



## May Custom Manufacturing, Inc.

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## Equipment List:

### Milling Machines:

#### **VB100 FRYER Open Machining Center**

- Tool storage capacity – 24 position arm type
- X Travel (100in.)
- Y Travel (35in.)
- Z Travel (26in.)
- Table Size (30in. x 112in.)
- 25 Horsepower Motor
- Fryer Touch 2100 Control (Siemens 840D Platform)
- 40 Taper Spindle

#### **(3) VM30i HURCO Machining Center**

- Tool storage capacity – 20
- X Travel (50in.)
- Y Travel (20in.)
- Z Travel (20in.)
- Table Size (52in. x 20in.)
- 20 Horsepower Motor
- Hurco WinMax Control
- 40 Taper Spindle

#### **M500 FRYER 3-Axis CNC Bed Mill**

- X Travel (50in.)
- Y Travel (25in.)
- Table Size (17in. x 63 in.)
- 10 Horsepower Motor
- Anilam 3300MK Controller
- 40 Taper Spindle

#### **LAGUN 3-Axis CNC Vertical Milling Machine**

- X Travel (26in.)
- Y Travel (14in.)
- Table Size (10in. x 50 in.)
- 3 Horsepower Motor
- Anilam 1100 Controller
- 30 Taper Spindle

#### **MB-14 FRYER 3-Axis CNC Bed Mill**

- X Travel (40in.)
- Y Travel (20in.)
- Z Travel (21in.)
- Table Size (16 in. x 54 in.)
- 10 Horsepower Motor
- Anilam 3000 Touch Controller
- 40 Taper Spindle

#### **Willis 2-Axis Vertical Milling Machine**

- X Travel (24in.)

- Y Travel (14in.)
- Table Size (10in. x 50in.)
- 3 Horsepower Motor
- Anilam 3200MK Controller

**LAGUN 2-Axis FTV-2 Vertical Milling Machine**

- X Travel (26in.)
- Y Travel (14in.)
- Table Size (10in. x 50in.)
- 3 Horsepower Motor
- Anilam 3000M Controller

**Alliant 2-Axis Vertical Milling Machine**

- X Travel (24in.)
- Y Travel (14in.)
- Table Size (10in. x 50in.)
- 3 Horsepower Motor
- Anilam 3000M Controller

**Sharp OMV Vertical Milling Machine**

- X Travel (36in.)
- Y Travel (16in.)
- Table Size (10in. x 50in.)
- 3 Horsepower Motor
- Anilam Wizard 800 DRO.

**Lathes:**

**Samsung SL25BSY Multi-Axis CNC Lathe**

- Swing Over Bed: 25.6"
- Max Turning diameter: 14.2"
- Max Turning Length: 19.9"
- Chuck Main: 10" / Sub: 8"
- Spindle Nose Main: A2-8 / Sub: A2-6
- Spindle Motor Main: 30hp / Sub: 20 hp
- Spindle Speed Main: 3,500 rpm / Sub: 4,000 rpm
- Bar Capacity Main: 3.03" / Sub: 2.04"
- Equipped with Lexair Rhinobar RB2.5 Barfeeder
  - Bar Diameter Range: 3/8"-2-1/2"
  - Maximum Bar Length: 12'

**Sharp 22100B High Speed Precision Lathe**

- Distance Between Centers (100in.)
- Swing Over Bed (22in.)
- Swing Over Cross-Slide (13.3in.)
- Spindle Bore (4in.)
- Spindle Speeds (15 to 1500rpm)
- Fagor DRO
- Bison Set-Tru Chucks

**Sharp 1660LV High Speed Precision Lathe**

- Distance Between Centers (60in.)
- Swing Over Bed (16in.)
- Swing Over Cross-Slide (8.75in.)
- Spindle Bore (3-1/16in.)
- Spindle Speeds (40 to 2000 rpm)
- Newall DRO
- Bison Set-Tru Chucks

**Alpha Plus 330S Lathe**

- Distance Between Centers (40in.)
- Swing Over Bed (13in.)
- Swing Over Cross-Slide (8.281in.)

- Spindle Bore (1.656in.)
- Spindle Speeds (15 to 3500rpm.)
- Fanuc Controller
- Bison Set-Tru Chucks

**Alpha Plus 400S Lathe**

- Distance Between Centers (50in.)
- Swing Over Bed (15.750in.)
- Swing Over Cross-Slide (9.625in.)
- Spindle Bore (2.125in.)
- Spindle Speeds (15 to 2500rpm.)
- Fanuc Controller
- Bison Set-Tru Chucks

**Grinders:**

**Chevalier FSG-6128A**

- 2 Axis Automatic Surface Grinder
- Table Size (6in. x 18in.)

**Saws:**

**Hyd-Mech Automatic Scissor Style Band Saw S-20A**

- Capacity 13" x 18" Rectangular
- Capacity 13" Round
- 5 HP
- Mitering Capability

**Scotchman 14in. Cold Saw**

**DoAll Model 2013-V Vertical Band Saw**

**Ellis Horizontal Mitre Band Saw Model #1600**

**Powermatic Model #: 66-TA Saw**

- Table saw for cutting small plastic raw material

**Hendrick Horizontal Panel Saw**

- For cutting large plastic raw material
- Capacity up to 4in thick by 10ft long in UHMW

## **Software/Computer Equipment:**

**Solidworks 2016:** 3D Computer Aided Design Software

**SolidCAM 2015:** 3D Computer Aided Machining Software

**AutoCAD LT 2017:** 2D Computer Aided Design Software

**EdgeCAM 2014:** 2D Computer Aided Machining Software

**Quickbooks:** Accounting Software

## **Miscellaneous Equipment:**

**1997 Yale Fork Lift 6500 LB Capacity**

**RNR-20 FlexArm Tapping Arm**

- 700/200 RPM
- 29in. x 54in. x 1in Blanchard ground within .002 for flatness and parallelism

**S-36 FlexArm Tapping Arm**

- 400 RPM

**Darex M5 Drill Bit Sharpener**

**Darex E-90 Endmill Sharpener**

**Delta Carbide Tool Grinder**

**Boring Heads by Criterion**

**Cabinet Blaster**

- 48in. x 22in.

## **Inspection Equipment:**

**Mitutoyo Optical Comparator Model PH 3515-F**

- Horizontal Profile
- 14in. Viewing Screen
- X Travel (10in.)
- Y Travel (6in.)
- 10x and 20x Power Lens
- Quadra-Chek 200 Readout

**Mitutoyo Depth Micrometer**

- Up to and including 12 in.

**Mitutoyo Micrometer**

- Up to and including 13 in.

**Mitutoyo Digital Calipers (24in.)**

**Fowler Digital Calipers (40in)**

**Vernier Calipers**

- Up to and including 80in.

**Fowler Blade Micrometers**

- 0-1
- 1-2
- 2-3
- 3-4

**Mitutoyo Inside Micrometer**

- Holtest Series 368
- .500 up to and including 7in.

**Peacock Dial Bore Gauges**

- Up to and including 6in. with .0001 indicator

**Gauge Blocks**

- 81 piece Grade B

**Gauge Pins**

- Minus .061 to 1.0

**Granite Surface Plate Grade B**

- 24in. x 36in.
- 12in. Height Gauge

**Clark Hardness Tester CTT 8 Rockwell Type**

**Welding Equipment:**

**MIG Welders:**

- Model # MILLERMATIC 200 (with spool gun)
- Lincoln Power MIG 350MP - K2403-2 (with push-pull gun for aluminum)

**TIG Welder:**

- Miller Syncrowave 250

**Plasma Cutter – Hypertherm Powermax 85**

**Smith Oxy-acetylene Welder**

**Materials Stock:**

**Steels:** Various sizes of rod and bar stock

**Aluminum:** Various sizes of rod and bar stock

**UHMW:**

- Full 4'x10' sheets thicknesses 1/16" and up. Thicknesses stocked up to 4".
- Rod diameters: 1/4" to 7"

**Delrin/Acetal:**

- Various sheet sizes: up to 3" thick
- Rod diameters: 1/4" to 5"

**Nylon:**

- Various sheet sizes: up to 3" thick
- Rod diameters: 1/4" to 4"

**Polycarbonate Sheet:**

- Sheets 48" x 96" in the following thicknesses : 1/8", 3/16", 1/4", 3/8", 1/2" (lower stock on thicker sheets)