

Twirl Motor

● PRODUCT SERIES 产品系列

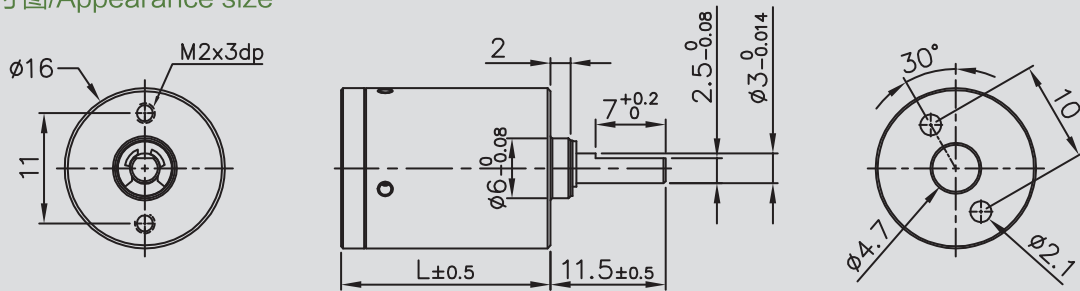
行星减速机 Planetary Gearbox PG16



外壳材质 (Housing material): _____ Powder metallurgy
 背隙,无负荷时 (Backlash,at no-load): _____ $\leq 1.5^\circ$
 轴承型号 (Bearing at output): _____ Sleeve bearings
 径向间隙 (Radial play of shaft): _____ ≤ 0.1 mm
 轴向间隙 (Thrust play shaft): _____ ≤ 0.2 mm
 齿轮箱适用于F-139,RF-030和RF-050马达。
 (The gear box can apply to F-139,RF-030 and RF-050 motors)

⚠ 马达瞬间允许扭矩12kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed , high gear ratio will cause gear motor torque more than 12kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Apearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.3	0.3	0.3
齿数 NO.of teeth	12	15	18
压力角 Pressure angle	20°	20°	20°
孔径 Hole diameter	ϕ 1.48	ϕ 1.48	ϕ 1.48

使用温度范围/Operating temperature range: $-30^\circ\text{C} \sim +85^\circ\text{C}$
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 “L” mm	输入输出方向 Input/output direction
4, 4.75	4, 4 _{3/4}	1.0kgf·cm	3.0kgf·cm	90%	1	15.8	=
16, 19, 22.5	16, 19, 22 _{9/16}	1.5kgf·cm	4.5kgf·cm	81%	2	15.8	=
64, 76, 90	64, 76, 90 _{1/4}	2.0kgf·cm	6.0kgf·cm	73%	3	19.4	=
107	107 _{11/64}	2.0kgf·cm	6.0kgf·cm	73%	3	19.4	=
256, 304	256, 304	3.0kgf·cm	9.0kgf·cm	65%	4	23	=
361, 428	361, 428 _{11/16}	3.0kgf·cm	9.0kgf·cm	65%	4	23	=
509	509 _{17/256}	3.0kgf·cm	9.0kgf·cm	65%	4	23	=
1024, 1216	1024, 1216	4.0kgf·cm	12.0kgf·cm	59%	5	26.6	=
1444, 1715	1444, 1714 _{3/4}	4.0kgf·cm	12.0kgf·cm	59%	5	26.6	=
2036, 2418	2036 _{17/64} , 2418 _{67/1024}	4.0kgf·cm	12.0kgf·cm	59%	5	26.6	=

○ 以上参数仅做参考，具体以实物为准。
 The above parameters are for reference only.