



Miro Tool & Mfg., Inc.

201 Sentry Drive, Waukesha, WI 53186

(262) 549-6685 • Fax (262) 549-4197

www.miro-tool.com



Capabilities and Equipment List

Engineering

Offering complete engineering, design and programming services utilizing the following software:

AutoCAD 2004
CADKEY 97
ESPRIT 4.0
FASTBLANK 4.0
Inventor 8.0
Mastercam X 3D, Solids
Mechanical Desktop 8.0
Rhinoceros 3D Modeling 2.0
VISI-Series 13.0

EDM

(3) Mitsubishi FA20 wire EDM
Automatic threader
Max. travel: 19.685" (X) x 13.77" (Y) x 11.81" (Z)

Mitsubishi RA 90 wire EDM

Current ST-300 drilling EDM

Grinding

(6) Surface grinders
3 axis automatic capability
Maximum table size: 20" x 40"

Drilling

(3) Radial drill presses
Maximum column diameter: 17"
Maximum arm length: 7'

Multiple-spindle drill presses

Turning

Bridgeport 20" CNC turning center

Clausing 15" x 50" engine lathe

Milling

Yamage YMV-800GP CNC VMC
24 tool magazine
50 H.P. motor
Max. travel: 86.5" (X) x 31.5" (Y) x 27.6" (Z)
Max. work piece weight: 10,000 lbs.

Takumi V-22A CNC VMC
32 tool magazine
35 H.P. motor
Max. travel: 86.625" (X) x 34.375" (Y) x 30.0" (Z)
Max. work piece weight: 8,000 lbs.

Hitachi Seiki VS-50 CNC VMC
30 tool magazine
25 H.P. motor
12,000 rpm spindle
Max. travel: 40.0" (X) x 20.0" (Y) x 17.7" (Z)
Max. work piece weight: 1,650 lbs.

Hurco VMX24 CNC VMC
24 tool magazine
10,000 rpm spindle
Max. travel: 24.0" (X) x 20.0" (Y) x 24.0" (Z)
Max. work piece weight: 3,000 lbs.

(4) Clausing FV-300 CNC vertical mills
with Proto Trak MX2 controls

(4) Clausing FV-1 CNC vertical mills
with Acu-Rite controls

SuperMax 3 axis CNC vertical mill
with Fagor control

(4) Lagun horizontal and vertical mills
Table size capacity: 15" x 72"
Max. work piece weight: 3,000 lbs.

Cincinnati #4 horizontal and vertical mill



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Capabilities and Equipment List

Stamping Presses

1,000 ton Verson straight side press
Bolster: 60" x 144"
Shut height: 36.25"
Coil handling system: 48" maximum width

400 ton Heim straight side press
Bolster: 49" x 102"
Shut height: 22.625"

200 ton Niagara straight side press
Bolster: 48" x 72"
Shut height: 22"
Air cushion

150 ton Bliss straight side press
Bolster: 42" x 60"
Shut height: 17.375"

100 ton Federal straight side press
Bolster: 30" x 52.5"
Shut height: 16"
Coil handling system: 18" maximum width

100 ton Verson straight side press
Bolster: 34" x 48"
Shut height: 14.5"

100 ton Minster straight side press
Bolster: 34" x 48"
Shut height: 14.5"

70 ton Bliss OBI press
Bolster: 21" x 32"
Shut height: 14.25"

45 ton Federal OBI press
Bolster: 18" x 28"
Shut height: 9"

35 ton V&O OBI press
Bolster: 16.5" x 29.5"
Shut height: 8.5"
Coil handling system: 8" maximum width

Laser & Fabrication

Mitsubishi 2512LPX 2000W laser cell with edge to edge cutting capacity of 97" x 49.2"

Niagara 610 shear
Maximum material thickness: 10 gage
Maximum material width: 10'

60 ton AccurPress CNC press brake

2.7 ton Neff D2-5M press with hot forming capability

1 ton United Silicone hot stamp press
Head size: 6" x 8"

Despatch 1600 environmental chamber

Miller CP-250TS wire feed DC welder

Miller Syncrowave250 AC/DC TIG welder

#8 Di-Acro power bender

Quality Control

Dea Mistral 100705 CMM
SPC and gage R&R software

Scherr Tumico optical comparator

Lifting Capabilities

Overhead bridge crane capacity: 20,000 lbs.

Jib crane capacity: 4,000 lbs.

Forklift capacity: 15,000 lbs.