

UNITED STANDARD INDUSTRIES, INC.

Comprehensive Quality Manufacturing

Equipment

United Standard Industries Facilities are housed in a 35,000 sq. ft. all brick modern air-conditioned building. We are equipped with high intensity lighting and supplied by 3000 Amp., 3-Phase power with a Master Air Compressor System (and backup system) feeding the entire plant.

The following is an index of the manufacturing and service equipment at U.S.I. facilities. Click on any link to view a list of specific equipment.

- [The ESPRIT Advanced Manufacturing System](#)
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 - [CNC Machining Centers and Standard Milling Machines](#)
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The ESPRIT Advanced Manufacturing System

The ESPRIT Advanced Manufacturing System is a high-performance computer-aided manufacturing (CAM) system for a full range of machine tool applications. ESPRIT delivers powerful full-spectrum programming for the 2-5 axis milling, 2-10 axis turning, and 7 axis multi-tasking mill-turn machining performed at United Standard Industries, Inc.

Production Control is directed through a Dell Dimension 4500S. This provides instant status of any job with updates on a daily basis.

[Equipment Index](#)

Manufacturing Equipment

Computer Numerical Control Machining Centers and Standard Milling Machines

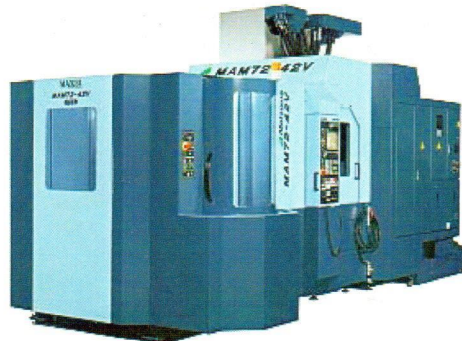
(ONE) FOUR-AXIS MATSUURA H.PLUS-405 PC. 6 HORIZONTAL MILLING CENTER

With GTech 30i Control, 6 pallet floor system, 500mm pallet, 240 tool capacity, 30 HP 12,000 RPM spindle, high pressure coolant through the spindle, laser setting probe with tool recognition for lights out unattended function, remote pulse generator, 360,000 position rotary table, Firetrace automatic fire extinguisher, chip conveyor, and Filtermist system.



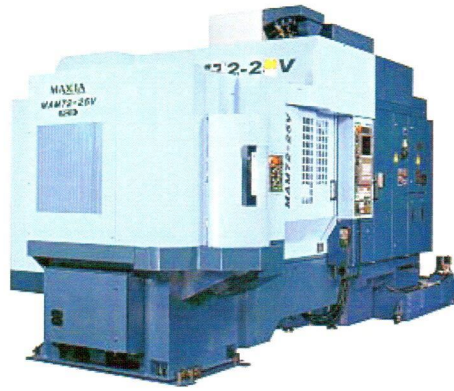
(ONE) FIVE-AXIS MATSUURA VERTICAL MACHINING CENTER

Model MAM72-42V PC5 with G-Tech 30i Control, Five Pallet Floor System, 240 Tool Capacity, Fifteen H.P. 12,000 R.P.M. Spindle, High Pressure Coolant through the spindle, MP700 Renishaw In-Process Laser Tool Measuring System (Spindle Probe), Laser Tool Recognition for lights-out unattended function, NC-4 Laser Tool Breakage Detection, Rigid Tapping, Remote Pulse Generator, 360,000 Position Rotary Table, 16.53" diameter by 13.78" length Maximum Work Size, Rotary Wiper, and Filtermist system.



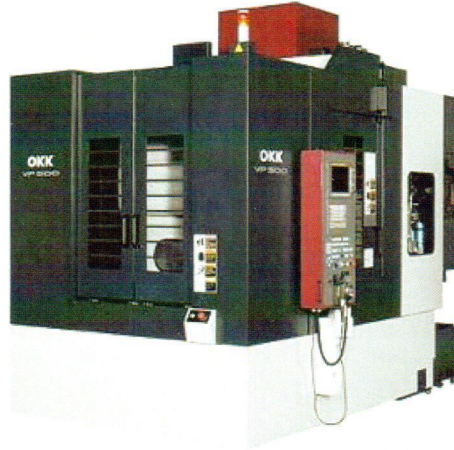
(ONE) FIVE-AXIS MATSUURA VERTICAL MACHINING CENTER

Model MAM72-25V PC10 with GTech 30i Control, Integrated Multi Pallet Pool, Ten Pallet Floor System, 240 Tool Capacity, Ten H.P. 15,000 R.P.M. Spindle, High Pressure Coolant through the spindle, NC-3 Laser Tool Setting Probe, with Laser Tool Recognition for lights out unattended function, Rigid Tapping, Remote Pulse Generator, 360,000 Position Rotary Table, 9.8" x 9.8" Workpiece Size, Rotary Wiper, Firetrace Automatic Fire Extinguisher, Filtermist system, and chip conveyor.



(ONE) FIVE-AXIS MITSUBISHI HORIZONTAL CNC FLEXIBLE MACHINING CENTER

Model MH50C with 60 Tools, Fanuc Model 11M Control, Two Pallet Shuttle System with 20" x 20" Table, 28" x 25" x 25" Envelope, Inductosyn Scales, 360,000 Position (0.001 Degree Resolution) Rotary Table, 4000 RPM, 15 H.P., and 1760 lb. maximum piece weight, and chip conveyor.



(ONE) THREE-AXIS OKK VERTICAL CNC MACHINING CENTER

Model VP500-2APC with Fanuc 310iSA, Twin 20.6" x 19.69" Pallet System, Maximum Work Piece weight of 880 pounds per pallet, 30 each CAT-40 Tool Capacity, 12,000 R.P.M. 30 H.P. Spindle, 1000 P.S.I. High Pressure Coolant thru the Spindle, Circular and Helical Interpolation, Rigid Tapping, and chip conveyor.



(TWO) FOUR-AXIS KITAMURA HORIZONTAL CNC FLEXIBLE MACHINING SYSTEM

Model HX400iF, two with 100 tools, Fanuc Model 16iMB Control and Remote Pulse Generator, two pallet Shuttle System with 15.7" x 15.7" Table, 25.6" x 25.6" x 37.8" Envelope, 360,000 Position (0.001 Degree Resolution) Rotary Table, Rigid Tapping, 13,000 RPM Spindle, 25 H.P., High Pressure Coolant, 880 lb. maximum piece weight, with Laser Tool Recognition for unattended lights-out function protected by Firetrace Automatic Fire Extinguisher System, Filtermist System, and chip conveyor.



(ONE) FANUC ROBODRILL eco 2 VERTICAL MILLING MACHINE

With Fanuc 31i CNC control (5 axis capability), 14 tool automatic tool changer, 10,000 RPM, 14.75 H.P. direct drive spindle, rapids 2,125 ipm, Axis travels X=19.68", Y=15.74", and Z=12.9".

(ONE) FOUR-AXIS MORI-SEIKI CNC MACHINING CENTER

Model MV-65/50 with 40 Tools, Fanuc Model 11M Control, and Remote Pulse Generator, 67"x28" Table, 60" x 26" x 30" Envelope, 360,000 Position (0.001 Degree Resolution) 15" Rotary Table, Helical Interpolation, 4000 RPM, 30 H.P., 4409 lb. maximum piece weight.



(ONE) THREE-AXIS MORI-SEIKI CNC MACHINING CENTER

Model MV-55/50 with 30 Tools, Fanuc Model 16M Control and Remote Pulse Generator, 55" x 21" Table, 41" x 22" x 22" Envelope, Helical Interpolation, Oil Hole Drill Coolant System, Rigid Tapping, 4000 RPM, 15 H.P., 3300 lb. maximum piece weight.

(ONE) FIVE-AXIS OKK CNC MACHINING CENTER

Model VM-5III with 30 Tools, Fanuc Model 160iS Control with Remote Pulse Generator, automatic shutoff, 41" x 22" Table, 41" x 20" x 20" Envelope, 360,000 Position (0.001 Degree Resolution) Helical Interpolation, 12" Rotary Table, Oil Hole Drill Coolant System, Rigid Tapping, High Pressure Coolant, 10,000 RPM, 20 H.P., 1760 lb. maximum piece weight.

(ONE) FOUR-AXIS OKK CNC MACHINING CENTER

Model VM-5III with 30 Tools, Fanuc Model 160iS Control with Remote Pulse Generator, automatic shutoff, 41" x 22" Table, 41" x 20" x 20" Envelope, 360,000 Position (0.001 Degree Resolution) Helical Interpolation, 12" Rotary Table, Oil Hole Drill Coolant System, Rigid Tapping, High Pressure Coolant, 10,000 RPM, 20 H.P., 1760 lb. maximum piece weight.



(ONE) FOUR-AXIS OKK CNC MACHINING CENTER

Model VM-5III with 30 tools, Fanuc Model 180iS Control with automatic shutoff, and with remote Pulse Generator, 41" x 22" Table, 41" x 20" x 20" Envelope. Helical Interpolation, 360,000 Position (0.001 Degree Resolution) Haas Rotary Table interface connection, Oil Hole Drill High Pressure Coolant System, Rigid Tapping, 10,000 RPM, 15 H.P., 1760 lb. maximum piece weight.

(TWO) FOUR-AXIS KITAMURA CNC MACHINING CENTERS

Model Mycenter 3 with 30 Tools, Fanuc Model 15M Control and Remote Pulse Generator, 43" x 21" Table, 33" x 19" x 18" Envelope, 360,000 Position (0.001 Degree Resolution) 12" Rotary Table, Helical Interpolation, 6000 RPM, Rigid Tapping, 10 H.P., 1320 lb. maximum piece weight, and Filtermist system.

(ONE) FOUR-AXIS KITAMURA CNC MACHINING CENTER

Model Mycenter 3 with 30 Tools, Fourth Axis Indexing Capability, Fanuc Model 15M Control, 43" x 21" Table, 33" x 19" x 18" Envelope, Helical Interpolation, 8000 RPM, Rigid Tapping, 15 H.P., 1100 maximum piece weight, and Filtermist system.

(ONE) FOUR-AXIS MORI-SEIKI CNC MACHINING CENTER

Model MV 45/40B with 30 Tools, Fanuc Model 11MB Control and Remote Pulse Generator, 47" x 21" Table, 32" x 18" x 20" Envelope, 360,000 Position (0.001 Degree Resolution) 12" Rotary Table, Helical Interpolation, 6000 RPM, 10 H.P., 1540 lb. maximum piece weight, and chip conveyor.

(ONE) FOUR-AXIS MORI-SEIKI CNC MACHINING CENTER

Model MV 45/40 with 30 Tools, Fanuc Model 11MB Control and Remote Pulse Generator, 43" x 18" Table, 30" x 18" x 20" Envelope, 360,000 Position (0.001 Degree Resolution) 12" Rotary Table, Helical Interpolation, 6000 RPM, 10 H.P., 1540 lb. maximum piece weight, and chip conveyor.

(TWO) THREE-AXIS KITAMURA CNC MACHINING CENTERS

Model Mycenter 3XiF with Rotary Indexing capability, 30 Tools, Fanuc Model 16i MB Control, 35" x 16" Table (1969 I.P.M.), 30" x 18" x 18" Envelope, 20,000 R.P.M. Spindle, 25 H.P., Coolant through the spindle, Rigid Tapping, 1100 lb. maximum piece weight, and Filtermist system.



(ONE) THREE-AXIS KITAMURA CNC MACHINING CENTER

Model Mycenter 3Xi with Rotary Indexing capability, 30 Tools, Fanuc Model 16iM Control, 35" x 16" Table, 30" x 18" (1200 I.P.M.) Table travel with 18" Z-Axis, Helical Interpolation, 15,000 RPM Spindle, 15 H.P., Coolant through the spindle, Rigid Tapping, 1100 lb. maximum piece weight.



(TWO) FOUR-AXIS KITAMURA CNC MACHINING CENTERS

Model Mycenter 3 with Rotary Indexing Capability, 30 Tools, Fanuc Model 11M Control, 43" x 20" Table, 43" x 20" x 18" Envelope, Helical Interpolation, 6000 RPM, Rigid Tapping, 10 H.P., 1540 lb. maximum piece weight.

(ONE) THREE-AXIS KITAMURA CNC MACHINING CENTER

Model Mycenter 2XiF, with Fanuc 16iMB Control, 24 Tools, Two Pallet High Speed "Spark" changer, 14" x 22" Table, 14" x 22" x 18" envelope, 20,000 RPM Spindle, 15 H.P., 220 PSI High Pressure Coolant thru the spindle, Rigid Tapping, Helical and Circular Interpolation, Filtermist system, and chip conveyor.



(ONE) THREE-AXIS KITAMURA CNC MACHINING CENTER

Model Mycenter 2 with Rotary Indexing Capability, 20 Tools, Fanuc Model OMB Control, 35" x 16" Table, 23" x 17" x 18" Envelope, Helical Interpolation, 7000 RPM, 15 H.P., 9" Rotary Table, Rigid Tapping, 660 lb. maximum piece weight.

(ONE) THREE-AXIS KITAMURA CNC MACHINING CENTER

Model Mycenter 1 with 16 Tools, 35 Taper, Fanuc Model OMC Control, 26" x 16" Table, 22" x 16" x 16" Envelope, 13,000 RPM, 7.5 H.P., Full Enclosure and Coolant, 800 lb. maximum piece weight.

(ONE) FANUC ROBODRILL MATE
With Fancu Oi-MC Control, 14 Tool Automatic
Tool Changer 10,000 R.P.M., 13.6 H.P. direct drive
spindle, Rigid Tapping to 3600 R.P.M., Flood
Coolant, 550 pound table capacity, Axis Travels:
X=16.14", Y=12.20", Z=12.99", and maximum Z-
axis clearance of 18.9".



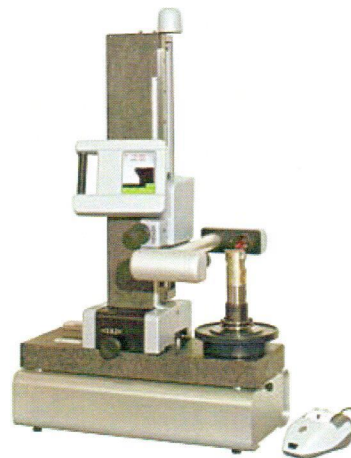
(SIX) BRIDGEPORT VERTICAL MILLS
2 H.P., power cross-feed, equipped with Accurate Digital Readouts, chrome ways, one-shot lubrication. One
with Bridgeport Shaping Head.

(ONE) NICHOLS PRECISION HORIZONTAL MILLS
Air feed.

**(ONE) EZSET WITH IMAGE
CONTROLLER**
Version 1.3, with 40 and 50 Taper Capability, and
400mm range.



**(ONE) OPTICAL ELBO CONTROLLI
PRESETTER**
Model WASP, 40 and 50 Taper Capability.



(TWELVE) MAPLE TOP STEEL WORK STATIONS

(ONE) TENNSCO MODULAR WORKBENCH
72" x 30" with six drawers and 2" thick Maple top.

Computer Numerical Control Turning Centers

**(ONE) TSUGAMI PRECISION SWISS TYPE
ELEVEN-AXIS SCREW MACHINE**

Model BH38 With sliding headstock, 1-1/2" bar capacity, 12 station turret with independent drive mechanism. Maximum tools: 34. Up to three tools in the cut simultaneously. Fanuc 31A control with special programming software. Machine is equipped with 2000 PSI coolant pump with 8 port delivery, FMB 5-55 Turbo 12 foot magazine bar feeder for around the clock operations. Chip conveyor, pollution control system. Firetrace automatic fire extinguisher system for unattended operation; 15 H.P. main spindle, 7-1/2 H.P. back spindle, full C-axis control on both spindles. Special adapter bushing for smaller diameter material. 3 H.P. drive on live tools.



(TWO) NINE-AXIS SIMULTANEOUS NAKAMURA-TOME SUPER NTMX MULTITASKING TURNING CENTER

Model WT150 MMY with Fanuc 31iA control opposing twin spindles with 2.5" bar feed capacity. 5,000 RPM spindle speed with a full 5 axis milling head. The left spindle is 8" Autoblok with a 6" right spindle. 30.70" maximum turning length with 7.87" turning diameter both spindles. In/process measurement/auto center optical tool probe. 5 axis software A1 contour control (200 block look ahead). The machine has circular and Helical Interpolation. Parts eject cylinder with air blow parts catcher. (1) chip blaster (1,000 PSI) with a Turbo MicroScraper 500 chip conveyor. Automatic power off fire suppression system.



(ONE) NAKAMURA-TOME SEVEN-AXIS MULTI-TASKING CNC TURNING CENTER

Model WT-300 with Fanuc 18iTB CNC Control, Dual Spindles, 25 H.P. each, 2.6" thru-spindle, Ten-inch Chucks, Upper and Lower Turrets (24 Stations total with 7.5 H.P. each), 15 Live Tools, Automatic Part Remover, High Pressure Coolant, Helical Interpolation, Automatic Tool Setter, and chip conveyor.



(ONE) HEAVY DUTY DOOSON HIGH PERFORMANCE TURNING CENTER

Model PUMA 400 LMB with Fanuc Oi-TD CNC control. The machine has a 50 H.P. main spindle motor with 2,000 RPM main spindle. Equipped with a 21" Chuck and a 4.60" through hole. 22" cutting capacity with 80" turning length. High torque Isolated Gear Box. Heavy duty 12 station turret which is capable of holding 12 live tools. The turret is equipped with a 15 H.P. motor that will generate 103 FT-lbs. of torque. Programmable tailstock with a #5 Morse taper Quill. LNS Hydraulic steady rest equipped with coolant on the rollers. The Chuck can hold a 1,540 lbs. part, and between centers the lathe can turn a 4,400 lb. part. Equipped with tool presetter and chip conveyor.



(ONE) TWO-AXIS DAEWOO HIGH PERFORMANCE CNC TURNING CENTER

Model Puma 12L with 10 Tools, Fanuc Model 10TF Control (conversational), 8", 12", and 15" Hollow Hydraulic Chucks, 30 H.P., Programmable Tail Stock, 3-1/2" thru Spindle, 23" Swing, 40" between centers, 2500 RPM, with 16C Collet Closure and 2-1/4" capacity Bar Puller and chip conveyor.

(ONE) TWO-AXIS HWACHEON CNC TURNING CENTER

Model Hi-ECO31A, with Fanuc 18-TC Control, 10" Chuck, 20 H.P., Programmable Tail Stock, 16C Collet Closer, 10 Tools, 2.7" thru Spindle, 20.5" Swing over bed, 24" between centers, 3200 RPM, maximum turning diameter 15" and chip conveyor.

(ONE) TWO-AXIS HWACHEON CNC TURNING CENTER

Model Hi-ECO31A, with Fanuc O-TC Control, 10" Chuck, 16" Collet Closer, 20 H.P., 10 Tools, 2.7" thru Spindle, 20.5" Swing over bed, 24" between centers, 3200 RPM, maximum turning diameter 15" and chip conveyor.

(ONE) TWO-AXIS HWACHEON CNC TURNING CENTER

Model Hi-ECO21HS, with Fanuc 18-T Control, 6" & 8" Chucks, 16C Collet Closer, 15 H.P., 12 Tools, 2.4" thru Spindle, 22.9" Swing over bed, 16" between centers, 4000 RPM, maximum turning diameter 11" and chip conveyor.

(ONE) TWO-AXIS HWACHEON CNC TURNING CENTER

Model Hi-TECH 100B with Fanuc Oi-TB Control, with 6" Chuck, 16c Collet Closer, 10 H.P., 12 Tools, 2.9": thru Spindle, 19.7" Swing over bed, 15.7" between centers, 6000 RPM, Maximum turning diameter 13.8" and chip conveyor.

(ONE) TWO-AXIS MORI-SEIKI CNC TURNING CENTER

Model SL-1A with 12 Tools, Fanuc Model 11TA Control, 6" Hollow Hydraulic Chuck, 15 H.P., 1-5/8" thru Spindle, 1-5/16" Barfeed, 14" Swing, 12" between centers, 6000 RPM and chip conveyor.

Standard Lathes

(ONE) HARDINGE TOOL ROOM LATHE

Taper Turning, Threading from 11 to 108 Pitch Threads, 6" Chuck and 1-1/16" Collet Capacity.

(ONE) HARDINGE CHUCKER

8 Station Turret, 6" Chuck, 1-1/16" Collet Capacity with 3 and 6 jaw chucks, 36" Pneumatic Bar Feed.

(ONE) DYNAMIC ENGINE LATHE

18" Swing, 5 H.P., 40" Centers.

(ONE) HARDINGE SPEED LATHE

With Compound and Tool Post, 5C Collets, 1-1/16" Capacity, 3000 RPM.

Drilling and Sawing Equipment

(ONE) DUMORE AUTOMATIC DRILL HEAD

With Peck Feed.

(TWO) CLAUSING DRILL PRESSES

With 2 Drill Heads (3/4 H.P. each) on each Production Table. Each Head has Pneumatic Feed Commander Heads and Air Vises on Production. Table with Coolant.

(ONE) CLAUSING DRILL PRESS

2 H.P., Air Feed, Commander Heads and Air Vises on Production Table with Coolant.

(ONE) KASTO RACINE COMPLETELY AUTOMATIC VERTICAL BAND SAW

PLC Controlled, 10.5" Diameter Capacity, 5 H.P., with Bundling Attachment, Heavy Duty Conveyor, and Bar Feed Advancement.

(ONE) KASTO RACINE COMPLETELY AUTOMATIC HORIZONTAL BAND SAW

14" Diameter Capacity, 6 H.P., with Bundling Attachment, Heavy Duty Conveyor, and Bar Feed Advancement.

(ONE) GROB VERTICAL BAND SAW

With Saw Band Welder.

(ONE) ABRASIVE CUT-OFF SAW

14" Capacity, Table Mounted.

(ONE) AUTOMATIC COLD SAW

Scotchman 4" Capacity.

Auxiliary Production Equipment

(ONE) HY-PRO SHRINK TOOLING SYSTEM

1200 Watt capacity Model HR-B-02S-120NA, for mounting tool holders for ultra-high speed machining.

(ONE) SMOG HOG ELECTRONIC PRECIPITATOR

1000 CFM, Portable Unit.

(EIGHT) ROYAL FILTERMIST FX-1200

3 H.P. mist and smoke collector.

(ONE) ROYAL FILTERMIST FX-900

2 H.P. mist and smoke collector.

(TWO) ROYAL FILTERMIST FX-600

2 H.P. mist and smoke collector.

(ONE) ROYAL FILTERMIST FX-275

3/4 H.P. mist and smoke collector.

(ONE) BALANCE SPECIALTIES MODEL M STATIC AND DYNAMIC BALANCING MACHINE

Weight Capacity: 2 lbs. to 50 lbs. 20" Swing. Maximum Part Length: 23". 1 H.P. Drive Motor. Electronic Plane Separation.

(ONE) KALAMAZOO S14HW PRODUCTION HORIZONTAL BELT SANDER

15 H.P., 14" x 36" Work Surface, Wet Sanding and Coolant Tank.

(ONE) UNI-TEK METAL DISINTEGRATOR

Model 300 W/LRC, 30" x 30" Table with Automatic Electro Servo Feed, Rack and Pinion Cross-Arm movement with mechanical Cross-Arm Lift.

(ONE) OHIO BROACH

Model 315, 15" Stroke, Size 3, Vertical and Push Type, One Station, Hydraulic Type, 2 H.P.

(ONE) PRATT & WHITNEY SIX INCH VERTICAL SHAPER

Model B, M-1506, One H.P.

(ONE) DAKE HYDRAULIC PRESS

One Hundred Ton Capacity.

(ONE) SUNNEN HYDRAULIC PRESS

Ten Ton Capacity.

(ONE) DENISON HYDRAULIC PRESS
Six Ton Capacity.

(FOUR) ARBOR PRESSES
Up to Four Tons Capacity.

(ONE) AUTOMATIC CIRCULAR ULTRAMATIC VIBRATORY TUMBLER
Model VB-35, with 31" Bowl.

(THREE) AIR COMPRESSORS
30 H.P. Rotary Screw, 80 Gallon Capacity Tank.

(ONE) AIR COMPRESSOR
15 H.P. Rotary Screw, 20 Gallon Capacity Tank.

(TWO) AIR DRYERS
Refrigerated, for above Compressors.

Polishing and Cleaning Equipment

(ONE) HAMMOND TWIN SPINDLE VARIABLE SPEED POLISHING LATHE
With Air Tensioning and Idlers on both spindles. 5 H.P., and with DCE VOLKES Automatic Exhaust System.

(ONE) ADF SYSTEM PARTS WASHER
Model 800, 700 LB. Nozzle Pressure, Extended Lid Height 18" x 42" Diameter, 1000 lb. Capacity Rotary Table, and Oil Skimmer.

Grinding and Honing Equipment

(ONE) SHIGIYA TWO AXIS CNC CONVERSATIONAL CYLINDRICAL GRINDER

Model GPS-30.60 with Fanuc PowerMate-D Control. Capacity is 11.8" Swing, 22.9" between centers. Maximum load between centers 330 pounds. Maximum wheel size 16" diameter. Infinitely variable speed workhead. Minimum incremental movement (on diameter) 0.000010". Workhead speed range 15 to 600 RPM in 1 RPM steps, Center Taper MT#4. 5 H.P. Wheel Motor. 1546 R.P.M.



(ONE) TOYODA TWO AXIS CNC CYLINDRICAL GRINDER

Model Select G-100II Dual Purpose with GC-50 LCD touch-screen control. Capacity is 12.6" Swing, 39.4" between centers, Maximum load between centers of 330 pounds. Angle grinder with locator touch probe. Wheelhead position 90 degree and 30 degree, maximum wheel size 20 inches diameter. Minimum incremental movement (on diameter) 0.000010", rapid feed on diameter 394 IPM. Table type two piece swiveling/traversing with rapid feed of 394 IPM. Workhead Type TA-200W, Center Taper MT #4, variable speed 16 to 500 RPM. 10 H.P. wheel drive motor. With combination magnetic and fabric filtration coolant system.



(ONE) OKAMOTO LINEAR B SERIES 612

With Heidenhain 3 Axis, P.G. Optidress, Grind-Rite Centerless, Model 15-000, Coolant System with Splash, adapter bracket and special 8" wheel guard.

(TWO) HARIG 6" X 18" AUTOMATIC SURFACE GRINDERS
1-1/2 H.P., with Wet Grinding Attachment and Built-In Wheel Dresser.

(ONE) ACCUTEX SP-600i EDM

5 Controllable Axis (X,Y,U,V,Z)
64 Bit Windows CE Based CNC Control
Capacities X-23.6"

Y-15.8"

Z-15.8"

U-3.9"

V-3.9"

Repeatability +/-0.00005"

Automatic Wire Feed System

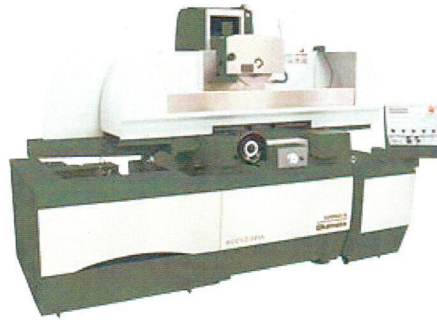
(Re-Thread at Break-Point 7) Programmable Z Axis

8) Heidenhain Linear Glass Scales.



(ONE) OKAMOTO AUTOMATIC SURFACE GRINDER

Model ACC-12.24SA, max. travel 29.5" x 13.4" x 13.7", min. feed of .00005, 5 H.P., cross feed teach in function, and double V-way.



(ONE) EXTRUDE HONE MODEL "12/8" Spectrum Series Abrasive Flow Honing, Deburring & Polishing Machine with Media Chiller*

Motor Driven with 40 HP, 3 Phase, 60 Cycle A.C. Hydraulic Motor.

SPECIFICATIONS:

Opening - Maximum	30.75"
Distance Between Rod Clamps - Open	42.75"
Work Table Dimensions - Height	60"
- Right to Left	64"
- Front to Back	51"
Media Cylinder Diameter	12"
Hydraulic Cylinder Diameter	8"
Media Flow Rater	23.5 GPM
Extrusion Pressure Ronger	300 - 1100 PSI
Overall Height	109"
- Closed	109"
- Open	137"
Media Pressure	2,000 PSI
Clamp Pressure	3,000 PSI
Approximate Weight	11,000 Lbs.



Equipped With:
Media (Cooler) Heat Exchanger, Temperature Controller, Media Retention System, Media Re-Feed System, Allen Bradley Programmable Logic Controller Model SLC 150, Motor Driven Fixture Table.

(ONE) SUNNEN MODEL CV-616 AUTOMATIC VERTICAL HONING MACHINE

2 H.P. with Automatic Size Control, 3/4" to 8" Diameter, up to 18" depth (May be modified to 24" depth).

(ONE) SUNNEN MMB MODEL 1802 AUTOMATIC POWER STROKE HONING MACHINE

With Automatic Size Control, and a complete range of Mandrels up to 2-1/2".

(THREE) SMOG HOG ELECTRONIC PRECIPITATORS

2 H.P. with Automatic Size Control, 3/4" to 12" Diameter, up to 18" depth (May be modified to 24" depth).

(ONE) AUTOMATIC VIBRATORY BOWL FEEDER

36".

(ONE) DELUXE DRILL GRINDER

For 1/8" thru 1-1/4" Diameter.

(TWO) CARBIDE TOOL GRINDERS

Diamond Wheels.

(FIFTEEN) WORK STATIONS

Nine Steel, Six Maple.

(FOURTEEN) PEDESTAL GRINDERS

Stamping and Non-metallic Gasket Equipment

(ONE) U.S.M. PROGRAMMED AUTOMATIC TRAVEL-HEAD HYDRAULIC PRESS

Twenty-five tons.

(ONE) AUTOMATOR MV35 AIR IMPACT PRESS

Ten tons.

(ONE) KWIKMARK CNC MARKING MACHINE

With rotary table.

[Equipment Index](#)

Inspection / Metrology Equipment

All Metrology Standards and Master Inspection Equipment are maintained in the 1,100 square foot laboratory with independent temperature controls. All inspection equipment within the laboratory as well as shop and employee-owned is calibrated in accordance with standard procedures.

Calibration records are on file. United Standard Industries, Inc. is certified to ISO 9001:2008 with AS 9100:2009 Rev. C by [Eagle Registrations, Inc.](#)

(ONE) BROWN & SHARPE 9.20.8 GLOBAL CLASSIC (36x80x32) DCC-CMM SYSTEM
With Global UMP-360 controller, Renishaw PH10 probe head, Renishaw TP20 touch probe, stylus kit, Rayco fixture plate (36x80x3/4 - 1/4-20 holes 1/2" on center), Rayco fixture clamping kit # R20-CK, qualification sphere, Dell computer with Intel Core 2 Duo processor (3GHz/2GB RAM/80GB HD/DVD-RW/Win XP Pro), Dell 21" flat panel LCD monitor, Dell inkjet 926 printer, computer workstation table, and data page.

(ONE) SHEFFIELD CORDAX ENDEAVOR 9.15.7 ROBOTIC COORDINATE MEASURING MACHINE
With Endeavor 9.15.7, 9157 CMM System, T Dell Optiplex Mini-Tower P.C., CHW60T 22" Flat Panel LCD Monitor, PC-DMIS CAD Software, PH10M Programmable Indexable Head, TP20 Probe Kit A1371-0291, and 366026-SFD Custom Aluminum Fixturing Plate (two piece).

(ONE) SHEFFIELD CORDAX DISCOVERY II COMPUTER CONTROLLED COORDINATE MEASURING MACHINE
Discovery II Model D12, with Dell Optiplex 745 Mini-Tower P.C., Dell 19" Flat Panel Monitor, PC-DMIS CAD Software, QC-CALC Real-Time SPC Software, PH10T Programmable Indexable Head, TP20 Probe Kit and Custom Aluminum Fixturing Plate.

(ONE) JONES & LAMSON OPTICAL COMPARATOR MODEL EPIC-120
With 0.00005" Digital Read-out, X & Y axis, 20" screen, Three Lenses (10x, 20x, & 50x power) and Surface Illumination.

(TWO) MITUTOYO COMPARATOR - 14"

0.0001" Read-out, and Surface Illumination.

(ONE) MAUSER WHG-80600 COMPUTERIZED HEIGHT GAGE
With SPC Software and Printer.

(ONE) STARRET GRADE A (0.0006") CRYSTAL PINK QUARTZ SURFACE PLATE
72" x 48" x 10" Thick.

(ONE) STARRET GRADE B CRYSTAL PINK GRANITE SURFACE PLATE
On a Mobile Stand, 72" x 36" x 8" Thick.

(TWO) TENNSCO MODULAR WORKBENCHES
72" x 30" x 2" thick butcher block top with power riser and eight grounded outlets.

(TWO) TENNSCO MODULAR WORKBENCHES
60" x 30" x 2" thick butcher block top with power riser and eight grounded outlets.

(TWO) BORIS™ - OPTICAL REVOLVING INSPECTION STAGES
Used to stage parts on Horizontal/Vertical Optical Comparators.

(ONE) TRU-STONE CURA "MASTER ANGLE"
9" x 18" x 3" Grade AA Laboratory, plus-or-minus .000025" per six inches.

(TWO) SETS OF STEEL GAGE BLOCKS, THREAD GAGES, PIN GAGES, ETC.

(TWO) SETS OF PIN AND PLUG GAGES
From .015 to .750 in .001 increments.

(ONE) SET OF CARBIDE GAGE BLOCKS
Inspection Grade.

(ONE) STARRETT DIGITAL HEIGHT GAGE
12" Maximum Range, 0.0001" Read-out.

(SEVEN) MITUTOYO DIGITAL HEIGHT GAGES
24" Maximum Range, 0.001" Read-out.

(TWO) FULL SETS OF DIGITAL MICROMETERS (UP TO 16" DIAMETER), VERNIER CALIPERS, INDICATORS, ETC.

(ONE) WILSON ROCKWELL DIGITAL HARDNESS TESTER
Complete with standards.

(ONE) RAMS ROCKWELL HARDNESS TESTER
Complete with standards.

(TWO) MITUTOYO SURFTTEST PROFILOMETERS MODEL 211 DIAL BORE GAGES
Complete with standards.

(TWO) BENDIX PROFILOMETER ANALOG SURFACE FINISH TESTERS

(ONE) FEDERAL POCKET SURF PROFILOMETER

(ONE) SET OF FEDERAL DIAL BORE GAGES
In tenths, 0.0000" up thru 16" diameter.

(TEN) ASSORTED MITUTOYO DIAL BORE GAGES
In tenths, 0.0000" up thru 12" diameter.

(TWENTY ONE) SURFACE PLATES
Various sizes up to 30" x 48".

(FOUR) SHEFFIELD PRECISIONAIRE AIR GAGES

(FIVE) FEDERAL AIR GAGES
With 6" Dial, graduated in millionths.

(TWO) JOHANNSON GAGES
Calibrated in millionths.

(FOUR) SUNNEN BORE GAGING SYSTEMS

(ONE) STUHR PRECISION BENCH CENTER
36" Center, 6" Swing.

(TWO) KONDA PRECISION BENCH CENTERS
18" Center, 12" Swing.

(ONE) BROWN & SHARP PRECISION BENCH CENTER
30" Center, 8" Swing.

(FOUR) LARGE VERNIERS
Up to 120".

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Assembly and Packaging Equipment

(ONE) BINKS PAINT BOOTH
With staging area.

(ONE) PRODUCTION GAS OVEN
Despatch model V-35, with 48" x 42" x 30" capacity.

(FIVE) HEAT SEALING MACHINES
For sealing polyethylene, polyester, scrim-foil or Kraft foil.

(ONE) NAGEL VACUUM CHAMBER
12" diameter, 18" height.

(TWO) TOYOTA PROPANE LIFT TRUCKS
5000lb. capacity.

(ONE) BIG JOE ELECTRIC LIFT TRUCK
3000lb. capacity.

(ONE) WORKLIFTER ELECTRIC LIFT TRUCK

(ONE) JIB CRANE
One-Ton capacity, 25' span.

(FOUR) BRIDGE CRANES
Half-Ton capacity.

(SIX) JIB CRANES
Half-Ton capacity.

(ONE) JIB CRANE
Quarter-Ton capacity.

(TWO) PORTABLE AIR COMPRESSORS
2 H.P. for riveting, screwdrivers.

(ONE) AUTOMATIC STEEL STAMPING MACHINE
Air operated, complete with various types and holders.

(FOUR) SETS OF STEEL STAMPS AND HOLDERS (Manual)
18" Center, 12" Swing.

(ONE) BLAST-IT-ALL PRESSURE SANDBLAST SYSTEM
Model 3468-P, with ZERO CARTRIDGE 2 H.P. DUST COLLECTOR, Model RPH-2.

(ONE) TRINCO DRY-BLAST SAND-BLASTING BOOTH
24" X 36" capacity.

ONE-HUNDRED LINEAL FEET OF BENCHES
With Power, various Riveting and Eyeletting Machines, Assembly Tools, Arbor Presses, and Extensive Fixtures.

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