METAL COIL SPRING COUPLINGS

BAUMANNFLEX MM – Datasheet

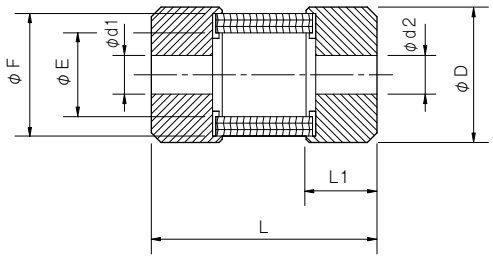
Specifications

Model	Torque		Misalignment			Max. rotation speed [min^{-1}]	Torsional stiffness [N·m/rad]	Moment of inertia [kg·m^2]	Mass [kg]
	Nominal [N·m]	Max. [N·m]	Parallel [mm]	Angular [°]	Axial [mm]				
MM-6K	2.5	5	0.3	3	± 0.6	20000	143	7.65×10^{-7}	0.03
MM-8K	5	10	0.3	3	± 0.8	15000	286.5	4.08×10^{-6}	0.07
MM-12K	10	20	0.4	3	± 1.0	12000	573	1.43×10^{-5}	0.14
MM-14K	10	20	0.5	3	± 1.0	10000	573	2.47×10^{-5}	0.15
MM-16K	20	40	0.6	3	± 1.2	9000	1146	6.12×10^{-5}	0.30
MM-19K	20	40	0.7	3	± 1.2	8000	1146	8.42×10^{-5}	0.32
MM-20K	40	80	0.7	3	± 1.6	7000	2292	1.99×10^{-4}	0.70
MM-24K	40	80	0.9	3	± 1.6	7000	2292	2.63×10^{-4}	0.75
MM-25K	90	180	0.9	3	± 2.0	6000	3438	5.66×10^{-4}	1.25
MM-28K	90	180	1.0	3	± 2.0	6000	2865	5.77×10^{-4}	1.35
MM-30K	150	300	1.1	3	± 2.5	5000	4297.5	1.39×10^{-4}	2.10
MM-35K	220	440	1.2	3	± 3.2	4500	6303	3.01×10^{-4}	3.50

Model	Torque		Misalignment			Max. rotation speed [min^{-1}]	Torsional stiffness [N·m/rad]	Moment of inertia [kg·m^2]	Mass [kg]
	Nominal [N·m]	Max. [N·m]	Parallel [mm]	Angular [°]	Axial [mm]				
MM-6K-S	2.5	5	0.3	3	± 0.6	20000	143	7.65×10^{-7}	0.03
MM-8K-S	5	10	0.3	3	± 0.8	15000	286.5	4.08×10^{-6}	0.07
MM-12K-S	10	20	0.4	3	± 1.0	12000	573	1.43×10^{-5}	0.14
MM-16K-S	20	40	0.6	3	± 1.2	9000	1146	6.12×10^{-5}	0.30
MM-20K-S	40	80	0.7	3	± 1.6	7000	2292	1.99×10^{-4}	0.70
MM-25K-S	90	180	0.9	3	± 2.0	6000	3438	5.66×10^{-4}	1.25

• Higher rpm possible with balancing.
• The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions



Unit [mm]

Model	d1 • d2			D	L	L1	E	F
	Pilot bore	Min.	Max.					
MM-6K	2.5	3	8	16	20	6	11	15.5
MM-8K	3.5	4	8	21	35	11	13	19
MM-12K	5.5	6	12	26	50	16.5	16.5	24
MM-14K	5.5	7	14	30	50	16.5	20.5	28
MM-16K	5.5	10	16	35	65	22	22.4	32
MM-19K	5.5	10	19	38	65	22	26.4	36
MM-20K	5.5	10	20	45	80	27	28	40
MM-24K	5.5	14	24	48	80	27	33	45
MM-25K	5.5	14	25	55	100	33.5	35	50
MM-28K	5.5	14	28	55	100	33.5	37	52
MM-30K	5.5	16	30	65	125	40	40.8	60
MM-35K	5.5	20	35	75	150	48	46	70

Model	d1 • d2			D	L	L1	E	F
	Pilot bore	Min.	Max.					
MM-6K-S	2.5	3	8	17	25	9	11	15.5
MM-8K-S	3.5	4	8	21	35	11	13	19
MM-12K-S	5.5	6	12	26	50	16.5	16.5	24
MM-16K-S	5.5	10	16	35	65	22	22.4	32
MM-20K-S	5.5	10	20	45	80	27	28	40
MM-25K-S	5.5	14	25	55	100	33.5	35	50

How to Place an Order

MM-16K-S 12H-14N

Size
Materials
Blank: Carbon steel and spring steel
-S: Stainless steel

Bore diameter: d1 (Small diameter) – d2 (Large diameter)
Blank: Pilot bore

Bore specifications
Blank: Compliant with the old JIS standards (class 2) E9
H: Compliant with JIS standards H9
J: Compliant with JIS standards JS9
N: Compliant with motor standards

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METAL COIL SPRING COUPLINGS

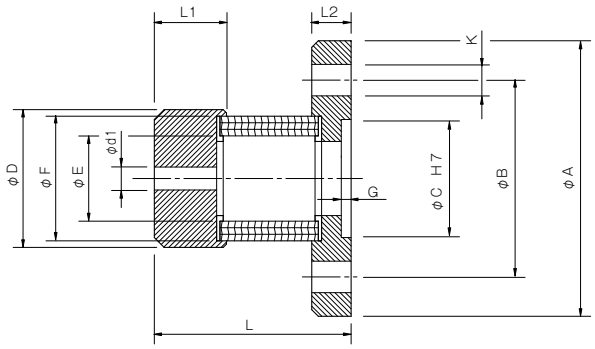
BAUMANNFLEX MF – Datasheet

Specifications

Model	Torque		Misalignment			Max. rotation speed [min^{-1}]	Torsional stiffness [N·m/rad]	Moment of inertia [kg·m^2]	Mass [kg]
	Nominal [N·m]	Max. [N·m]	Parallel [mm]	Angular [°]	Axial [mm]				
MF-8K	5	10	0.3	3	± 0.8	15000	286.5	1.66×10^{-5}	0.1
MF-12K	10	20	0.4	3	± 1.0	12000	573	3.32×10^{-5}	0.16
MF-16K	20	40	0.6	3	± 1.2	9000	1146	9.18×10^{-5}	0.31
MF-20K	40	80	0.7	3	± 1.6	7000	2292	2.12×10^{-4}	0.5
MF-25K	90	180	0.9	3	± 2.0	6000	3438	5.33×10^{-4}	0.9
MF-30K	150	300	1.1	3	± 2.5	5000	4297.5	1.35×10^{-3}	1.7
MF-35K	220	440	1.2	3	± 3.2	4500	6303	2.86×10^{-3}	2.8

• Higher rpm possible with balancing.
• The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions



Unit [mm]

Model	d1 • d2			D	L	L1	L2	A	B	C	E	F	G	K
	Pilot bore	Min.	Max.											
MF-8K	3.5	4	8	21	30	11	6	42	30	18	13	19	1.5	3-ø 4.8
MF-12K	5.5	6	12	26	40	16.5	6	48	37	22	16.5	24	1.5	3-ø 4.8
MF-16K	5.5	10	16	35	50	22	6.5	58	47	30	22.4	32	1.5	4-ø 4.8
MF-20K	5.5	12	20	45	60	27	7	65	52	35	28	40	1.5	4-ø 4.8
MF-25K	5.5	14	25	55	75	33.5	8.5	75	62	42	35	50	1.5	6-ø 5.8
MF-30K	5.5	16	30	65	95	40	10	90	74.5	47	40.8	60	2.5	4-ø 7.0
MF-35K	5.5	20	35	75	115	48	13	100	84	57	46	70	2.5	6-ø 47.0

How to Place an Order

MF-16K 12H

- 12H: Bore diameter: d1 (Blank: Pilot bore)
- 16K: Size

Bore specifications
Blank: Compliant with the old JIS standards (class 2) E9
H: Compliant with JIS standards H9
J: Compliant with JIS standards JS9
N: Compliant with motor standards

Material: Hub – SUM24L or equivalent, Spring – Spring steel

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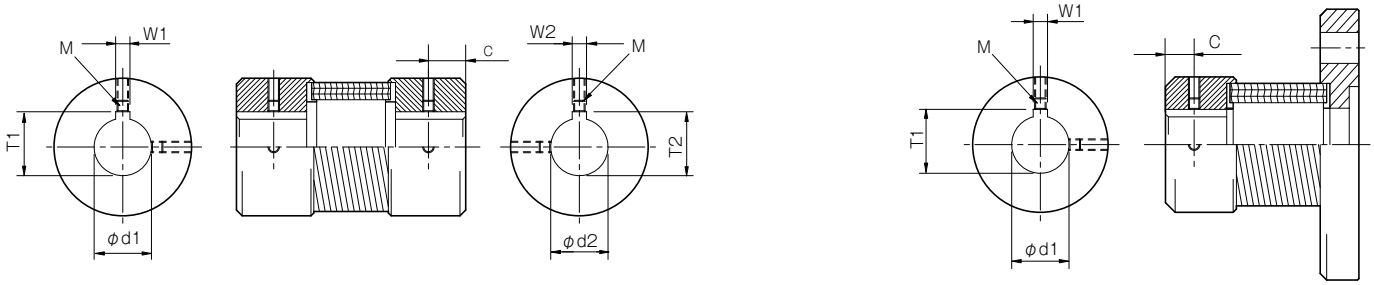
BAUMANNFLEX MM/MF MODELS

Standard Hole-Drillings



Unit [mm]

Models compliant with the old JIS standard (class 2) JIS B 1301 1959					Models compliant with the new JIS standard (H9) JIS B 1301 1996					Models compliant with the new JIS standard (JS9) JIS B 1301 1996					Models compliant with the motor standard JIS C 4210 2001				
Nominal bore diameter	Bore diameter [d1 • d2]	Keyway width [W1 • W2]	Keyway height [T1 • T2]	Set screw hole [M]	Nominal bore diameter	Bore diameter [d1 • d2]	Keyway width [W1 • W2]	Keyway height [T1 • T2]	Set screw hole [M]	Nominal bore diameter	Bore diameter [d1 • d2]	Keyway width [W1 • W2]	Keyway height [T1 • T2]	Set screw hole [M]	Nominal bore diameter	Bore diameter [d1 • d2]	Keyway width [W1 • W2]	Keyway height [T1 • T2]	Set screw hole [M]
	Tolerance H7, H8	Tolerance E9	—	—		Tolerance H7	Tolerance H9	—	—		Tolerance H7	Tolerance JS9	—	—		Tolerance G7	Tolerance H9	—	—
4	4 $^{+0.018}_{0}$	—	—	2-M3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	5 $^{+0.018}_{0}$	—	—	2-M3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	6 $^{+0.018}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6.35	6.35 $^{+0.022}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	7 $^{+0.022}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	8 $^{+0.022}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	9 $^{+0.022}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9.5	9.5 $^{+0.022}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9.525	9.525 $^{+0.022}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	10 $^{+0.022}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	11 $^{+0.018}_{0}$	—	—	2-M4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	12 $^{+0.018}_{0}$	4 $^{+0.050}_{+0.020}$	13.5 $^{+0.3}_{0}$	2-M4	12H	12 $^{+0.018}_{0}$	4 $^{+0.030}_{0}$	13.8 $^{+0.3}_{0}$	2-M4	12J	12 $^{+0.018}_{0}$	4 ± 0.0150	13.8 $^{+0.3}_{0}$	2-M4	—	—	—	—	—
14	14 $^{+0.018}_{0}$	5 $^{+0.050}_{+0.020}$	16.0 $^{+0.3}_{0}$	2-M4	14H	14 $^{+0.018}_{0}$	5 $^{+0.030}_{0}$	16.3 $^{+0.3}_{0}$	2-M4	14J	14 $^{+0.018}_{0}$	5 ± 0.0150	16.3 $^{+0.3}_{0}$	2-M4	14N	14 $^{+0.024}_{+0.006}$	5 $^{+0.030}_{0}$	16.3 $^{+0.3}_{0}$	2-M4
15	15 $^{+0.018}_{0}$	5 $^{+0.050}_{+0.020}$	17.0 $^{+0.3}_{0}$	2-M4	15H	15 $^{+0.018}_{0}$	5 $^{+0.030}_{0}$	17.3 $^{+0.3}_{0}$	2-M4	15J	15 $^{+0.018}_{0}$	5 ± 0.0150	17.3 $^{+0.3}_{0}$	2-M4	—	—	—	—	—
16	16 $^{+0.018}_{0}$	5 $^{+0.050}_{+0.020}$	18.0 $^{+0.3}_{0}$	2-M4	16H	16 $^{+0.018}_{0}$	5 $^{+0.030}_{0}$	18.3 $^{+0.3}_{0}$	2-M4	16J	16 $^{+0.018}_{0}$	5 ± 0.0150	18.3 $^{+0.3}_{0}$	2-M4	—	—	—	—	—
17	17 $^{+0.018}_{0}$	5 $^{+0.050}_{+0.020}$	19.0 $^{+0.3}_{0}$	2-M4	17H	17 $^{+0.018}_{0}$	5 $^{+0.030}_{0}$	19.3 $^{+0.3}_{0}$	2-M4	17J	17 $^{+0.018}_{0}$	5 ± 0.0150	19.3 $^{+0.3}_{0}$	2-M4	—	—	—	—	—
18	18 $^{+0.018}_{0}$	5 $^{+0.050}_{+0.020}$	20.0 $^{+0.3}_{0}$	2-M4	18H	18 $^{+0.018}_{0}$	6 $^{+0.030}_{0}$	20.8 $^{+0.3}_{0}$	2-M5	18J	18 $^{+0.018}_{0}$	6 ± 0.0150	20.8 $^{+0.3}_{0}$	2-M5	—	—	—	—	—
19	19 $^{+0.021}_{0}$	5 $^{+0.050}_{+0.020}$	21.0 $^{+0.3}_{0}$	2-M4	19H	19 $^{+0.021}_{0}$	6 $^{+0.030}_{0}$	21.8 $^{+0.3}_{0}$	2-M5	19J	19 $^{+0.021}_{0}$	6 ± 0.0150	21.8 $^{+0.3}_{0}$	2-M5	19N	19 $^{+0.028}_{+0.007}$	6 $^{+0.030}_{0}$	21.8 $^{+0.3}_{0}$	2-M5
20	20 $^{+0.021}_{0}$	5 $^{+0.050}_{+0.020}$	22.0 $^{+0.3}_{0}$	2-M4	20H	20 $^{+0.021}_{0}$	6 $^{+0.030}_{0}$	22.8 $^{+0.3}_{0}$	2-M5	20J	20 $^{+0.021}_{0}$	6 ± 0.0150	22.8 $^{+0.3}_{0}$	2-M5	—	—	—	—	—
22	22 $^{+0.021}_{0}$	7 $^{+0.061}_{+0.025}$	25.0 $^{+0.3}_{0}$	2-M6	22H	22 $^{+0.021}_{0}$	6 $^{+0.030}_{0}$	24.8 $^{+0.3}_{0}$	2-M5	22J	22 $^{+0.021}_{0}$	6 ± 0.0150	24.8 $^{+0.3}_{0}$	2-M5	—	—	—	—	—
24	24 $^{+0.021}_{0}$	7 $^{+0.061}_{+0.025}$	27.0 $^{+0.3}_{0}$	2-M6	24H	24 $^{+0.021}_{0}$	8 $^{+0.036}_{0}$	27.3 $^{+0.3}_{0}$	2-M6	24J	24 $^{+0.021}_{0}$	8 ± 0.0180	27.3 $^{+0.3}_{0}$	2-M6	24N	24 $^{+0.028}_{+0.007}$	8 $^{+0.036}_{0}$	27.3 $^{+0.3}_{0}$	2-M6
25	25 $^{+0.021}_{0}$	7 $^{+0.061}_{+0.025}$	28.0 $^{+0.3}_{0}$	2-M6	25H	25 $^{+0.021}_{0}$	8 $^{+0.036}_{0}$	28.3 $^{+0.3}_{0}$	2-M6	25J	25 $^{+0.021}_{0}$	8 ± 0.0180	28.3 $^{+0.3}_{0}$	2-M6	—	—	—	—	—
28	28 $^{+0.021}_{0}$	7 $^{+0.061}_{+0.025}$	31.0 $^{+0.3}_{0}$	2-M6	28H	28 $^{+0.021}_{0}$	8 $^{+0.036}_{0}$	31.3 $^{+0.3}_{0}$	2-M6	28J	28 $^{+0.021}_{0}$	8 ± 0.0180	31.3 $^{+0.3}_{0}$	2-M6	28N	28 $^{+0.028}_{+0.007}$	8 $^{+0.036}_{0}$	31.3 $^{+0.3}_{0}$	2-M6
30	30 $^{+0.021}_{0}$	7 $^{+0.061}_{+0.025}$	33.0 $^{+0.3}_{0}$	2-M6	30H	30 $^{+0.021}_{0}$	8 $^{+0.036}_{0}$	33.3 $^{+0.3}_{0}$	2-M6	30J	30 $^{+0.021}_{0}$	8 ± 0.0180	33.3 $^{+0.3}_{0}$	2-M6	—	—	—	—	—
32	32 $^{+0.025}_{0}$	10 $^{+0.061}_{+0.025}$	35.5 $^{+0.3}_{0}$	2-M8	32H	32 $^{+0.025}_{0}$	10 $^{+0.036}_{0}$	35.3 $^{+0.3}_{0}$	2-M8	32J	32 $^{+0.025}_{0}$	10 ± 0.0180	35.3 $^{+0.3}_{0}$	2-M8	—	—	—	—	—
35	35 $^{+0.025}_{0}$	10 $^{+0.061}_{+0.025}$	38.5 $^{+0.3}_{0}$	2-M8	35H	35 $^{+0.025}_{0}$	10 $^{+0.036}_{0}$	38.3 $^{+0.3}_{0}$	2-M8	35J	35 $^{+0.025}_{0}$	10 ± 0.0180	38.3 $^{+0.3}_{0}$	2-M8	—	—	—	—	—

Set Screw Position

Coupling size	Position of set screw C [mm]
6	3
8	5
12 • 14	7
16 • 19 • 20 • 24	10
25 • 28 • 30 • 35	15

NOTE

- Positioning precision for keyway milling is determined by sight.
- Contact Miki Pulley when the keyway requires a positioning precision.
- The set screws are included with the product.
- Contact Miki Pulley regarding technical documents for standard dimensions for bore drilling other than those given here.