



## SPINDLEX TECHNOLOGIES CO., LTD.

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

#### Spindle type : SY-240

1. Spindle housing diameter (mm) and mounting:	Ø240h6 vertical or horizontal
2. Maximum speed (rpm) :	12,000rpm – HSK-A100 12,000rpm – BBT-50
3. Nominal speed:	1,500rpm
4. Motor type:	FANUC Built-In Motor
5. Motor power S1/S6 (Kw) :	18.5/22Kw
6. Motor voltage / poles :	220v/4
7. Spindle torque at power S1/S6(Nm):	95/118Nm
8. Shaft orientation Encoder (Vector control):	FANUC-encoder
9. Bearing type:	hybrid bearing
10. Front bearing inner diameter(mm):	Ø100mm
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-A100 (DIN69893) BBT-50 (JISB6340-1992 MAS-P50T-1 (45°))
15. Clamping capacity :	Ø3~32mm
16. Tool holding force(N) :	45,000N-HSK 15,000N-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) :	
22. Spindle weight :	220Kgs



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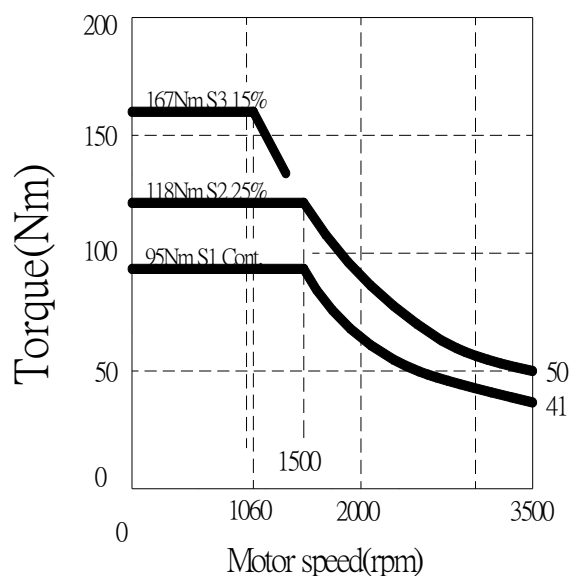
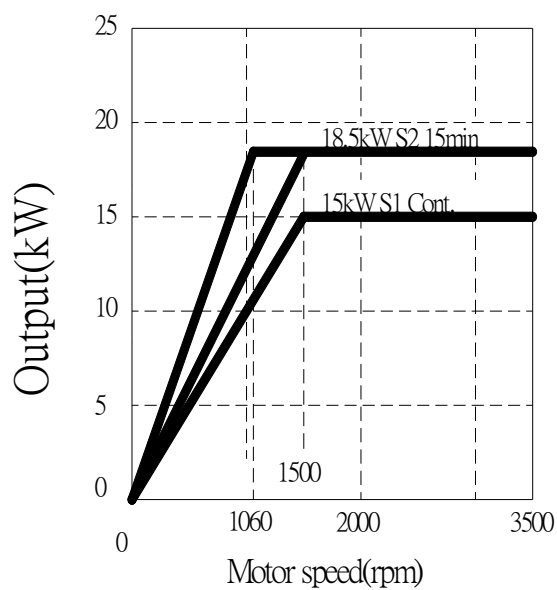
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## Spindle type : SY-240

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

#### Low winding





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## High Winding

