



KM Series

Major features of the KM Series are:

- Maximum flexibility in the angular, axial, and lateral direction and high torsional stiffness
- One screw per hub locks the coupling absolutely free of backlash
- Advantageous for space constrained or blind assembly installations
- The clamping hubs allow a maximum clearance of 0.02mm (0.0008 inches) between shaft diameter and hub bore
- 24 Hour delivery available

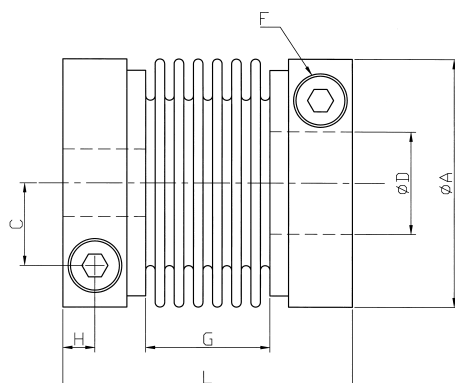
Technical Data

Size	Nominal Torque	Moment of Inertia	Torsion Resistance	Nominal Speed	Max. Misalignment			Axial Spring Rate	Lateral Spring Rate	Mass	Torque to Tighten Screws
	Nm (lb-in)	10 ⁻³ kgm ² (lb-in ²)	10 ³ Nm/rad (lb-ft/Deg)	RPM	Lateral	Axial	Angular	N/mm (lb-in)	N/mm (lb-in)	kg (lbs)	Nm (lb-in)
					mm (inch)	mm (inch)	Degrees				
KM-0.4	0.4 (3.54)	0.0004 (0.001)	0.2 (2.57)	15000	0.1 (0.004)	0.35 (0.014)	±1°	10 (57)	20 (114)	0.01 (0.022)	1 (8.85)
KM-0.9	0.9 (7.97)	0.0004 (0.001)	0.4 (5.15)	15000	0.1 (0.004)	0.3 (0.012)	±1°	21 (120)	30 (171)	0.01 (0.022)	1 (8.85)
KM-2	2 (18)	0.003 (0.01)	0.9 (11.59)	8000	0.1 (0.004)	0.5 (0.02)	±1°	10 (57)	20 (114)	0.03 (0.07)	2 (18)
KM-4	4 (35)	0.003 (0.01)	1.8 (23)	8000	0.1 (0.004)	0.4 (0.016)	±1°	43 (246)	80 (457)	0.04 (0.09)	2 (18)
KM-8	8 (71)	0.028 (0.096)	5 (64)	8000	0.27 (0.011)	0.8 (0.031)	±1°	17 (97)	30 (171)	0.13 (0.29)	6 (53)
KM-12	12 (106)	0.03 (0.103)	6.8 (88)	8000	0.21 (0.008)	0.7 (0.028)	±1°	35 (200)	70 (400)	0.14 (0.31)	7 (62)
KM-20	20 (177)	0.14 (0.478)	20 (257)	4500	0.2 (0.008)	0.8 (0.031)	±1°	51 (291)	190 (1086)	0.3 (0.66)	14 (124)
KM-35	35 (310)	0.14 (0.478)	22 (283)	4500	0.2 (0.008)	0.8 (0.031)	±1°	51 (291)	190 (1086)	0.3 (0.66)	14 (124)
KM-60	60 (531)	0.29 (0.991)	33 (425)	4500	0.2 (0.008)	0.9 (0.035)	±1°	49 (280)	260 (1486)	0.5 (1.1)	30 (266)
KM-80	80 (708)	0.79 (2.7)	53 (682)	4500	0.2 (0.008)	1.3 (0.051)	±1°	45 (257)	280 (1600)	0.8 (1.76)	50 (443)
KM-170	170 (1505)	0.83 (2.84)	63 (811)	4500	0.2 (0.008)	1.2 (0.047)	±1°	80 (457)	470 (2686)	0.8 (1.76)	65 (575)
KM-270	270 (2390)	2.21 (7.45)	111 (1429)	3000	0.2 (0.008)	1.2 (0.047)	±1°	78 (446)	500 (2858)	1.4 (3.09)	115 (1018)
KM-400	400 (3540)	2.42 (8.27)	162 (2085)	3000	0.2 (0.008)	1 (0.039)	±1°	120 (686)	700 (4001)	1.5 (3.31)	115 (1018)
KM-550	550 (4868)	4.63 (15.82)	238 (3064)	3000	0.2 (0.008)	1 (0.039)	±1°	100 (572)	980 (5601)	2.1 (4.63)	115 (1018)
KM-900	900 (7965)	8.90 (30.42)	335 (4312)	3000	0.15 (0.006)	1.2 (0.047)	±1°	102 (583)	1050 (6001)	3.3 (7.28)	200 (1770)

Coupling must be selected so that the nominal torque M_N is higher than the highest operational torque of the application (i.e., during acceleration). Exceeding the nominal torque M_N can result in a permanent distortion of the metal bellow.



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Dimensions: mm (inch)

Size	ϕA mm (inch)	C mm (inch)	F screw size	G mm (inch)	H mm (inch)	L mm (inch)	ϕD	
							min. mm (inch)	max. mm (inch)
KM-04	16.5 (0.65)	4.6 (0.181)	M2.4	12 (0.472)	3.3 (0.13)	30 (1.181)	3 (0.118)	6 (0.236)
KM-09	16.5 (0.65)	4.6 (0.181)	M2.5	13.5 (0.531)	3.3 (0.13)	31.5 (1.24)	3 (0.118)	6 (0.236)
KM-2	24.5/27.5 (.964/1.082)	7.5 (0.295)	M3	16 (0.63)	4.5 (0.177)	42 (1.654)	3 (0.118)	10/14 (.394/.551)
KM-4	24.5/27.5 (.964/1.082)	7.5 (0.295)	M3	17.6 (0.693)	4.5 (0.177)	43.5 (1.713)	3 (0.118)	10/14 (.394/.551)
KM-8	39.5/44.5 (1.555/1.752)	13 (0.512)	M5	26.5 (1.043)	6 (0.236)	59.5 (2.343)	6 (0.236)	19/21 (.748/.826)
KM-12	39.5/44.5 (1.555/1.752)	13 (0.512)	M5	29 (1.142)	6 (0.236)	62 (2.441)	10 (0.394)	19/21 (.748/.826)
KM-20	56 (2.205)	19 (0.748)	M6	30 (1.181)	7.5 (0.295)	70 (2.756)	9 (0.354)	30 (1.181)
KM-35	56 (2.205)	19 (0.748)	M6	30 (1.181)	7.5 (0.295)	70 (2.756)	14 (.551)	30 (1.181)
KM-60	66 (2.598)	22 (0.866)	M8	33 (1.299)	8.5 (0.335)	77 (3.031)	18 (0.709)	34 (1.339)
KM-80	82 (3.228)	28.5 (1.122)	M10	38 (1.496)	10.5 (0.413)	90 (3.543)	17 (0.669)	43 (1.693)
KM-170	82 (3.228)	28.5 (1.122)	M10	40 (1.575)	10.5 (0.413)	92 (3.622)	22 (0.866)	43 (1.693)
KM-270	101 (3.976)	35 (1.378)	M12	42 (1.654)	12 (0.472)	100 (3.937)	27 (1.063)	54 (2.126)
KM-400	101 (3.976)	35 (1.378)	M12	48 (1.89)	12 (0.472)	106 (4.173)	34 (1.339)	54 (2.126)
KM-550	122 (4.803)	45.5 (1.791)	M12	52 (2.047)	12.5 (0.492)	112 (4.409)	38 (1.496)	75 (2.953)
KM-900	133 (5.236)	47 (1.85)	M14	53 (2.087)	18.5 (0.728)	143 (5.63)	40 (1.575)	76 (2.992)

Bore diameters smaller than ϕD_{\min} are possible but reliable transmission of nominal torque M_N cannot be guaranteed.

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