



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

(2 ea) 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*

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*

Okuma MC-4VA
2 Face Auto Pallet Change

*Vertical Machining Center
Table Travel: X=25.6", Y=16.2", Z=17.7"
20-station auto tool change, 6000 RPM Spindle
Auto Tool Offset, Breakage Detection, Part Gauging*

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

Okuma LT200 MY
W/ lemca 880 MP Magazine Bar Feeder

*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*

Okuma LU 15M (4-axis w/milling)
W/ 32 Pallet Overhead Gantry Robot Loader

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

Okuma LU 15 (4-axis)
W/ 32 Pallet Overhead Gantry Robot Loader

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

Okuma LB 15
W/ 20 Pallet Auto Part Loading Robot

*10" dia. x 20" length, 4500 RPM Spindle
1-3/4" dia. thru Spindle (bar feeding)*

Okuma LC 10

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

Tsugami BS20C Mark III
W/ lemca Genius 120 Magazine Bar Feeder

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

Star KNC 32B

*6 Axis Swiss Type Lathe, front and back end working
with milling. Capacity to 1-1/4" dia., 6000 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, four axis and rotary 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

Zeiss Contura G2 Aktiv Scanning CMM

Zeiss Eclipse - ST 2828-20 DCC CMM

Deltronic CNC Optical Comparator

Extensive Hand Inspection & Support Equipment

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

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

4" x 7" Stage with auto edge sensing

Measuring standards traceable to NIST

MANUAL MACHINES

Trumpf VectorMark VMC 1

Missler DEB280

Grobb 4V 24

Okuma LK (Toolroom Lathe)

Hardinge DSM59 (lathe)

Bridgeport Series I (EZ Track)

Bridgeport Series I (Manual)

Harig 612 Surface Grinder

Crane Lapmaster 24

Reishauer

Roto Finish, Vibratory Finisher

Timesavers HZ120, Finishing Machine

ADF Part Washing Machine

Safety-Kleen® Aqueous Processing System

Imperial PR-320-H Marking Machine

Kaeser SFC 37T Variable Speed Air Compressor

Gardener Denver ES 25 Compressor

Richards Model 3 Rotary Bender

Proconier Lead Screw Tapper

Optima Drill Point Grinder .012-1.00"

Pioneer VT315-C Vertical Pull Broach

Clemco Glass Bead Machine

YAG Laser Marking Machine

Automatic horizontal bandsaw, cutoff to 11" x 11"

24" Throat vertical bandsaw

14" diameter x 32" length

Hand Screw Machine - 1" diameter and under

Table travel X=30", Y=12"

Table travel X=30", Y=12"

6" x 12" table capacity

24" Precision Lapping Machine

Benchtop Deburring Machine

5 cubic foot bowl

4 cubic foot, high energy centrifugal barrel

36" x 4" Basket - uses biodegradable soap compound

Grey Water Processing System

Impression marking (flats and rounds)

50 Hp Screw Type Air Compressor

25 Hp Screw Type Air Compressor


Capacity to 3/4" dia. mild steel, 3/8" x 2-1/2" rectangular mild steel


Updated: October 2009

Hirsh Precision Products, Inc.

Contact Information:

6420 Odell Place
Boulder, CO 80301-3310

 303-530-3131

 303-530-5242

 www.hppi.com

Mike Hirsh

Kent Hirsh

Wayne Fraley

Casey Carnahan

Greg Whipkey

President

Office Manager

Engineering/Project Manager

QA Manager

Manufacturing Manager

mike.hirsh@hppi.com

khirsh@hppi.com

waynef@hppi.com

galab@hppi.com

gregw@hppi.com