

Taper Size	HSK-E40
Speed	30000 rpm
Rotation	Right
Bearings Lubrication	Dil-Air
Vibration Level	ISD 1940 GI
Spindle Weight	27 kg
Spindle Clamping Force	Liquid
Spindle Cooling	

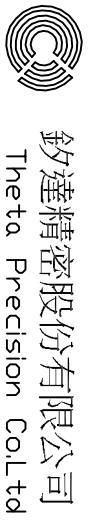
WA1	Spindle cooling in ≤ 4 bar	PT1/4- $\phi 10 \times 7.5$ mm
WA2	Spindle cooling out	PT1/4- $\phi 10 \times 7.5$ mm
AS	Air Seal(Air purge) 1 bar	PT1/8- $\phi 6$ mm
CL	Spindle taper cleaning 1 bar	PT1/8- $\phi 8$ mm
TD	Tool out(clamping)-Oil In	PT1/8-P1/4W/60-100 bar.50c.c.
TI	Tool In(clamping)-Air In	PT1/8- $\phi 8$ mm,5-8 bar
DA1	Spindle oil-air lubrication 0.8-1 bar	PT1/8- $\phi 6$ mm
DA2	Spindle oil-air lubrication 0.8-1 bar	PT1/8- $\phi 6$ mm
D/A RET1	Spindle grease lubrication back	PT1/4- $\phi 8$ mm
D/A RET2	Spindle grease lubrication back	PT1/4- $\phi 8$ mm
SNR1	Spindle CLDSED-LDDP Signal connector 17 pin	
SNR2	Tool position Signal connector 12 pin	
PWR	Electrical connection	

SNR1 17Pin	1 White	Channel A+	1 Brown	+24V
	2 Brown	Channel A-	2 Blue	0V
	3 Grey	Index+	3 Black	Tool In
	4		4 Black	Tool out
	5		5 Black	No tool
	6		6 Red	TSI
	7 Blue	0V	7 White	TSI
	8 Brown	KTY+	8 Red	TSI
	9 White	KTY-	9 White	TSI
	10 Red	+SV	10	
	11 Pink	Channel B+	11	
	12 Black	Channel B-	12	
	13 Yellow	Index-		Shield
	14			
	15	0V Sense		
	16	+SV Sense		
	17	Shield		

U	Black	A
V	Brown	B
W	Blue	C
PE	Green	D

Motor Data					
S1-100%			S6-40%		
Voltage(V)	300	400	400	300	400
Current(A)	30	24	23	39	31
Frequency(Hz)	600	820	1000	600	820
Speed(*10 ³ rpm)	17.6	24.3	29.6	17.6	24.3
Power(kW)	10	10	10	13	13
Torque(Nm)	5.4	3.9	3.0	7.1	5.1
N of poles	4				

Surface Texture Symbol	Tolerance Zone		Project
	Size Range	IT 12 Grade	
▽▽▽▽	0~6	±0.05	Change Content
▽▽▽▽	6~30	±0.1	Date
▽▽▽	30~100	±0.15	Name
▽▽	100~300	±0.2	
▽	300~1000	±0.3	
~	1000~3000	±0.5	



Drawing Number	A01210000001	Designed	James
Image Name	Spindle Confirmation Chart	Checked	Liao
Model	TH-120.0130H4H00L1	Approved	James

Material	Quantity	1	Date	18-11-26
Surface Treatment	Unit	mm	Scale	1 : 1
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