



**Engine Rebuilding Equipment, Inc.**

**Rogers Machine Company**

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**www.rmcengine.com**



# CNC Engine Machining Centers



## V30CNC

Shown with optional  
fixturing and 5 piece  
tool changer

*Dedicated to serving your engine rebuilding equipment needs.*

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 4th axis 360° rotating head holding fixture** lets you perform machining operations on multiple surfaces while maintaining angle relationships.



**The V30cnc Machine Center**

RMC's most popular CNC engine machining center is shown with the optional 4th axis rotary fixture, swing boom hoist, and 5-pocket automatic tool changer.



**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"  
 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"  
 Tool setting fixture w/micrometer  
 Lifter bore tooling package  
 Production head holding fixture  
 Main Cap machining fixture  
 Digital probe measuring system



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*The V30 comes with an easy to read and use control panel that is mounted on wheels and includes a full color LCD monitor de key pads.*

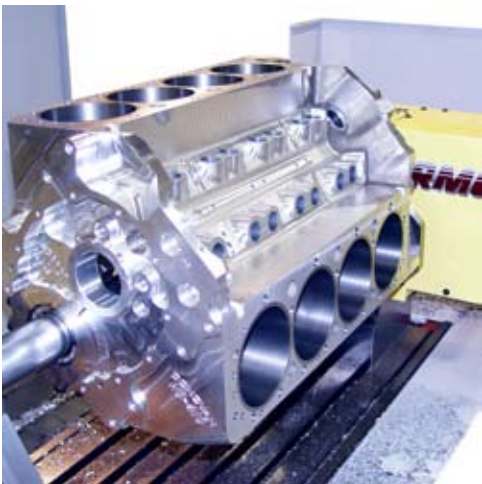


*RMC offers an optional 5-position automatic tool changer on the V30 (above) and a 16-position automatic tool changer on the V40, (below). Both are an ideal choice for maximizing production of the high performance engine builder.*



*Special marine fixture is just one of the many turn key systems offered by RMC.*

*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!*



*RMC's Performance 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.*



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

# **RMC**

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Boring



Milling



Probing



Lifter Boring



Line Boring

## RMC Engine Component Machining Centers ...

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. 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)	6,500bs
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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