

X-CEL TOOLING, INC. EQUIPMENT LIST

PRESS TRY-OUT INFORMATION

* 150 TON NIAGRA

BED SIZE: 36" X 48"
SHUT HEIGHT: 17.62" MAXIMUM
WINDOW SIZE: 16 1/2" OPENING
STROKES PER MINUTE: 30
7 5/8" ADJUSTMENT DOWN

* 300 TON FERRACUTE

BED SIZE: 66" X 88"
SHUT HEIGHT: 21" MAXIMUM
WINDOW SIZE: 20" OPENING
STROKES PER MINUTE: 16
7" ADJUSTMENT DOWN

* 400 TON CLEARING

BED SIZE: 58" X 108"
SHUT HEIGHT: 32" MAXIMUM
WINDOW SIZE: 32" OPENING
STROKES PER MINUTE: 20
6" RAM ADJUSTMENT DOWN
(HAS TONNAGE MONITORING SYSTEM)

* 400 TON H.P.M. HYDRAULIC PRESS

WITH ALLEN BRADLEY CONTROLS
RAM AREA: 72" X 48"
RAM STROKE: 34"
MINIMUM SHUT HEIGHT: 24"
MAXIMUM SHUT HEIGHT: 58"
CUSHION FORCE: 150 TONS
CUSHION STROKE: 16"
CUSHION BEAD AREA: 59" X 32"

FOR ABOVE PRESSES ALL TRYOUT IS PERFORMED USING
MANUAL FEED WITH STRIP MATERIAL.

* 600 TON WARCO EQUIPPED WITH (1) C.W.P. COIL LINE

36" WIDE, .210 CAPACITY
24" WIDE, .250 CAPACITY
12" WIDE, .312 CAPACITY
20,000 LB. STOCK REEL

BED SIZE: 68" X 180"
SHUT HEIGHT: 53" MAXIMUM
WINDOW SIZE: 35" OPENING
STROKES PER MINUTE: 15
10" ADJUSTMENT DOWN
(HAS TONNAGE MONITORING SYSTEM)

* 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: 72" MAXIMUM
WINDOW SIZE: 72" OPENING
STROKES PER MINUTE: 18
STROKE: 33"
30" 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: 50" MAXIMUM
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 READ-OUT

* (3) LAGUN FTV-1 WITH DIGITAL READOUT

* MILWAUKEE #4 HORIZONTAL, 10 HP, 18 X 82 TABLE

* SUMMIT HORIZONTAL, 10 HP, 11 X 55 TABLE

* CINCINNATI NO. 315 VERTICAL MILL, 25 HP, 16 X 72 TABLE

* KEARNEY & TRECKER MODEL 205SA HORIZONTAL MILL,
5 HP, 12 X 48 TABLE

* CINCINNATI 2M VERTICAL MILL

* KEARNEY & TRECKER VERTICAL MILL, 205 - S-12

* KEARNEY & TRECKER VERTICAL MILL, 4-10 S-15

* 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 HORSEPOWER

MACHINING CENTERS

- * SIGMA CNC DOUBLE COLUMN MACHINING CENTER
MODEL SDV-3219
FULL NC AND DNC
40 TURRET TOOL CHANGE
29" HIGH X 75" WIDE X 125" LONG TRAVEL
20,000 POUND CAPACITY
- * OKUMA M46 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 MACHINE CENTER
FULL NC AND DNC
60 TURRET TOOL CHANGE
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 +/- .000060
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 POUND 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
- * OKK 76 (VM76R FANUC 31I-A) 30 TURRET TOOL CHANGER
FULL NC AND DNC
25.98" HIGH X 29.92" WIDE X 60.63 LONG TRAVEL
POSITIONING ACCURACY +/- .00008
DRILL, BORE, CONTOUR, MILL, TAP
- * OKK VM53R AUTOMATIC 30 TURRET TOOL CHANGER
FULL NC AND DNC
20" HIGH X 21" WIDE X 41" LONG TRAVEL
POSITIONING ACCURACY +/- .00008
DRILL, BORE, CONTOUR, MILL, TAP

5-AXIS LASER CUTTING SYSTEM

- * MITSUBISHI LASER
3122VZ20 5-AXIS LASER SYSTEM
122" X 86.6" X 33.4" TABLE SIZE, 4,000 WATT
98.4" X 62.6" X 21.6" MAX. 5-AXIS WORKPIECE SIZE
MAXIMUM WORKPIECE WEIGHT 4,400 LBS
REPEATABILITY +/- .0006"
135 DEG. "A" AXIS

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

LATHES

- * MODERN TURN 1840 18" SWING GAP BED
- * DYNAMIC 1740 GAP BED LATHE

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

EDM EQUIPMENT

- * CHARMILLES ROBOFIL 510, 15 3/4 X 27 1/2 X 15 3/4 HIGH, (5) AXIS, REPEATABILITY +/- .0001, 30 DEGREE TAPER, AUTOMATIC WIRE THREADER
- * CHARMILLES ROBOFIL 500, 15 3/4 X 27 1/2 X 15 3/4 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
- * (2) FANUC C400IA-10 (FANUC31I-W)
14.6" X 10.6" X 10.2" HIGH
5-AXIS, REPEATABILITY +/- .0001, 30 DEGREE TAPER, AUTOMATIC WIRE THREADER
- * CURRENT EDM HOLESHOOTER, EDM DRILL ST300C ON 15 X 48 SUPERMAX

QUALITY ASSURANCE

- * 8 FOOT ROMER ARM (PORTABLE CMM)
- * BROWN & SHARPE DIRECT COMPUTER CONTROL COORDINATE MEASURING MACHINE 47.2"X x 86.6"Y x 39.4"Z
- * BROWN & SHARPE COORDINATE MEASURING MACHINE 35.4" X x 59.1"Y x 31.5"Z
- * ALL MEASURING AND INSPECTION EQUIPMENT CALIBRATED
- * STATISTICAL ANALYSIS AND GEOMETRIC DIMENSIONING AND TOLERANCING
- * R & R STUDIES AND GAGE CERTIFICATION AVAILABLE
- * CMM TO CAD INTERFACE FOR REVERSE ENGINEERING
- * FULL METRIC & STANDARD MEASURING CAPABILITIES
- * MEASURE DIRECTLY FROM IGES FILE

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 X 12 SURFACE GRINDER
- * LATHE MOUNTED I.D. AND O.D. GRINDER

MISCELLANEOUS

- * 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
- * HYPERTHERM 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
- * 5000 LB. LIFT TRUCK
- * 3000 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 BY 180 FT
- * (1) 20 TON OVERHEAD CRANE, TRAVEL 40 FT BY 180 FT.
- * 4000 LB. MOBILE SHOP CRANE
- * (1) 3 TON JIB CRANE
- * (3) 2 TON JIB CRANES
- * 2000 LB. BIG JOE ELECTRIC LIFT
- * 1000 LB. BIG JOE HYDRAULIC LIFT
- * INTERNATIONAL 4700 FLAT BED TRUCK
- * CHEVY S-10 PICK-UP TRUCK

CAD/CAM CAPABILITY

X-CEL TOOLING MAINTAINS A FULLY INTEGRATED IN-HOUSE SYSTEM WITH DASSAULT CATIA AND AUTODESK PRODUCT DESIGN WORKSTATIONS.

SOFTWARE CONFIGURATION - IN HOUSE

- * AUTO DESK PRODUCT DESIGN SUITE 2013
- * CATIA V5R20
- * MICROSOFT OFFICE PROFESSIONAL 2007/2010
- * MICROSOFT WINDOWS XP/WIN7
- * MICROSOFT PROJECT 2010
- * GLOBAL SHOP SOLUTIONS JOB SHOP CONTROL SYSTEM
- * PC DMIS WINDOWS NT CURVES AND SURFACES
- * DATAPAGE STATISTICAL SOFTWARE

HARDWARE CONFIGURATION - IN HOUSE

- * (4) 12GB DUAL CORE 64 BIT WORKSTATIONS
- * (1) XEROX 510 SERIES WIDE FORMAT PLOTTING SYSTEM
- * (1) XEROX 2510 ENGINEER COPIER
- * OFF-SITE BACKUP SOLUTION
- * (2) 48 GB HP PROLIANT DL 380P GEN 8 SERVERS
- * (1) XEROX PHASER 7500 COLOR LASER, WIDE FORMAT
- * (4) DELL T7600 48 GB RAM QUAD CORE SOLID STATE HD X64 BIT WORKSTATIONS
- * (8) DELL T7500 16GB DUAL CORE X64 BIT WORKSTATIONS