



## MINNESOTA EQUIPMENT LIST

### CNC Machining Centers

Enshu model EV 650 Vertical Machining Center  
25"x71" table 30 station automatic tool changer 50 taper tooling  
full splash enclosure 4th axis Enac control

Enshu model 650 VX Vertical Machining Center  
30 station automatic tool changer 50 taper tooling 4th axis  
Low splash enclosures Fanuc 11M control

Enshu model 430 CNC Vertical Machining Center  
20 station automatic tool changer 40 taper tooling 4th axis Fanuc 11M control

Enshu model E-130 Drilling/Tapping Center  
4th axis indexers

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Victor Taichung V-center 85 Fortune Vertical Machining Center  
20" x 43" table, 24 station automatic tool changer, 40 taper,  
4th Axis

Matsuura model 1000 VDC5 Twin Spindle Vertical Machining  
Center  
4th axis indexers

Matsuura model MC 500V with indexer Vertical Machining Center

### CNC Turning Centers

Daewoo Puma 2100 CNC Turning Center  
10" chuck/collect with tail stock LNS Quick load Servo 8 barfeed

Daewoo model Puma 8 CNC Turning Center  
8" chuck with tail stock

Doosan Lynx CNC Turning Center  
10" chuck/collect with tail stock LNS Alpha SL65S barfeed

(2) Takasawa (TC4) 12" chuck/collect with tail stocks

Emco Turn model 360 CNC Turning Center  
8" chuck/collet LNS Alpha SL65S barfeed  
2.500 diameter bar capacity

Kia model Kit 30A CNC Turning Center  
gang style machine 6" chuck/5C collet systems

Takisawa model TP-3 CNC Turning Center  
10" chuck with tail stock

Kia model KIT13 CNC Turning Center Gang Style Machine  
6" chuck/5C collet systems

Kia model KT15 CNC Turning Center  
6" chuck and 10 tool turret

### **Spline Rolling**

Michigan Roto-Flo model 1525 Spline Roller (24" racks)

### **Laser Marking**

Control Laser Corporation (CLC) model Icon LS 900 Laser Marking Machine  
12" x 12" 360° loading station

### **Machining Accessories/2nd Operation Equipment**

(2) Bridgeport Series with readouts

Hardinge 2nd op lathe

Marvel model V10 A Verticle Automatic Band Saw

Schmidt Roll Stamping Machine model 365

### **Precision Inspection Equipment**

Mitutoyo model BHN 706 CNC Coordinate Measuring Machine  
Renishaw probe with computer, monitor and printer

(2) Trimos-Fowler 24"  
computerized vertical height gage

Scherr-Tumico 30" Optical Comparitor  
model 22-5600  
Quadra-Check 2000 digital readout

Rockwell Hardness Tester model 40 UR

All Ness Ring Gages, Pins, Micrometers, etc.  
electronic height gaging

Precision Devices Surfptest  
model PDD-1

Amscope Microscope for measuring  
Macro Etched weld depths.

## **Welding**

Weldlogic Automated lathe welder  
4" chuck w/tail stock

Miller Dynasty 35 Mig/Tig  
manual welder

## **Hobbing**

(2) Churchill Hobbing Centers