



EQUIPMENT LIST

Updated January 2012

PRESS TRY-OUT INFORMATION

150-TON NIAGARA

- Bed Size 36" X 48"
- Shut Height Maximum 17.62"
- Window Size 16 1/2" Opening
- Strokes per Minute 30
- 7-5/8" Adjustment Down

Tryout is performed using Manual Feed with Strip Material.

300-TON FERRACUTE

- Bed Size 66" X 88"
- Shut Height Maximum 21"
- Window Size 20" Opening
- Strokes per Minute 16
- 7" Adjustment Down

Tryout is performed using Manual Feed with Strip Material.

400-TON CLEARING

- Bed Size 58" X 108"
- Shut Height Maximum 32"
- Window Size 32" Opening
- Strokes per Minute 20
- 6" RAM Adjustment Down

(Has Tonnage Monitoring System)

Tryout is performed using Manual Feed with Strip Material.

600-TON WARCO

- Bed Size 68" X 180"
- Maximum Shut Height 53"
- Window Size 35" Opening
- Strokes per Minute 15
- 10" Adjustment Down

(Has Tonnage Monitoring System)

Tryout is performed using Manual Feed with Strip Material.

400-TON H.P.M. HYDRAULIC PRESS

With Allen-Bradley Controls

- Ram Area 72" X 48"
- Ram Stroke 34"
- Shut Height Minimum 24"
- Shut Height Maximum 58"
- Cushion Force 150 Tons
- Cushion Stroke 16"
- Cushion Bead Area 59" X 32"

Tryout is performed using Manual Feed with Strip Material.

1,000-TON DANLY – EQUIPPED WITH (1)

C.W.P. COIL LINE

72" Wide, .125 Capacity
30" Wide, .200 Capacity
20,000 LB Stock Reel

- Bed Size 180" X 102"
- Shut Height Maximum 72"
- Window Size 72" Opening
- Strokes per Minute 18
- Stroke 33"
- 3 0" Ram Adjustment Down

(Has Tonnage Monitoring System)

1,250-TON CLEARING – EQUIPPED WITH (1)

C.W.P. COIL LINE

72" Wide, .125 Capacity
60" Wide, .187 Capacity
20,000 LB Stock Reel

- Bed Size 144" X 84"
- Shut Height Maximum 50"
- Window Size 70" Opening
- Strokes per Minute 14
- Stroke 24"

• 16" Ram Adjustment Down

• (3) 70-TON Cushions – 12" Stroke

(Has Tonnage Monitoring System)

MILLING MACHINES

- BRIDGEPORT MODEL J
- LAGUN FT-2 with Digital Readout
- LAGUN FU4-LA, 16" X 72" Table – Horizontal Mill
- (4) LAGUN FTV-1 with Digital Readout
- MILWAUKEE #4 – Horizontal Mill, 10 HP, 18" X 82" Table
- SUMMIT – Horizontal Mill, 10 HP, 11" X 55" Table
- CINCINNATI #315 – Vertical Mill, 25 HP, 16" X 72" Table
- KEARNEY & TRECKER MODEL 205SA – Horizontal Mill, 5 HP, 12" X 48" Table
- MILWAUKEE MODEL K – Horizontal Mill
- CINCINNATI 2M – Vertical Mill
- KEARNEY & TRECKER 205-S-12 – Vertical Mill
- MAZAK V-1000 – Vertical Mill
- KEARNEY & TRECKER 4-10 S-15 – Vertical Mill
- KEARNEY & TRECKER 415 S-15 – Horizontal Mill
- KEARNEY & TRECKER 307 S12 – Vertical Mill
- KEARNEY & TRECKER 4CH – Vertical Mill
- KEARNEY & TRECKER 4CH – Horizontal Mill

ABRASIVE WATERJET CUTTING SYSTEM

(1) FLOW MODEL 6012 INTEGRATED FLYING BRIDGE WATERJET

- Work Envelope 6' X 12' (1.8M X 3.6M)
- Accuracy +/- 0.003"
- Repeatability +/- 0.002"
- Traverse Speed 0 to 500 IPM
- Contour Speed 0 to 300 IPM – Single Head
..... 0 to 150 IPM – Dual Head
- Control System FLOWMASTER
- Z-AXIS Adjustability 8"
- Cutting Pressure 60,000 PSI
- Integrated Pumps 50 HP

MACHINING CENTERS

SIGMA CNC DOUBLE COLUMN MACHINING CENTER MODEL SDV 3219

- Full NC and DNC
- 40 Turret Tool Changer
- 29" High X 75" Wide X 125" Long Travel
- 20,000 LB Capacity

OKUMA M-46 HIGH-SPEED MACHINING CENTER

- Full NC and DNC
- 18" High X 18" Wide X 30" Long Travel
- Precision Machining Center +/- .00008
- Drill, Bore, Contour Mill, Tap

OKUMA MA-600 HB HORIZONTAL MACHINING CENTER

- Full NC and DNC
- 60 Turret Tool Changer
- 35" High X 40" Wide X 40" Long Travel
- Dual Pallets
- Indexing Table by 1 Degree
- 2.640 LB Table Capacity
- Positioning Accuracy +/- .00016
- Repeatability +/- .0006
- Drill, Bore, Contour Mill, Tap

OKK 1060 AUTOMATIC 40 TOOL CHANGER

- Full NC and DNC
- 31" High X 42" Wide X 84" Long Travel
- Precision Machining Center +/- .00012

OKUMA MCU-AII AUTOMATIC 24 TURRET TOOL CHANGER

- Full NC and DNC
- 36" High X 60" Wide X 118" Long Travel
- Precision Machining Center +/- .00008
- Drill, Bore, Contour Mill, Tap
- 18,000 LB Capacity

KITAMURA B-8 AUTOMATIC 30 TURRET TOOL CHANGER

- Full NC and DNC
- 27" High X 43" Wide X 80" Long Travel
- Precision Machining Center +/- .00002
- Drill, Bore, Contour Mill, Tap

(3) OKUMA MC-60VAE AUTOMATIC 32 TURRET TOOL CHANGER

- Full NC and DNC
- 24" High X 25" Wide X 60" Long Travel
- Precision Machining Center +/- .00008
- Drill, Bore, Contour Mill, Tap

(1) KITAMURA M-6 AUTOMATIC 30 TOOL CHANGER

- Full NC and DNC
- 24" High X 24" Wide X 48" Long Travel
- Precision Machining Center +/- .00002
- Drill, Bore, Contour Mill, Tap

EDM EQUIPMENT

CHARMILLES ROBOFIL 510

- 15 ¾" X 27 ½" X 15 ¾" High
- (5) Axis
- Repeatability +/- .0001
- 30 Degree Taper
- Automatic Wire Threader

CHARMILLES ROBOFIL 500

- 15 ¾" X 27 ½" X 15 ¾" High
- (5) Axis
- Repeatability +/- .0001
- 30 Degree Taper

CHARMILLES ROBOFIL 300

- 9.91" X 16.82" X 15.7" High
- (5) Axis,
- Repeatability +/- .0001
- 30 Degree Taper

SODICK AQ750L CNC WIRE EDM

- 19.6" X 29.5" X 15.7" High
- (5) Axis
- Repeatability +/- .001
- 30 Degree Taper
- Automatic Wire Threader

ELOX (1) SERIES L WIRE EDM

- 10 X 14 Table
- Cuts 8" Material
- (4) Axis
- Repeatability +/- .0002

ELOX (1) SERIES K WIRE EDM

- 8 X 10 Table
- Cuts 6" Material
- (2) Axis
- Repeatability +/- .0002

MODEL 8-62 ELOX CONVENTIONAL EDM MACHINE (with Full Tooling)

MODEL TCV 50 AMP ELOX POWER SUPPLY (with No-Wear Carbon Attachment)

CURRENT EDM HOLESHOOTER, EDM Drill ST300C on 15" X 48" SUPERMAX

QUALITY ASSURANCE

NUMEREX DIRECT COMPUTER CONTROL COORDINATE MEASURING MACHINE

- 36"(x) X 36"(y) X 36"(z)

BROWN & SHARPE DIRECT COMPUTER CONTROL COORDINATE MEASURING MACHINE

- 47.2"(x) X 86.6"(y) X 39.4"(z)

All Measuring and Inspection Equipment Calibrated
Statistical Analysis and Geometric Dimensioning and
Tolerancing

R & R Studies and Gauge Certification Available
CMM to CAD Interface for Reverse Engineering
Full Metric & Standard Measuring Capabilities
Measure Directly from I.G.E.S. File

MANUAL MACHINES

SAWS

- 18" DOALL Band Saw – Vertical
- 36" DOALL Band Saw – Vertical
- 12" WELLS Cut-Off Saw – Horizontal
- 15" WELLS Cut-Off Saw – Horizontal
- 20" WELLS Cut-Off Saw – Horizontal
- MILWAUKEE Chop Saw

DRILL PRESSES

- (2) WILTON 30" Power Feed
- (3) CLAUSING 21" Drills
- MILWAUKEE 1 HP Magnetic Base, Portable
- WILLIS BERGO Radial Drill, 3 FT
- WILLIS BERGO Radial Drill, 4 FT
- GIDDING & LEWIS Radial Drill, 6 FT ARM
- (3) SOLBERGA 18" Power Feed

GRINDERS

- OKAMOTO 24" X 60"
- (4) OKAMOTO Surface Grinders, 16" X 32"
- (3) OKAMOTO Surface Grinders, 12" X 24"
- (2) OKAMOTO Surface Grinders, 6" X 12"
- HARIG SUPER 6" x12" Surface Grinder
- Lathe-Mounted I.D. and O.D. Grinder
- BOYAR SCHULTZ 6" X 12" Surface Grinder
- MILL PORT 6" X 18" Surface Grinder
- HARIG 6" X 18" Full Wet Grinder

LATHES

- MODERN TURN 1840 18" Swing Gap Bed
- DYNAMIC 1740 Gap Bed Lathe

MISCELLANEOUS EQUIPMENT

- 250 AMP LINCOLN Welder
- MILLER HYLEAVE Toolsteel Welder
- (2) Angle Radius Dressers
- 10 HP Air Compressor
- 25 HP Air Compressor
- 6" X 6" MAGNA-LOCK Electric Compound Sine Plate
- 24" X 24" Sine Plate
- ROCKWELL 1 HP Tool Grinder, Carbide and Diamond
Wheels
- (3) ROCKWELL 12" Disc Grinders
- 12" X 18" X 24" Heat Treat - Draw Atmospheric-
Controlled Electric Furnace
- TRINCO 24 EB Vapor Blaster
- 50 HP Air Compressor
- Wire Welder
- Torch Cutter
- HYPER THERM POWERMAX 1000 Plasma Cutting
System
- (1) WYSONG-MILES 10' Long 10-Gauge Shear

MATERIAL HANDLING

- 25,000 LB Lift Truck
- 12,000 LB Lift Truck
- 5,000 LB Lift Truck
- 3,000 LB Lift Truck
- 25-TON Heavy Duty Bridge Crane System
- 15-TON Heavy Duty Bridge Crane
- 10-TON Heavy Duty Bridge Crane System
- 5-TON Heavy Duty Bridge Crane
- (2) Large Overhead 10-TON Bridge Cranes
- (1) 30-TON Overhead Crane, Travel 40 FT X 180 FT
- (1) 20-TON Overhead Crane, Travel 40 FT X 180 FT
- 4,000 LB Mobile Shop Crane
- (1) 3-TON Jib Crane
- (3) 2-TON Jib Cranes
- 2,000 LB BIG JOE Electric Lift
- 1,000 LB BIG JOE Hydraulic Lift
- INTERNATIONAL 4700 Flat Bed Truck
- CHEVY S-10 Pick-Up Truck

CAD/CAM CAPABILITIES

X-Cel Tooling maintains a fully integrated in-house system
with Parametric Software for SUN ULTRA Workstations
and DASSAULT CATIA for Windows Workstations.

TECHNOLOGY CAPABILITIES

SOFTWARE CONFIGURATION - IN HOUSE

SUN SOLARIS UNIX Operating System

SDRC MASTER IDEAS System

CATIA V5R20

AUTOCAD 2005 / 2010

PARAMETRIC TECHNOLOGY CORP:

- BASIC CADD5
- SURFACE DESIGN
- ADVANCE SURFACE DESIGN
- NURBS
- SOLID MODELING
- I.G.E.S.
- NC Postprocessor
- 2 Axis Wire EDM
- 2 ½ and 3 Axis NC Toolpath Generation
- A1 On-Line Postprocessor

MICROSOFT OFFICE Professional 2007 / 2010

MICROSOFT WINDOWS NT / 2000 / XP / WIN7 XP

MICROSOFT PROJECT 2007

GLOBAL SHOP SOLUTIONS Job Shop Control System

PC DMIS WINDOWS NT Curves and Surfaces

DATAPAGE Statistical Software

HARDWARE CONFIGURATION - IN HOUSE

(6) SUN ULTRA 60 Workstations

(1) SUNFIRE 245 Enterprise Server

(1) SUNBLASE 2000 Server

(10) 12GB Dual Core 64 bit workstations

(2) IBM X-SERIES 346 Servers

(1) XEROX 510 Series Wide Format Plotting System

(1) XEROX 2510 Engineer Copier

(1) QUANTUM LTO-4 Tape Drive