

Planetary Gearboxes PJ Series

PJ12

This is a group of planetary gearbox or planetary gearhead of PJ series, precision series.

Its diameter is $\varnothing 12$ mm. It has 5 stages, 5 length, and 20 models for your selection.

It is for DC, step or servo motor that the power is less than 2.5 W. The continuous output torque is 0.2-0.35 Nm.



Table 1: Features

Stages	Length (mm / in.)	Efficiency (%)	Backlash	Weight (g / oz)
1	15.1 / 0.59	90	3°	7 / 0.28
2	17.9 / 0.70	81	3°	10 / 0.39
3	20.7 / 0.81	73	3°	13 / 0.51
4	23.5 / 0.93	65	3°	17 / 0.65
5	26.3 / 1.04	59	3°	20 / 0.79

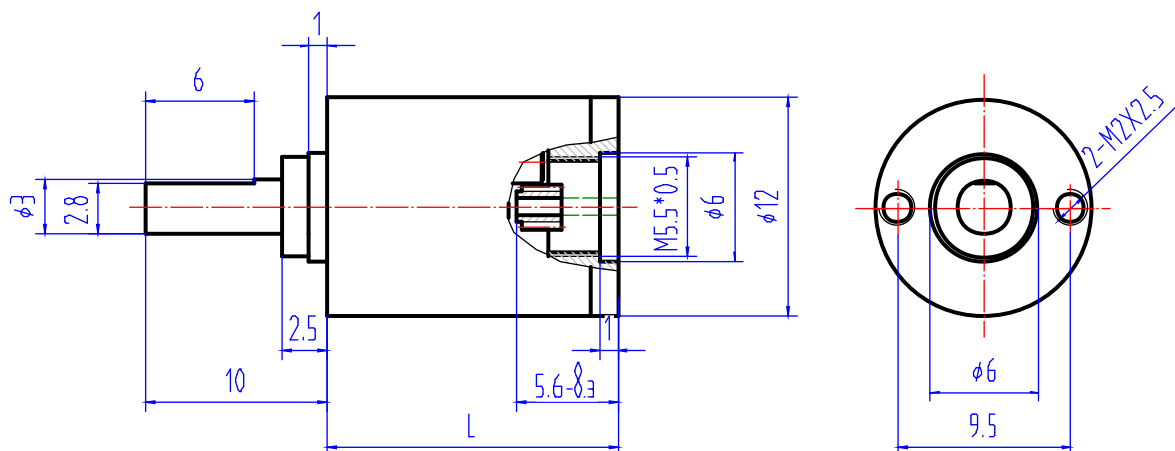


Table 2: Material and load

Items	Description
Shell Material	Stainless steel
Gear Materiel	Steel, hard gear surface
Output Shaft Materiel	Stainless steel
Flange Materiel	Stainless steel
Bearing on Output End	Rolling bearing
Max. Input Speed	9,000 rpm
Max. Radial Load	5 N
Max. Axial Load	5 N
Max. Install Force	20 N
Radial Clearance	0.01 mm
Axial Clearance	0.01 mm
Operating Temperature	-50 to 185 , (-58, to 365°F)

*-- Optional of plastic or steel gear for first stage

Table 3: Ratio and output torque

Model #	Ratio	Output Torque (Nm)		Stages
		Continuous	Intermittent	
1112002	3.94	0.2	0.3	1
1112004	5.70			
1112007	15.51	0.2	0.3	2
1112012	22.46			
1112014	32.49			
1112019	61.12	0.3	0.45	3
1112026	88.48			
1112032	128.01			
1112034	185.19			
1112042	240.83	0.3	0.45	4
1112052	348.63			
1112061	504.36			
1112067	729.66			
1112069	1055.60			
1112081	948.87	0.35	0.5	5
1112094	1373.60			
1112107	1987.19			
1112117	2874.86			
1112123	4159.06			
1112125	6016.92	0.3	0.45	5

For more information about our planetary gearboxes in PJ series, PH series and PM series, please visit our website www.broadwaygear.com. Thanks!