PGRJ-SERIES

產品特點Product Features



齒輪箱和内環齒輪採一體式設計,結構緊湊、精密度高、輸出扭矩大。 Gear box and internal ring gear are integrated designed, diameter



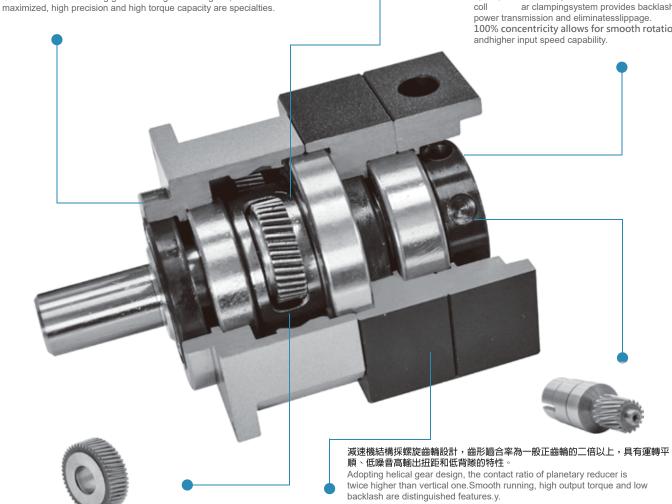
行星臂架與輸出軸採一體式的設計結構,確保最大耐扭力剛性及穩定性。

1) 宝月末交換加速制が、最近が30%日が日本 / 唯日本最久で3000元月が11元後が Integrated design of planet cearrier and output shaft ensures the maximum torque stiffness and stability.



輸入端與馬達的連結機構,採用筒夾式的鎖緊經 動平衡分析,以確保在高輸入轉速下結合介面同 心度和零背隙的動力傳遞。

riple split collet with dynamic balanced set ar clampingsystem provides backlash free power transmission and eliminatesslippage. 100% concentricity allows for smooth rotation



齒輪材質選用鉻鉬釟合金鋼,經調質熱處理至基材硬度 HRC25 度,在利用氣體氮化方式將齒輪表面硬度提昇至 600HV,以獲得

To gain the best abrasion performance and impact resistance · Chromium Molybdenum Vanadium Alloy steel is selected as raw material. Accompany with quenching and tempering heat treatment process • the core hardness is increased to 25 HRC. Accompany with plasma nitriding heat treatment process · the surface hardness is increased to 600 HV.



馬達連接板和襯套採模組化設計,適用於任何廠牌、

Motor adapter and bushing module are modularized designed · which applied to types of servomotors.

減速機性能資料 Reducer Performance Information

規格 Model NO.	單位 Unit	節數 Stage	減速比 Ratio	42	60	90	115	142	180			
			3	21	57	135	216	352	603			
			4	20	52	145	298	552	1065			
			5	23	62	165	338 318	660	1215			
		L1	6 7	21 20	57 52	155 145	308	610 560	1115 1115			
			8	18	47	125	268	510	1015			
			9	15	42	105	238	460	915			
			10	15	42	105	238	460	915			
			15	21	57	135	216	352	603			
額定輸出力矩 T _{2N}	Nm		20	20	52	145	298	552	1065			
Rated Output Torque			25	23	62	165	338	660	1215			
			30	21	57	155	318	610	1115			
			35	20	52	145	308	560	1115			
		L2	40	18	47	125	268	510	1015			
			50	23	62	165	338	660	1215			
			60	21	57	155	318	610	1115			
			70	20	52	145	308	560	1115			
			80 90	18 15	47 42	125 105	268 238	510 460	1015 915			
			100	15	42	105	238	460	915			
最大輸入轉速 n _{1B} Max. Input Speed	rpm	L1 / L2	3~100	10,000	10,000	8,000	8,000	6,000	6,000			
額定輸入轉速 n _{1N} Rated Input Speed	rpm	L1 / L2	3~100	5,000	5,000	4,000	4,000	3,000	3,000			
132 V44 HM 00/12		L1	3~10	<0								
標準背隙	arcmin			≦8								
Backlash		L2	15~100			≦	12					
最大加速扭矩T ₂₈ Max. Acceleration Torque	Nm	L1 / L2	3~100	1.8倍額定輸出力矩/ 1.8 Times of nominal output torque								
最大輸出(急停)扭矩 T _{2NOT} Max. Output(Emergency Stop)Torque	Nm	L1 / L2	3~100	3倍額定輸出力矩/ 3 Times of nominal output torque								
扭轉剛性 Torsional Rigidity	Nm / arcmin	L1 / L2	3~100	3 7 14 25 50 145								
容許徑向力 F _{2rB} Max. Radial Force	N	L1 / L2	3~100	780	1,530	3,250	6,700	9,400	14,500			
容許軸向力F _{2rB} Max. Axial Force	N	L1 / L2	3~100	390	765	1,625	3,350	4,700	7,250			
使用壽命 Service Life	hr	L1 / L2	3~100	S5週期運轉> 20,000; (S1連續運轉> 10,000 hrs) S5 Cycle Operation; > 20,000 (S1 Continuous Operation; > 10,000 hrs)								
使用溫度 Operation Temperature	°C	L1 / L2	3~100	-25°C - 90°C								
效率 η Efficiency	%	L1	3~10	≦97								
		1.2	15~100									
		L2	15~100	≦94								
潤滑 Lubrication		L1 / L2	3~100	合成潤滑油脂/ Synthetic Lubrication Grease								
噪音值 Noise Level	dB	L1	3~10	≦56	≦60	≦63	≦63	≦65	≦67			
									< 0.7			
		L2	15~100	≦56	≦60	≦63	≦63	≦65	≦67			
防護等級 Protection Class	IP	L1 / L2	3~100	IP 65								
安裝方向 Mounting Position		L1 / L2	3~100	任意方向 / Any direction								
重量		L1	3~10	0.5	1,2	3.5	7.5	15.5	38			
里里 Weight	kg	L2	15~100	0.8	1,8	5,2	11,2	22,5	48			
vveignt		LZ	13-100	0.0	1.0	J.2	11.4	22.5	40			

減速機轉動慣量

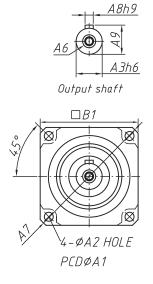
Reducer Moment of inertia

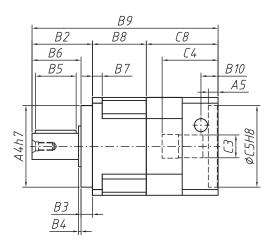
規格 Model NO.	單位 Unit	節數 Stage	減速比 Ratio	42	60	90	115	142	180
			3	0.03	0.16	0.61	3.25	9.21	28.98
			4	0.03	0.14	0.48	2.74	7.54	23.67
			5		0.13	0.47	2.71	7.42	23.29
		L1	6	0.03	0.13	0.45	2.65	7.25	22.75
			7	0.03	0.13	0.45	2.62	7.14	
			8	0.03	0.13	0.44	2.58	7.07	
			9	0.03	0.13	0.44	2.57	7.04	28.98 23.67 23.29 22.75 22.48 22.59 22.53 22.51 7.42 7.42 7.42 7.42 7.42 7.03 7.03 7.03 7.03
			10	0.03	0.13	0.44	2.57	7.03	
		l	15	0.03	0.03	0.13	0.47	2.71	23.67 23.29 22.75 22.48 22.59 22.53 22.51 7.42 7.42 7.42 7.42 7.42 7.03 7.03
轉動慣量 J。	kg.cm ²		20	0.03	0.03	0.13	0.47	2.71	
村到以至可	Kg.ciii		25	0.03	0.03	0.13	0.47	2.71	
			30	0.03	0.03	0.13	0.47	2.71	
		l	35	0.03	0.03	0.13	0.47	2.71	
		L2	40	0.03	0.03	0.13	0.47	2.71	
		L2	50	0.03	0.03	0.13	0.44	2.57	
		l	60	0.03	0.03	0.13	0.44	2.57	
			70	0.03	0.03	0.13	0.44	2.57	
		l	80	0.03	0.03	0.13	0.44	2.57	
			90	0.03	0.03	0.13	0.44	2.57	
			100	0.03	0.03	0.13	0.44	2.57	7.03

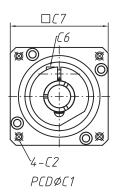
MODEL: PGRJ SERIES

1-Stage (Ratio:3~10)









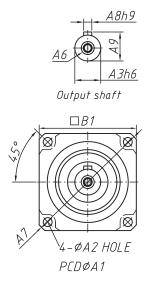
Unit: mm

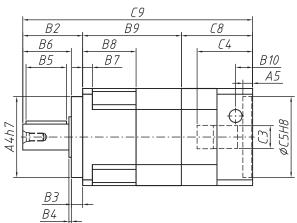
Model	42	60	90	115	142	180
Code						
A1	50	70	100	130	165	215
A2	3.5	5.5	6.5	8.5	10.5	13.5
A3	13	16	22	32	40	55
A4	35	50	80	110	130	160
A5	6	6	7.5	22.5	11	12
A6	M4 X P0.7	M5 X P0.8	M8 X P1.25	M12 X P1.75	M16 X P2.0	M20 X P2.5
A7	56	80	116	148	185	240
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	42.6	60	90	115	142	180
B2	25.8	37	48	65	97	104.5
B3	5.5	7	10	12	15	20
B4	1.6	1.5	1.5	2	3	2.5
B5	15	25	30	40	63	70
B6	20.5	30	38	53	82	84.5
B7	4	6	8	10	12	16
B8	28.3	33	43	54	72	87.5
B9	88.65	114	138	190	251	292
B10	11	13.5	14	15	23	27.5
C1	46	70	90	145	165	200
C2	M4 X P0.7	M5 X P0.8	M6 X P1.0	M8 X P1.25	M10 X P1.5	M12 X P1.75
C3	8	14,19	19,24	24,28	35,42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 X P0.5	M5 X P0.8	M6 X P1.0	M8 X P1.25	M10 X P1.5	M12 X P1.75
C7	42.6	60	90	130	142	180
C8	34.35	44	47	71	82	100

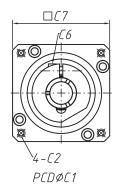
MODEL: PGRJ SERIES

2-Stage (Ratio:15~100)









Unit: mm

Model						
Code	42	60	90	115	142	180
A1	50	70	100	130	165	215
A2	3.5	5.5	6.5	8.5	10.5	13.5
A3	13	16	22	32	40	55
A4	35	50	80	110	130	160
A5	6	6	7.5	22.5	11	12
A6	M4 X P0.7	M5 X P0.8	M8 X P1.25	M12 X P1.75	M16 X P2.0	M20 X P2.5
A7	56	80	116	148	185	240
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	42.6	60	90	115	142	180
B2	25.8	37	48	65	97	104.5
B3	5.5	7	10	12	15	20
B4	1.6	1.5	1.5	2	3	2.5
B5	15	25	30	40	63	70
В6	20.5	30	38	53	82	84.5
B7	4	6	8	10	12	16
B8	28.3	33	43	54	72	87.5
В9	54.3	61	83	102	123	177.5
B10	11	13.5	14	15	23	27.5
C1	46	70	90	145	165	200
C2	M4 X P0.7	M5 X P0.8	M6 X P1.0	M8 X P1.25	M10 X P1.5	M12 X P1.75
C3	8	14,19	19,24	24,28	35,42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 X P0.5	M5 X P0.8	M6 X P1.0	M8 X P1.25	M10 X P1.5	M12 X P1.75
C7	42.6	60	90	130	142	180
C8	34.35	44	47	71	82	100
C9	114.65	142	178	238	312	382