

行星齒輪 (Planetary gear) (Helical gear type)

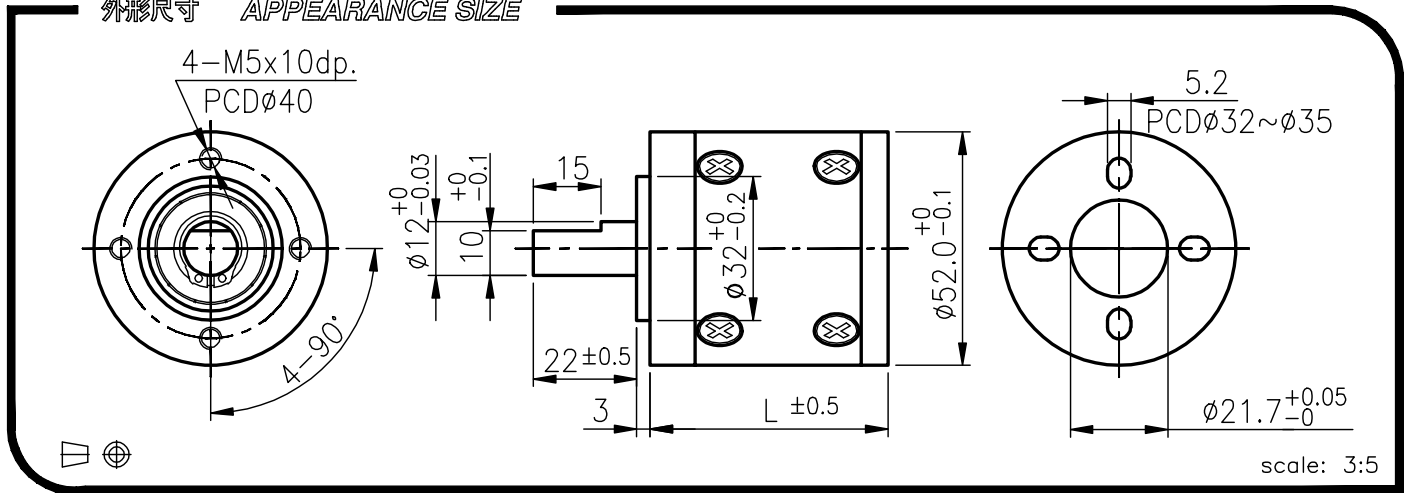
IG-52H
GEARHEAD
SERIES

IG-52H



外殼材質 Housing material	金屬 metal	背隙 (無負荷時) Backlash, at no-load	≤ 3°
輸出軸承型式 Bearing at output		滾珠軸承 Ball bearings	
徑向負荷 Radial load (10mm from flange)		≤ 20 kgf	
軸向負荷 Shaft axial load		≤ 10 kgf	
主軸最大承受壓力 Shaft press fit force, max.		≤ 30 kgf	
徑向間隙 Radial play of shaft		≤ 0.04 mm	
軸向間隙 Thrust play of shaft		≤ 0.3 mm	

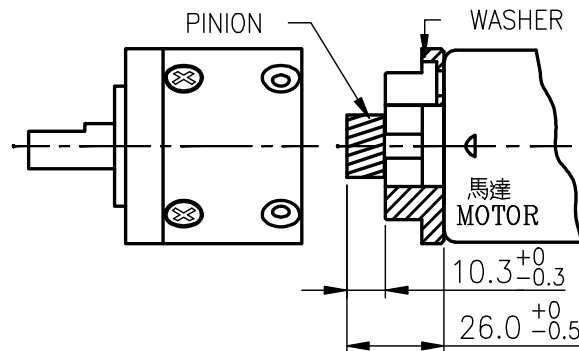
外形尺寸 APPEARANCE SIZE



馬達齒輪型式 / PINION SPECIFICATIONS

模數 Module	0.8	
齒數 No. of teeth	16	13
壓力角 Pressure angle	20°	
螺旋角 Helix angle	18°(左, left)	
孔徑 Hole diameter	φ6x4.5	
減速比 Reduction ratio	1/4, 1/13, 1/46 1/57, 1/98, 1/161	1/5, 1/15, 1/19, 1/67, 1/82 1/114, 1/207, 1/288, 1/357 1/494, 1/552, 1/684

馬達裝卸方法 / MOTOR INSTALLATION



標準減速比型式 / GEARBOXES SPECIFICATIONS

★ 使用相對溼度: 20%~85%RH ★ 使用溫度範圍: -10°C~+60°C
Operating relative humidity Operating temperature range

減速比 Reduction ratio	精確減速比 Exact reduction ratio	定格容許扭力 Rated tolerance torque	瞬間容許扭力 Max momentary tolerance torque	效率 Efficiency	L	重量 (滾珠軸承) Weight (g) Ball bearings
1/4,1/5	3 3/4, 4 5/13	6 kgf-cm Max.	18 kgf-cm	80%	53.0	445
1/13,1/15	13 1/8, 15 9/26	20 kgf-cm Max.	60 kgf-cm	70%	68.5	630
1/19	19	30 kgf-cm Max.	90 kgf-cm	70%	68.5	630
1/46,1/57	45 15/16, 56 7/8	50 kgf-cm Max.	150 kgf-cm	60%	84.0	820
1/67,1/82	66 1/2, 82 1/3	60 kgf-cm Max.	180 kgf-cm	60%	84.0	820
1/98,1/114	97 1/2, 114	80 kgf-cm Max.	240 kgf-cm	60%	84.0	820
1/161	160 25/32	100 kgf-cm Max.	300 kgf-cm	50%	99.5	990
1/207,1/288	207 9/52, 288 1/6	100 kgf-cm Max.	300 kgf-cm	50%	99.5	990
1/357,1/494	356 7/9, 494	100 kgf-cm Max.	300 kgf-cm	50%	99.5	990
1/552,1/684	552 6/13, 684	100 kgf-cm Max.	300 kgf-cm	50%	99.5	990

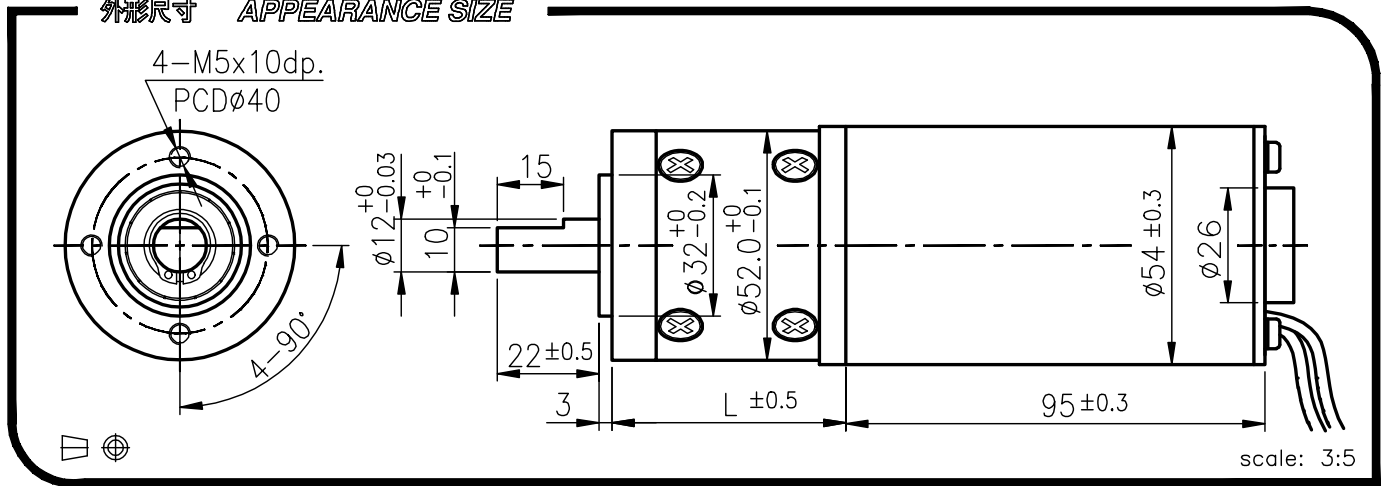
IG-52HGM

03&04 TYPE



REDUCTION RATIO	L	REDUCTION RATIO	L
1/4	53.0	1/46~1/114	84.0
1/13~1/19	68.5	1/161~1/684	99.5

外形尺寸 APPEARANCE SIZE



GEARED MOTOR TORQUE/SPEED

減速比 Reduction ratio		1/4	1/13	1/15	1/19	1/46	1/57	1/67	1/82	1/98	1/114	1/161	1/207	1/288	1/357	1/494	1/552	1/684		
12V	定格扭力(Kg-cm) Rated torque	2.7	8	9.5	11	24	30	35	44	52	61	72	93	100	100	100	100	100		
	定格回轉數(rpm) Rated speed	960	275	235	190	78	63	54	44	37	31.7	22.5	17.4	12.7	10.5	7.6	6.7	5.5		
24V	定格扭力(Kg-cm) Rated torque	3.9	11	13	17	35	44	51	64	76	88	100	100	100	100	100	100	100		
	定格回轉數(rpm) Rated speed	940	270	230	186	77	62	53	43	36	31.1	22	17.3	12.7	10.5	7.6	6.7	5.5		

馬達單體型式 / MOTOR DATA

定格電壓 Rated volt (V)	定格扭力 Rated torque (g-cm)	定格回轉數 Rated speed (rpm)	定格電流 Rated current (mA)	無負荷回轉數 No load speed (rpm)	無負荷電流 No load current (mA)	定格出力 Rated output (W)	重量 Weight (g)
12	900	3620	≤ 4100	4000	≤ 1200	33.5	920
24	1300	3550	≤ 2850	4000	≤ 700	48.6	920

馬達單體特性圖 / MOTOR CHARACTERISTICS

