



Engine Rebuilding Equipment, Inc.

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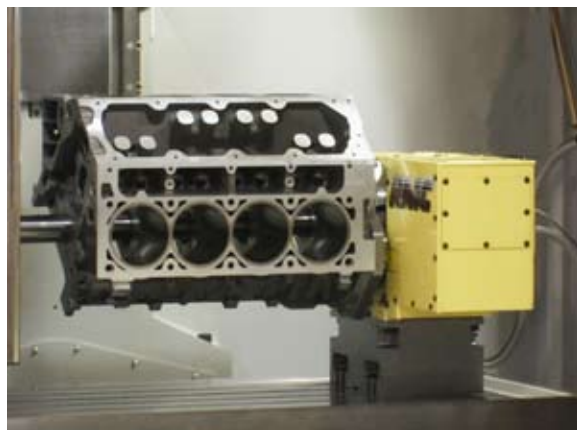


CNC Engine Machining Centers



RMC-V40CNC
shown above

The V40 and V40HP are **true** simultaneous 3 axis (with optional 4th & 5th axis) PC based **CNC controlled** machining centers equipped to handle precision engine blueprinting as well as production rebuilding and precision head porting. 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.



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.



The V40cnc Machine Center

RMC's most flexible CNC engine machining center is shown with the optional 4th axis rotary fixture and 16 place tool changer.



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.

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" | Optical Tool setting fixture |
| 4 Bolt cap conversion tooling | 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 |



Serving the Engine Rebuilding Industry for over 50 years

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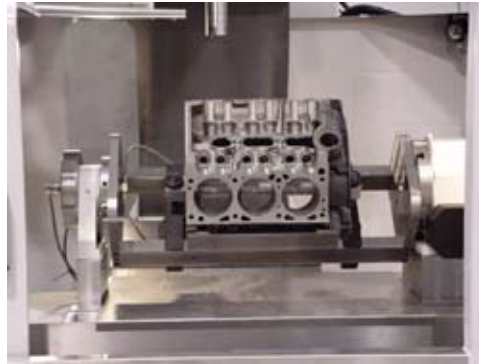
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RMC's V40cnc standard configuration includes a 16 position tool changer. A 24 position tool changer is an available option.



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.



Convert your V40 to a V40HP Head Porting System ... with RMC's entry level Head Porting System. It combines RMC's existing Porting System experience, fixtures, tooling and programming into the V40 Machine Centers. Check out the V40HP Head Porting Brochure for more information.

The V50 cnc Machine Center
One of RMC's top of the line machining centers, the V50cnc with full enclosure and chip removal system is the ideal choice for high production shops.



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Boring



Milling



Probing



Lifter Boring



Line Boring



Misc. Shell Milling



Machining for splayed caps

RMC Engine Component Machining Center ...

We have applied RMC's 50 years of experience and engineering in the engine rebuilding equipment industry within a select group of CNC machine centers and combined them with RMC's own fixturing and tooling systems specifically designed for the engine building industry.

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 of these machines. RMC's 360° rotary tables and fixtures, probe systems, tooling packages and software programming for specific applications means you are up and running quickly.

Don't be fooled by the competitions reliance on old designs and older technology. Despite high price tags, they are not true CNC Machines. And CNC machining's precision and accurate repeatability in the engine building industry is here to stay!

And, not only can you handle all of your engine machining requirements, your RMC Machining Center can perform a wide variety of other conventional milling operations that the CNC world allows.

Specifications	V40cnc	V50cnc
Boring range (various tooling)	0.98" - 6"	0.98" - 6"
Max boring depth (various tooling)	10.43"	12.5"
Table traverse (X-axis)	40"	50"
Cross traverse (Y-axis)	20"	25"
Vertical head travel (Z-axis)	26"	24"
Spindle nose to table height	35"	35"
Spindle center to column	21.5"	25"
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 - 1,000 ipm
Accuracy: Positioning	± .0002"	± .0002"
Repeatability	± .00015"	± .00015"
Table size (l x w)	45 x 20"	54" x 24"
Max weight on table	2,000 lbs	3,500 lbs
Main spindle motor (Int/constant)	24 / 15 hp	24 / 15 hp
Spindle speed - rpm	50 - 8000	50 - 8,000
Spindle taper	Cat 40	Cat 40
Net weight (w/o fixtures)	11,000 lbs	20,000 lbs
Work space required (w x d x h)	112 x 110 x 120"	144 x 125 x 126"
Electrical requirements	220 volt 3phase	220 volt 3ph

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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