Moore Jig Grinding
Customer Applications

- Planetary Gear Housing
- Thermoforming Punch
- Die Roll
- Automotive Production
- Pump Liner (Aerospace)
- Bottleneck Mold
- Test Cube

- LED Mold Plate
- Carbide Insert Tooling
- Can Top Tooling
- Camera Phone Lens Mold Plate
- Formula One Piston Rod
- Razor Blade Punch
- CMM Calibration Plate
**Planetary Gear Housing**

**Material:** AMS 5355 Stainless Steel  
**Hardness:** HRC 29-35  
**Machine Positioning Accuracy:** 2.0 μm  
**Surface Finish:** 0.3 Ra μm  
**Form Accuracy:** 2.0 μm

**Thermoforming Punch**

**Material:** D2 Tool Steel  
**Hardness:** HRC 60  
**Machine Positioning Accuracy:** 2.0 μm  
**Surface Finish:** 0.3 Ra μm  
**Form Accuracy:** 2.5 μm
Die Roll

- **Material:** A2 Tool Steel
- **Hardness:** HRC 58-60
- **Machine Positioning Accuracy:** 2.0 μm
- **Surface Finish:** 0.3 Ra μm
- **Form Accuracy:** 3.75 μm

Automotive Production

- **Material:** Proprietary
- **Hardness:** HRC 60
- **Machine Positioning Accuracy:** 2.0 μm
- **Surface Finish:** 0.4 Ra μm
- **Form Accuracy:** 2.0 μm

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Test Cube 50 mm x 50 mm x 70 mm

Material: A2 Tool Steel
Hardness: HRC 60-62
Surface Finish: 0.1 Ra μm
Form Accuracy:
Vertical Scan X Axis 1.1 μm / Y Axis 0.6 μm
Horizontal Scan X Axis 0.7 μm / Y Axis 1.2 μm

Pump Liner (Aerospace)

Material: Nitralloy
Hardness: HRC 60-62
Surface Finish: 0.1 Ra μm
Form Accuracy: 2.0 μm

Bottleneck Mold

Material: A2 Tool Steel
Hardness: HRC 56-58
Surface Finish: 0.2 Ra μm
Form Accuracy: 3.0 μm

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LED Mold Plate

Material: STD11 Tool Steel
Hardness: HRC 55
Machine Positioning Accuracy: 0.5 to 1.0 μm
Surface Finish: 0.1 Ra μm
Form Accuracy: 0.5 to 1.0 μm

Carbide Insert Tooling

Material: Carbide
Surface Finish: 0.2 Ra μm
Form Accuracy: 2.0 μm

Can Top Tooling

Material: S7 Tool Steel
Hardness: HRC 52-54
Surface Finish: 0.1 Ra μm
Form Accuracy: 2.0 μm
Camera Phone Lens Mold Plate

**Material:** SLD  
**Hardness:** HRC 58  
**Machine Positioning Accuracy:** 0.5 to 1.0 μm  
**Surface Finish:** <0.2 Ra μm  
**Form Accuracy:** 0.5 μm to 1.0 μm

Formula One Piston Rod

**Material:** 4340 Stainless Steel  
**Hardness:** HRC 40-43  
**Machine Positioning Accuracy:** 1.0 μm  
**Surface Finish:** 0.4 Ra μm  
**Form Accuracy:** 1.0 μm
Razor Blade Punch

Material: Carbide
Machine Positioning Accuracy: 1.0 µm
Surface Finish: 0.2 Ra µm
Form Accuracy: 1.0 µm

CMM Calibration Plate

Material: Zerodur®
Hardness: HRC 79
Surface Finish: 0.02 Ra µm
Machine Positioning Accuracy: 0.5 to 1.0 µm
Form Accuracy: 1.0 µm

Zerodur® is a registered trademark of Schott Glass Technologies
Building on a Tradition of Excellence

Moore Tool Company offers a complete line of CNC-controlled grinding machine systems and accessories. In addition, the company operates an ultra-precision manufacturing business certified to ISO 9000 and AS 9100 standards with a unique focus on 5-axis milling and ultra-precision jig grinding. The company is ITAR registered. The company operates out of 100,000 SF in Bridgeport, CT, U.S.A. and through Moore Special Tool AG in Zurich Switzerland.