



## SPINDLEX TECHNOLOGIES CO., LTD.

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### Technical Specifications for Built-In Motor-Spindle

#### Spindle type : SY-140

1. Spindle housing diameter (mm) and mounting:	Ø140h6 vertical or horizontal
2. Maximum speed (rpm) :	30,000rpm - Oil/Air
3. Nominal speed:	22,000rpm
4. Motor type:	integrated induction motor
5. Motor power S1/S6 (Kw) :	15/17Kw
6. Motor voltage / poles :	380v/4 or 220v/4
7. Spindle torque at power S1/S6(Nm):	6.6/7.4Nm
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):	Ø50mm
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-E50 (DIN69893)
15. Clamping capacity :	Ø2~20mm
16. Tool holding force(N) :	11,000N - HSK-E50
17. Tool release :	hydraulic (standard) 3 ATC sensors
18. Motor cooling :	water with additive
19. Spindle cooling (Kcal/h) :	4,500 Kcal/h
20. Coolant through shaft :	N/A
21. Converter nominal power(KVA) :	24 KVA
22. Spindle weight :	40Kgs



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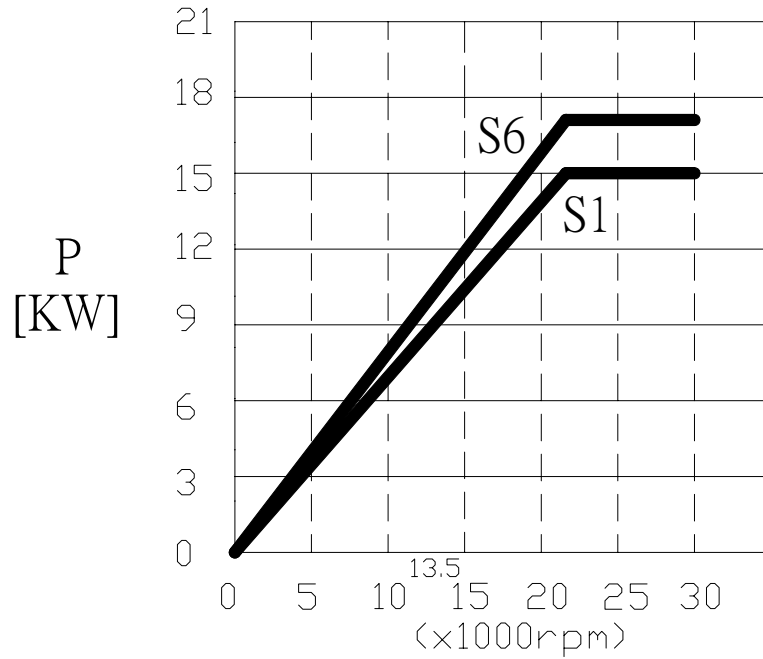
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### Power and Torque-diagram for Built-In Motor-Spindle

POWER



TORQUE

