

PERFORMANCE RACING AND ENGINE REBUILDING MACHINERY AND EQUIPMENT

ROTTLER

F65M Multi Purpose Machining Center



*Manual Control with
Precision Digital Readout*

THE CUTTING EDGE

F65M

Manual Control
with Precision
Digital Readout

Hard Chrome Spindle

Universal 40 Taper

Hardened
Boxway Column

Precision
Ball Screws

T-Slot Table

F65M
Exclusive



Work head tilts either side of center. This enables the Rottler F67A to machine reliefs in 426 Chrysler Hemi blocks to improve pushrod geometry.



Features

AC Servo Motor
Power Drawbar
Universal 40 Taper
T Slot Table
Turcite Coated Bedways
Precision Ball Screws
Hardened Boxway Column
Manual Spindle Traverse

Benefits

Offers greater precision for the ultimate in machining
For fast, easy tool changes
Offers you the customer many options for available tooling.
Offers quick accurate set-up of optional fixturing.
Reduced friction and wear for smooth movement and long life
Precision ball screws give accurate results (.0001")
Ensures exceptional rigidity for accurate machining
Enables operator to drill and tap easily with up to 5 inches of movement

Applications

The F65M is the answer to modern machining methods. The XYZ digital readout allows you to blueprint performance blocks, perform sleeving operations where center distances are critical, line bore, lifter bore, head & block resurfacing, stroke clearance and many other performance related operations. The F65M can perform operations as:

- Convert FE Ford blocks to cross bolt mains
- Precision blueprinting of blocks
- Block Sleeving
- Block Truing (squaring & decking)
- Main bore align boring
- 4 bolt main cap conversion
- Main cap doweling & strapping
- Stroker clearancing
- Installing lifter bore bushings
- Lifter bore angle correction and enlarging
- Cross drilling crankshafts
- Block end truing
- Drilling, Milling and Tapping

Block end truing and
dowel truing for precise
alignment of transmission
to engine block.



GM LS1 block with Darton MID sleeves installed on Rottler F65.



Honda block with AEBST sleeves installed on Rottler F65.



Precision Performance Fixture references from the centerlines of crankshaft and camshaft for machining operations – precise bore locations and square block deck height. Bore and surface a V8 block in less than 30 minutes.



Lifter bore angles are accurately set with gage blocks in the Performance Fixture. Complete a lifter bushing job in less than one hour!



Rottler's patented 2 axis leveling table and universal quick clamping system for surfacing/ milling heads, blocks and manifolds with CBN and PCD tooling.



Cam tunnel modifications and roller bearing conversions. Rottler's new Pivot Table allows quick set up for line boring. Some blocks allow main and cam line to be bored in one set up with extended slim line right angle drive.

Precision line boring with Rottler's Special 90° Right Angle Drive with Insert Tooling provides perfectly round bores and straight lines! No honing necessary!



THE CUTTING EDGE

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Fixturing



Connecting rod fixture for boring small and large ends of rods and controlling center to center distance.



Pivot table for fast alignment when line boring, cam boring, stroker clearancing and machining for 4 bolt caps.



Dual axis leveling table for any style cylinder head or small inline blocks.



Universal head & block fixture for surfacing or boring of cylinder heads or blocks.



Precision fixture for blueprinting blocks, boring, decking, lifter bores.



Block end truing fixture for surfacing of block ends and cam boring of front and back cam journal. Can be used with precision fixture or 4th axis fixture

Specifications

Table Size	60" x 17" (1500mm x 430mm)
T-Slots (no. x wid. x dis.)	3 x 0.63" x 3.94" (3 x 16mm x 100mm)
Travels:	
X Travel (Horizontal)	40" (1020mm)
Y Travel (In/Out)	20" (510mm)
Z Travel (Vertical)	26" (650mm)
Spindle Travel (Manual)	5" (127mm)
Spindle Nose to Table	4" - 30" (100 - 760mm)
Spindle Center to Column	20.9" (530mm)
Spindle:	
Spindle Taper	NMTB40
Spindle Diameter	4.13" (105mm)
Spindle Rotation Speed	1 - 1800 rpm (Optional 3400 rpm)
Spindle Head Tilt	90° (Right and Left)

Performance:	
Rapid Travel - X,Y	200 IPM (5m/min.)
Rapid Travel - Z	150 IPM (3.75m/min.)
Feed Rate	.001" - .060" (.02 - 1.5mm) per rev.
Repeatability	±0.0002" (±.005mm)
Motors:	
Spindle Motor	5 HP (3.7kW) 150 in-lb (15Nm)
General:	
Floor Space (L x W x H)	131" x 81" x 104" (3.3 x 2.0 x 2.6m)
Machine Weight	8000lb (3530kg)
Electrical Requirement	208/240V 50/60Hz Single Phase 30A
Air Requirement	100 lb psi 7 Bar

Specifications and design subject to change without notice.

MADE IN U.S.A.

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