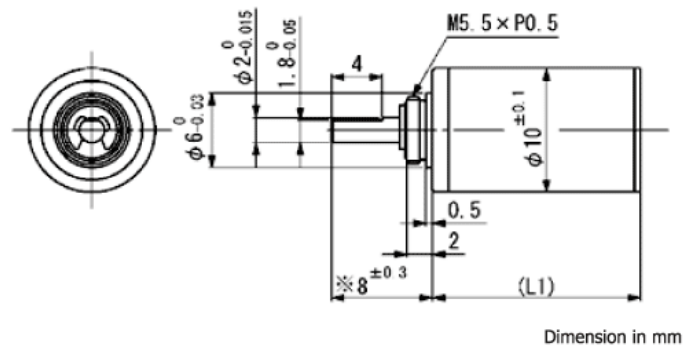


Gearhead SPG10

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Planetary Gearhead



Note) Dimension marked $\times$ is measured with shaft pushed against gearhead.

SPG10 General specifications

		Gearhead SPG10	
1	Housing material	Metal	
2	Geartrain material	Steel	
3	Recommended max input speed	10000	rpm
4	Operation temperature range	-10...+60	°C
5	Backlash at no-load per stage	≤ 1	°
6	Bearings on output shaft	Sintered Sleeve bearings	
7	Max shaft radial load(7mm from flange)	3	N
8	Max shaft axial load	1	N
9	Max shaft press fit force	20	N
10	Shaft radial play	≤ 0.03	mm
11	Shaft axial play	≤ 0.3	mm
12	Max allowable torque (Continuous)	50	mNm
13	Max allowable torque (Intermittent)	100	mNm

Spec Based on stages

	Gear Ratio	3.6	4.7	13	22	61	105	288	494	
14	Reduction ratio (absolute value)	3.60:1	4.70:1	12.96:1	22.22:1	61.10:1	104.77:1	288.03:1	493.93:1	
15	Number of stage	1	1	2	2	3	3	4	4	
16	Efficiency	85	85	72	72	61	61	52	52	%
17	Direction of rotation	=	=	=	=	=	=	=	=	
18	Gearhead length : L1	10.5	10.5	13.5	13.5	16.5	16.5	19.6	19.6	mm
19	Weight	5.8	5.8	7.1	7.1	8.4	8.4	9.7	9.7	g

Combination with motor

Type	Model name	3.6	4.7	13	22	61	105	288	494	
Coreless Motor	CMS10-13..P	23.4	23.4	26.4	26.4	29.4	29.4	32.5	32.5	mm
	CMS10-18..P	28.9	28.9	31.9	31.9	34.9	34.9	38	38	
Brushless Motor	BMS10-10..P	20.5	20.5	23.5	23.5	26.5	26.5	29.6	29.6	mm
	BMS10-18..P	28.5	28.5	31.5	31.5	34.5	34.5	37.6	37.6	