

HK series

HK

Indication of Model Numbers

HK		64		B	5	P0	
Type	Model	Output	Bearing	Ratio	Backlash Class	Motor Type	
HK	64 90 110 140 200		B : Ball Bearing (64#~140#) T : Taper Bearing (200#)	5 10 15	P0 ≤ 3 P1 ≤ 6 P2 ≤ 9		



Characteristic of HK Series

HK

HK

1-Stage

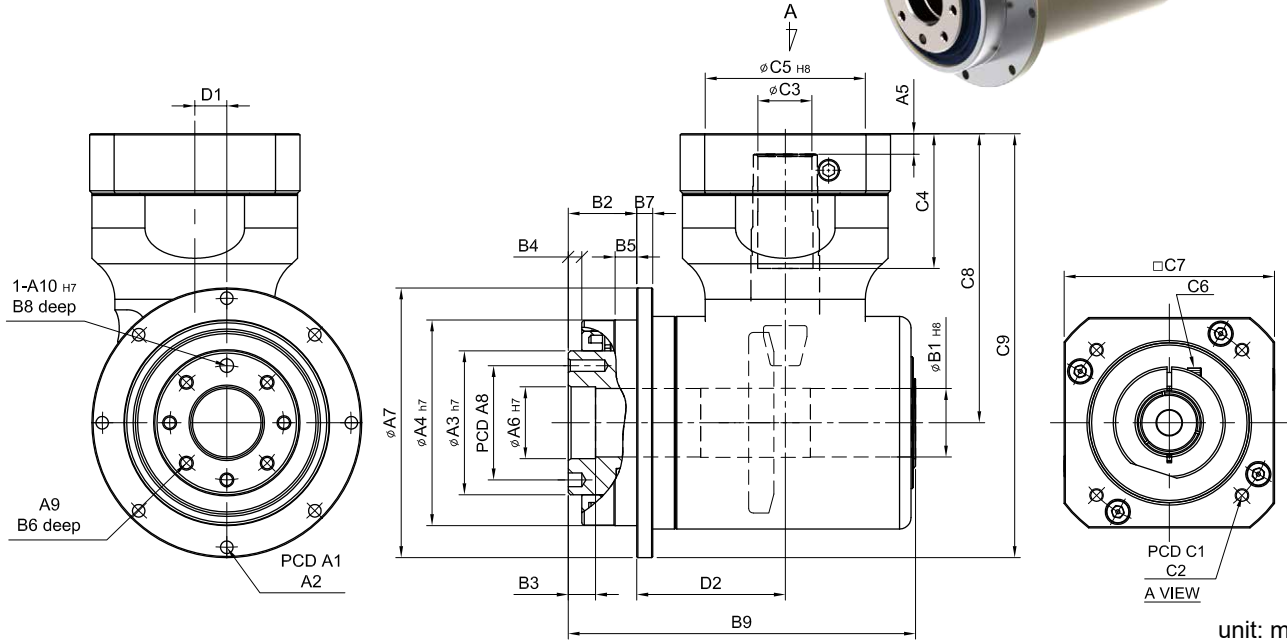
Model No.		Unit	Ratio	64	90	110	140	200
/ Rated Output Torque (Nominal output torque)	T_{2N}	Nm	5	30	70	140	260	720
			10	25	60	117	220	615
			15	20	50	95	180	510
/ Max. Acceleration Torque	T_{2B}	Nm	5~15	1.5 Times of Rated Output Torque				
/ Max. Output Torque / Emergency Stop Torque	T_{2NOT}	Nm	5~15	3 Times of Rated Output Torque				
/ Rated Input Speed	n_{IN}	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
/ Max. Input Speed	n_{IB}	rpm	5~15	6,000	5,000	4,000	3,000	3,000
/ Backlash	J_t	arcmin	P0	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
			P1	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
			P2	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
/ Max. Radial Force Ball Bearing	F_{2rB}	N	5~15	1,040	2,366	3,900	5,837	-
/ Max. Axial Force Ball Bearing	F_{2aB}	N	5~15	520	1183	1950	2919	-
/ Max. Radial Force Taper Bearing	F_{2rB}	N	5~15	-	-	-	-	14,420
/ Max. Axial Force Taper Bearing	F_{2aB}	N	5~15	-	-	-	-	7,210
/ Service Life	L_{Ht}	hr	5~15	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)				
/ Efficiency	η	%	5	≥ 96%				
			10~15	≥ 93%				
/ Operating Temperature		°C	5~15	-10°C ~ +90°C				
/ Lubrication			5~15	Synthetic Oil				
/ Noise Level		dB	5~15	≤ 66	≤ 67	≤ 68	≤ 69	≤ 70

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 (1-Stage)



unit: mm

Model Code	64	90	110	140	200	
A	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	104.5	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						