



Engine Rebuilding Equipment

**Innovation
Starts *HERE!***

2024 Product Catalog



- Over 66 Years Dedicated to the Engine Rebuilding Industry
- Experienced personal customer service
- Always innovating not copying
- Guaranteed turn key packages
- Distributing the industry Best- Robbi, Nikken, Marposs, Big Kaiser
- Custom fixturing and application specialists
- Honest Business, Fair Pricing, Quality Products

800.248.5062 | www.rmceengine.com



Providing innovative solutions to the Engine Rebuilding Industry Since 1957

RMC provides engine rebuilding equipment to the Automotive, Diesel Truck including Industrial, Production Engine Rebuilders and Performance Racing industries since 1957, Celebrating our 66th year in business, with experience in offering a wide variety of engine rebuilding machines designed to provide the performance, productivity and accuracy you demand. Service and Support of your equipment is extremely important that's why RMC maintains a staff of highly trained, experienced technicians to help solve any problems or questions you may have with your equipment.

Setup and training:

Proper setup of the equipment and specialized training for you and your staff on each piece of equipment you buy is essential to getting your operation up and running quickly and with a minimum of hassles.

Spare Parts, Shop Supplies - consumables:

RMC can supply a wide range of repair parts and supplies replacement parts for most of the machines we have delivered including our factories from Italy and Denmark if necessary. Additionally, RMC can provide shop supplies from Silver Seal and others.

RMC Web Site:

Because we are constantly striving to improve our product line, keeping up with the latest improvements and technical specifications. There you will find the latest product information and technical specifications on our entire product line.



Original Saginaw Facility built in 2000, 15,000 SF

Contents

Terms and Conditions / Warranty Information	1	Surface Milling Machines	10
V30 CNC Engine Machining Centers	2	RMC-1550 Cylinder Boring & Milling Machines	11
V40 CNC Engine Machining Centers	3	Crankshaft Grinding Machines	12
V35 CNC OHC 90° Align Boring System	4	Crankshaft Polishers	13
V40/V50 Head Porting Systems	5	Specialty Presses	14
V42/V60/V84 Industrial Machining Systems	6	RMC Portable Align Boring System	15
V80 Industrial Machining Systems	7	RMC Belt Resurfacers	16
V240 Industrial Machining Systems	8	RMC-ETS100 Engine Test System	17
Master 3DGage	9		

Terms and Conditions / Warranty Information

Credit Terms

RMC offers a number of credit terms and finance program options to qualified buyers. **RMC** can provide you with information on lease rates from several qualified leasing companies that **RMC** works with. Call for current rates. Terms may be available on larger purchases to qualified buyers. **RMC** accepts Visa, Master Card, Discover and American Express credit cards for all your supplies and replacement parts purchases.

Order Acceptance:

All orders are subject to acceptance by **RMC**. Back order merchandise will be shipped on a first come first service basis. Order acceptance is also subject to production and/or shipping delays. Product design, features, specifications, pricing, discounts and terms are subject to change without notice.

Shipping:

Unless otherwise agreed to in writing, all freight charges on all products and merchandise are FOB Saginaw Michigan.

RMC works with most common carriers as well as UPS, Federal Express and other similar carriers. Inspect all shipments promptly and note any damage or **suspected damage** with the carriers driver. Any claims for shortages, damage or loss must be reported within 5 working days of receipt of shipment. Claims for freight loss or damage should be handled directly with the carrier.

Return of Goods:

Customers must obtain an RGA number and authorization from **RMC** before returning any merchandise to **RMC**. Receipt of an RGA number does not guarantee credit - full or partial - until **RMC** has inspected the product and determined cause of defect or failure if any. A 20% restocking fee will be assessed against non warranty returns. Discontinued, obsolete and any other merchandise deemed non current by **RMC** is not subject to return, replacement or credit.

Limited Warranty

RMC offers a one year parts and labor warranty on all new equipment, products and merchandise manufactured or sold by **RMC**. If, upon inspection by **RMC**, a product should prove defective in materials or workmanship during the warranty period, that product will be repaired or replaced at **RMC's** option provided the buyer at its sole expense, returns the product to **RMC's** factory or to an authorized **RMC** designate. Such repair or replacement shall be **RMC's** sole obligation and the buyers exclusive remedy under this warranty. This warranty supersedes all prior oral or written agreements, statements, promises, advertising or representations. This warranty supersedes all prior oral or written agreements, statements, promises, advertising or representations. (Continues below)



New expansion of 12,000 SF built in 2022 for Work in Process and Warehousing

Limited Warranty Continued

This warranty is exclusive and in lieu of all other representations and warranties, expressed or implied and **RMC** expressly disclaims and excludes any implied warranty of merchantability or fitness for a particular purpose. There are no warranties which extend beyond the description of the face hereon.

RMC's liability in contract, in tort (negligence, strict liability or any other theory), under any warranty, or under any other legal or equitable theory of whatever type, shall not exceed the purchase price paid by buyer, and under no circumstances shall **RMC** be liable for any special, indirect, incidental or consequential damages.

The amount of the purchase price of the equipment is determined in part by the fact that buyer has agreed to so limit seller's liability. No action arising out of any transaction under this agreement may be brought by purchaser more than one year after the cause of action has accrued.

Some states do not allow an exclusion or limitation of consequential or incidental damages, so the above limitation of liability may not apply to you.

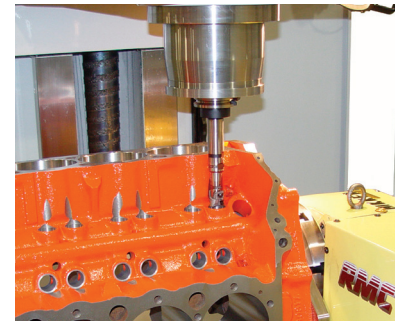
RMC-V30 - CNC ENGINE MACHINING CENTERS

RMC V30 CNC

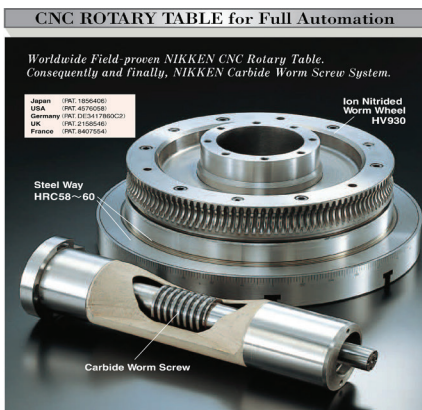
shown with optional hoist and automatic tool changer



The **RMC V30 CNC Engine Block Machining Center** is an entry level open frame CNC machine. The RMC V30 is a "true" simultaneous 4 axis, pc based, computer controlled industrial standard machining center equipped to handle all facets of precision machining. Whether it be "blue printing" an engine block to exact factory specifications or general machining of specialty items you can't go wrong with the RMC V30. The true all in one engine machining center. The RMC V30 has a 54" x 16" table and travels of 40" x 20" x 24" (XYZ).



All V Series machines can utilize the **optional lifter bore operations tooling package**. This outstanding feature allows complete and accurate lifter boring operations from rough cutting to finish boring all at the push of a button ...



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

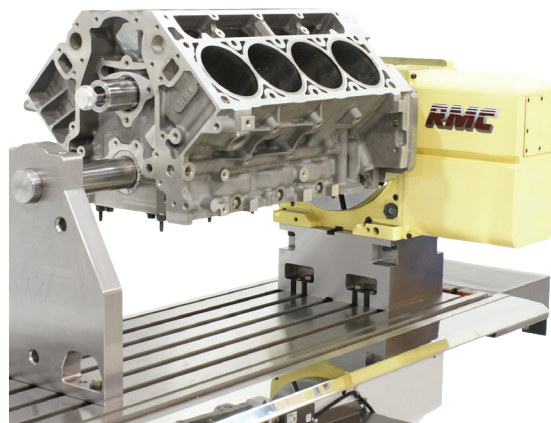


The V30's optional **5 place tool changer** allows continuous machining cycles without pausing to change tools between operations.

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 and data storage for use during various machining operations.

RMC-V40 - CNC ENGINE MACHINING CENTERS

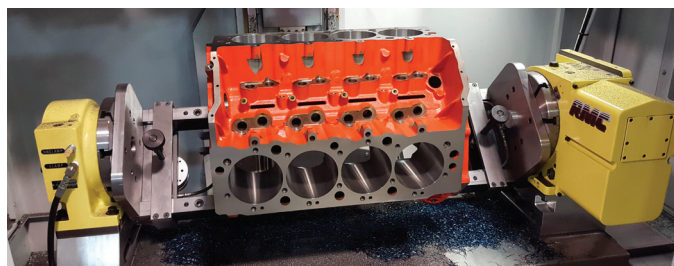
RMC-V40



The Performance Fixture

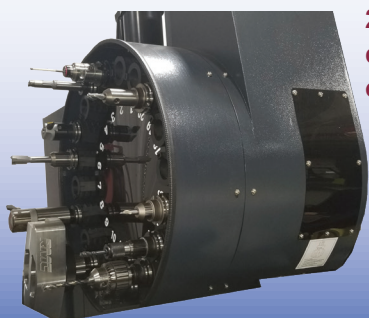
offers quick, easy and accurate setup for performance block machining. The fixture maintains crankshaft to camshaft relationship for correct alignment of all machined surfaces

The all new Re-engineered RMC V40 CNC Engine Block Machine Center is a "true" simultaneous 4 axis, pc based, computer controlled industrial machining center that is fully enclosed with a 20 pocket arm style tool changer. The RMC V40 with its linear bearing ways and 1000 inch per minute rapids make it a very productive, accurate and versatile machine for all your engine block, cylinder head porting and general machining needs. Combine the RMC V40 with our 4th axis engine block fixturing and the accuracy of a Nikken rotary table there is no better machine in the industry period.



RMC's 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.

The all new 9000 Series CNC control is our latest control offering 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 keypad 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.



20 position automatic tool changer, standard equipment on the RMC V40

Convert your V40 to a V40HP Head Porting Machine ... with RMC's 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.

RMC-V35 CNC OHC 90° Align Boring System



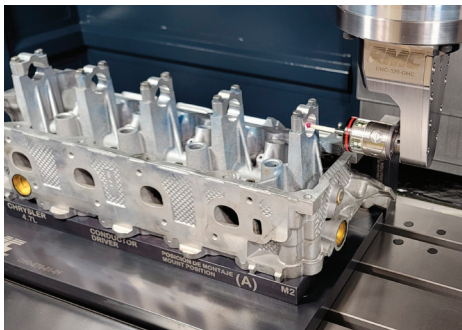
RMC Engine Component Machining Center

We have applied RMC's 50 + year's of experience and engineering to a select group of CNC machining centers and added RMC's own fixturing and tooling systems to assure the best machines for the engine building industry.

Inverter drives, ball screws on all axis, servo controlled motors, linear ball ways with metal guards and chip guards 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.

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

Don't be fooled by the competitions machines, they are not true industry standard CNC Machines. And CNC machining's precision and performance in the engine building industry is here to stay!



RMC V35 probing process to locate cam bores and center automatically before boring.



RMC's in house engineering and manufacturing

Allows specific fixture, tooling and programming for any customers needs. Shown above is the main table base plate with head specific adapter bars.



RMC V35 boring process. Super accurate boring heads built by RMC assure you get the correct diameter every time.

RMC-V40 and V50HP - HEAD PORTING SYSTEM

V50HP Head Porting System

Packaged Precision ... For Fast and Efficient Head Porting ...

The technologically advanced RMC V50HP has taken CNC head porting to a new level of precision and efficiency. Its true simultaneous 5-axis, PC based CNC control handles all your precision head porting needs. Until the V50HP's introduction, professionals looking for CNC head porting solutions had to buy expensive products from three or four different suppliers, then hope someone could put it all together for them. Today we've combined our popular CNC Engine Machining Centers with:

- High accuracy Nikken rotary tables
- RMC head porting fixturing systems
- High speed machining with ultimate rigidity
- Create finished head from raw casting

And it all adds up to "one" ... "one" supplier that makes your job easier by offering a time tested and well proven system with more precision and dependability than ever before.

True CNC Machining: The V50HP uses industry standard CNC programming language (G-code) and conversational programming as compared to other proprietary programs some suppliers use that severely limit machine versatility.

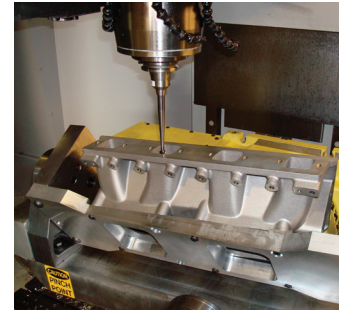
Nikken Rotary Tables: These industry standard workhorses meet the highly accurate head positioning requirements of the machining operations needed for professional head porting. Combined with RMC's heavy duty head holding fixture, you have the ability to create a finished head from a raw casting or billet.

Rapid Traverse: 1000 ipm traverse speed with look ahead and high speed machining memory is 4 times faster moving from position to position, greatly increasing efficiency and production rates.

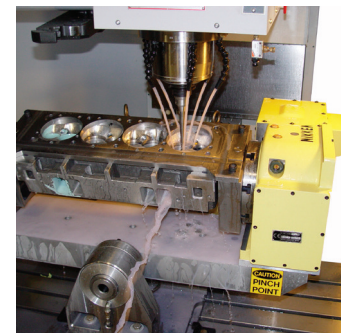
Hardware and software Integration: Software packages include cad cam and digital scanning (for off line digitizing) are integrated into RMC's system. Using specific packages with our hardware, fixturing and tooling insures the success of each individual piece within this complex puzzle.

Heavy-Duty Rigid Spindle: 5.7" rigid spindle cartridge with exclusive 70 mm spindle bearings provides maximum stability for deep runner porting.

Self-Contained Automatic Rigid Tapping Capability: Increases productivity and doesn't require special or expensive tapping heads.



Highly accurate Nikken Rotary Tables – make the system's accuracy and repeatability unmatched.



Superior through spindle coolant option – allows the system to remove material at exceptionally fast rates during the machining process.

Infinitely Variable High Speed BIG-PLUS® Dual Contact Spindle: 0-10,000 rpm spindle speed allows optimum finishes on various materials like cast iron, aluminum and compacted graphite.

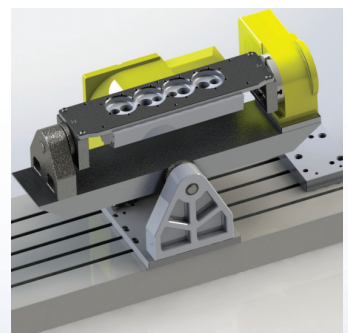
20 Position Automatic Tool Changer: After setup, the V50HP can run many operations unattended allowing the operator to do other jobs for increased shop efficiency.

Powerful 20/15 HP Main Spindle Motor: Constant torque inverter ensures superior cutting consistency at any speed.

Digital Probe Option: A must option unique to engine building, combined with CNC controls makes the V50HP a stand-out in the industry. The digital probe acts as an automated coordinate measuring device, eliminating many tedious and time-consuming manual measurements.

Cat 40 Taper Tooling: Unlike competitive machines, the V50HP uses industry standard, readily available Cat 40 tooling, which makes "tooling up" for special jobs much easier.

Full metal enclosure with safety doors retains work chips to maintain a cleaner work area. The normally optional chip auger has been included as part of the head porting package's standard equipment.



These heavy duty rotary tables combined with RMC's (patent pending) fixturing – meets the needs of today's serious head porting operators, from one dependable supplier, at a remarkably new entry level price.

RMC - V42IL - V60IL - V84 CNC MACHINING SYSTEMS



RMC-V42IL and V60IL

The RMC V42IL and V60IL are part of our high-performance machine lineup. The machines have heavily ribbed one-piece fine grain cast iron castings, full enclosure, 35/45 mm roller linear way technology, a 30 pocket arm type tool changer, BIG-PLUS® CAT 40 in-line spindle with 12,000 RPM and flood coolant capability. These large machining centers are designed for high-speed high production cutting. Just a couple other spectacular machines offered in RMC's turnkey engine machining lineup.

RMC-V84

The largest enclosed machining center RMC offers. This monster of a machine will handle all your class 8 diesel machining needs with no problem. With 84" of X travel and 34" of Y travel and 30" of Z travel there is no job this RMC turnkey system can't handle. This machine has a 35HP spindle motor with BIG-PLUS® CAT 50 taper and produces 365 ft-lbs of torque. This machines also offers a heavily ribbed one-piece fine grain cast iron castings, full enclosure, 45mm roller linear way technology and a 32 pocket arm type tool changer. All of RMC's enclosed engine machining centers are flood coolant ready. At 37,260 lbs this machine is designed for heavy machining and built to last.



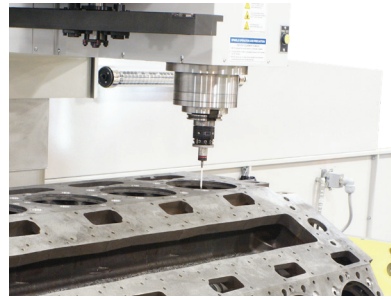
RMC-V80 - INDUSTRIAL MACHINING SYSTEMS

RMC's Industrial Machining Systems are true CNC Machining Centers offering unsurpassed performance and reliability, just what your shop needs to compete in today's heavy duty engine rebuilding market. The speed, versatility and accuracy of the V80 can give you the competitive advantage you need in today's challenging market.

Don't let your machine limit your shop's capabilities ... with a true CNC Machining Center, many auxiliary operations can be performed to make these machines a true profit center!



The operator can easily ... complete all reman. machining applications with confidence and unbeatable repeatability and speed, with the optional 32 place automatic tool changer.



With the optional wireless probe ... bore locations bore sizes, deck heights and profiles can be obtained (and stored for later use) prior to any machine work being performed.



Industrial grade 90° boring heads ... result in superior accuracy and precision in Line Boring of main bores with RMC's optional Heavy Duty Line Boring System.



RMC-V240 - CNC INDUSTRIAL MACHINING SYSTEM

The **RMC V240** is the largest machine in our current CNC lineup.

This massive machine has been developed for handling re-machining of your large industrial engine blocks. With RMC's well known 4th axis rotary table system you can easily machine your large industrial blocks in one setup.

No more having to machine one bank and removing and resetting up the block to do the other bank. This is a huge time savings and allows for most machining operations to be done in one set up which helps maintain accuracy and critical dimensions.

The RMC V240 is designed to stand the test of time with the machine weight of 180,000 lbs, a table capacity of 60,000 lbs, and its huge spindle power and torque makes this machine the true solution for large industrial engine block machining.



RMC Digitizing - Master3DGage

The new PC-based Master3DGage portable CMM system uses precise, 3D model-based software to quickly and accurately verify part quality-directly on a CNC machine or anywhere else in the manufacturing process.

System Specifications

Complete Master3DGage

- Six-axis Hexagon Metrology portable CMM
- Ergonomic counterweight design
- Durable, hard-sided transport case
- USB and power cables
- WiFi connectivity
- 1-year warranty
- Probe kit with 3mm ruby, 6mm ruby and 15mm steel spherical hard probes with quick disconnect, automatic probe identification and probe case magnetic bases with cap screws

Accuracy and Precision

- Certification: ASME B89.4.22
- Probing volumetric accuracy: $\pm 0.025\text{mm} (.00098\text{in})$
- Probing point repeatability: $0.014\text{mm} (.00055\text{in})$

Verisurf Software Flexibility

Verisurf software is modular so you can configure the right functionality for your application and budget.



The RMC Master3DGage is a 6 axis portable CMM that can be used for 3D inspection and reverse engineering. RMC mainly offers the Master3DGage as your simplified one stop solution for capturing data from cylinder head ports and chambers. No more wasting valuable machine time collecting point to point data using a touch probe, this process can take hours and you end up with data that is just OK at best. Use the Master3DGage to collect your data quickly and accurately while your CNC machine continues to run. The Master3DGage collects tens of thousands of points in a matter of minutes to help you create the most accurate representation of your port and chamber design. It doesn't end there. Use the RMC Master3DGage to reverse engineer parts, measure previously machined engine blocks or components or measure in process machining. The RMC Master3DGage does it all, used in combination with one of our CNC machining centers the capability is endless.



Master3DGage's handy, quick-mount CMM system allows easy setup for on-demand measurement and inspections anywhere on the shop floor. Master3DGage powered by Verisurf's industry-leading inspection software.

Supported Operating Systems

Windows 7, 8 and 10

Supported File Formats

- AutoCAD Files (*.DWG; *.DXF; *.DWF)
- IGES Files (*.IGS; *.IGES)
- Mastercam Files (*.MCX; *.MC9; *.MC8)
- SolidWorks Files (*.SLDPRT; *.SLDASM)
- STEP Files (*.STP; *.STEP)
- And many others

RMC-12VB - SURFACE MILLING MACHINE

RMC-12VB Surface Mill

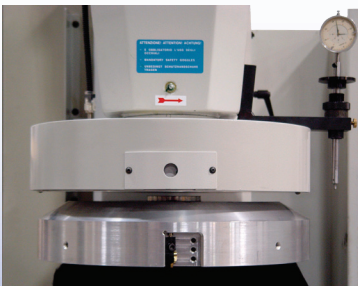


RMC Surface Mills

provide heavy duty, rigid cast iron construction that is capable of meeting the demands of today's CBN milling. Powerful wheelhead motors coupled to pre-loaded dedicated spindle shafts with variable speed insures long lasting and accurate milling and grinding. Both models are equipped with power column and infinitely variable ball screw table traverse and an automatic cycle screw feature. Larger surfacing machines with up to 125" capacity are available via special order.



The table traverse on these new RMC Milling Machines is supplied by a heavy duty servo driven ball screw system which is shown here with the protective covers removed. Exclusive bed way lubrication patterns ensure consistent finishes even at low feed rates.



RMC CBN Milling heads are made of solid aluminum plates that are designed to meet and exceed today's OEM surfacing standards with maximum stock removal and finish consistency.

Specifications

RMC-12VB

Milling length x width	47.25" x 15.75"
Table traverse	54"
Max height over table	29.5"
Wheelhead speeds	0-1700 rpm
Infinite variable hyd table travel	0-196" per minute
Distance column to center table	12.2"
Main spindle motor	7.5 HP
Overall dimension (l x w x h)	118 x 54 x 81"
Work space required	172 x 54"
Net / Shipping weight	3,300 / 3,750 lbs

RMC 12VB Standard and (Optional) Equipment

- × 16" Milling head with CBN for cast iron & PCD for aluminum
- × Auto cycle - stops table and wheelhead after milling, then positions insert to front and returns to start position
- × Fast setup indicator system for blocks and heads
- × One pair (8" high) parallel supports
- Ø Rollover fixture - V-Blocks to 28" Heads to 31" (optional)
- Ø Digital readout system for stock removal (optional)
- Ø Block true fixture - bore/deck w/cam/crank indexing (optional)
- Ø Shell Mill 4" with adapter (optional)
- Ø Parallel Supports 4" high (optional)
- Ø Wet Grinding w/10 segments & coolant system (optional)

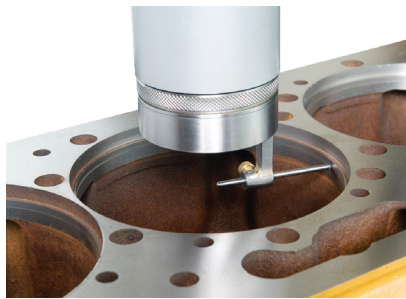
RMC-1550 - CYLINDER BORING AND MILLING MACHINE



RMC-1550 Boring Mill

RMC's Cylinder Boring and Milling Machine is capable of boring a cylinder or decking a block surface in less than 60 seconds. RMC's unique electronic centering of cylinder bores makes for very quick and easy setups. Accuracy can be maintained to within .00025" thanks to the rigid cast iron construction and linear rails of the machines. Virtually anything that can be secured to the machine's table can be machined.

RMC-1550 Boring Mill with electronic centering



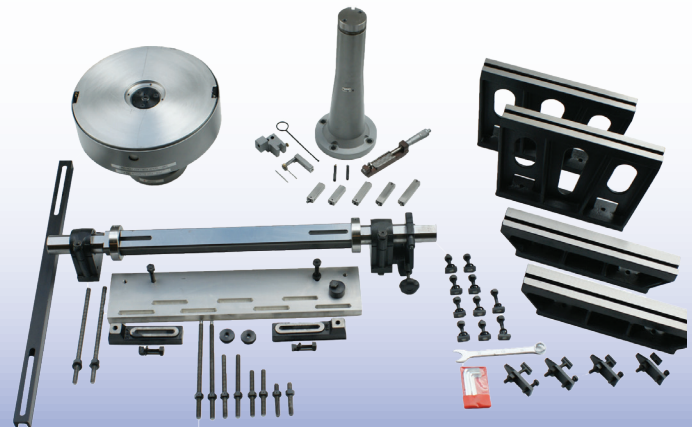
RMC's exclusive electronic bore centering device is located on top of the control panel. Pictured left is the centering probe that is used to automatically find the bore center.



RMC's 16" Milling Head System makes quick work of many diesel blocks fine deck resurfacing, there is also a 20" Milling Head available as an option.

Standard equipment package

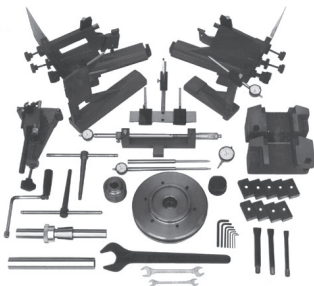
- Boring spindle - 3.47 - 7.00" (depth 18.12")
- 16" CBN milling head - CBN for cast iron, PCD for aluminum
- Universal rolover fixture for v-blocks and heads
- Two sets of parallel supports - 4" and 12" high with T-bolts
- One dial indicator mounted in head for centering
- Depth control measuring device with dial indicator



RMC - CRANKSHAFT GRINDING MACHINES

RMC Crankshaft Grinding machines offer state of the art technology to utilize one of the quickest, most efficient crankshaft setup system available. High performance re-builders will appreciate the ability to modify the existing stroke with the utmost accuracy and repeatability. Machines with up to 235" capacity are available.

RMC 1500 Crankgrinder shown with optional Hydraulic Dresser

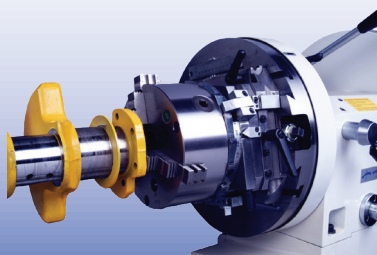


Standard Equipment

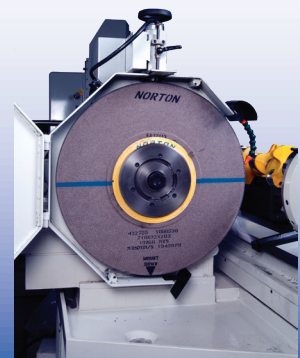
- 24 Volt control panel with safety stop push-button
- Narrow lightweight steadyrest with dial indicator
- Dresser with diamond for face, side and radius
- Device for measuring and setting length of stroke
- Throw setting device with dial indicator
- Set up device with indicator
- 1 Grinding wheel hubs with balancing arbor
- 1 Grinding wheel 3/4"

Specification	RMC1200	RMC 1500
Distance between centers	52"	61"
Distance between chucks	50"	60"
Height of centers over table	8.6"	9.8"
Swing over table	17.3"	19.7"
Max offset of centers	3.1"	4."
Max grinding diameter	7.1"	8"
Hyd table traverse (min.)	118"	118"
Grinding wheel speeds (rpm)	1,000-1,150	900-1000
Grinding wheel diameter	24"	28"
Max width of grinding wheel	2.5"	2.75"
Chuck holding diameter	8.6"	8.6"
Workhead rotation	35-70 rpm	20-30-40-60
Max weight on centers/rests	265 / 660 lbs	440 / 1100 lbs
Wheelhead motor	5.5 hp	7.5 hp
Length x width x Height	129 x 61 x 53"	153 x 66 x 59"
Work space required	181 x 59"	219 x 55"
Approx net / ship weight (lbs)	6,173 / 7,276	7,275 / 8,378

Massive Head and Tail Stocks feature RMC's unique face plate system with positive stop and trim adjustment to make short work of setup time.



RMC's grinding system (shown with the guard removed) utilizes a heavy duty spindle assembly. Combined with the proper coolant flow over the work piece, prevents wheel loading and poor grinding results.



RMC - SHAFT POLISHERS

RMC can design and build most any special polisher geared for your specific polishing needs, some of the models pictured below are special application machines, please contact RMC for a quote on your specific polishing needs.



RMC-60SP Shaft Polisher with attached arm

This 60" polisher is our most popular model and is available in 36", 48", 60" and in many different configurations.



Optional Operator Control Panel

Simple easy to reach controls for all machine functions including an emergency stop pushbutton.

RMC's multi arm production polisher for increased throughput found in production environments. Dust collectors were also added to this machine to improve workplace air quality and stay in compliance with OSHA.

RMC-120HDCP Heavy Duty Shaft Polisher



This is our industrial designed polisher, offering a heavy duty frame, tailstock and inverter driven headstock able to rotate very heavy shafts. This machine was equipped with an emergency stop operator bump cable that was required by OSHA.

RMC - SPECIALTY PRESSES

RMC can design and build most any special press geared for your specific company needs, just a few examples are shown on this page, give us a call and we will be glad to quote one for you.



The RMC-SP25 production hydraulic sleeve press has many time saving features for installing cylinder sleeves quickly and safely.



RMC-48CSP Crank Straightening Press

Salvage bent components, reduce reconditioning cost with an RMC straightening press, available in many sizes and capacities to fit your needs.

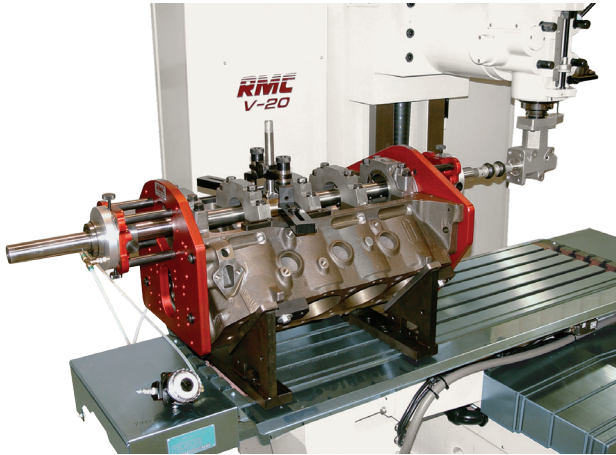


RMC-BP10

This new special pin press offering fills the void for the diesel connecting rod bushing replacement, including those with tapered pin ends. Custom quick change tooling is available to effectively service your specific needs.

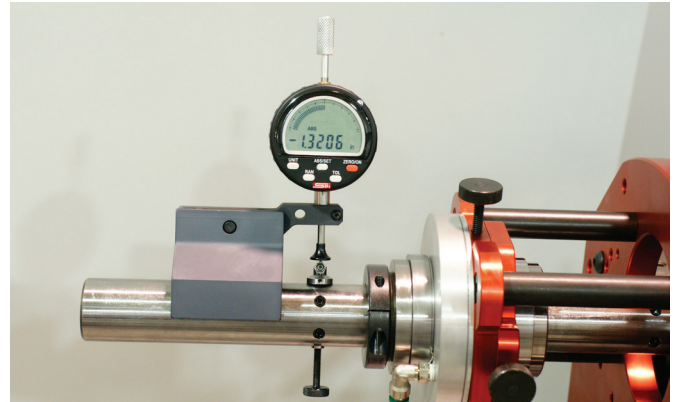
RMC-LB7000 - PORTABLE ALIGN BORING SYSTEM

RMC's Line Bore Tooling Package ... Modular by design, the LB7000 meets your specific needs while providing full line bore capability at a fraction of the cost. Designed to accommodate the most popular engine models, the system includes adapter plates for boring mains and cam-bores in large and small block Chevy, Chrysler and Ford V8's as well as GM 90* and Ford SVO V6 blocks. The plates attach directly to the block providing a "mated" association with the work and the tooling, this insures a stable setup and allows complete access to all bearing housing bores.



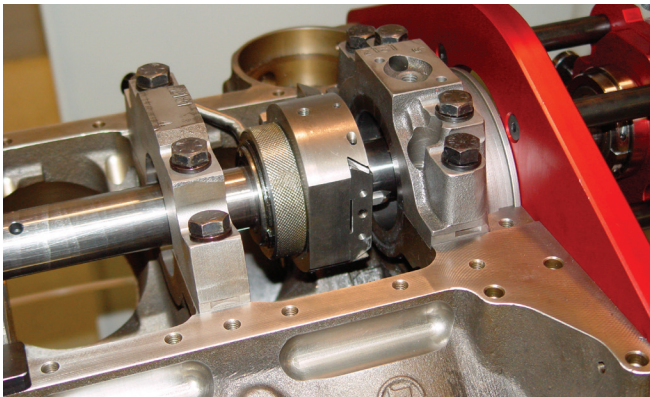
CNC complete system

The RMC-LB7000 can improve your ROI of a CNC by utilizing the controlled table feed and spindle RPM to accomplish precision boring of main and camshaft journals.



Digital indicator for tool setting

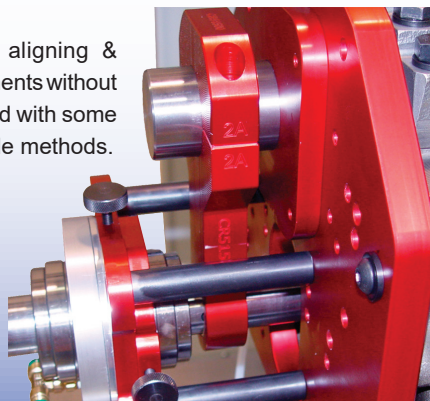
Ultra precision tool setting fixture offers bore diameter repeatability of less than 0004" and direct bore diameter read out to reduce errors.



Optional Thrust Facer

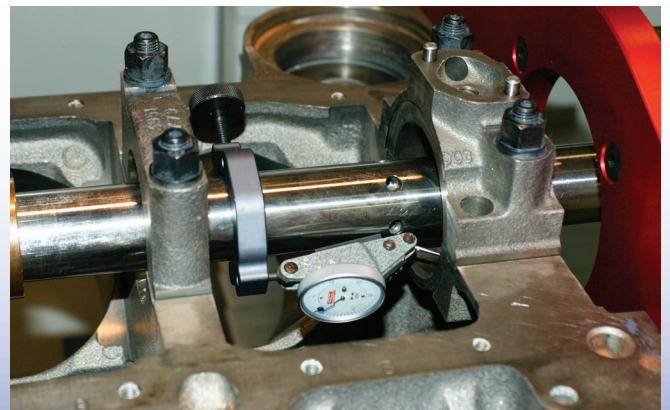
Optional semi-automatic thrust facing system driven by bar rotation in combination with radial feed out to produce an accurate well finished thrust bearing face.

Patented system for aligning & clamping holds adjustments without the "shifting" associated with some conventionally available methods.



Bridgeport Mil complete system

We estimate 80% of the engine shops today have a Bridgeport style mill, which makes the decision easy to choose the RMC-LB7000 align boring system as an accessory to your mill.



Centering Indicator

The RMC-LB7000 comes standard with two quick mounting centering indicator systems for fast accurate setup of the boring bar.

RMC-800 - BELT RESURFACER



RMC 800
Belt Sander with optional base

RMC Belt Resurfacers start with top of the line electrical components housed in a heavy duty 11 gauge cabinet. They offer fast belt changing ability and complete access to the belt at the edge of the platen. RMC Belt Resurfacers make short work of aluminum intake manifolds, cast iron exhaust manifolds, small cylinder heads, gasket surface areas, covers, pans, and a multitude of other small parts.



RMC 800 Belt Change

Changing the belt is quickly accomplished by removing the front access cover and one tensioner knob.

RMC 800 Standard Equipment:

- Safety foot switch with shield
- 40 Grit zirconium belt
- 80 Grit zirconium belt
- Instruction manual

RMC 800 Optional Equipment:

- Heavy duty steel base with shelf
- (39.0L x 17.75W x 25.5"H)
- DC-10 Dust collector

Specifications	RMC-800
Electrical requirements	220 volt single or 3 phase
Max. working area	12" x 32.0"
Belt size	11-7/8" x 89"
Belt drive motor	3.0 HP
Dimensions (w x d x h)	60 x 22 x 12"
Platen (Exchange available)	Precision ground AR400 steel
Approx. shipping weight	650 lbs.

RMC-ETS100 - Engine Test System

The RMC-ETS100 is a fast, accurate and dependable solution to systematically test and identify most common mechanical malfunctions encountered by engine builders, assuring your products will exceed your customers' expectations.

This new innovative design offers complete freedom to customize the operator digital control panel with manual and fully automated testing programs. Utilizing the latest electronics, sensors and controls to collect pertinent data for input to the on-board computer and output to the screen, will save to USB or Network locations for analysis or printing.



FEATURES AND BENEFITS

INSTRUMENTATION

- Full 15" LCD Digital touch screen for ease of set up for monitoring testing functions.
- Operation and diagnostics are accomplished by an array of PLC touch screens to guide the operator through the testing routines.
- Oil Pressure, Motor Torque and RPM graphical gauges displayed on screen.
- Temperature, filter condition and flow are monitored on screen.
- Crankshaft rotation angle graph displayed on screen.
- Movable Control panel allows operation of the machine from the right or left hand side.

SAFETY AND VISIBILITY

- Extremely fast loading with adjustable block cradles and four-point clamping.
- Optional safety light curtains.
- Counter top working height provides a comfortable and efficient position for all connections and instrumentation.

TESTING CAPABILITIES (In Suggested Order)

- Vacuum Test of coolant system for potential leak down. (No Crankshaft Rotation)
- Pre-Torque Test for pre-lubing and checking oil flows to all components, unbalanced noises, loose components.
- Torque Test for crankshaft loads looking for improper fit of most moving components.
- Run-In Test for checking oil pressure (PSI) and flow (GPM) utilizing heated filtered oil also excessive leakage and missing plugs.
- Compression Test-reads all cylinders (PSI) to the screen as Pass/Fail with a Retest option on each cylinder.

OPTIONAL ADVANCED TESTING

- Cylinder calculation - DOD, MDS, AFM.
- Cam advance - PWM
- Advanced cam timing
- Advanced oil flow

FILTRATION SYSTEM

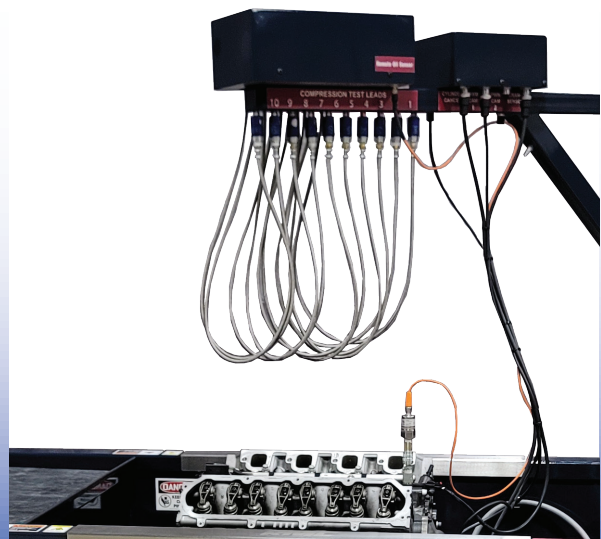
- The Multi Stage filtration system maintains a supply of temperature controlled oil using an accurate immersion tank type heater.
- Stage 1: 100-micron filter pad in oil recovery area.
- Stage 2: Dual level baffled oil reservoir
- Stage 3: Dual spin on large capacity, zero bypass 25-micron and 10-micron filters with "Change Filter" on screen monitor.

POWER DRIVE SYSTEM

- Infinitely variable speed to 350 maximum RPM, reversible, constant torque drive motor system. Digital motor drive delivers accurate linear torque/load reporting for all rpm ranges.
- A heavy duty telescoping drive shaft with quick connect coupler to the universal crankshaft adapter provides easy setup.

VERSATILITY

- Engines can be tested with or without oil pans, valve or timing covers.
- Checking output of installed oil pump.





Innovation Starts Here!

Providing engine rebuilding equipment to the automotive, diesel and high performance industries since 1957, RMC is celebrating 66 years of business and experience in offering a wide variety of engine rebuilding machines designed to provide the performance, productivity and accuracy you need at a price you can truly afford. Over these 66 years RMC has always worked hard to stay on the cutting edge of technology and bring new products, ideas and better solutions to the engine rebuilding industry. Our growth and success has been spectacular. We thank our customers for putting their faith in our products and our ability to solve engine building related problems with today's technology and CNC solutions.

RMC's premier product offering is a brilliant line of CNC based products. By combining RMC's 66 years of experience in the rebuilding market with time proven and state of the art CNC Machining Centers from a very small and select group of well known vendors. In 1999 RMC began offering CNC based solutions introducing a series of competitively priced CNC machining packages designed specifically to handle today's engine rebuilding needs - both performance and production based machines - yet each offers true CNC versatility and a wide range of other functions and capabilities that only true CNC machining centers can allow.

US and Canada 800.248.5062
5775 Bridgeview Center | Saginaw, MI 48604
Phone: 989.754.3611 | Fax: 989.754.1696
www.rmcequipment.com