



Changzhou Suma Precision Machinery Co.,Ltd

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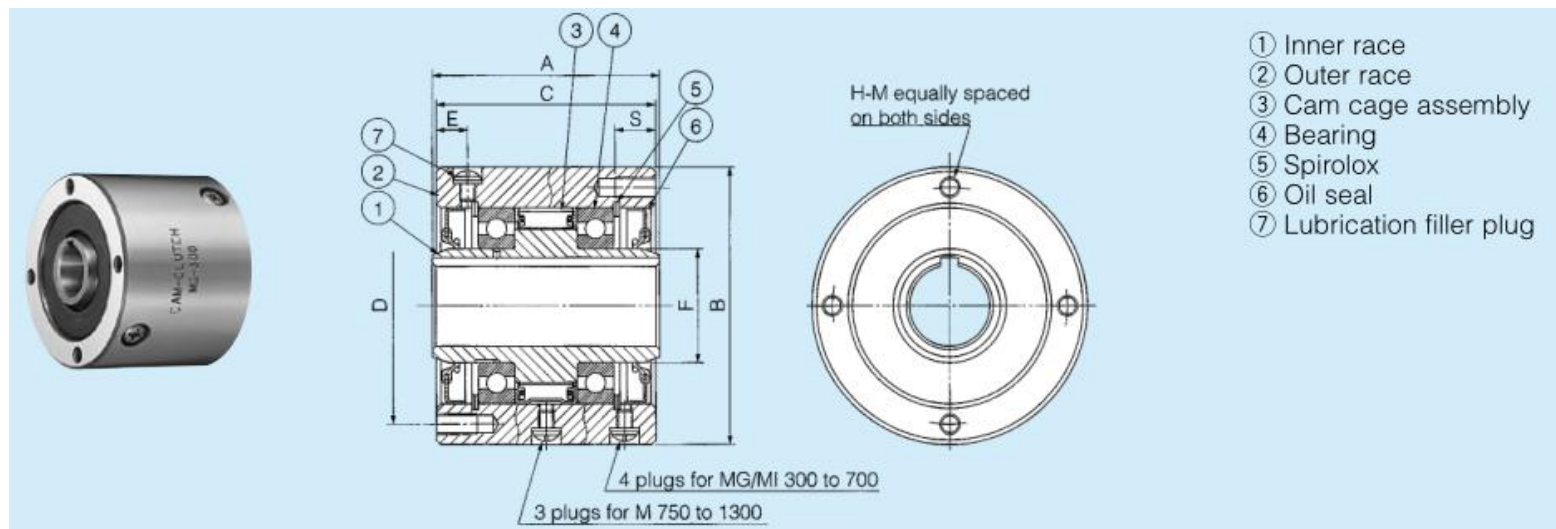
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Technical Parameter

MODELS MG300 TO MG1300/MI300 TO MI1300

For General Applications



Model	Torque Capacity (Nm)	Drag Torque (Nm)	Max. Overrunning (r/min)		Max. Index -ing (cycle/min)	Bore Size		A	B (h7)	C	PCD		E	F	S	H-M No.of Tapped Holes ×Size×Pitch	Lubrication Filler Plug Size×Pitch	Oil (me)	Weight (kg)
			Inner Race	Outer Race		Dia. (H7)	Keyway				D								
MG 300 MI 300	314	0.23 0.31	2800 50	900 —	— 300	19	5x2	63	77	60	66	10.4	28.5	13	4xM6xP1.0	M6xP1.0	25 50	1.8	
MG 400 MI 400	539	0.29 0.38	2600 50	800 —	— 300	22	5x2	70	88	67	73	10.7	31.7	16	4XM8xP1.25	M6xP1.0	30 60	2.7	
MG 500 MI 500	1620	0.51 0.68	2400 50	800 —	— 300	31.5	7x3	89	108	86	92	12.3	44.4	16	4XM8xP1.25	M6xP1.0	50 100	5.0	
MG 600 MI 600	3140	0.85 1.54	2100 30	700 —	— 300	50	12x3.5	95	136	92	120	12.8	69.8	16	6xM8xP1.25	M6xP1.0	80 160	8.6	
MG 700 MI 700	5880	1.70 2.63	1500 30	500 —	— 300	70	18x6	127	180	124	160	19.8	101.5	20	6xM10xP1.5	M6xP1.0	135 260	19.5	
MG 750 MI 750	9500	3.43 4.12	1800 30	600 —	— 300	85	24x6	153	200	150	175	75	110	25	8xM14xP2.0	M8xP1.25	400 800	37.0	
MG 800 MI 800	17600	5.39 8.33	1300 20	475 —	— 300	110	28x7	158	250	155	220	77.5	140	25	8xM16xP2.0	M8xP1.25	500 1000	46.5	
MG 900 MI 900	24500	6.77 9.41	1200 20	400 —	— 300	135	35x9	165	300	160	265	80	170	32	10xM16xP2.0	M8xP1.25	620 1240	70.5	
MG 1000 MI 1000	33800	8.14 12.74	1200 20	325 —	— 300	160	38x10	188	370	180	325	90	200	32	12xM16xP2.0	M8xP1.25	850 1700	108.5	
MG 1100 MI 1100	78400	15.00 22.15	350 20	— —	— 150	185	45x14	260	470	250	415	125	260	40	12xM20xP2.5	M12xP1.75	2900 5800	250	
MG 1200 MI 1200	95100	17.64 27.54	300 20	— —	— 150	200	45x14	260	500	250	440	125	280	45	12xM24xP3.0	M12xP1.75	3000 6000	280	
MG 1300 MI 1300	176000	18.72 28.13	250 20	— —	— 150	250	56x17.5	280	600	260	530	130	340	50	12xM30xP3.5	M12xP1.75	3800 7600	410	

Installation and Usage

1. MG Series Cam Clutch is used for inner race overrunning applications. MI Series Cam Clutch is used for indexing applications.
2. For attaching a pulley, a gear, or sprocket to the clutch, insert the clutch into the hub of the device, and screw the bolts (high tension) into the tapped holes on the clutch end. The tolerance bore of the hub should be H6 or H7 of JIS standard.
3. Recommended shaft tolerances are as follows:

Model	Tolerance
M 300, M 400	+0 to -0.021
M 500, M 600	+0 to -0.025
M 700	+0 to -0.030
M 750, M 800	+0 to -0.035
M 900, M 1000	+0 to -0.040
M 1100, M 1200, M 1300	+0 to -0.046

4. The key should be in accordance with JIS B1301-1959. However, for M750 and above models, a key is attached.
5. Use only a parallel key to secure the clutch. Never use a tapered key.
6. If the clutch receives shock loads or is designed for use at full torque capacity, it is better to use a hardened key and shaft.
7. Allow for a clearance between the top of the clutch keyway and the top of the key for pressure ventilation of the clutch in the case of MG Series. A pressure ventilation hole is provided on the keyway of the clutch inner race.
8. When mounting the clutch on a shaft, apply pressure to the inner race, but never to the outer race .
9. Thrust load should be taken up by other devices, not by the Cam Clutch.
10. When using MG Series at medium and high speeds, pay attention to heating. Longevity is shortened if the temperature of Cam Clutch outer race rises to over 70°C. In case of continuous over running Please contact SUMA. In this case, use a different model or provide an

oil bath or forced lubrication.

11. Oil is not sealed in at the time of shipment. Supply an appropriate amount of oil before use.

12. When placing an order for MG Series Cam Clutch model MG 750 and above, please inform SUMA of the overrunning speed you use.

13. For vertical mounting, please consult SUMA.

