

φ12mm

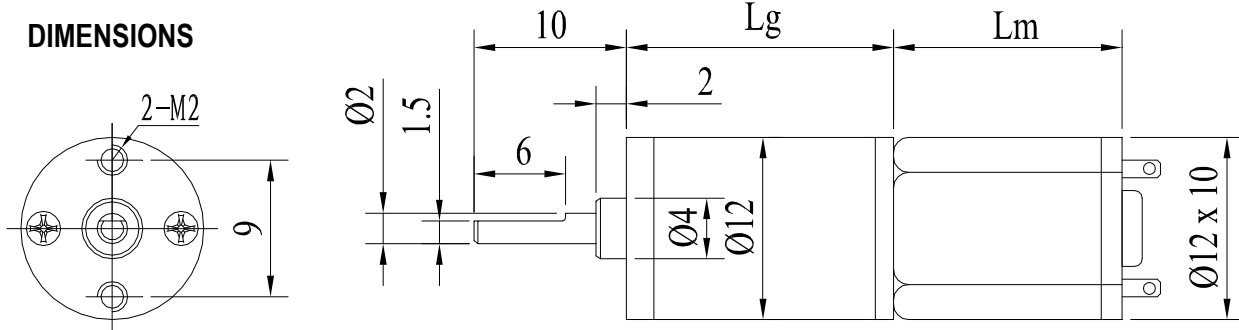
SPUR GEAR HEAD (正齿轮箱) w/  
12ZYT PM DC Motor (永磁直流马达)

● GEAR HEAD SPECIFICATIONS

Gear Ratio		Stage	Eff.	Rated Load	Max. Load	Length
减速比		级数	效率	额定负载	最大负载	长度
1:X		#	%	Kg.cm	Kg.cm	mm
24	30	4	66	0.5	1	11.2
40	60	5	59	0.6	1.2	12.6
120	150	6	53	0.75	1.5	14
300	375	7	48	1	2	16.3
750	937	8	43	1	2	17.7



● DIMENSIONS



● MOTOR SPECIFICATIONS

Model	Rated	No-load		Rated				Stall	Motor	
	Voltage	Current	Speed	Current	Speed	Torque	Power	Torque	Dia.	Length
	VDC	A	r/min	A	r/min	g.cm	W	g.cm	mm	mm
12ZYT15-03-121	3	0.045	12100	0.150	9600	1.9	0.187	9.4	12	15
12ZYT15-2.4-158	2.4	0.096	15800	0.330	12200	2.8	0.351	13	12	15
12ZYT20-2.5-52	2.5	0.019	5200	0.066	4000	1.8	0.074	8	12	20
12ZYT20-03-83	3	0.03	8320	0.115	6400	2.6	0.171	11	12	20

● GEAR MOTOR SPECIFICATIONS

12JA1K-xxxG/ 12ZYT15-03-121

Gear Ratio	24	30	40	60	75	120	150	188	300	375	469	750	938	1172
No-load speed (RPM)	504	403	303	201.7	161.3	101	80.7	64.4	40.3	32.3	25.8	16.1	12.9	10.3
Rated speed (RPM)	400	320	240	160.0	128.0	80	64.0	51.1	32.0	25.6	20.5	12.8	10.2	8.2
Rated load (Kg.cm)	0.03	0.04	0.04	0.07	0.08	0.12	0.15	0.19	0.27	0.34	0.43	0.62	0.77	0.96

12JA1K-xxxG/ 12ZYT15-2.4-158

Gear Ratio	24	30	40	60	75	120	150	188	300	375	469	750	938	1172
No-load speed (RPM)	658	527	395	263.3	210.7	132	105.3	84.0	52.7	42.1	33.7	21.1	16.8	13.5
Rated speed (RPM)	508	407	305	203.3	162.7	102	81.3	64.9	40.7	32.5	26.0	16.3	13.0	10.4
Rated load (Kg.cm)	0.04	0.06	0.07	0.1	0.12	0.18	0.2	0.28	0.40	0.50	0.63	0.91	1.0	1.0

12JA1K-xxxG/ 12ZYT20-2.5-52

Gear Ratio	24	30	40	60	75	120	150	188	300	375	469	750	938	1172
No-load speed (RPM)	217	173	130	86.7	69.3	43	34.7	27.7	17.3	13.9	11.1	6.9	5.5	4.4
Rated speed (RPM)	167	133	100	66.7	53.3	33	26.7	21.3	13.3	10.7	8.5	5.3	4.3	3.4
Rated load (Kg.cm)	0.03	0.04	0.04	0.1	0.1	0.11	0.1	0.2	0.3	0.3	0.4	0.6	0.7	0.9

12JA1K-xxxG/ 12ZYT20-03-83

Gear Ratio	24	30	40	60	75	120	150	188	300	375	469	750	938	1172
No-load speed (RPM)	347	277	208	138.7	110.9	69	55.5	44.3	27.7	22.2	17.7	11.1	8.9	7.1
Rated speed (RPM)	267	213	160	106.7	85.3	53	42.7	34.0	21.3	17.1	13.6	8.5	6.8	5.5
Rated load (Kg.cm)	0.04	0.05	0.06	0.1	0.12	0.17	0.2	0.26	0.37	0.47	0.59	0.84	1.0	1.0