

# KISKI PRECISION INDUSTRIES

## Equipment List

### CNC Equipment

#### Vertical Mills

- 1 – Mazak Variaxis C-600 W / 5-Axis capability - 2 pallet changer  
X 25" x Y 21" x Z 21" B -30 - +120 C 360
- 3 – Mazak VCN 530C Vertical Machining Center with Smooth Control 20" x 50" Table Travels  
15,000 RPM Spindle W/ 4th axis capability
- 3 – Mazak VCN 510C Vertical Machining Center with Matrix Control 20" x 50" Table Travels  
2,000 RPM Spindle.
- 1 – Haas VF-9/50 Vertical Machining Center, 84" x 40" x 36" Travels
- 2 – Haas CNC VF-6 Vertical Machining Center, 64" X 32" X 30" Travels W/ 4th axis capability
- 1 – Mazak VTC-250/50 taper with Matrix Control 26" x 69" Travels. Mazak 3D.
- 1 – Haas VF-2SS Vertical Machining Center, 16" x 30" x 20" Travels 12,000 RPM Spindle With  
Collaborative Cobot Robot Loader System.
- 1 – Haas Mini VMC Vertical Machining Center 16" x 12" x 10" Travels W/ 4th axis capability

#### Horizontal Mills

- 1 – Mazak Nexus 8800-II Horizontal Machining Center w/ Matrix Control  
X = 55", Y = 47", and Z = 52" travel, 1 degree indexing, 50 HP. 8,000 RPM spindle 1,000 PSI thru  
spindle coolant, w/ 120 tool capacity
- 1 – Mazak FH-680 CNC Horizontal Machining Center w/ Fusion 640M control  
6,000 rpm 50 taper, W/ through spindle coolant, Travels X= 42", Y 32", Z, 32" W/120 tool  
capacity.
- 1 – Mazak HCN 4000 Horizontal Machining Center w/ Matrix Control X = 22", Y = 20", and Z =  
20" travel, 12,000 rpm spindle w/ 60 tool capacity.
- 2 – Mazak Model HTC-400 CNC Horizontal Machining Center w/ Fusion 640M CNC control, 1  
Deg. Pallet positioning, through spindle coolant, X = 22", Y = 20", and Z = 20" travel, w/ 30  
tool capacity, 10,000 rpm spindle

#### Horizontal Mills (W/ Pallet Tech)

1 – Haas EC-400 Full 4th axis rotary, through spindle coolant, X =22", Y = 25", and Z = 22" travel, W/ 100 tool capacity, 15,000 RPM Spindle 7 pallets total

### Lathes

1 – Haas SL-20 CNC Lathe, 10" x 20" (max), 20" Swing, 20-hp, 50-4,000 rpm, 8" Chuck,

1 – Mazak Nexus 640 quick turn CNC Lathe 6,000 rpm, 6" Chuck

1 – Haas DS 30 SSY Dual spindle CNC Lathe 16" x 23" 30-hp, 4,00 rpm w/ live Tooling and Y-axis capabilities.

1 – Okuma Model Captain L370M CNC Lathe, Live Tooling w/Hennig Chip Conveyor,

See the bottom of this page for a list of CNC Equipment located at our parent company.

## Manual Equipment

### Mills

4 – Sharp TMV Mill, 10" X 50" table, w/ Prototrak Retrofit 1 – Cleveland Mill, 10" X 50" w/ Prototrak Retrofit

1 – Bridgeport, 9" X 42" w/ digital readouts

1 – Trak Bed Mill, 9" x 49" table, w/DPM RX2 w/ 3-axis CNC control

2 – Bridgeport 2 HP Vertical Milling Machine 9" x 42" table powered w/ Acu-Rite DRO 200S

### Lathes

1 – Sharp 16 x 40 Lathe w/ digital readout

1 – Summit 18 x 80 w/ 4" thru bore & Newall C80 DRO

1 – Sharp 1340VS 13 x 40 Lathe

### Boring mills

1 – Giddings & Lewis 5" Horizontal Boring Mill, (rebuilt in 1998) 108", w/ 12' table & Lucas Air Lift Rotary Table 4' x 5'

1 – Shibaura Horizontal Boring Mill 41" x 35 ½" w/ digital readouts

## EDM Equipment

### Wire EDM

1 – Agie/Charmilles Cut 2000S Wire EDM w/ Dual Heads, (Travel X=350mm, Y=250mm, Z=256mm) Wire diameters range from .006 - .010 diameter. Programming is supported by Esprit Wire.

2 – Sodick ALN 600G I Groove Wire EDM (Travel X=23.62,Y=15.75,Z=13.78) Wire Diameters range from .006-.012. Programmed by Esprit

2 – Mitsubishi FA 10 S Advance Wire EDM (Travel X=13.8,Y=9.8,Z=8.7) Wire Diameters range from .004-.01. Programmed By Esprit

### **CONV. EDM**

1 – Sodick AL40G CNC Die Sinker Machine (Travel X=15.7,Y=11.8,Z=10.6)

1 – 2022 Sodick K3HS Hole Popper (Travel X=11.81,Y=15.75,Z=11.81) Hole sizes drilled .012 Steel only,.020,.030,.040,.060

## **Grinding Equipment**

### **Wet Grinding**

2 – Chevalier Wet Grinders 16" × 40"

2 – Chevalier Wet Grinders 8" × 18"

### **Surface Grinding**

1 – Parker Majestic Freedom CNC Surface Grinder 8"× 15"

18 – Parker Majestic Manual Surface Grinders 6" × 12"

### **Jig Grinding**

1 – Fosdick/LeBlond CNC Jig Grinder 20"× 48"

2 – Moore CNC Jig Grinders 20" × 40" & 10' x 20"

1 – Moore Manual Jig Grinder 10" × 20"

### **Cylindrical Grinding**

1 – Myford Cylindrical Grinder 10.5" length Max  $\varnothing$  = 4"

1 – Kellenberger OD Grinder 18" length max  $\varnothing$  = 9"

1 – Heald OD / ID Grinder 12" length max OD  $\varnothing$  = 12" max ID  $\varnothing$  = 7"

## **Heat Treating Equipment**

6 – Heat Treat Furnaces with internal temperatures up to 2200F with capacity of up to 10" x 18" x 19"

## **QC Equipment**

1 – Zeiss O-Inspect 322 CMM, 300mm x 200mm x 200mm (Vision and Touch Probe Capabilities)

1 – Faro Edge W/ 9' reach 7 axis Portable CMM

2 – Trimo's 24" Height Gage

- 1 – Fully equipped QC room W/ Challenger Granite Surface Plate, 4' X 8', Grade A 1 – Starrett Surface Plate, 24" X 36", Grade AA
- 1 – Wilson Hardness Tester
- 1 – Set Starrett Micrometers to 36" 1 – Set Bore Micrometers to 12"
- 1 – Set pin gages .003 to 1.000 +/-
- 1 – Brown & Sharpe Reflex 343 CMM
- 1 – Sic-Marking L-Box Laser Engrave
- 3 – Optical Comparators

### **Wire Assembly**

- 2,000 SQ. FT. of assembly space
- 4 – Wire assembly stations w/ soldering, crimping w/testing and label printing capabilities.

### **Mechanical Assembly**

- 10,000 SQ. FT of assembly space
- 6 – Assembly stations fully equipped for custom mechanical assembly w/ 5,000 SQ. Ft. dedicated space.
- 1 – Customer specific product stations W/ prepping, gluing, and assembly stations.
- 1 – Custom fabricated enclosure assembly area.

### **Fabrication Equipment**

#### **Crane, Fork truck Capacity**

- 1 – Progressive 10 Ton Electric Overhead Traveling Crane, Floor Controlled, 56' Span, Class C Duty
- 1 – Heyster 8000 lb ForkLift Truck, Model h80C, LP Gas
- 2 – 4000 lb Mitsubishi Fork Trucks

#### **Welding equipment**

- 2 – Miller Syncrowave 250 Welders w/ Bernard Water Cooling System. 1 – Precision Tig 375 Welder
- 3 – Miller DialArc 250 AC/DC Welders w/Cable & Rod Holders
- 1 – Miller Model XMT 300 CC/CV/DC Inverter Arc Welder with S22A wire feeder and XRA ExtendReach Wire Feed for aluminum welding, cable & guns, & misc.

- 2 – Lincoln Model <sup>TM</sup> 300/300 and 400/400 IdealArc Welders w/ Cable & Rod Holders 1 – Lincoln Procut 60, MillerMatic 200 Welder, and Miller Model Imsn-521 2.5KVA Spot Welder w/ E-16 Timer
- 1 – Miller Dimension 400 w/ DVC DM@ Dual Wire Feeder, Dual Cables and Guns
- 1 – MILLER ELECTRIC TIG Welder: Syncrowave 300, AC/DC, Power Source Only, 300 A
- 2 – LightWELD XR Extended Range Handheld Laser Welding & Cleaning machine with fully enclosed booth. capable of welding Stainless steel, mild steel, galvanized steel, aluminum up to 6.35 mm, copper up to 2 mm and dissimilar metals
- 1 – Miller Dimension 452 w/ 24V Constant Speed Wire Feeder
- 2 – Welding Positioners: 1 Gullco Model GP-150-005-B, w/ 12” Turntable; 1 Preston Easton Model PA15HD4-33, w/ 24” dia Turntable, capacity approx 600#
- 1 – Phoenix Weld Wire Dry Ovens (3), type 300#, 1000 watts; (1) type 900#, 2300 watts

### **Weld Certifications**

AWS B2.1-1-234, 2006 AWS B2.1-8-212, 2001

### **Misc. Equipment**

- 1 – Blanchard Grinder 36” table capacity 1 – Parker Majestic Surface Grinder
- 1 – 60 Ton L&J Obi Punch Press
- 1 – Lindberg Atmosphere Heat Treat Box Furnace 1 – S-36 Flex Arm Tapping Machine
- 1 – 40 Ton HD Press
- 1 – 2021 Eaton Polar Air 75 Hp. VSD rotary screw air compressor
- 1 – 2012 Eaton Polar Air 50 Hp. VSD rotary screw air compressor
- 1 – Sunnen Precision Hone, 1-1/2” spindle, Model MBB1290D, w/ set of dedicated tooling

### **Saws**

- 1 – Marvel Model 8-MK#1 Vertical Band Saw
- 1 – 2016 DoAll Automatic Horizontal Band Saw, Model DC-280 NC 1 – DoAll Vertical Band Saw w/ 16” throat
- 1 – DoAll 3.5 HP 12” dia. blade Chop Saw 1 – W.F. WELLS AC-7 Band Saw

## Parent Company CNC Equipment

The following equipment is located at our parent company 30 minutes from our headquarters.

### Vertical Mills

- 3 – Mazak VCN 530C Vertical Machining Center with Smooth Control 20" x 50" Table Travels 15,000 RPM Spindle W/ 4th axis capability
- 10 – VTC-200C Vertical Machining Center Fusion 640M control Table Travels 65.3" X 20.00" X 20.00" 12,000 RPM Spindle
- 2 – VTC-300C Vertical Machining Center Fusion 640M control Table Travels 65.3" X 30.00" X 20.00" 10,000 RPM Spindle W/ Independent 4th axis (Indexer)
- 1 – 1 – Mazak VCN 700D Vertical Machining Center with Smooth Control 27" x 60" Table Travels 15,000 RPM Spindle

### Vertical Mills (W/ Pallet system)

- 1 - AJV-35/80 Vertical Machining Center Fusion M+ control Table Travels 78.7" X 31.5" X 20.0" 5,000 RPM Spindle, Dual Pallets
- 7 - FJV-35/80 II Vertical Machining Center Fusion M+ control Table Travels 78.7" X 31.5" X 23.0" 10,000 RPM Spindle, Dual Pallets

### Horizontal Mills (W/ Pallet Tech)

- 2 – Mazak HCN 5000/50 Horizontal Machining Centers w/Smooth G Control X = 31", Y = 28", and Z = 28" travel, 10,000 rpm spindle w/ 120 tool capacity. 14 pallets each 28 pallets total

### Mill/Turn

- 1 – Mazak Integrex 300SY W/ FUSION 640 Control Travels, 40 X 21 (10" Chuck) 10,000 RPM Spindle W/Bar Feeder & Vacuum unloader
- 1 – Mazak Integrex 300-4ST W/Matrix Control Travels, 60 X 21 (10" Chuck) 4,000 RPM Spindle W/ Bar Feeder & Robot
- 1 – Mazak Integrex I-200S W/Smooth Control Travels, 40 X 12 (8" Chuck) 4,000 RPM Spindle W/ Bar Feeder & Robot
- 1 - Mazak Integrex i-630V/6 W/Smooth Control Travels, 56 x 41 x 41 (41" Turning Capability) Full 5-Axis milling capability.

### Lathes

- 1 – Mazak QTN-250-II Nexus CNC Lathe 24" x 10" 4,000 rpm, 10" Chuck

1 – Mazak QTN-350-II Nexus CNC Lathe 47" x 16" 5,000 rpm, 10" Chuck, Bar Feeder

1 – Mazak SQT-200MS W/ Fusion 640 Control CNC Lathe 47" x 16" 3,300 rpm, 12" Chuck

**Cylindrical Grinding**

2 – Kellenberger OD ,ID & Face Grinders W/ Heidenhain controls 45".0 X 24.6" (19" Swing)  
28,000,42,000 & 60,000 RPM