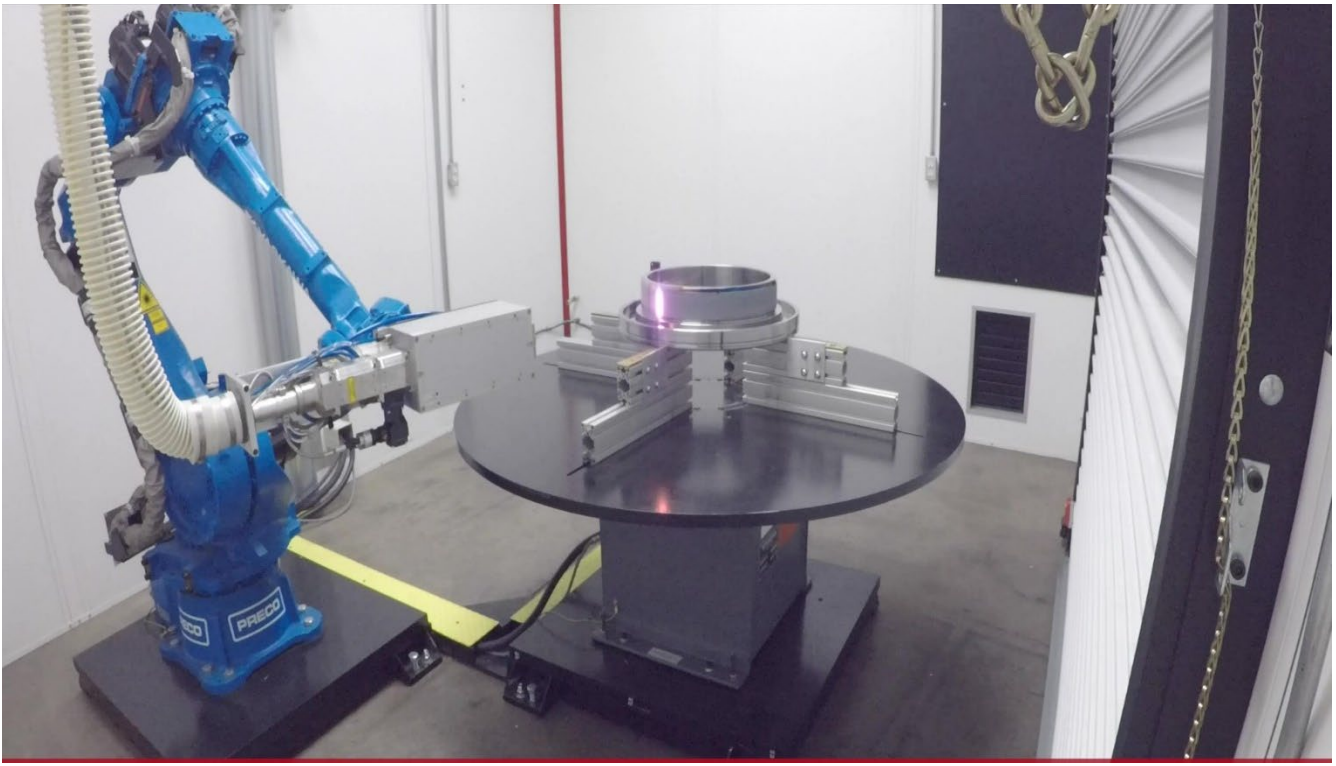


EQUIPMENT LIST

NEW - IN HOUSE HEAT TREATING !

Laser Heat Treating for Surface Hardening



Typical hardness 58 / 62 Rc

Depth to .060 / .080

Accuracy and flexible to parts shape

Repeatable and little distortion

No tooling / short run

Up to 48" diameter

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5 / 6 Axis CNC Machining Centers

CTX beta 1250 TC Turn & Mill 6 Axis 2 spindle complete machining

6-sided complete machining by main spindle
Counter spindles up to 2.6 in bar capacity
with a 48 station Auto Tool Changer, Blum LMT laser tool probe,
Heidenhain iTNC 640HSCI control
Max. turning diameter **19.7 in.**
Max. turning length **47.2 in.**

DMU 125 monoBLOCK® 5-Axis Machining Center : with a 60 station ATC using HSK 63 Tool holders,

Blum LMT laser tool probe, 15,000 rpm Spindle, and with Heidenhain iTNC 640HSCI control

55" (1400 mm) Diameter x 23" (590 mm) High Rotary Table / Swivel range $\pm 120^\circ$

Travel: X, 53" (1200 mm) Y, 50" (1040 mm) Z, 36" (650 mm)

DMU 85 monoBLOCK® 5-Axis Machining Center : with a 60 station ATC using HSK 63 Tool holders,

Blum LMT laser tool probe, 15,000 rpm Spindle, and with Heidenhain iTNC 640HSCI control

41" (1040 mm) Diameter x 23" (590 mm) High Rotary Table / Swivel range $\pm 120^\circ$

Travel: X, 37" (940 mm) Y, 34" (865 mm) Z, 25" (650 mm)

DMU 65 monoBLOCK® 5-Axis Machining Center : with a 60 station ATC using HSK 63 Tool holders,

Blum LMT laser tool probe, 18,000 rpm Spindle, and with Heidenhain Control

33" (840 mm) Diameter x 20" (500 mm) High Rotary Table / Swivel range $\pm 120^\circ$

Travel: X, 29" (735 mm) Y, 26" (660 mm) Z, 22" (560 mm)

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CNC Vertical Turning

[Hankook VTC 200E](#): Vertical Boring Mill with live milling
100" Ø Swing x 60" high; 24 tool ATC

(2) [Hankook VTC 160E](#): Vertical Boring Mill with live milling
80"Ø Swing x 54" high; 24 tool ATC

[Hankook VTC 140](#): Vertical Boring Mill with live milling
63"Ø Swing x 36" high; 24 tool ATC

[Hankook VTC 100](#): Vertical Boring Mill with live milling
50" Ø Swing x 32" high; 24 tool ATC

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CNC Horizontal Turning

Doosan/Daewoo Puma 700 Lathe:

32"Ø Swing x 63"

(3) Doosan/Daewoo Puma 400 Lathe:

Two turning center work-cell / one stand alone

22"Ø Swing x 38"

(2) Doosan/Daewoo Puma 300B Lathe:

Two turning center work-cell

16"Ø Swing x 25"

Doosan/Puma 4100B Lathe:

22"Ø Swing x 42"

Doosan/Daewoo Puma 300MC Lathe:

Turning Center with live tooling

14"Ø Swing x 23"

Doosan /Puma TT 2500SY Lathe:

Twin spindles, twin turrets with live tooling, 10" chuck, 3" diameter bar feeder and parts catcher

13"Ø Swing x 20"

Doosan/Daewoo Puma 240C Lathe:

3" diameter bar feeder and parts catcher

10"Ø Swing x 17"

(2) Doosan/Daewoo Puma 200C Lathe:

Two turning center work-cell

10"Ø Swing x 17"

Doosan PUMA TW2100M-GL Lathe:

Twin spindles w/ 2 8.5" jaw chucks, C axis live milling, and robotic gantry loading

10"Ø Swing x 12"

Puma GT3100LM Lathe:

Turning Center with live tooling w/ 14.8" Ø Swing x 53

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CNC Horizontal Machining Centers

Toyoda FH-450S HMC: with a 120 station ATC; **12 Pallet Flexible Manufacturing System**;
15,000 RPM CAT-40 spindle; full 4th axis ;
Part probing; Tool Breakage Detection System

Travel X, 23.62" (600 mm) Y, 23.62" (600 mm) Z, 23.62" (600 mm)

Makino A-92 HMC: with 92 station CAT-50 ATC; pallet changer; 10,000 RPM spindle; full 4th axis; part probing.

Travel X, 60" (1520 mm) Y, 50" (1250 mm) Z, 53" (1350 mm)

Makino A-82M HMC: with a 60 ATC; pallet changer; high-torque CAT-50 spindle; full 4th axis; part probing.

Travel X, 43" (1100 mm) Y, 33" (840 mm) Z, 40" (1020 mm)

Makino A-82 HMC: with a 60 ATC; pallet changer; 10,000 RPM CAT-50 spindle; full 4th axis; part probing.

Travel X, 43" (1100 mm) Y, 33" (840 mm) Z, 40" (1020 mm)

MAKINO A81NX HMC: with a 60 station ATC; pallet changer; 10,000 RPM CAT-50 spindle; full 4th axis; PQI Renishaw probing system

Travel X, 35" (900 mm) Y, 35" (900 mm) Z, 40" (1020 mm)

(2) Makino A-51 HMC: with a 60 station ATC; pallet changer; 14,000 RPM CAT-40 spindle; full 4th axis; part probing.

Travel X, 22" (560 mm) Y, 22" (560 mm) Z, 23" (600 mm)

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CNC Vertical Machining Centers

[DMG-MORI DMC 850 V with Heidenhain control](#): with a 30 station ATC

Travel X, 34" (850 mm) Y, 21" (530 mm) Z, 20" (510 mm)

[DMG-MORI DMC 1450 V with Heidenhain control](#): with a 30 station ATC

Travel X, 57" (1450 mm) Y, 28" (712 mm) Z, 22" (560 mm)

[Toyoda BM 1600 VMC](#): with a 30 station ATC

Travel X, 26" (660 mm) Y, 52" (1320 mm) Z, 26" (660 mm)

[Doosan VC 510](#): with a 30 station ATC and pallet changer

Travel X, 30" (762 mm) Y, 20" (516 mm) Z, 22" (1259 mm)

Supporting Equipment

(2) [KASTOwin A 4.6](#) fully-automated bandsaws, 18" capacity

[Zoller Venturion 450/ 6](#) presetting and measuring machine

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Quality

Hexagon GLOBAL S coordinate measuring machine (CMM) : 40" x 60" x 50" with motorized head, scanning probe and automatic styli changing feature. Fully programmable from solid models.

Romer Arm: a portable CMM with 9 foot reach. Works with solid models and provides automated data collection.

Faro Arm; a portable CMM with 4 foot reach. Works with solid models and provides automated data collection.

Mitutoyo 201J Profilometer

Krautkramer MIC-10 ultrasonic contact impedance hardness tester

Optima Plus Master Height Gauge: 24"

Mechanical Gauging to 100"

CAD/CAM & Technology

Model-based definition

- Solidworks
- Espirit

Accepted drawing file formats include Solidworks, Iges, Parasolid, Inventer, Catia, and ProE
CIMCO CNC/DNC editing and data transfer software

Wireless Ethernet LAN connections to all CNC equipment

Zoller Smile 600 Tool Setter: digital and vision tool settings with wireless transfer of data to machine controls.

- PowerShrink enables us to preset and shrink our tools to nominal lengths in record time.
- We benefit by getting highly accurate concentricity, longer tool life, extended reach , increased spindle time and reduced tooling costs.

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