



Engine Rebuilding Equipment, Inc.

Rogers Machine Company

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Manual Engine Machining Center



RMC-V20M

(Shown with optional equipment installed)

The V20M is a multi-functional 3 axis manual machining center equipped to handle precision engine blueprinting. Specially prepared for the engine rebuilding industry, the V20M offers the versatility and ability to machine manually with variable speeds and feeds that can be changed on the fly. RMC's factory trained support team will be with you every step of the way to make sure your RMC solution is a complete success.



RMC's V20M Co-axial Indicator system allows the operator to determine and measure bore centers, bore diameters and deck heights. This ensures quicker, easier and more accurate setup for machining operations.

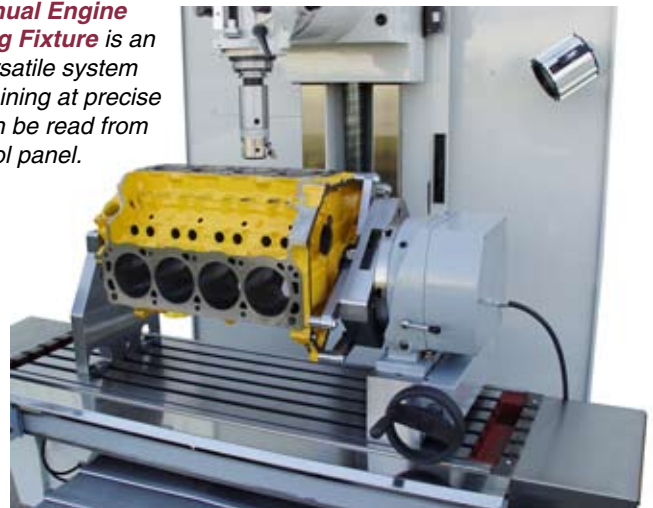


The V20M Machining Center has handwheels for all axes. They offer manual machining capabilities for those who still want to "feel" the cutting process in progress ...



RMC's 4th axis 360° Head Holding Fixture lets you perform head surfacing operations on multiple surfaces while maintaining angle relationships.

RMC's 360° Manual Engine Block Machining Fixture is an accurate and versatile system that allows machining at precise angles which can be read from the mobile control panel.



This easy to read mobile control panel includes a full array of operator controls as well as a built in DRO that is 4 axis operation ready.



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These cost effective, space saving functions make the V20M more practical and economical.



RMC V20M Air Float Cylinder Head Fixture

Shown above and below, this optional fixture will turn your V20M Block Machining Center into a versatile cylinder head seat and guide machine with many other possibilities ...



RMC's Block True Fixture maintains the correct crankshaft to camshaft relationship for a correct alignment of all machined surfaces. This fixture allows you to quickly configure your V20M Machining Center into a first class cylinder boring and decking machine.



Optional tooling packages and work specific fixturing systems

- | | |
|------------------------------------|-------------------------------------|
| Finish boring range - 2.6" - 6.00" | Rough boring range - 2.6" - 6.00" |
| CBN Milling head 10 or 14" | Tool setting fixture w/micrometer |
| Block true fixture | Lifter bore tooling package |
| Cylinder head machining fixture | Main & Cam line boring system |
| 360° manual rotary block fixture | Air float head fixture for VSG work |
| Right angle head for line boring | Electronic measuring system |



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The LB7000 Line Boring System installs easily and enhances the V20M's capabilities to include accurate and efficient camshaft line boring as well as main bore line boring operations. With the LB7000 you can repair main saddles, bore front and rear mains without changing setup, bore cam tunnels, replace main caps and even install aftermarket caps. The machined finish is so accurate that you will have no need to line hone the finished product!

V20M Manual Engine Machining Center

RMC's Manual Engine Machining Center ...

This machining center combines RMC's 50+ years of experience and engineering to create a machine and fixturing systems specifically designed for the engine rebuilding industry. Inverter drive spindle utilizes electronic braking. Ball screws with servo feed motors also include electronic braking on all axis. Turcite coated ways with metal way covers and a sliding chip guard have also been incorporated into the design. Not only can you manually handle all of the requirements of engine rebuilding and machining, you can also perform other conventional milling operations.

Specifications	V20M
Milling width	10"
Boring range (various tooling)	0.98" - 6.0"
Max boring depth (various tooling)	10.43"
Table traverse/cross traverse (X/Y axis)	40.0 / 16.8"
Vertical head travel (Z-axis)	25.5"
Quill travel	6.0"
Head swivel	± 90°
Spindle nose to table height (min/max)	10.8" / 36.5"
Spindle center to column	21"
Rapid traverse (X-axis Y-axis & Z-axis)	82 ipm
Feed rate all axes	0.6 - 40 ipm
Accuracy: Positioning	± .0003"
Repeatability	± .0002"
Table size (l x w)	54 x 16"
Max weight on table	2,000 lbs
Main spindle motor (AC inverter drive)	7.5 hp
Spindle speed - infinity variable low range	20 - 600 rpm
Spindle speed - infinity variable high range	200 - 5,000 rpm
Spindle taper	C40
Net weight (w/o fixturing)	7,000 lbs
Work space required (w x d x h)	114 x 77 x 114"

Some of RMC's optional machining operations ...



Lifterbore Boring



Finish Boring



Rough Boring



Milling / Decking



O-ring grooving and
Cylinder bore chamfering



Misc. Shell Milling



Stoker Rod Clearance



Line and Cam Tunnel Boring

In order to bring you the most advanced features as soon as possible, all features, descriptions and technical specifications are subject to change.

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