

PLOUSE

PRECISION MANUFACTURING

Overview of Machine Envelope

Milling:	50" (X-axis travel) x 25" (Y-axis travel) x 20" (Z-axis travel)
Turning:	25.8" dia. x 59.8" long
EDM:	23.6" (X-axis travel) x 14.6" (Y-axis travel) x 12" (Z-axis travel)
Grinding:	32" (X-axis travel) x 16" (Y-axis travel) x 21.5" (Z-axis travel)

Certifications

ISO 9001:2015

Certificate No. 1117425

ITAR

International Traffic in Arms Regulation

FFL

Federal Firearms License
(Types 6, 7, 10 & SOT Class 2)

CNC Milling Centers

HORIZONTAL

Dual Mori Seiki NH4000 DCG Cell with 14-Position Pallet Pool

22" x 22" x 24.8" travel, 14,000-rpm spindle, 180-position tool rack, 4th axis, Renishaw probe, 1,000-psi thru-spindle coolant (1 ea.)

Mori Seiki NH4000 DCG

22" x 22" x 24.8" travel, 14,000-rpm spindle, 60-position ATC, 4th axis, Renishaw probe, 1,000-psi thru-spindle coolant (1 ea.)

Mori Seiki NHX4000 DCG III

22.05" x 22.05" x 25.98" travel, 12,000-rpm spindle, 60-position ATC, 4th axis, Renishaw probe, 1,000-psi thru-spindle coolant (1 ea.)

Mazak HCN4000-II with 6-Station Pallettech Manufacturing Cell

22.05" x 24.8" x 25.2" travel, 12,000-rpm spindle, 120-position ATC, Renishaw probe, 1,000-psi thru-spindle coolant (1 ea.)

Mazak HCN4000-II

22.05" x 24.8" x 25.2" travel, 18,000-rpm spindle, 120-position ATC, Renishaw probe, 1,000-psi thru-spindle coolant (1 ea.)



VERTICAL

Mori Seiki SVD-503

31.5" x 20" x 20" travel, 20,000-rpm spindle, 30-position ATC, Renishaw probe, 1,000-psi thru-spindle coolant (1 ea.)

Mori Seiki SV-500

40" x 20" x 20" travel, 10,000-rpm spindle, 20-position ATC, Renishaw probe, 1,000-psi thru-spindle coolant (1 ea.)

Mori Seiki DuraVertical 5100

41" x 20.9" x 20" travel, 10,000-rpm spindle, 30-position ATC, Renishaw probe, 1,000-psi thru-spindle coolant (1 ea.)

Mori Seiki DuraVertical 5080

31.5" x 20.9" x 20" travel, 10,000-rpm spindle, 30-position ATC, Renishaw probe, 1,000-psi thru-spindle coolant (2 ea.)

Mori Seiki MV-40

22" x 16" x 20" travel, 8,000-rpm spindle, 20-position ATC (3 ea.)

HAAS VF-4SS

50" x 20" x 25" travel, 12,000-rpm spindle, 4th - 5th axis, 40-position ATC, Renishaw probe, 1,000-psi thru-spindle coolant (4 ea.)

HAAS TM-1

30" x 12" x 16" travel, 4,000-rpm spindle (1 ea.)

MAZAK VCN 510C

41" x 20" x 20" travel, 12,000-rpm spindle, 48-position ATC, Renishaw probe, 4th axis, 1,000-psi thru-spindle coolant (1 ea.)

VERTICAL ACCESSORY EQUIPMENT

Hardinge GD5C2-02

Dual-spindle, servo-driven 5C collet indexer with pneumatic tailstocks (1 ea.)

HAAS HA2TS

Dual-spindle, servo-driven 5C collet indexer with pneumatic tailstocks (2 ea.)

HAAS T5C4

Quad-spindle, servo-driven 5C collet multi-axis tilting rotary table (2 ea.)

HAAS HRT160

6.3" platter servo-driven rotary table (1 ea.)

HAAS HRT210M

8.3" platter servo-driven rotary table (1 ea.)

HAAS SCOLR

Single-axis programmable servo control, 4-line LCD display, 110-120 VAC (2 ea.)

Kitagawa TC-5C2-H75A

Dual-spindle, servo-driven 5C collet NCRT with pneumatic tailstocks (1 ea.)

CNC Turning Centers

Mori Seiki DL-150MC

Dual 6" chucks 1.75 max dia
5,000 rpm spindle, live tooling (1 ea.)

Mori Seiki SL-25MC

10" Chuck / 16J Collet x 2.6" max dia.
thru-spindle, 3,500-rpm spindle, live tooling (1 ea.)

Mori Seiki SL-150Y

6" Chuck / 16J Collet x 2.2" max dia.
thru-spindle, 5,000-rpm spindle, live tooling,
"Y" Axis, Part Catcher (1 ea.)

Mori Seiki NL-1500Y/500

8" Chuck / 16J Collet x 1.8" max dia. thru-
spindle, 6,000-rpm spindle, live tooling, L&S 36"
Bar Feeder, Part Catcher (1 ea.)

Mori Seiki NL-2000SY/500

8" Main Spindle Chuck / 6" Sub Spindle Chuck /
16J Collet x 2.5" max dia. thru-spindle, 6,000-
rpm sub spindle, live tooling, "Y" Axis, Part
Catcher w/ LNS 6' Bar Feeder (3 ea.)

Mori Seiki NL-2500MC/700

10" Chuck x 3.1" max dia. thru-spindle, 6,000-
rpm spindle, live tooling, Part Catcher (1 ea.)

Mori Seiki NL-2500Y/700

10" Chuck x 3.1" max dia., thru-spindle,
6,000-rpm spindle, live tooling, "Y" axis,
1,000-psi High Pressure Coolant, Part Catcher
w/ Conveyor, 6' Bar Feeder (2 ea.)

CNC Multi-Tasking Centers

Mazak Integrex i-200ST

Twin 8" Chucks, 25.9" max turning dia. x 2.047"
max dia. thru spindles, 5,000-rpm ea., 5th axis
12,000-rpm milling spindle, 72-position ATC,
Renishaw probe, 1,000-psi thru-spindle coolant,
Part Catcher (1 ea.)

Mazak Integrex i-200ST GL100F Gantry Loader

Twin 8" Chucks, 25.9" max turning dia. x 2.952"
max dia. thru spindles, 5,000-rpm ea., 5th axis
12,000-rpm milling spindle, 72-position ATC,
Renishaw probe, 1,000-psi thru-spindle coolant,
LNS 6' bar feeder (1 ea.)



CNC Swiss Machining

Citizen Cincom M16

16mm (.629") max dia., 12,000 max rpm,
12' IEMCA bar feeder

Citizen Cincom m20

20mm (.787") max dia., 8,000 max rpm,
12' IEMCA bar feeder

Citizen Cincom m32

32mm (1.259") max dia., 8,000 max rpm,
12' IEMCA bar feeder

Wire EDM (Electrical Discharge Machining)

Fanuc Robocut α-1iE

23.6" x 15.75" x 12.2" work envelope,
Fanuc control, .004" to .012" wire size, fully
submersible, 4th axis, auto-threading (1 ea.)

Fanuc Robocut α-0iE

14.5" x 10.6" x 10.0" work envelope, Fanuc
control, .004" to .012" wire size, fully
submersible, 4th axis, auto-threading (1 ea.)

Fanuc Robocut α-1iA

20.0" x 14.6" x 12.2" work envelope, Fanuc
control, .004" to .012" wire size, fully
submersible, 4th axis, auto-threading (1 ea.)

Fanuc Robocut α-0iA

12.6" x 8.7" x 7.0" work envelope, Fanuc control,
.004" to .012" wire size, fully submersible,
4th axis, auto-threading (1 ea.)

Fanuc Robocut α-0iC

12.6" x 8.6" x 7.0" work envelope, Fanuc control,
.004" to .012" wire size, fully submersible,
4th axis, auto-threading (1 ea.)

Fanuc Robocut α-1iC

21.6" x 14.6" x 12.2" work envelope, Fanuc
control, .004" to .012" wire size, fully
submersible, 4th axis, auto-threading (1 ea.)

Fanuc a-C600iC

23.6" x 15.7" x 16.2" work envelope, Fanuc
control, .004" - .012" wire size (1 ea.)

Perseo-Erie D-50 EDM Drillmate

Hole popper .010" to .118" dia. range (1 ea.)

Grinders

Blanchard #11
20" dia. table (1 ea.)

Dedtru Model C
.090" to 4" dia. x 6" lg. (1 ea.)

Jones & Shipman 540X
6" x 18" w/ diaform dresser (1 ea.)

Okamoto 6•12/14
6" x 12" w/ DRO, overhead dresser (2 ea.)

Okamoto 6•12/14
6" x 12" w/ DRO (3 ea.)

Okamoto 6•12/14
6" x 12" w/ sine chuck (1 ea.)

Okamoto
8" x 20" Automatic/Hydraulic (1 ea.)

Okamoto
12" x 24" Automatic/Hydraulic (2 ea.)

Okamoto
16" x 32" Automatic/Hydraulic (1 ea.)

Stamping Presses

Verson 100 ton
26" x 32" bed, 12" shut, 40 spm (1 ea.)

Perkins 28 ton
12" x 22" bed, 8.5" shut, 190 spm (1 ea.)

Perkins 60 ton
20.5" x 31" bed, 13.75" shut, 145 spm (1 ea.)

V&O 25 ton
22" x 13" bed, 7.5" shut, 240 spm (1 ea.)

Support Equipment

U-print by Dimension
FDM Prototype Printer, 6" x 8" x 6"
(1 ea.)

Epilog Legend 36ext Laser Engraver
36" x 24" x 12", 120 watt, resolution 75 to
1200 dpi, rotary chuck and base
(1 ea.)

Spartan PA13/3 Cutoff Saw
5 hp, rectangular stock 13" x 14" max,
round bar 13" max (1 ea.)

Sunnen Automatic Hone
ID range .120" to 2.750" (1 ea.)

Johnson cutoff saw, 54" foot shear, Burr-King belt sander, Sundstrand belt sander 3 hp 6" x 30", Hammond belt sander, Delta disc sander, J&S form dresser, Clementina dry sand blaster, Cooley electric heat-treat furnaces, Unitek spot welder, rampe vibrator model VOF-22, BV1DR vibratory bowl, etc.



Inspection Equipment

Mitutoyo Crysta Apex C 574 "CMM"
19.98" x 27.76" x 15.94" fully
programmable, scale resolution 0.00004"
(1 ea.)

Helmel 320-162 "CMM"
20" x 30" x 16" (1 ea.)

Brown & Sharpe "CMM"
14" x 16" x 12" (1 ea.)

Sprint 200 Opt Measure System
8" x 6" x 5", encoder resolution 0.00004"
(1 ea.)

Deltronic DVC-115 Video Comparator
(1 ea.)

Mitutoyo 14" Optical Comparator
w/ microprocessor (1 ea.)

Gagemaster 14" Optical Comparator
w/ digital read out (1 ea.)

Unitro ZST Microscope
w/ fiber optic light, 1.3 mega pixel camera
(2 ea.)

Rockwell hardness tester, B&S Hite-Icator, Granite surface plates, bore gages, height gages, gage blocks, pin gages, inside & outside micrometers, thread gages, bore gages, digital and dial indicators, ring gages, etc.



Additional Services Offered

Plasma High Definition Cutting

6' x 10' cutting area, 7,500 lbs capability (1 ea.)

Waterjet with Angle Correction

5' x 10' cutting area (3 ea.)

CNC Laser Cutting, Tube & Sheet Trumpf

60" x 120", 4,000 watt laser (2 ea.)

CNC Bending Press Brakes Trumpf

10' lg. x 140 ton w/ 6-axis CNC (3 ea.)

CNC Punching Weidemann

48" x 96" table, 32 station, 30 ton (2 ea.)

Shearing

10' x 10' ga., power squaring shear (2 ea.)

Welding

TIG, MIG, Arc



Software

SolidWorks

3D CAD & modeling software capable of reading 2D and 3D files including .step, .stp (STEP files), .x_t, .x_b, .xmt_txt, .xmt_bin, (PARASOLIDS files) and .igs, .iges, (IGES files)

Mastercam CAD/CAM System

Mastercam supports DXF, IGES, and DWG file types

"We are supported by many quality-conscious subcontractors who provide us with a range of services including heat treating, plating, anodizing, chromate, painting, black oxide and castings."

– Dave Smith, Sales Manager



Scan to Learn More

Inquiries:

Please send inquiries and drawings to:
sales@plousemanufacturing.com

PLOUSE
PRECISION MANUFACTURING