High Precision, Tight Tolerance, Low Part Cost
For high volume applications, Engis single-pass bore finishing systems are the unsurpassed solution for forward thinking manufacturers to improve roundness, concentricity and finish.

Utilizing the single-pass process, extremely tight tolerances can be held reliably and consistently in your production environment, at a lower overall cost per finished piece. Additionally, Engis diamond plated bore finishing tools ensure high quality by achieving — in standard and semi-blind bores — geometries to within one half of a micron (0.000020”) bringing precise accuracy to your finished part.

Single-Pass Bore Finishing Benefits include:
- Reduced labor costs through automated systems
- Lower cost per hole through long tool life
- Predictable, consistent results
- Improved bore quality
- Fewer rejects
- Less frequent part inspection
- Shorter cycle times
- Higher production rates
- SPC values >2.0 Cpk

This SPM-SE series is a standard line of machines designed to meet the needs of job shops for small to medium size parts. Available in 4, 6, 8 and 10 spindle models, these systems are primarily for parts up to 51mm (2”) diameter.

Standard features:
- Servo fed column design
- 457mm (18”) stroke
- Schneider Electric (Telemecanique control) supports all standard single-pass tool machining parameters and functions
SPM-SE SPECIFICATIONS:

- **Machine Weight:** 1,700 kg (3,750 lbs)
- **Required Air Pressure:** 6.2 Bar (90 PSI) 0.14 m³/min (5 ft³/min)
- **Operating Voltage:** 380/460V 50/60Hz 3Ph
- **Dial Plate Diameter:** 508mm (20”)
- **Z-axis Travel:** 457mm (18”) standard extended stroke available
- **Maximum Rapid Speed:** 8,890 mm/min (350 IPM)
- **Spindle Motor:** 3.7 kW (5 HP)
- **Spindle Speed:** 100-1500 RPM
- **Spindle:** 27mm (1-1/16”) diameter ASA
- **Spindle Nose to Table Max:** 600mm (23.6”) standard extended length available
- **Available # of Tools:** 4, 6, 8 and 10
- **Controller:** Schneider Electric
- **Programming:** Point - Table

Able to process 2 parts/cycle

OPTIONS:

- 132 liter (35 gallon) coolant system with single cartridge filtration
- 208 liter (55 gallon) coolant system with double cartridge filtration
- Rotary manifold for pneumatically activated clamping
- Spindle crash protection
- Solid tool holder with or without crash protection
- Floating tool holder with or without crash protection
- Floating tool holder with angle modification with or without crash protection
- Quick-change tool adapters
- Full perimeter guarding
- Extended column
- Guarding packages available
- Standard and custom fixturing packages