



# MACHINING SERVICES



EXPERIENCE • EXPERTISE • QUALITY • SERVICE



# CUSTOM MACHINING

**RAM** customers rely on RAM manufacturing services to meet lean productivity objectives, simplify their manufacturing processes, manage labour shortages, supply overflow work, or to increase capacity for their core operations and expertise.

RAM's vast line up of modern manufacturing equipment and factory facilities are well suited to provide custom services to industrial clients. Subcontracted services for machined components, precision parts, subassemblies, machined castings (iron, ductile, grey) and custom fabricated metal products are available. These services can be supplied based on pre-existing drawings or RAM can assist with the engineering of new design requirements. The RAM team has capabilities and experience with multiple materials including carbon steel, stainless steel, aluminum, bronze and a variety of plastics and exotic metals.

Custom work orders flow through RAM's engineering services, skilled technical workforce and quality processes to ensure your custom orders consistently meet quality requirements and shipping deadlines.

RAM facilities and extensive capabilities include:

- CNC turning centers with robot load and unload systems
- CNC turning centers with automatic bar-feed systems
- CNC tube processing turning centers with automatic load and unload systems and live tooling
- CNC shaft processing turning centers with automatic load and unload systems
- CNC 4 axis vertical and horizontal machining centers
- Manual turning, milling and drilling equipment
- GMAW, GTAW, SMAW, SAW welding including the latest in pulse welding technology
- Specialized quick set up assembly stations
- Multi cylinder automatic testing station
- Up to 5 ton - 25 foot under hook crane capacity
- Modern automated paintline - multistage wash and cure process with two part urethane paint finish



# CAPABILITIES

- Metals, Exotic Metals, and Plastic Polymers
- File types  
\*.IGES, \*.STEP, .DXF, \*.DWG
- Facing
- Parting and Cutting
- Tapping
- Internal and External Threading
- Milling
- Thread Milling
- Drilling
- Turning: Contour, Form, Straight, Taper
- Knurling
- Counterboring
- Countersinking
- Reaming
- Profiling
- Pocketing
- Burnishing
- ± 0.0002" Tolerance
- Single or high volume

## TURNING

- Maximum spindle bore up to 14.12"
- Maximum swing over bed up to 39.00"
- Maximum turn diameter 30.00"
- Maximum turn length 150.00"
- Maximum through spindle length 40 feet
- Dual spindle machines
- Live tooling
- Bar feeding or gantry loading

## MILLING

### HORIZONTAL MILLS

#### Travel

- X 23.6" Y 22.8" Z 22.0"
- B axis 360 degrees positional only

#### Maximum Part Size:

- 24" diameter x 24" high
- Maximum weight: 880 lbs (400 kg)

### VERTICAL MILLS

#### Travel

- X 64" Y 32" Z 30"
- 4th axis 360 degrees
- Full 4th axis capabilities

#### Maximum Part Size:

- Table capacity 64" x 28"
- 24" maximum part height
- Maximum weight: 4000 lbs (1814 kg)



## **RAM** INDUSTRIES INC.

PO Box 5007 33 York Rd E Yorkton, SK S3N3Z4 Canada  
T: 1-877-799-1005 • F: (306) 786-2651  
[www.ramindustries.com](http://www.ramindustries.com) • [sales@ramindustries.com](mailto:sales@ramindustries.com)



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