

Technical Specifications for Colibri - Motor Spindles:

ALB: HF 80 L 1 S 100

◆ Speed Range	: Up to 100,000 rpm (No load –120,000)
◆ Continuous Power (S1)	: 1650 W (S6 40% 2800 W)
◆ Peak Power	: 9850 W
◆ Torque (S1)	: 0.16 Nm at 100,000 rpm, (S6 40% 0.23 Nm)
◆ Peak Torque	: 1.4 Nm
◆ Stiffness	: Radial 6 N/μm, axial 5 N/μm → static
◆ Load Capacity	: Radial 95 N, axial 100 N → static
◆ Noise Level	: Less than 75 db (A)
◆ Air Pressure	: 5-6 bar
◆ Air Consumption	: 40-60 Lpm
◆ Tool Holding	: Collet, Type D8
◆ Tool diameter	: Up to 5 [mm]
◆ Tool release	: Manual
◆ Mounting	: Horizontal to Vertical, any Position
◆ Motor technology	: DC Brushless
◆ Guarantee	: 24 month
◆ Cooling System	: Water cooling, (Max 3.5 Lpm at 5 bar)
◆ Run-out Radial	: 0.2 – 0.5 μm
◆ Run-out Axial	: 0.2 – 0.5 μm
◆ Spindle Weight	: 9 Kg
◆ Spindle connections	: <ul style="list-style-type: none">• 2 quick release connectors for the air system• 2 quick release connectors for the water cooling system• Power cable – D type 15 pin length 1.25 [m]• Signal cable – D type 9 pin plug + plastic socket with 2 pins for thermistor, length 1.25 [m]

Colibri Spindles Ltd.

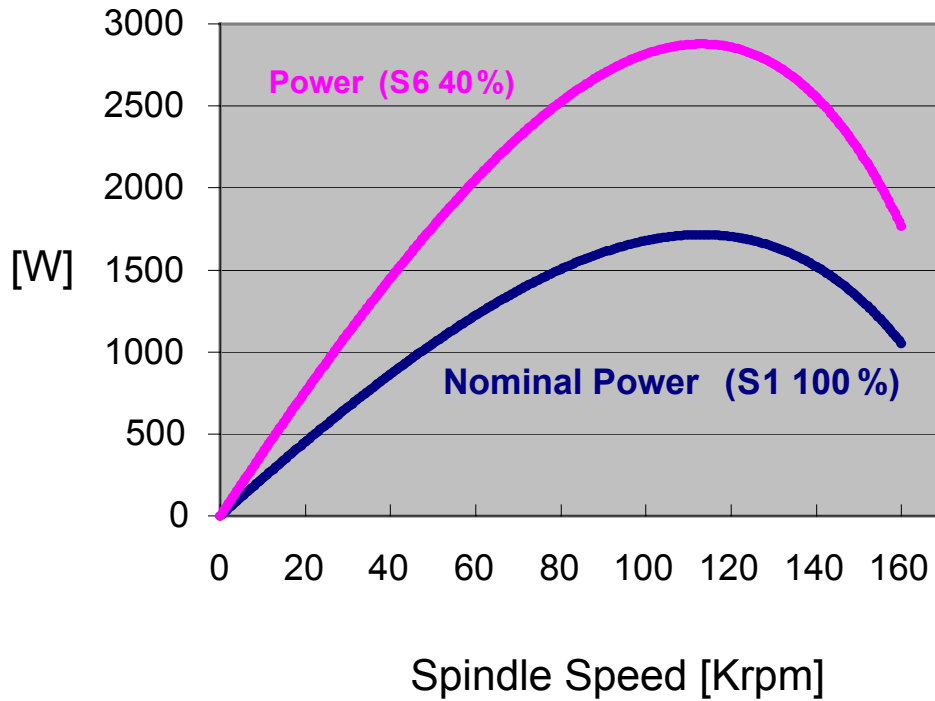
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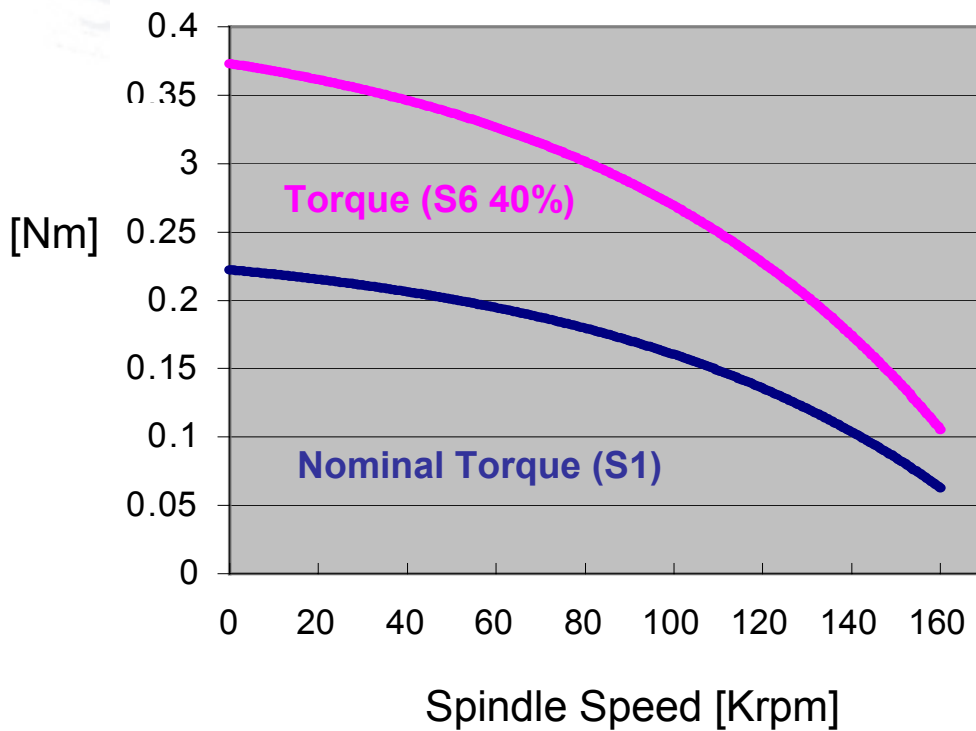
POWER

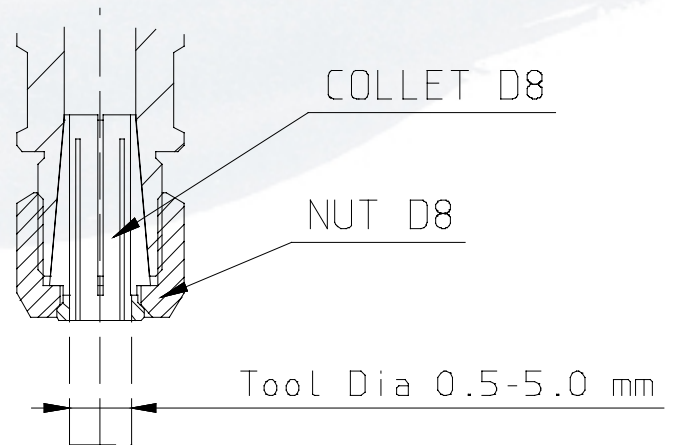
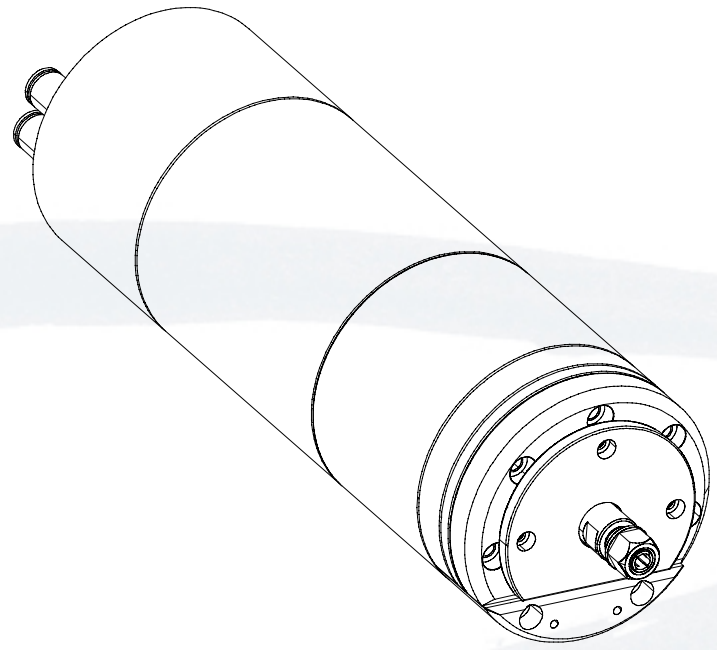
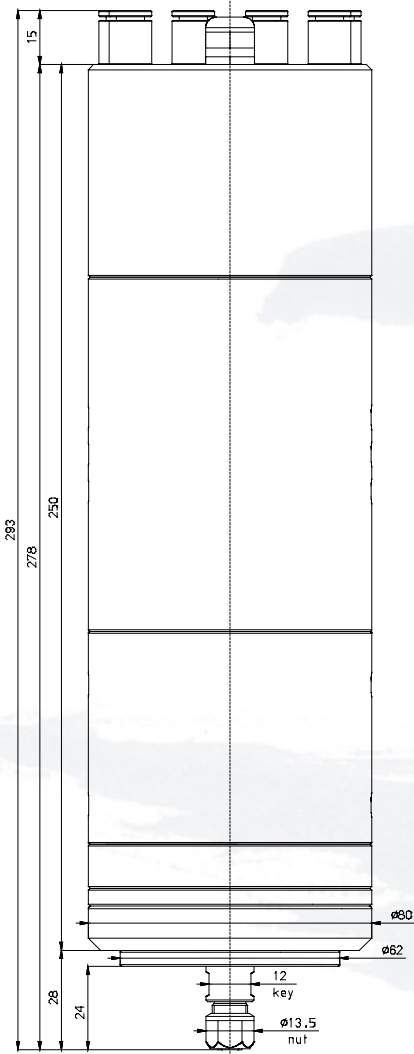
Power Vs . Spindle Speed



TORQUE

Torque Vs . Spindle Speed





Two Optional Clamping Method:

