

# 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
- \* (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
- \* (2) OKK 76 (VM76R FANUC 311-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
- \* FANUC C800IB-12 (FANUC 3LI-WB)  
31.5" X 23.6" X 12.2" HIGH  
5-AXIS, REPEATABILITY +/- .0005, 30 DEGREE TAPER, AUTOMATIC WIRE THREADER
- \* (2) FANUC C400IA-10 (FANUC311-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

## **SQUARING MACHINING CENTER**

- \* AMADA THV430  
MAX WORKPIECE SIZE 16.93" X 16.93" X 7.48"  
MIN WORKPIECE SIZE .787" X .787" X .394"  
507 LB CAPACITY  
SQUARING & CHAMFERING BLOCKS  
EXTERNAL WORKPIECE MEASURING SYSTEM

## **QUALITY ASSURANCE**

- \* 8 FOOT ROMER ARM (PORTABLE CMM)
- \* 8 FOOT ROMER ABSOLUTE ARM W/ INTERGRATED SCANNER
- \* 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

## **CAD/CAM CAPABILITY**

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

## **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

## **SOFTWARE CONFIGURATION - IN HOUSE**

- \* AUTO DESK PRODUCT DESIGN SUITE 2018
- \* CATIA V5R20
- \* MICROSOFT OFFICE PROFESSIONAL 2016
- \* MICROSOFT WINDOWS WIN7/WIN10
- \* MICROSOFT PROJECT 2016
- \* GLOBAL SHOP SOLUTIONS JOB SHOP CONTROL SYSTEM
- \* PC DMIS WINDOWS NT CURVES AND SURFACES
- \* DATAPAGE STATISTICAL SOFTWARE
- \* SOLID WORKS PROF. DESIGN 2018

## **HARDWARE CONFIGURATION - IN HOUSE**

- \* (12) 32GB MULTI CORE 64 BIT WORKSTATIONS
- \* OFF-SITE BACKUP SOLUTION
- \* (2) 48 GB HP PROLIANT DL 380P GEN 8 SERVERS
- \* (2) XEROX PHASER 7500 COLOR LASER, WIDE FORMAT
- \* 510 OCE PLOTTER