



SPINDLEX TECHNOLOGIES CO., LTD.

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Technical Specifications for Built-In Motor-Spindle

Spindle type : SY-170-1

1. Spindle housing diameter (mm) and mounting:	Ø170h6 vertical or horizontal
2. Maximum speed (rpm) :	24,000rpm – HSK-A63 20,000rpm – BBT-40
3. Nominal speed:	10,000rpm
4. Motor type:	integrated induction motor
5. Motor power S1/S6 (Kw) :	30/40Kw
6. Motor voltage / poles :	380v/4 or 220v/4
7. Spindle torque at power S1/S6(Nm):	29/38.2Nm
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):	Ø65mm
11. Bearing preloading :	constant springs preload
12. Bearing lubrication:	minimum quantity Oil/Air lubrication system
13. Bearing temperature sensor :	sensor on the front bearing (option)
14. Tool interface:	HSK-A63 (DIN69893) BBT-40 (JISB6340-1992 MAS-P40T-1 (45°))
15. Clamping capacity :	Ø2~25mm
16. Tool holding force(N) :	18,000N-HSK 10,500N-BBT
17. Tool release :	hydraulic (standard) 3 ATC sensors
18. Motor cooling :	water with additive
19. Spindle cooling (Kcal/h) :	6,000 Kcal/h
20. Coolant through shaft :	cooling through the center(option)
21. Converter nominal power(KVA) :	45 KVA
22. Spindle weight :	65Kgs



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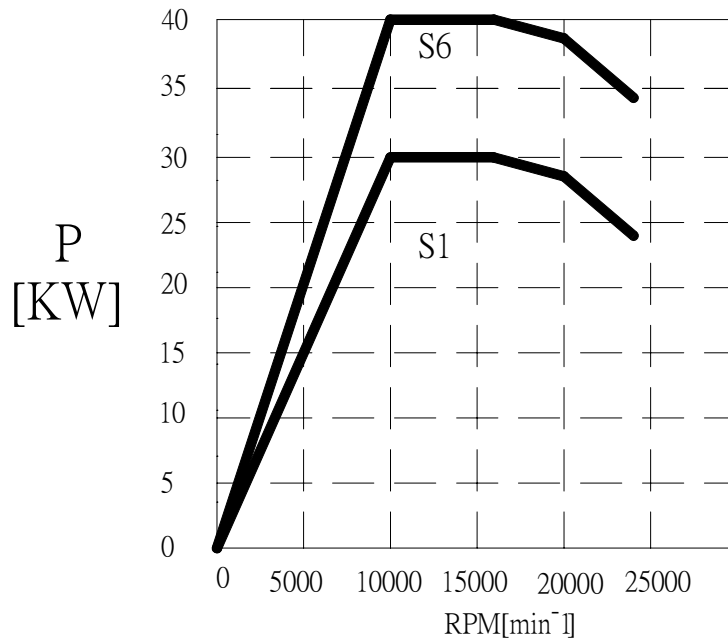
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Power and Torque-diagram for Built-In Motor-Spindle

POWER



TORQUE

