



Hirsh Precision Products is a contract manufacturer specializing in production turning, milling and assembly of precision components. We have provided this service since 1979 based on Quality Workmanship and Timely Delivery. The following is a list of our major machines and their workpiece capacity.

CNC MILLS

Okuma MU-4000V

*5-Axis Universal Machining Center
36 pallets - Workpiece Size: 19.7" x 15.7" x 15.7"
166-station auto tool change, 20,000 RPM Spindle
Infrared touch probe – auto part gauging
Laser Tool Setting/Measuring*

DMU 60 eVo Linear

*5-Axis Universal Machining Center
10 pallets - Workpiece Size: 23.6" x 19.6" x 19.6"
120-station auto tool change, 24,000 RPM Spindle
Infrared touch probe – auto part gauging
Laser Tool Setting/Measuring*

Mori Seiki NTX-1000/SZM

*5-Axis Integrated Mill-Turn Center
76-station auto tool change, 20,000 RPM Milling Spindle
Twin Simultaneous Turning Spindles w/2.5" dia. Barfeed
Auto workpiece discharge w/conveyor
Infrared touch probe – auto part gauging
Automatic Tool Setting/Measuring*

Tsugami FMA3

*Horizontal Machining Center, 11 pallets
Workpiece Size: 11.81" x 11.81" x 14.17"
62-station auto tool change, 10000 RPM Spindle
Breakage detection, part gauging*

(3 ea) Brother TC-32BN-CTS

*Vertical Machining Center, 2 pallets
Table Travel: X=21.7", Y=15.7", Z=16.3"
40-station auto tool change, 16000 RPM Spindle
Twin 5-Axis Rotary Tables, Through Spindle Coolant*

Okuma MX-45VAE
2 Face Auto Pallet Change

*Vertical Machining Center
Table Travel: X=30", Y=18.11", Z=17.72"
32-station auto tool change, 15,000 RPM Spindle
Full Machining 4th Axis, Through Spindle Coolant*

Okuma MC-V4020

*Vertical Machining Center
Table Travel: X=40", Y=20.11", Z=17.72"
32-station auto tool change, 15,000 RPM Spindle
Full Machining 4th Axis, Through Spindle Coolant*

(2 ea) Okuma MF-46VA
2 Face Auto Pallet Change

*Vertical Machining Center
Table Travel: X=30", Y=22", Z=18.1"
48-station auto tool change, 15,000 RPM Spindle
Auto Tool Offset, Breakage Detection
Full Machining 5th Axis*

Okuma MB-56VA

*Vertical Machining Center
Table Travel: X=41", Y=22", Z=18.1"
48-station auto tool change, 15,000 RPM Spindle
Auto Tool Offset, Breakage Detection
Full Machining 5th Axis*

Okuma MC-3VA

*Vertical Machining Center
Table Travel: X=20.08", Y=12.99", Z=15.75"
16-station auto tool change, 6000 RPM Spindle*

CNC LATHES

Mori Seiki NLX2500SY/700

W/Sub Spindle and Tail Stock, Milling and Y Axis

Okuma LT200 MY

W/ Iemca 880 MP Magazine Bar Feeder

Okuma LU 15M (4-axis w/milling)

W/ 32 Pallet Overhead Gantry Robot Loader

Okuma LU 15 (4-axis)

Okuma LC 10

Tsugami S206C Mark II

W/ Iemca Elite 220 Magazine Bar Feeder

Tsugami BS20C Mark III

W/ Iemca Genius 120 Magazine Bar Feeder

Tsugami BE20 Mark V

W/ Iemca Genius 120 Magazine Bar Feeder

*14" dia. X 27.7" length, 4000RPM Main, 6000 RPM Sub
10,000 RPM Milling, "C" and "Y" Axis, 3.0" thru Spindle*

*Simultaneous 4 axis and Sub Spindle Machining with live
milling and part unloading arm. 6000 RPM Spindle
8.27" diameter x 37" length, 2.59" dia. thru spindle*

*10" dia. X 25" length, 4500 RPM Spindle
2.00" dia. thru Spindle (bar feeding)*

*10" dia. X 25" length, 4500 RPM Spindle
2.00" dia. thru Spindle (bar feeding)*

*6" dia. x 4" length, 4500 RPM Spindle
1-1/2" dia. thru Spindle (bar feeding)*

*7 Axis Swiss Type Lathe, front and back end working
with milling. Capacity to 3/4" dia., 12,000 RPM Spindle*

*7 Axis Swiss Type Lathe, front and back end working
with milling. Capacity to 3/4" dia., 8000 RPM Spindle*

*5 Axis Swiss Type Lathe, front and back end working
with milling. Capacity to 3/4" dia., 12,000 RPM Spindle*

Manufacturing Computer Systems

HPPI Paperless Shop Floor Information System

SolidWorks CAD System

Gibbs CAM System

Extreme DNC System

Royal 2PM 420/200

*Full multi-media shop floor information system with a PC at
each work center.*

3D Design and solid modeling

3D, rotary and five axis, direct solid model programming.

Shop floor control, up/download programs and tool offsets.

Optical Tool Presetter, 15.8" dia. x 16.5" length

INSPECTION

(2 ea) Zeiss Contura G2 Aktiv Scanning CMM

Pratt & Whitney Labmaster Universal

C-Vision Video Contour Projector

Deltronic CNC Optical Comparator

Extensive Hand Inspection & Support Equipment

*Fully Automatic Probe Changer
Measuring Range x=28", y=28", z=20"*

*Laser-based Measuring System for Gage Calibration
Accurate and Repeatable to .000002" (2 millionths)*

30" Optical/Video Measurement System

4" x 7" Stage with auto edge sensing

Measuring standards traceable to NIST

MANUAL MACHINES

Trumpf VectorMark VMC 1

Monode Custom Laser Marking System

KastoWin A3.3

Grobb 4V 24

Okuma LK (Toolroom Lathe)

(2 ea) Bridgeport Series I (EZ Track)

(2 ea) Roto Finish, Vibratory Finisher

Crest Ultrasonic Cleaning/Passivation System

Safety-Kleen® Aqueous Processing System

YAG Laser Marking Machine

30W Vestige Pulsed Ytterbium Fiber

Automatic horizontal bandsaw, cutoff to 13" x 13"

24" Throat vertical bandsaw

14" diameter x 32" length

Table travel X=30", Y=12"

5 cubic foot bowl

Rigi-Bot automation, closed loop water

Grey Water Processing System

MANUAL MACHINES (cont)

Kaeser SFC 37T Variable Speed Air Compressor

(2) Kaeser AS 25 Air Compressor

Richards Model 3 Rotary Bender

Harig 612 Surface Grinder

Grieve NTR-1000

Optima Drill Point Grinder .012-1.00"

Pioneer VT315-C Vertical Pull Broach

Comco Micro-Abrasive Blaster

Clemco Glass Bead Machine

50 Hp Screw Type Air Compressor

25 Hp Screw Type Air Compressor

Capacity to 3/4" dia.or 3/8" x 2-1/2" rect mild steel

6" x 12" table capacity

High Temperature Bench Oven

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