



SPINDEX TECHNOLOGIES CO., LTD.

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Technical Specifications for Built-In Motor-Spindle

Spindle type : SY-120

1. Spindle housing diameter (mm) and mounting:	Ø120h6 Vertical or horizontal
2. Maximum speed (rpm) :	35,000rpm-(Oil/Air) 25,000rpm-(Grease)
3. Nominal speed:	18,000rpm
4. Motor type:	integrated induction motor
5. Motor power S1/S6 (Kw) :	11.5/17Kw
6. Motor voltage / poles :	380v/4 or 220v/4
7. Spindle torque at power S1/S6(Nm):	4.7/7.0Nm
8. Shaft orientation Encoder (Vector control):	mini-encoder with sinusoidal wave signal 1.0 Vpp , for vector drive and oriented spindle stop
9. Bearing type:	hybrid bearing
10. Front bearing inner diameter(mm):	Ø40mm(HSK-E40) / Ø45mm(BT-30)
11. Bearing preloading :	constant springs preload
12. Bearing lubrication:	life time grease / Oil/Air
13. Bearing temperature sensor :	sensor on the front bearing (option-PT100)
14. Tool interface:	HSK-E40 (DIN69893) BT-30
15. Clamping capacity :	Ø2~20mm
16. Tool holding force(N) :	6,800N - HSK-E40 3,500N – BT-30
17. Tool release :	hydraulic (standard) 2 ATC sensors
18. Motor cooling :	water with additive
19. Spindle cooling (Kcal/h) :	3,000 Kcal/h
20. Coolant through shaft :	N/A
21. Converter nominal power(KVA) :	15 KVA
22. Spindle weight :	25Kgs



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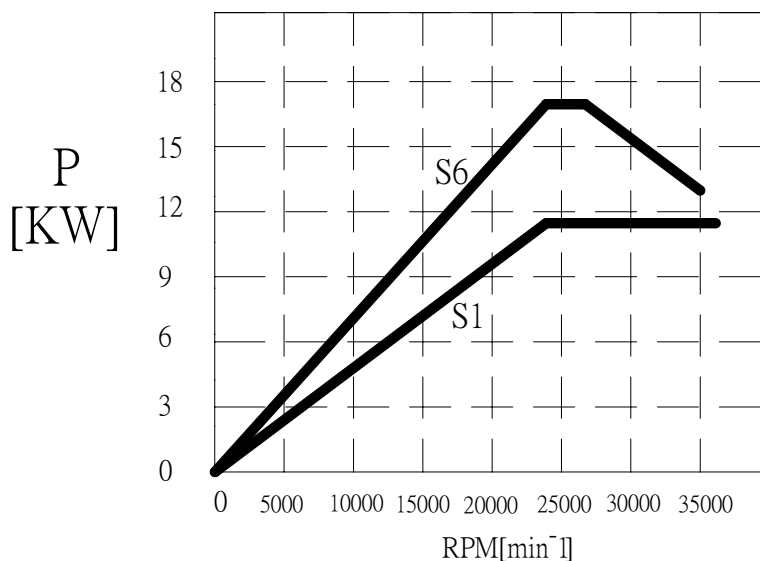
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Power and Torque-diagram for Built-In Motor-Spindle

POWER



TORQUE

