

V40/V50 ENGINE MACHINING CENTERS



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V40/V50 CNC Engine Machining Centers

The V40 and V50 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.

The V40 CNC Machine Center

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





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



RMC's 360° 4th Axis Rotary Table and Block True Blueprinting 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 block true 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

Optional tooling packages and work specific fixturing systems

- Finish boring range 2.6" 8.00"
- CBN Milling head 10 or 14"
- 4 Bolt cap conversion tooling
- Cylinder head holding fixture
- 4th Axis 360* rotary block fixture
- Right angle head for line boring
- Rough boring range 2.6" 8.00"
- Optical Tool setting fixture
- Optical fool setting lixture
- Lifter bore tooling package
- Production head holding fixture
- Main Cap machining fixture
- Digital probe measuring system

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The 9000 Series CNC is our newest and upgraded control offered on the RMC CNC Engine Machining Centers. It features 120 GB disk storage, 4GB memory, up to 10-times better graphic performance, mid-travel tactile keys and an enlarged 15" LCD touch screen. It's a Windows®-based platform and offers all the user-friendly features that you have come to love on your RMC CNC machine.



The V50 CNC Machine Center

One of RMC's top of the line machining centers, the V50 CNC with full enclosure and chip removal system is the ideal choice for high production or shops requiring a larger work envelope.



RMC's V50 CNC standard configuration includes a 20 position tool changer.



The RMC High Production Fixturing System provides the V40 CNC 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/V50 to a V40HP/V50HP Head Porting System ... with RMC's Head Porting System. It combines RMC's existing Porting System experience, fixtures, tooling and programming into the V40/V50 Machining Centers. Check out the V40HP/V50HP Head Porting Brochure for more information.

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Boring



Milling



Probing



Lifter Boring



Line Boring



RMC Engine Component Machining Center ...

We've applied RMC's 60 years of experience and engineering in the engine rebuilding equipment industry within a series of CNC machines and combined with RMC's own fixturing and tooling systems specifically designed for the engine rebuilding industry.

Servo drive, ball screws on all axis, servo feed motors, linear bearing ways with metal guards and full metal enclosures have all been incorporated into the design. 360° rotary fixtures, probe systems, tooling packages and 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 a wide variety of other conventional machining center operations as well.



Misc. Shell Milling



Machining For Splayed Caps



Engine Rebuilding Equipment

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