

RMC

V30 CNC

Engine Machining Centers



www.rmceengine.com

The V30 and V40 are **true** simultaneous 3-axis, PC-based **CNC-controlled** machining centers equipped to handle precision engine blueprinting. 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 even the largest blocks for lifter bore machining, splayed caps, block lightening and a variety of other 4th axis operations.



RMC's 360° rotating cylinder head resurfacing fixture lets you perform machining operations on multiple surfaces while maintaining angle relationships.



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



RMC's tool setter is extremely fast, accurate and easy to use it is a non-contact optical system that will save you time and money when setting all of your boring tool diameters.

Optional tooling packages and work specific fixturing systems

Finish boring range - 2.6" - 8.00"
 CBN Milling head 10 or 14"
 Block true fixture
 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
 Lifter bore tooling packages
 Production head holding fixture
 Main Cap machining fixture
 Digital probe measuring system

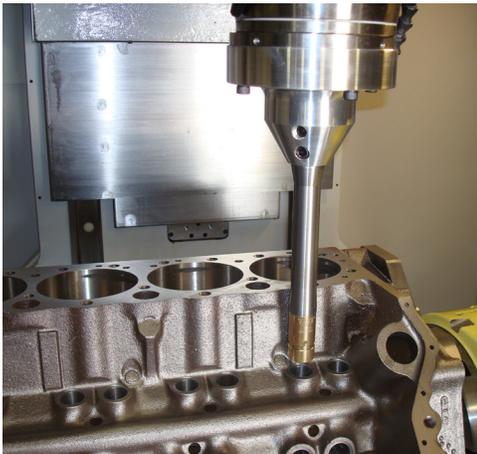


The new 8200 CNC high speed machining control featuring powerful solid model graphics with conversational visual aid help screens. This new control offers expanded connectivity capabilities using USB, Ethernet and MT Connect.



RMC offers an optional 5-position automatic tool changer on the V30 (above). This is an ideal choice for maximizing production of the high performance engine builder.

Special keyed lifter bushing installation tool is just one of the many options RMC offers to accurately install those difficult keyed lifter bushings.



RMC's Line Boring Option allows fast and accurate line and cam boring operations. The finish is so fine and accurate that there is no need to line hone the block afterwards!



The V30 Machine Center RMC's most versatile Block Machining Center, can perform a wide variety of other engine related machining functions and operations.



Boring



Milling



Probing



Lifter Boring



Line Boring

RMC Engine Component Machining Centers ...

We've applied RMC's 56 years of experience and engineering in the engine rebuilding equipment industry throughout our entire V series of CNC machines. Combined with RMC's fixturing, tooling systems and programming specifically designed for engine building/rebuilding, you get spectacular results that would not have been believable just a few short years ago!

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.

The V30 Series is RMC's most popular CNC Engine Machining Center. It's accuracy, repeatability and time saving efficiency is further enhanced by it's dependability. It's all designed to get the job done at a price you can truly afford.

Specifications	V30
Boring range (various tooling)	0.98" - 6.0"
Max boring depth (various tooling)	10.43"
Table traverse (X-axis)	40"
Cross traverse (Y-axis)	20"
Vertical head travel (Z-axis)	24"
Spindle nose to table height	35"
Spindle center to column	21.5"
Rapid traverse (X-Y axis)	500 ipm
(Z-axis)	300 ipm
Feed rate range	0.1 - 300 ipm
Accuracy: Positioning	± .0003"
Repeatability	± .0002"
Table size (l x w)	54 x 16"
Max weight on table	2,000 lbs
Main spindle motor (Int/constant)	18/12 hp
Spindle speed in rpm	50 - 8,000
Spindle taper	Cat 40
Net weight (w/o fixturing)	8,000 lbs
Work space required (w x d x h)	84 x 84 x 129"
Electrical requirements	240 volts 3 phase



Misc. Shell Milling



Machining for splayed caps

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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