

TOOLFLEX®

Backlash-free, torsionally stiff and maintenance-free coupling



Type S with setscrew



Type M with setscrew



Type S with clamping hubs



Type M with clamping hubs



Type KN (Taper hubs)



Type PI



Type CF



1 Technical data

Type M with clamping hubs

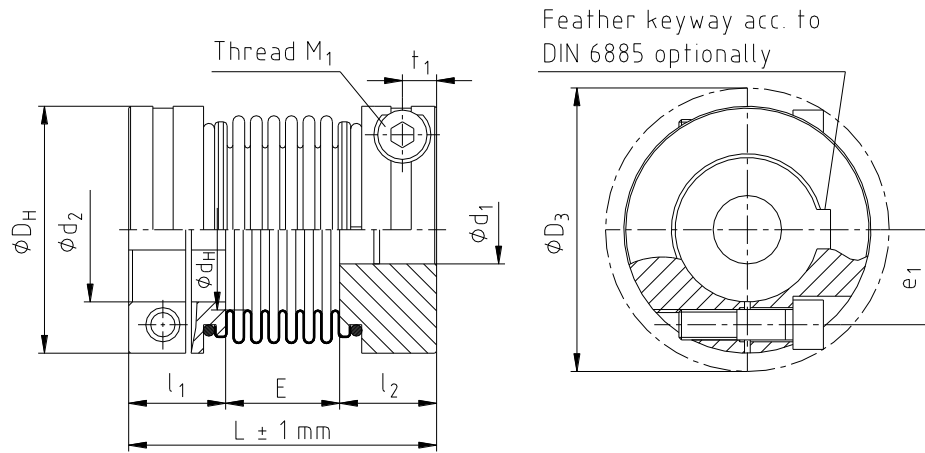


Illustration 4: TOOLFLEX® type M with clamping hubs

Table 4: Dimensions - type M (6 layers) with clamping hubs

Hub material: aluminium (hub size 55 and 65: steel); bellow material: stainless steel												
Size	Dimensions [mm]											
	Finish bore		General					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	26	9.0	8	15	9	M2	16.5	3.2	5.0	0.37
9	3	9	32	11.0	10	20	12	M2.5	21.5	3.5	7.1	0.76
12	4	12	38	13.0	12	25	16	M3	26.5	4	8.5	1.34
16	5	16	49	17.0	15	32	20	M4	35.0	5	12.0	2.9
20	8	20	62	21.5	19	40	27	M5	43.5	6	14.5	6
30	10	30	72	23.0	26	55	33	M6	58.0	7	19.0	10
38	12	38	81	25.5	30	65	42	M8	72.6	9	25.0	25
42	14	42	95	30.0	35	70	46	M8	76.1	9	27.0	25
45	14	45	103	32.0	39	83	58	M10	89.0	11	30.0	49
55 ³⁾	20	55	125	40.0	45	100	73	M12	106.0	14	37.0	120
65 ³⁾	30	65	142	45.0	52	125	95	M14	127.2	15	45	185

Table 5: Technical data - type M (6 layers) with clamping hubs

Hub material: aluminium (hub size 55 and 65: steel); bellow material: stainless steel							
Size	Torque of bellow T _{KN} [Nm]	Speed n ¹⁾ [rpm]	Moment of inertia ²⁾ [x10 ⁻⁶ kgm ²]	Torsion stiffness C _T [Nm/rad]	Axial spring stiffness [N/mm]	Radial spring stiffness [N/mm]	Weight ²⁾ [kg]
7	1	31800	0.3	300	-	-	0.008
9	1.5	23800	1.0	580	-	-	0.015
12	2	19100	2.7	980	-	-	0.03
16	5	14900	10	3050	29	92	0.06
20	15	11950	32	6600	42	126	0.14
30	35	8700	123	14800	65	155	0.31
38	65	7350	262	24900	72	212	0.45
42	95	6820	427	36500	80	333	0.52
45	170	5750	1020	64000	88	492	1.13
55 ³⁾	340	4800	5118	96100	107	598	3.3
65 ³⁾	600	3850	13727	226550	135	910	5.6

- 1) With v = 25 m/s
- 2) Figures refer to the complete coupling with max. bore.
- 3) Hubs made of steel welded with bellow.

Please observe protection note ISO 16016.	Drawn:	2019-07-16 Wih/Ki	Replacing:	KTR-N dated 2019-04-09
	Verified:	2019-07-19 Shg	Replaced by:	