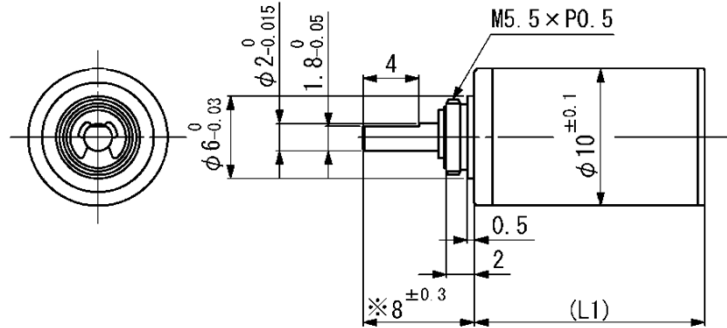


SPG10

Planetary gearhead



Dimension in

Note) Dimension marked ※ is measured with shaft pushed against gearhead.

General specifications	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

General specifications SPG10-	3.6	4.7	13	22	61	105	288	494	
12 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	
13 Number of stage	1	1	2	2	3	3	4	4	
14 Efficiency	85	85	72	72	61	61	52	52	%
15 Direction of rotation	=	=	=	=	=	=	=	=	
16 Gearhead length: L1	10.5	10.5	13.5	13.5	16.5	16.5	19.6	19.6	mm
17 Weight	5.8	5.8	7.1	7.1	8.4	8.4	9.7	9.7	g

Combination		Reduction ratio (Motor+gearhead total length)								
Type	Model name	3.6	4.7	13	22	61	105	288	494	
Brushed coreless motor	CMS10-12..P	22.5	22.5	25.5	25.5	28.5	28.5	31.6	31.6	mm
	CMS10-18..P	28.5	28.5	31.5	31.5	34.5	34.5	37.6	37.6	mm
Brushless coreless 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	mm

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