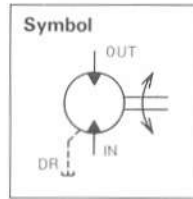


Gear motors

Internal gear motors (Series TCM※)

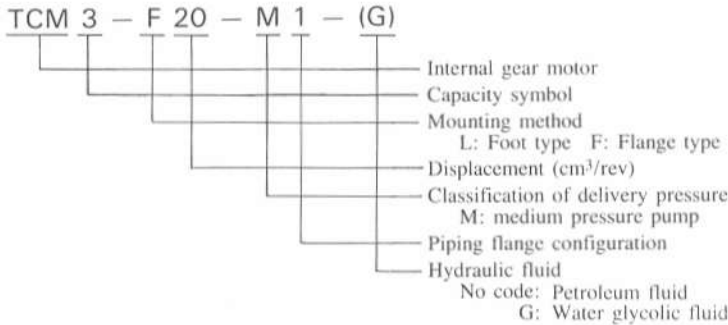
These motors generate a torque on the output shaft with a pair of gears rotated by the working fluid which is fed into and out of motor via the port IN and OUT.



● Features

1. Low noise
2. Simple structure with small number of parts results in highly efficient operation and extended service life.
3. Rotation at the high speed is possible. Stable torque in the low to high speed range can be obtained.
4. Reverse rotation is possible.

● Model coding



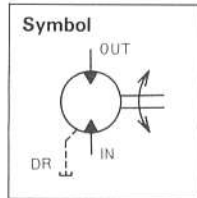
(Note) Max. speed is limited to 1,200 min⁻¹ when water glycolic fluid is used.

● Specifications

Model		Nominal Displacement		Pressure				Output torque under the rated pressure		Speed min ⁻¹	
Foot type	Flange type	cm ³ /rev	in ³ /rev	Rated		Max.		N·m	lb-ft	Max.	Min.
				MPa	psi	MPa	lb-ft				
TCM2-L5-M1-A	TCM2-F5-M1-A	5	0.305	17.5	2,500	21	3,000	14	10.2	4,000	200
TCM2-L6.3-M1-A	TCM2-F6.3-M1-A	6.3	0.384					17	12.4		
TCM2-L8-M1-A	TCM2-F8-M1-A	8	0.488					21	15.3		
TCM2-L10-M1-A	TCM2-F10-M1-A	10	0.610					27	19.7		
TCM3-L12.5-M1	TCM3-F12.5-M1	12.5	0.762	17.5	2,500	21	3,000	35	25.5	3,000	200
TCM3-L16-M1	TCM3-F16-M1	16	0.976					44	32.1		
TCM3-L20-M1	TCM3-F20-M1	20	1.220					55	40.1		
TCM3-L25-M1	TCM3-F25-M1	25	1.524					69	50.4		
TCM4-L31.5-M1	TCM4-F31.5-M1	31.5	1.921	17.5	2,500	21	3,000	86	62.8	3,000	200
TCM4-L40-M1	TCM4-F40-M1	40	2.440					110	80.3		
TCM4-L50-M1	TCM4-F50-M1	50	3.049					136	99.3		
TCM5-L63-M1-A	TCM5-F63-M1-A	63	3.841					171	124.8		
TCM5-L80-M1-A	TCM5-F80-M1-A	80	4.878	17.5	2,500	21	3,000	215	156.9	1,800	200
TCM5-L100-M1-A	TCM5-F100-M1-A	100	6.098					269	196.3		
TCM5-L125-M1-A	TCM5-F125-M1-A	120	7.622					339	247.4		

Piping flange should be separately ordered.

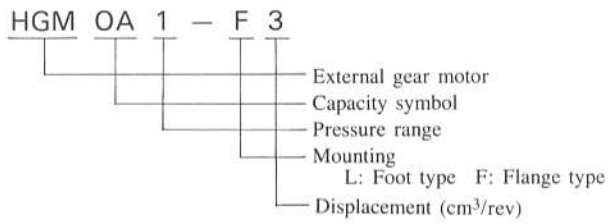
External gear motors (Series HGM)



• Features

1. Rotation at the high speed is possible. Stable torque in the low to high speed range can be obtained.
2. Reverse rotation is possible.
3. Applicable widely to industrial machines and vehicles.

• Model coding



• Specifications

Model		Displacement		Pressure				Output torque under the rated pressure		Speed min ⁻¹	
Foot type	Flange type	cm ³ /rev	in ³ /rev	Rated		Max.		N·m	lb-ft	Max.	Min.
				MPa	psi	MPa	lb-ft				
—	HGM-OA1-F1	1	0.061	7	1,000	10	1,428	80	0.58	3,000	300
—	HGM-OA1-F2	2	0.122					190	1.39		
—	HGM-OA1-F3	3	0.183					290	2.12		