

# MacDonald Steel Limited

200 Avenue Road Cambridge, Ontario (519) 620-0500 Fax (519) 621-4995

## EQUIPMENT LIST

### FACILITIES

- **Head Office - Cambridge Ontario**  
190,000 ft<sup>2</sup> of Manufacturing Space  
16,300 ft<sup>2</sup> of Administrative Space  
48 ft high x 80 ft wide bays  
20 acres of prime industrial land

### SAWING

- **Marvell Saw 81A**  
Up to 20" Thk material x 40 ft long  
Self Indexing
- **Power Band Hack Saw**  
Up to 12" Thk material

### PROFILE CUTTING

- **Cincinnati Laser Model CL-707**  
Maximum Sheet Size - 96" x 240"  
Up to ½" Thk Mild Steel  
Up to ¼" Thk Stainless Steel  
Tolerance of up to ±0.007"  
**Total of 2 Machines**

### BRAKE PRESSES

- **Cincinnati CNC Hydraulic Press**  
500 Ton Capacity, 4 Axis 12 Ft
- **Cincinnati CNC Hydraulic Press**  
175 Ton Capacity, 4 Axis 12 Ft
- **Cincinnati Mechanical Press**  
60 Ton Capacity, 10 Ft

### ROLLING

- **Davi CNC Hydraulic Rolls**  
**4 Roll System**  
Rear Material Support  
Up to ¾" Capacity  
Maximum Width - 120"
- **7" Hydraulic Rolls**  
**3 Roll System**  
Rear Material Support  
Up to ½" Capacity  
Maximum Width - 120"

### GRINDERS

- **Ribon Cylindrical Grinder**  
Swing - 10"  
Centers - 40"
- **Jones & Shipman Grinder**  
Table Size - 8" x 24"

### VERTICAL MACHINING CENTERS

- **Accura MCV-1500 VMC**  
X-Axis - 58 ½"  
Y-Axis - 24 ¼"  
Z-Axis - 27 ½"  
Table Size - 26 ¾" x 67"  
Table Load - 1000 lb.  
24 Tool Automatic Changer
- **Accura MCV-2300 VMC**  
X-Axis - 90 ¼"  
Y-Axis - 35 ½"  
Z-Axis - 31 ½"  
Table Size - 29 ½" x 98"  
Table Load - 6600 lb.  
24 Tool Automatic Changer
- **Buffalo - HBM-4 Microcut**  
X-Axis - 87"  
Y-Axis - 63"  
Z-Axis - 63"  
Table Size - 29 ½" x 98"  
Table Load - 6600 lb.

### VERTICAL BORING MILLS

- **TOS Vertical Boring Mill CNC**  
Table Diameter - 79"  
Max Swing Diameter - 90.5"  
Max Turning Height - 60"  
Ram travel - 114"/38.5"  
Side Ram - 39.4"/32.3"  
Table Load - 30,000 lb.
- **Webster & Bennett**  
Table Diameter - 72"  
Max Swing Diameter - 84"  
Max Turning Height - 48"  
C/W Tracer & Readout

### HORIZONTAL BORING MILLS

- **TOS Floor Boring Mill CNC**  
Spindle - 130mm  
X-Axis - 314"  
Y-Axis - 98 ½"  
Z-Axis - 31 ½"  
Table Size - 79 ½" x 98 ½"  
Table Load - 36,000 lb.  
Automatic Indexing Universal Head
- **TOS Horizontal Boring Mill CNC (5")**  
X-Axis - 135 ¾"  
Y-Axis - 96"  
Z-Axis - 49"  
Table Size - 71" x 86 1/2"  
Table Load - 26,000 lb.  
**Total of 6 Machines**
- **TOS Horizontal Boring Mill CNC (4")**  
X-Axis - 49 ¼"  
Y-Axis - 44"  
Z-Axis - 37"  
Table Size - 49" x 49"  
Table Load - 6,600 lb.
- **TOS Horizontal Boring Mill (4")**  
X-Axis - 63"  
Y-Axis - 44"  
Z-Axis - 49"  
Table Size - 49" x 49"  
Table Load - 7,500 lb.  
**Total of 2 Machines**
- **Olympia CNC Double Column Horizontal Boring Mill**  
X-Axis - 258"  
Y-Axis - 59"  
Z-Axis - 31.5"  
Table Size - 59" x 264"  
2 Automatic Tool Changers

### MACHINING - MISC.

- **Conventional Lathe**  
22" Swing over bed  
32" Swing with gap  
80" between centers
- **Bergonzi Radial Drills**  
1 ¾" Drill Size Capacity
- **Portable Magnetic Drills**  
1 ¼" Maximum

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### ROBOTIC WELDING

- **Motoman SK16 Robot Cell**  
X-Axis – 201”  
Y-Axis - 711”  
Z-Axis - 77”  
2 - 40” Dia Rotators and Tailstocks  
Rotator Load 8000 lb.each

### WELDING – MISC.

- **all units spool or drum capable**

250 Amp Mig  
300 Amp Mig  
450 Amp Mig/Fluxcore  
600 Amp Mig/Fluxcore

300 Amp Stick  
400 Amp Stick  
500 Amp Stick

100 Amp Tig  
300 Amp Tig

100 Amp Hand Held Plasma Cutter

Arc Air Cutting Unit

- **Aluminum & Stainless Capability**

- **Turning Rolls**

50 Ton Turning Roll  
7 Ton Turning Roll

- **Welding Positioners**

5,000 lb. Welding Positioner  
10,000 lb. Welding Positioner  
20,000 lb. Welding Positioner

### FINISHING

- **Grit Blasting Booth**

30' x 60' x 23'  
c/w retractable roof

- **Down Draft Paint Booth**

20' x 30' open top for crane entry.  
20' x 65' open top for crane entry.

### QUALITY ASSURANCE

- CSE - Stiefelmeyer  
Precision 3-D Measuring Machine  
Table Size - 60” X 140”  
Table Load - 8,000 lb.
- Portage Layout Machine  
Precision Measuring Machine  
Table Size - 83” x 240”  
Table Load - 8,000 lb.

### SHIPPING

- 1 Ton Truck - 2 Available
- 5 Ton Truck 16' Flat Deck
- Tandem Axle Tractor  
c/w 1 - 48 Ft Flatbed  
1 - Van Trailer  
1 - Double Drop

### LIFTING CAPACITY

- 25,000 lb. Capacity Mobile Yard Crane
- 10,000 lb. Capacity Yard Crane
- **Overhead Cranes**  
30 Ton – 1 unit  
20 Ton – 1 unit  
15 Ton – 5 units  
10 Ton – 6 units  
7.5 Ton – 1 unit  
5 Ton – 6 units  
2 Ton – 4 units  
1 Ton – 7 units
- **Jib Cranes**  
2 Ton – 10 units  
1 Ton – 60 units

### COMMUNICATIONS

- MRP Manufacturing System
- Computerized Shopfloor production system
- Autocad for Windows
- Solidworks for Windows
- Mastercam
- Multi-Sheet Nesting Software
- Motorola Mobile Radio / Telephone Communication to key personnel
- Digital Phone System  
Voice Mail at all extensions
- Email access
- Dedicated Internet access