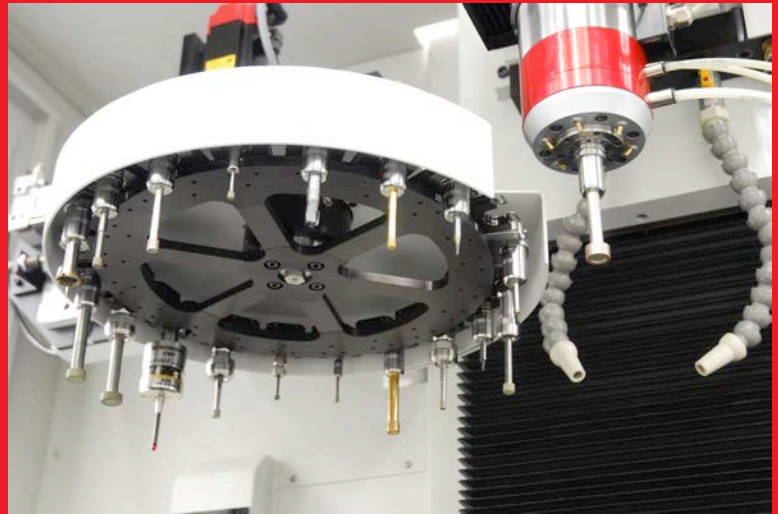


**Automatic Tool Changer  
Electric Grinding Spindle**

**Technical Specification**

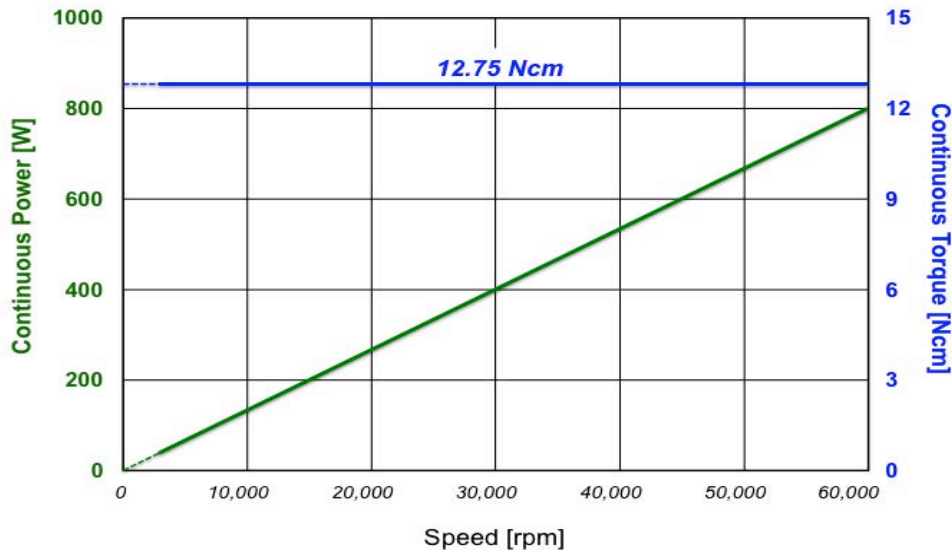


## INTRODUCTION

The Automatic Tool Changing (ATC) Electric Grinding Spindle was designed to be extremely compact and robust. It is capable of speeds ranging from 3,000 rpm to 60,000 rpm. Also, it will accept a full range of HSK-E 25 tool holders for grinding wheels and cutting tools as well as metrology 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 / chiller unit would be required to cool the spindle and add cutting fluid to the work zone, not included.

## SPINDLE DESCRIPTION

Bearing Type:	Hybrid Ceramic
Continuous Spindle Power:	800 W / 1 HP
Spindle Torque:	0,12 Nm
Current:	3 Amps
Lubrication:	Air/Oil lubrication
Spindle Speed:	3,000 to 60,000 RPM at 12,75 Ncm
Spindle Length:	177 mm
Spindle Diameter:	105 mm / Flange - 116 mm
Spindle Tool Interface:	HSK-E 25
Radial Run-Out	2 $\mu$ m (0.00080") at 50mm from spindle gauge line
Taper Run-out	< 1 $\mu$ m
Tool Weight:	0,5 kg max
Weight:	8 kg



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## TOOLING DESCRIPTION

The ATC spindle accepts tool configurations compatible with HSK-E 25, plus metrology equipment. All tool holders are precision ground and balanced. The holders can be manually loaded and unloaded into the spindle. Maximum tool weight is 0.5 kg.

- Tool Holder

- Mini (Polygonal Clamping)

P/N	Description
104330	HSK E25 - Mini 1mm
104331	HSK-E25 - Mini 2mm
104332	HSK-E25 - Mini 3mm
104333	HSK-E25 - Mini 4mm
104334	HSK-E25 - Mini 5mm

- RM (Polygonal Clamping)

P/N	Description
104335	HSK-E25 - RM 3mm
104336	HSK-E25 - RM 4mm
104337	HSK-E25 - RM 5mm
104338	HSK-E25 - RM 6mm
104339	HSK-E25 - RM 8mm
104340	HSK-E25 - RM 10mm
104348	HSK-E25 - RM 0.125
104349	HSK-E25 - RM 0.250
104350	HSK-E25 - RM 0.375

- Arbor Tooling

P/N	Description
104166	Arbor, 50mm Extension Assembly
104167	Arbor, 75mm Extension Assembly
104168	Arbor, 100mm Extension Assembly

\*Additional Tooling Upon Request

- Clamping Devices

P/N	Description
104342	Full Range Clamping Device, Mini & RM
104343	RM Collet Aid
104344	Mini Collet Aid

- Measuring Equipment

P/N	Description
G500-610-500	Clamp Ring for Indicator Holder
G500-660-31BM	Renishaw OMP400

## SYSTEM REQUIREMENTS (Model 500/1280)

- Frequency Converter for electric grinding heads
- Machine Enclosure
- Flood / Spindle Coolant System
- Lubrication System
- **Optional:** 20 Position Automatic Tool Changer

## NOTES

- The grinding spindle utilizes the cutting oil coolant system to cool the spindle.
- Dry Grinding: without spindle coolant up to 29,999 RPM.
- 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. Use of approved tool holders only, others will void warranty.

## SERVICE

Service is available from the Moore Tool Company, Inc., Bridgeport, Connecticut.

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