



Moore Tool Company

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Bridgeport, CT 06607

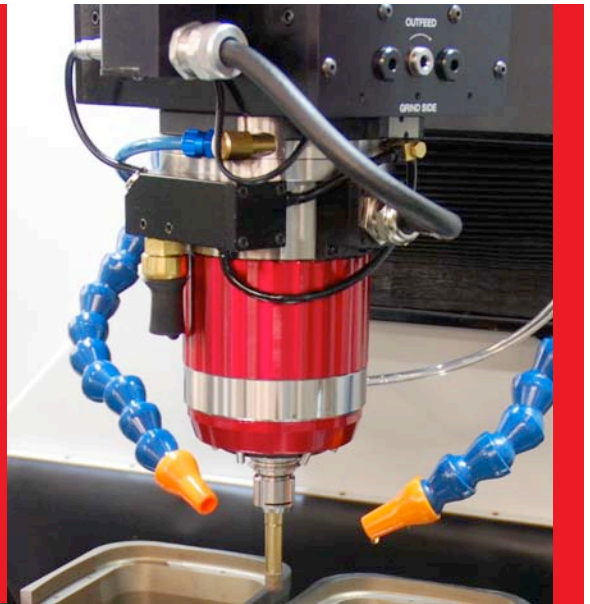
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Automatic Tool Changer Electric Grinding Spindle

Technical Specification



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F-1757 Rev. D





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INTRODUCTION

The Automatic Tool Changing Spindle was designed to be extremely compact and robust. The spindle is capable of speeds ranging from 10,000 rpm to 60,000 rpm. The spindle will accept a full range of tool holders for grinding wheels and cutting tools as well as measuring equipment. The spindle is designed for pure production work with flood coolant directed at the cutting tool. It can be installed on our 500 and 1280 Series Moore Jig Grinders with electric head capability. A flood coolant system and chiller unit comes standard with this package.

SPINDLE DESCRIPTION

Bearing Type:	Hybrid Ceramic
Spindle Power:	0,75 kW
Spindle Speed:	10,000 to 60,000 RPM
Spindle Length:	153 mm
Spindle Diameter:	94 mm / Flange 116 mm
Shaft Reference	Front Bearing
Taper:	Cam-lock, 8° Taper - High Precision
Radial Run-Out	0,002 mm (0.00080")
Tool Change Repeatability	0,0025 mm (0.0001")
Taper Stiffness	Dia. 28/19 mm x 40 mm
Taper Run-out	> 0,001 mm
Collets:	Up to 10 mm, metric and inch
Weight:	6.5 kg



TOOLING DESCRIPTION

The ATC spindle accepts three types of tool configuration, plus measuring equipment. All tool holders are precision ground and balanced. The holders can be manually loaded and unloaded into the spindle. Additional equipment must be purchased with the different variations of tooling.

- Shrink Fit (special tool kit included in standard equipment)
 - Ø 3 mm
 - Ø 4 mm
 - Ø 5 mm
 - Special tool for shrink fit holder
 - Tool holder for vice

- Collet Holder and Precision Nut (special wrench and vice included)
 - Ø 3 mm collet
 - Ø 4 mm collet
 - Ø 5 mm collet
 - Ø 6 mm collet
 - Ø 10 mm collet
 - Other Ø are available, metric and inch (1/8", 3/16", 3/8")
 - Wrench
 - Tool holder for vice

- Tool Shank
 - Ø 9.5 x 50 mm length
 - Ø 11.5 x 50 mm length
 - Ø 14 x 50 mm length
 - Ø 16 x 50 mm length
 - Ø 19 x 50 mm length
 - Ø 18 x 80 mm length

- Grinding Arbor
 - Ø 14 mm
 - Ø 16 mm
 - Ø 19 mm

- Grinding Wheel Flange
 - Ø 20 mm
 - Ø 22 mm
 - Ø 24 mm

- Measuring Equipment
 - Clamp ring for indicator holder
 - Holder for Renishaw probe system



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SYSTEM REQUIREMENTS (Model 500/1280)

- Frequency Converter for electric grinding heads
- Machine Enclosure
- **Optional:** 20 Position Automatic Tool Changer

NOTES

- Other Moore electric grinding heads (RM60, RM50, RM30) may be also used with this configuration
- The grinding spindle utilizes the cutting oil coolant system to cool the spindle
- Dry Grinding: without coolant system only up to 30,000 RPM is allowed
- A coolant nozzle ring comes standard to flood the grinding and cutting tool.

GUARANTEE/WARRANTY

The Automatic Tool Changer Spindle is covered by a one-year warranty on parts and labor provided proper tools and techniques are used.

SERVICE

Available from the Moore Tool Company, Inc., Bridgeport, Connecticut.

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