

HK series

HK

Indication of Model Numbers

機種型號表示

減速機機型 Type	型號 Model	出力表示 Output	軸承形式 Bearing	速比 Ratio	背隙等級 Backlash Class
HK	64 90 110 140 200		B : 滾珠軸承 Ball Bearing T : 滾錐軸承 Taper Bearing	5 10 15	P0 ≤ 3 P1 ≤ 6 P2 ≤ 9



Characteristic of HK Series

HK 系列產品特性

單段減速機 1-Stage

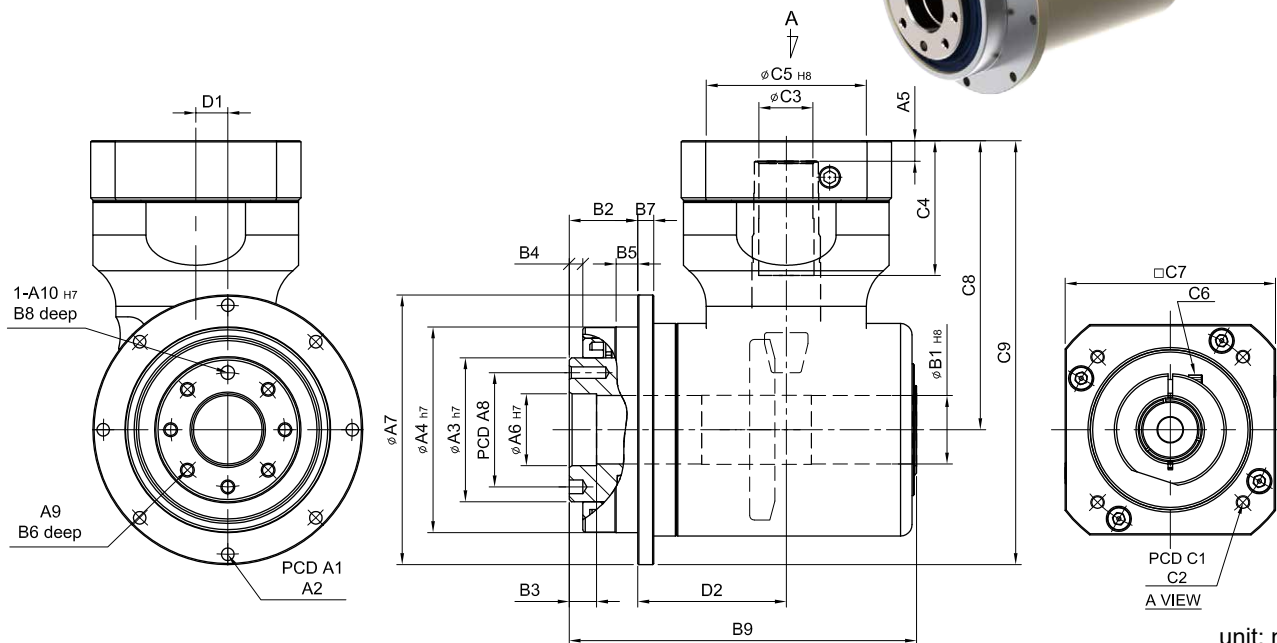
規格 Parameter	Code	Unit	Ratio	64	90	110	140	200
額定輸出扭矩 / Rated Output Torque (Nominal output torque)	T_{2N}	Nm	5	30	70	140	260	720
			10	25	60	117	220	615
			15	20	50	95	180	510
最大加速扭矩 / Max. Acceleration Torque	T_{2B}	Nm	5~15	1.5 倍額定輸出扭矩 1.5 Times of Rated Output Torque				
最大輸出扭矩 / Max. Output Torque 急停扭矩 / Emergency Stop Torque	T_{2NOT}	Nm	5~15	3 倍額定輸出扭矩 3 Times of Rated Output Torque				
額定輸入轉速 / Rated Input Speed	n_{1N}	rpm	5	2,200	1,800	1,500	1,150	700
			10	3,300	2,700	2,200	1,800	1,200
			15	4,000	3,300	2,800	2,300	1,600
最大輸入轉速 / Max. Input Speed	n_{1B}	rpm	5~15	6,000	5,000	4,000	3,000	3,000
背隙 / Backlash	J_t	arcmin	P0	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
			P1	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
			P2	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
容許徑向力 / Max. Radial Force 滾珠軸承 Ball Bearing	F_{2rB}	N	5~15	1,040	2,366	3,900	5,837	7,020
容許軸向力 / Max. Axial Force 滾珠軸承 Ball Bearing	F_{2aB}	N	5~15	520	1183	1950	2919	3,510
容許徑向力 / Max. Radial Force 滾錐軸承 Taper Bearing	F_{2rB}	N	5~15	3,370	6,920	11,300	17,300	20,200
容許軸向力 / Max. Axial Force 滾錐軸承 Taper Bearing	F_{2aB}	N	5~15	1,685	3,460	5,650	8,650	10,100
使用壽命 / Service Life	L_H	hr	5~15	S5 周期運轉 Cycle Operation: >30,000				
效 率 / Efficiency	η	%	5	≥ 96%				
			10~15	≥ 93%				
使用溫度 / Operating Temperature		°C	5~15	-10°C ~ +90°C				
潤 滑 / Lubrication			5~15	全合成潤滑油 Synthetic Oil				
噪 音 值 / Noise Level		dB	5~15	≤ 66	≤ 67	≤ 68	≤ 69	≤ 70

轉動慣量 Mass Moments of Inertia (kgcm²)

Ratio	64	90	110	140	200
5	0.23	0.58	1.41	4.00	13.53
10	0.15	0.38	1.00	2.46	7.38
15	0.13	0.34	0.81	2.07	5.76

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RATIO : 5.10.15 (單段 1-Stage)



unit: mm

A	Model Code	64	90	110	140	200
	A1	79	109	135	168	233
	A2	8-4.5	8-5.5	8-5.5	12-6.6	12-9.0
	A3 h7	40	63	80	100	160
	A4 h7	64	90	110	140	200
	A5	5	6	9	10	10
	A6 H7	20	31.5	40	50	80
	A7	86	118	146	179	248
	A8	31.5	50	63	80	125
	A9	7-M5 x P0.8	7-M6 x P1.0	11-M6 x P1.0	11-M8 x P1.25	11-M10 x P1.5
	A10 H7	5	6	6	8	10
B	B1 H8	15	30	30	40	55
	B2	18.5	30	29	38	50
	B3	10	12	12	12	16
	B4	3	6	6	6	8
	B5	9.5	10	10	15	15
	B6	10	12	12	16	22
	B7	5	7	8	10	12
	B8	6	6	7	7	10
	B9	102.5	152	168	200	260
C	C1	46·60·63	90·110·115·145	115·145·165	115·145·165	145·165·200
	C2	M3·M4·M5	M5·M6·M8	M6·M8·M10	M6·M8·M10	M8·M10·M12
	C3	11	19·24	24·32	28·35	38·42
	C4	26	59	67	82	84.5
	C5 H8	30·40·50	70·80·95·110	95·110·130	95·110·130	110·130·180
	C6	M3 x P0.5	M6 x P1.0	M8 x P1.25	M8 x P1.25	M10 x P1.5
	C7	46·55	92·110·130	122·130·150	122·130·150	146·150·190
	C8	69	126.5	149	179	228
	C9	112	185.5	222.5	268.5	352.5
	C10	1/8"PT	1/8"PT	1/4"PT	1/4"PT	1/4"PT
D	D1	9	14	18	23	32
	D2	43.5	65	77	90	117
Weight ±3% (kg)		1.55	5.26		17	39.3