6$	0,20	1,5	0,49
45		150	5750	931	95800	132	738	$\pm 0,9$	0,25	1,5	0,82
55 ⁴⁾		340	4800	4996	144100	160	894	$\pm 1,0$	0,25	1,5	3,2
65 ⁴⁾	600	3850	13318	322740	212	1365	$\pm 1,0$	0,30	1,5	5,5	

¹⁾ For selection see page 168

²⁾ With $v = 25 \text{ m/s}$

³⁾ Figures refer to the complete coupling with max. bores

⁴⁾ Hub made of steel welded to bellow

Hub design 2.5 = clamping hub without feather keyway

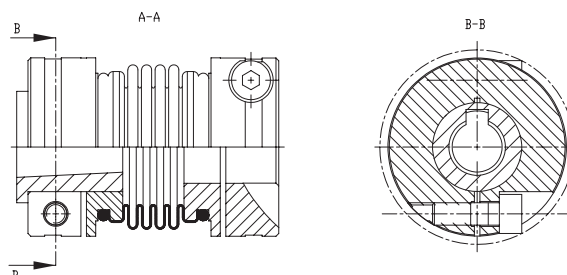
Hub design 2.6 = clamping hub with feather keyway

Please note:

For friction torque T_R of clamping hub see type M on page 170

Other types:

Type for FANUC motors



Ordering example:

TOOLFLEX® 30 S	2.5	Ø25	2.5	Ø30
Coupling size	Hub design	Finish bore	Hub design	Finish bore