



## SPINDLEX TECHNOLOGIES CO., LTD.

No. 21, Ln. 204, Zhongxing N. ST., Sanchong Dist.,  
New Taipei City 241, Taiwan (R. O. C.)

TEL : +886-2-29950267

E-mail:[spindlex@ms34.hinet.net](mailto:spindlex@ms34.hinet.net)

FAX : +886-2-29958334

Web:<http://www.spindlex.com.tw>

### Technical Specifications for Built-In Motor-Spindle Spindle type : SY-45

1. Spindle housing diameter (mm) and mounting:	Ø45h6 vertical or horizontal
2. Maximum speed (rpm) :	50,000rpm - Grease
3. Nominal speed:	-----
4. Motor type:	integrated induction motor
5. Motor power S1/S6 (Kw) :	0.45/0.55Kw
6. Motor voltage / poles :	220v/2
7. Spindle torque at power S1/S6(Nm):	0.1/0.12Nm
8. Shaft orientation Encoder (vector control):	N/A
9. Bearing type:	hybrid bearing
10. Front bearing inner diameter(mm):	Ø17mm
11. Bearing preloading :	constant springs preload
12. Bearing lubrication:	life time grease
13. Bearing temperature sensor :	N/A
14. Tool interface:	SD-6
15. Clamping capacity :	Ø3~6mm
16. Tool release :	manual
17. Motor cooling :	water with additive
18. Spindle cooling (Kcal/h) :	1,000 Kcal/h
19. Coolant through shaft :	N/A
20. Converter nominal power(KVA) :	2.22 KVA
21. Spindle weight :	1.8Kgs



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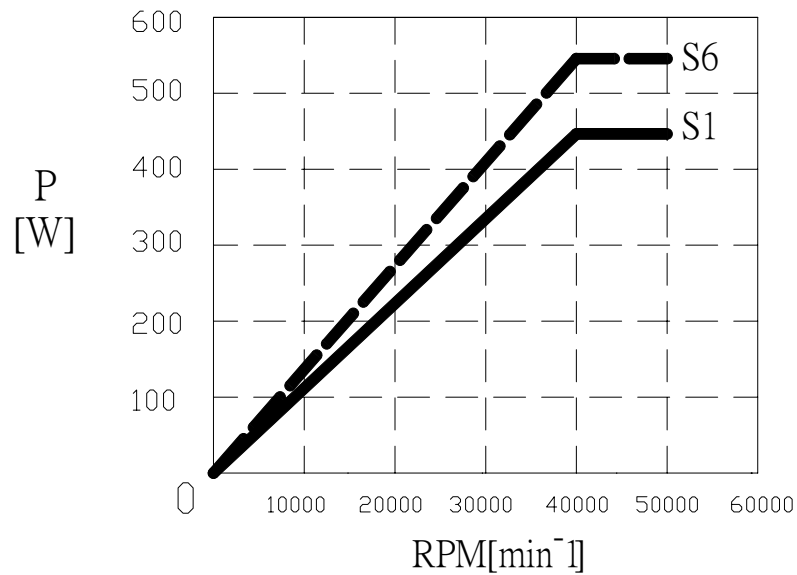
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### Power and Torque-diagram for Built-In Motor-Spindle

POWER



TORQUE

