

MACHINE SERVICE INC. EQUIPMENT LIST

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ISO 9001-2008 CERTIFIED



CNC LATHES:

#119: **Mazak QuickTurn Smart 150** (8" chuck)

Swing Dia. = 22.83" Max cut dia. = 13" Max cut length = 7.87"

#116: **Samsung SL-30** (12" chuck)

Swing Dia. = 25.59"(18.90" over carr.) Max cut dia. = 15.75" Max cut length = 41.34"

#147: **Samsung SL-30** (12" chuck)

Swing Dia. = 25.59"(18.90" over carr.) Max cut dia. = 15.75" Max cut length = 41.34"

#135: **Mazak QuickTurn Nexus 300** (12" chuck)

Swing dia. = 23.64"(16.14" over carriage) Max cut length = 47.63"

#129 **Mazak QuickTurn 300** 12" chuck)

Swing dia. = 23.64"(16.14" over carriage) Max cut length = 47.63"

#146: **Samsung SL-35** (15" chuck)

Swing dia. = 23.60" Max cut dia. = 16.50" Max cut length = 60.24"

#136: **Mazak QuickTurn Nexus 350M**

Swing dia. = 32" Max cut dia. = 16" Max cut length = 60"

#127: **Mazak SlantTurn 450 : 80"** (12" chuck)

Swing dia. = 28" Max cut length = 80"

#132: **Mazak SlantTurn 450 : 40"** (15" chuck)

Swing dia. = 28" Max cut dia. = 23" Max cut length = 40"

#137: **Mazak SlantTurn 450 :** (21" chuck)

Swing dia. = 28.125" (20.4" over carr.) Max cut dia. = 23" Max cut length = 60"

#108: **Mazak QuickTurn Nexus 450-II M : 40"** (18" chuck)

Swing dia. = 32" Max cut dia. = 23" Max cut length = 40"

#145: **Samsung SL-65** (24" chuck)

Swing dia. = 40.55" Max cut dia. = 35.43" Max cut length = 39.37"

#117: **Mazak SlantTurn Nexus 500**

Swing dia. = 40.9" (29.4" over carr.) Max cut dia. = 35.8" Max cut length = 91"

#152: **Mazak Integrex J-400** (12" chuck)

Swing Dia. = 25.2" Max Cut dia. = 19.69" Max Cut length = 24.76"

VERTICAL MILLING CENTERS:

#120: **Samsung MCV5050**

X: 35.40" Y: 19.68" Z: 20.07" - Table size: 36.22" x 19.68"

#111: **OKK VM5 III**

X: 40.15" Y: 20.08" Z: 20.08" - Table size: 41.34" x 22.05"

#112: **Samsung MCV550C**

X: 45.28" Y: 21.65" Z: 20.47" - Table size: 47.24" x 21.65"

#122: **OKK MCV660**

X: 50" Y: 25" Z: 24" - Table size: 52" x 27"

#121: **OKK MCV660**

X: 50" Y: 25" Z: 24" - Table Size: 52" x 27"

#148: **Samsung MCV850 S**

X: 78.70" Y: 33.50" Z: 31.50" - Table size: 80.70" x 33.50"

HORIZONTAL MILLING CENTERS:

#131: OKK HM40

X: 15" Y: 16" Z: 18" Table size: 15-3/4" Square

#125: OKK HM40

X: 15" Y: 16" Z: 18" Table size: 15-3/4" Square

#134: OKK HM500 S

X: 19" Y: 20" Z: 22" Table size: 19-1/2" Square

HOBB/SHAPER/BROACH, SPLINE CUTTING:

#new: Bourn & Koch 400h CNC Hobb 6.4 module

Capability to cut helical gears & Crown Hobbing/Taper Hobbing

Max O.D. of part : 16" Max length: 74" Max weight: 2500#

(4x) Barber Coleman hob SAE & Involute splines

Largest O.D. of cut: 16" Longest length of part: 60"

(4x) Fellows gear shaper Largest O.D. : 36" Stroke: up to 10"

#401: Oil Gear XL-32 Horizontal Broach: 16 Ton x 67" long

#411: Federal Three Station Vertical Broach: 35 Ton x 78" long

O.D. GRINDING:

#802: Okamoto OGM 1220 PBII (CNC grinder)

Max length of grind = 20" Max O.D. of grind = 12.00"

#818: Livnica Kikinda Grind-X

Max length of grind = 50" Max O.D. of grind = 16"

KEY-SEATING:

#410: **Leistritz Polymat 70/500 CNC Keyseater**

Key size range: 2mm – 89mm (.8" – 3.5") Max cut length = 19.69"

BALANCING:

* Computerized balance up to 10,000 RPM per ISO 1940/1 Quality Specifications

* Balance Certification available

* Up to a 38" swing dia. with a max length of up to 30' long.

#600: Dynamic soft-bearing balancer → 3500 RPM & 148" max length

#601: Dynamic soft-bearing balancer → 3850 RPM & 260"+ max length

#602: Dynamic soft-bearing balancer → 3300 RPM & 159" max length

#605: Dynamic soft-bearing balancer → 3600 RPM & 97" max length

#608: Dynamic soft-bearing balancer → 3500 RPM & 148" max length

#610: Dynamic soft-bearing balancer → 3600 RPM & 180" max length

#630: Dynamic soft-bearing balancer → 3500 RPM & 99" max length

#635: BTI balancer hard-bearing → 5000 RPM & 120" max length

#629: Coetz balancer → 4600 RPM & 190" max length

#: Coetz balancer → 10,000 RPM & 120" max length

#626: Coetz Industrial balancer → 1100 #'s capacity. 3200 RPM & 120" max length

#609: SuperShaft machine → 30' max length & 2500 max RPM

#612: SuperShaft machine → 17' max length & 2500 max RPM

DRIVESHAFT WELDING MACHINES (All with Hydraulic Press and Semi-Automatic Welders):

- #603: DRIVESHAFT MACHINE → Max length: 204" , max swing 15" , Spray arc
- #604: DRIVESHAFT MACHINE → Max length: 204" , max swing 15" , Spray arc
- #606: DRIVESHAFT MACHINE → Max length: 148" , max swing 15" , Spray arc
- #607: DRIVESHAFT MACHINE → Max length: 204" , max swing 15" , Spray arc
- #611: DRIVESHAFT MACHINE → Max length: 148" , max swing 15" , Spray arc
- #613: DRIVESHAFT MACHINE → Max length: 148" , max swing 15" , Spray arc
- #615: DRIVESHAFT MACHINE → Max length: 148" , max swing 15" , Spray arc
- #620: DRIVESHAFT MACHINE → Max length: 148" , max swing 15" , Spray arc
- #609: SS DRIVESHAFT MACHINE → Max length: 360" , max swing 40" , Sub Arc
- #612: SS DRIVESHAFT MACHINE → Max length: 204" , max swing 40" , Sub Arc

MANUAL MACHINES:

#115: Knuth DL 5080 Heavy

Max Length: 30' (360") Swing Dia: 38" Swing dia. Over carriage = 24"

#206: Wotan Boring Bar

X: 58" Y: 60" Z: 30" Table Size: 60" Square

(3x) **Bridgeport vertical milling machines.**

(4x) **Manual lathes**

(3x) **Spartan band-saw** up to 22" dia. Max cut

FLY-WHEEL GRINDING:

(2x) **Van Norman FG 10,000 Rotary Fly-wheel Grinder**

WELDING/FABRICATION:

* Mig welding processes, manual & mechanical.

Spray arc, flux core (steel & stainless steel), metal core , sub arc (mechanical only)

* Tig welding processes, manual & mechanical.

Steel & Stainless steel, Aluminum

* Sanitary grinding, Bead Blast , Straighten welded parts , Sweat or chill parts together.

OTHER SERVICES OFFERED:

* Newly upgraded paintbooth offering a wide variety of colors and paint types.

* Drive-Thru bay with 10-ton overhead crane for indoor loading/unloading of trucks.

* Full service wood-shop for crating shipments w/ international wheatstamp

* Modern inspection department with CMM machine.