

PRODUCT SERIES 产品系列

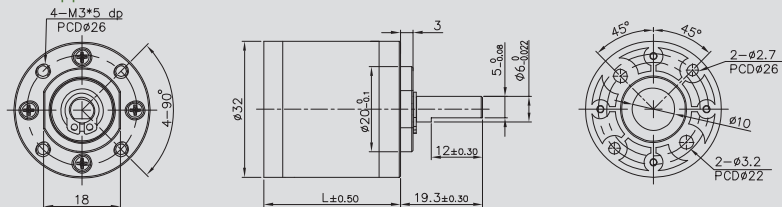
行星减速机 Planetary Gearbox PG32



外壳材质 (Housing material): metal
背隙,无负荷时 (Backlash,at no-load): $\leq 1.5^{\circ}$
轴承型号 (Bearing at output): Ball 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ZY31,BL32和RS-528马达。
(The gear box can apply to ZY31,BL32and RS-528 motors)

△ 马达瞬间允许扭矩75kgf·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 75kgf.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	0,48	0,48	0,48	
齿数 NO.of teeth	11	17	17	
压力角 Pressure angle	20°	20°	20°	
孔径 Hole diameter	φ 1.98	φ 2.28	φ 3.14	
使用温度范围/Operating temperature range: -30℃~+85℃ 使用相对湿度/Operating relative humidity: 20%~85%RH				

标准减速比参数/Gearboxes Specifications

减速比 Reduction ratio	精确减速比 Reduction 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 Gearbox length "L" mm	输入输出方向 Input/output direction
3,3, 4,6	3,353, 4,636	10,0kgf·cm	20,0kgf·cm	90%	1	20,7	=
11,2, 15,5, 21,5	12,242, 15,545, 21,498	20,0kgf·cm	60,0kgf·cm	81%	2	26,4	=
37,7, 52,1	37,694, 52,123	50,0kgf·cm	150,0kgf·cm	73%	3	32,2	=
72, 100	72,074, 99,663	50,0kgf·cm	150,0kgf·cm	73%	3	32,2	=
126, 174, 241	126,387, 174,785, 241,661	50,0kgf·cm	150,0kgf·cm	65%	4	38	=
334, 462	334,163, 462,072	50,0kgf·cm	150,0kgf·cm	65%	4	38	=
423, 585	423,769, 585,978	50,0kgf·cm	150,0kgf·cm	59%	5	43,8	=
810, 1120	810,276, 1120,429	50,0kgf·cm	150,0kgf·cm	59%	5	43,8	=
1549, 2142	1549,301, 2142,335	50,0kgf·cm	150,0kgf·cm	59%	5	43,8	=

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

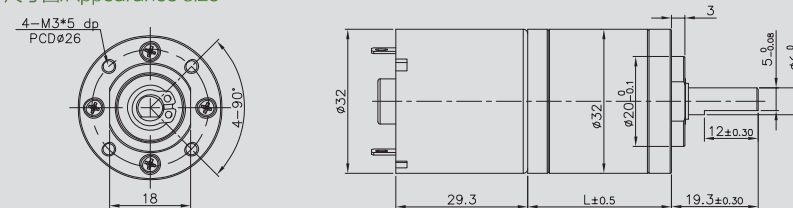
直流行星减速电机 Planetary gear DC motor PG32GR

适用范围/Scope of application

机器人 | 微型数控设备 | 自动取款机 | 柔巾机 | 遥控窗帘 | 舞台灯光
电动广告 | 家用电器 | 电视支架 | 自动执行器 | 可调角度望远镜 等等
Robot | Micro CNC Equipment | Automated Teller Machine | Soft
Tissue Machine | Remote Control Curtains | Stage Lighting | Electric
Advertising | Home Appliances | TV Stand | Auto Actuator |
Adjustable Price Telescope, etc.



外形尺寸图/Apearance size



减速机清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3,3,4,6	11,2,15,5,21,5	37,7,52,1,72,100	126,174,241,334,462	423,585,810,1120,1549,2142
齿轮箱长度 Gearbox length "L" mm	20.7	26.4	32.2	38	43.8
额定扭矩 Max.Running torque	10.0kgf·cm	20.0kgf·cm	50.0kgf·cm	50.0kgf·cm	50.0kgf·cm
损坏扭矩 Gear breaking torque	30.0kgf·cm	60.0kgf·cm	150.0kgf·cm	150.0kgf·cm	150.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
GR123400	12	3400	≤70	2950	≤140	30	0,9	242	≤0,76
GR127000	12	7000	≤140	5650	≤614	79,7	4,6	472	≤3,03
GR124500	12	4500	≤100	3600	≤260	48,9	1,8	261	≤1,1
GR244500	24	4500	≤60	3670	≤131	47,6	1,8	281	≤0,59
GR247000	24	7000	≤85	6000	≤280	70,6	4,4	455	≤1,54

注: 减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率; 输出转速=马达转速/减速比; 马达曲线图详见55、58、63页
本公司可定做各种非标产品, 如有需要请来电话咨询。
Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 48、58、63
Our company can customize a variety of non-standard products, please contact us.

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