



Engine Rebuilding Equipment, Inc.

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CNC Engine Machining Centers



RMC-V50CNC

shown above

The V40HD and the V50 are **true** simultaneous 3 axis, PC based **CNC controlled** machining centers equipped to handle precision engine blueprinting as well as production engine rebuilding. All of RMC's CNC based machines employ simple conversational menu driven programming as well as conventional "G" coding capabilities. 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.



The V40HD CNC Machine Center

One of RMC's most powerful and flexible CNC engine machining centers is shown with the optional 4th axis rotary fixture and 24 place tool changer.



RMC's 360° 4th Axis Rotary Table and block fixture allows specific angle positioning of the block for lifter bore machining, splayed caps, block lightening and a variety of other 4th axis operations.

- Optional tooling packages and work specific fixturing systems**
- Finish boring range - 2.6" - 8.00"
 - Rough boring range - 2.6" - 8.00"
 - CBN Milling head 10 or 14"
 - Tool setting fixture w/micrometer
 - Block true fixture
 - Lifter bore tooling package
 - Cylinder head holding fixture
 - Production head holding fixture
 - 4th Axis 360* rotary block fixture
 - Main Cap machining fixture
 - Right angle head for line boring
 - Digital probe measuring system



The RMC Block True Blueprinting

Fixture offers quick, easy and accurate setup for performance block machining.

The fixture maintains crankshaft to camshaft relationship for correct alignment of all machined surfaces



RMC's digital probe option is a one step process for premachining block checking of bore diameters, locations and deck heights. Measurements will appear on screen for operator verification.



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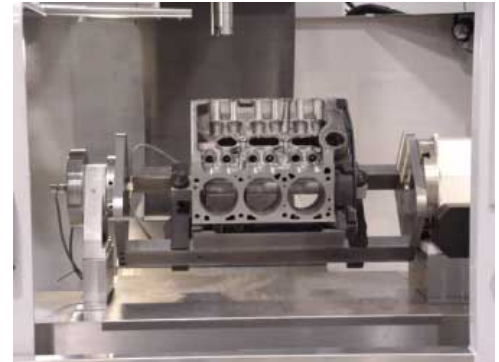
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RMC offers a 16 and a 24 position tool change! on the V40 models, an ideal choice for the high volume production rebuilder.



Easy to read and use control panels on the V40 include a full color LCD monitor and key pads.



The RMC High Production Fixturing System provides the V40cnc machine with unmatched cycle times - mount, probe, bore, deck and dismount V-6 block's in 8 minutes. Cycle V-8 block's floor to floor in 10 minutes.

The V40HDcnc Machine Center

Combined with one or more of RMC's unique tooling packages and fixturing solutions, this mid range CNC machine offers a fantastic return on investment. Save time and money when you put the V40HD to work for you.

The V50 cnc Machine Center

RMC's top of the line machining centers, the V50cnc with full enclosure and chip removal system is the ideal choice for any high production engine rebuilding operation.



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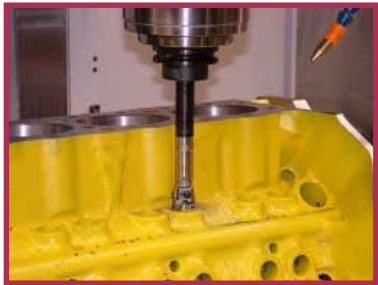
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Finish Boring



Milling



Lifter Boring



Probing



Line Boring

RMC Engine Component Machining Center ...

We've applied RMC's 50 years of experience and engineering in the engine rebuilding equipment industry Throughout our entire V series of CNC machines. In combination with RMC's fixturing and tooling systems specifically designed for engine building/rebuilding and you can sit back and enjoy the results!

Inverter drive, ball screws on all axis, servo feed motors, turcite coated ways with metal guards, chip guards and boom hoists have all been incorporated into the design. 360° rotary fixtures, wireless probe systems, tooling packages and a wide range of software programming for specific applications means you are up and running quickly. Not only can you handle all the requirements of engine component machining, you can perform the wide variety of other conventional CNC machining operations as well.

Specifications	V40hd	V50cnc
Boring range (various tooling)	0.98" - 6.00"	0.98" - 6.00"
Max boring depth (various tooling)	12.50"	12.50"
Table traverse (X-axis)	40.0"	50.0"
Cross traverse (Y-axis)	22.0"	24.0"
Vertical head travel (Z-axis)	24.0"	26.0"
Quill travel, Head swivel	Rigid head	Rigid head
Spindle nose to table height	34.25"	35.00"
Spindle center to column	25.00"	27.00"
Rapid traverse (X-Y axis)	1,000 ipm	1,000 ipm
(Z-axis)	1,000 ipm	1,000 ipm
Feed rate range	0.1 - 200 ipm	0.1 - 800 ipm
0.1 - 800 ipm		
Accuracy: Positioning	± .0002"	± .0002"
Repeatability	± .00015"	± .00015"
Table size (l x w)	45.0" x 24.0"	54.0" x 24.0"
Max weight on table	3,000 lbs	5,000 lbs
Main spindle motor	15 or 20 hp	20 or 30 hp
Spindle speed - rpm low speed	0 - 8,000	0 - 8,000
Spindle taper	Cat 40	Cat 40
Net weight	15,000 lbs	17,000 lbs
Work space required (w x d x h)	119 x 84 x 126"	144 x125 x120"



Tapping for after market played caps



Misc. Shell Milling

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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