

- 1 - Zeiss Eclipse ST3 4096-22 CNC Coordinate Measuring Machine with Calypso software and Dynamic Probe Head
  - 40" X - axis movement
  - 96" Y - axis movement
  - 22.8" Z - axis movement
- 1 - Zeiss Eclipse CNC Coordinate Measuring Machine with Calypso software Full-D.C.C. Zeiss ST Head
  - 28" X - axis movement
  - 40" Y - axis movement
  - 24" Z - axis movement
- 1 - Zeiss C-700 CNC Coordinate Measuring Machine with Calypso software Full-D.C.C. Zeiss ST Head
  - 28" X - axis movement
  - 40" Y - axis movement
  - 24" Z - axis movement
- 1 - Starrett CNC Optical Comparator
  - 32" screen
  - Magnification from 10x to 100x with surface illumination
  - 660 lb. work piece capacity
  - 10" X - axis movement
  - 20" Y - axis movement
- 1 - Faro edge measurement system, Edge arm, 9', 7 - axis
  - Laser line scanning, 3-D modeling software
- 1 - Brown & Sharpe 12" Height Master
- 1 - Mitutoyo 18" Height Master
- 2 - Brown & Sharpe 18" Height Master
- 1 - Starrett 36" x 48" granite surface plate
- 22 - Granite surface plates of various sizes
- 1 - Set: gage ball cocks
- 3 - 81 piece Master gage blocks
- 1 - Optical comparator
- 1 - 8" cylindrical square
- 1 - 12" cylindrical square
  - Tenth dial bore gages to 16"
  - Davis roll-check gage
  - Pin gages from .011" to 1.0001" inclusive

#### HEAT TREAT

- 1 - MODEL QDS124 dual chamber heat treat furnace
- 1 - Toccotron 400 Induction Heat Treat system

#### JIG BORE

- 1 - Pratt & Whitney 18" x 35" jig bore with .0001" readouts

#### DRILL PRESS

- 1 - 3 Head Clausing drill unit
- 3 - Bux drills with portable magnetic base
- 1 - Delta 15" floor model
- 1 - Radial drill, Fosdick 4" variable speed 24" x 48" table
- 2 - Clausing 20" variable speed #3MT, 32" x 56" tables

#### WELDERS

- 1 - Miller 130 portable welder
- 2 - Acetylene welder equipment and cutting attachments
- 2 - Portable plasma cutters
- 2 - TIG welders
- 3 - Miller 250 MIG welders
- 2 - Miller 302 MIG welders

#### SAWS

- 1 - Marvel MK III Band Saw
- 1 - Do-All C-916
- 1 - Do-All 3G
- 1 - Marvel Series #8 MK I cut-off saw-18" max dia. cut
- 1 - Powermatic, 20" vertical band saw with blade welder

#### GENERAL SHOP EQUIPMENT

- 1 - Schenck Trebel Model H30BU Horizontal Dynamic Balancing Machine
  - 60-15,000 rpm speed range
  - 1,000 lb. maximum work piece weight
  - 49" maximum work piece diameter
- 1 - Hansford Die Handler
  - 72" bed, 36" Y bed, 30" Z movement
- 1 - Federal 80 ton press
  - 54" x 34" bed
  - 21.5 stroke 10" ram adjustment
  - 60-120 strokes per machine
- 1 - Wilton power tapping arm
- 2 - 10" Turntables
- 1 - 10" Dividing head
- 1 - Ettco #1B tapper
- 1 - 11,000 lb. forklift
- 1 - 6,000 lb. forklift
- 1 - 5,000 lb. forklift
- 1 - 3,000 lb. forklift
- 1 - Troyke cross slide table
- 1 - Turntable, 12" new Troyke, right angle
- 1 - Turntable, 15" Bridgeport

#### GENERAL SHOP EQUIPMENT (CONT)

- 1 - Bridgeport Sine Plate
- 1 - Shaper attachment for Bridgeport
  - Belt sander, pedestal grinders, Baldor & Craftsman
- 1 - Grieve pre-heat oven
- 2 - Baldor 2" belt sanders
- 1 - Wilton 6" belt and orbital sander
- 1 - Empire 48" x 35" x 36" sandblaster
- 1 - Clemco sandblaster
- 4 - Arbor presses
- 1 - Sun-tec Rockwell tester
- 2 - Hydraulic presses
- 1 - Hydraulic horizontal press 20 ton, 6' daylight
- 1 - Yuasa SUDX Programmable Indexer

#### DELIVERY EQUIPMENT

- 4 - Ford 1 ton vans
- 1 - Ford 1 ton box truck
- 1 - Ford 1 ton flat-bed
- 1 - Chevrolet 3/4 ton flat-bed
- 1 - 22' gooseneck trailer



TOOL & DIE INC.

STRENGTH THROUGH DIVERSITY

EQUIPMENT LIST

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## FACILITY

54,000 square foot building constructed in 1998  
48,000 square foot shop area, totally air conditioned  
6,000 square foot office area  
2 - 5 Ton Overhead Bridge Cranes  
38,000 square foot building addition constructed in 2009  
with 2 - 5 Ton Overhead Cranes  
6,000 square foot heated storage building constructed  
in 2001

## ENGINEERING DESIGN DEPARTMENT

3 - AutoCAD work stations with AutoCAD 2011 and  
AutoDesk Inventor 2011  
7 - Solidworks 2013 work stations  
1 - VISI Series via 3-D design software  
MasterCam - Multiple seats of MasterCam Cam offline  
Programming software. Seats include Mill Levels  
I & III, Wire EDM and Solids.

## CNC MACHINING CENTERS

1 - Mazak FH-6800 high speed horizontal machining  
center with 40 tool magazine and pallet changer  
41" X - axis movement  
31" Y - axis movement  
35" Z - axis movement  
30 HP variable speed spindle  
Mazatrol Fusion 640M controls  
Automatic tool length measurement  
1 - Mazak FH-8800 high speed horizontal machining center  
with 80 tool magazine and pallet changer  
51.2" X - axis movement  
43.3" Y - axis movement  
39.4" Z - axis movement  
40 HP variable speed spindle  
Mazatrol Fusion 640M controls  
Automatic tool length measurement  
1 - Mitsubishi M-HT11 table type CNC horizontal  
precision boring mill with 40 tool magazine  
79" X - axis movement  
60" Y - axis movement  
50" Z - axis movement  
20" W - axis movement  
30 HP variable speed spindle  
Compact pendant control box

1 - Viper G2000 vertical machining center with 30  
tool magazine  
78.25" X - axis movement  
79" Y - axis movement  
32" Z - axis movement  
8,000 max. spindle rpm  
25 HP variable speed motor  
2 - Mori Seiki NVX 5100 high speed vertical  
machining center with 30 tool magazine  
41.3" X - axis movement  
20.9" Y - axis movement  
20.1" Z - axis movement  
12,000 max. spindle rpm  
1 - Haas VF-4 vertical machining center with 20  
tool magazine  
50.0" X - axis movement  
20.0" Y - axis movement  
25.0" Z - axis movement  
8,100 max. spindle rpm  
1 - Haas VM-3 vertical mold high speed  
machining center with 24 tool magazine  
40.0" X - axis movement  
26.0" Y - axis movement  
25.0" Z - axis movement  
12,000 max. spindle rpm  
4<sup>th</sup> axis servo rotary table  
1 - Hurco VMX-42S high speed vertical machining  
center with 24 tool magazine  
42" X - axis movement  
24" Y - axis movement  
24" Z - axis movement  
24 HP variable speed spindle  
15,000 rpm max.  
coolant thru 4<sup>th</sup> axis rotary table  
3-D machining software  
1 - Hurco VMX-50 high speed vertical machining  
center with 24 tool magazine  
50" X - axis movement  
26" Y - axis movement  
24" Z - axis movement  
10,000 max. spindle rpm  
1 - Hurco VMX-245 high speed vertical machining  
center with 24 tool magazine  
24" X - axis movement  
20" Y - axis movement  
23" Z - axis movement  
20 HP variable speed spindle  
15,000 rpm max.  
3-D machining software

1 - Mazak VTC 300C vertical machining center  
with 48 tool magazine  
65" X - axis movement  
30" Y - axis movement  
26" Z - axis movement  
Automatic tool length measurement  
Rotary table package  
Mazatrol Fusion 640M controls  
2 - Hurco BMC-30 vertical machining centers with  
24 tool magazine  
30" X - axis movement  
17" Y - axis movement  
24" Z - axis movement  
8,000 max. spindle rpm  
2 - Hurco BMC-3017 vertical machining centers  
with 24 tool magazine  
30" X - axis movement  
17" Y - axis movement  
24" Z - axis movement  
8,000 max. spindle rpm  
2 - Hurco BMC 40/50 vertical bed-type machining  
center with 30 tool magazine  
52" X - axis movement  
30" Y - axis movement  
22" Z - axis movement  
15 HP/AC variable speed spindle, floor  
programmable dual screen controller  
3-D contour software  
4<sup>th</sup> axis rotary table

## WIRE

2 - FANUC OiC-S/AWF-10 Wire EDM machines with  
FANUC Controls  
12.6" X - axis movement  
8.7" Y - axis movement  
10.0" Z - axis movement  
Linear glass scales with rotary encoder  
on X & Y axis  
Taper cutting +/- 30°  
Automatic re-thread  
1 - Charmille 440 Wire EDM machine with FANUC  
Controls  
21" X - axis movement  
13.77" Y - axis movement  
15.75" Z - axis movement  
Modified to cut 48" length submerged  
Taper cutting +/- 30°  
Automatic re-thread

1 - Makino EDNC43 CNC ram EDM machine with  
16 tool magazine  
17.7" X - axis movement  
13.7" Y - axis movement  
13.7" Z - axis movement  
1 - LeBlond Makino SNC 64 CNC graphite mill with  
15 tool magazine  
24" X - axis movement  
15.7" Y - axis movement  
15.7" Z - axis movement  
15,000 max. spindle rpm

## LATHES

1 - Mazak Mega Turn Nexum 900M vertical lathe  
39.3" swing with a 36.2" cutting diameter  
31.5" maximum machining height  
40 HP spindle motor  
12 tool magazine  
Matrix Nexus controls  
Mazak Matrix controls  
1 - Mazak Integrex i300R multi-axis CNC horizontal  
turning & machining center  
25.9" swing and cutting diameter  
3.6" bore diameter  
62.4" bed length  
40 HP AC motor 4,000 RPM  
Milling head with 36 tool magazine  
12,000 RPM for milling head  
1 - Mazak Integrex 300Y multi-axis CNC  
horizontal turning & machining center  
24" swing with a 24" cutting diameter  
3.46" spindle bore  
35 HP/AC motor 35-3,500 rpm  
Milling head with 40 tool magazine  
20 HP/AC motor  
15-6,000 rpm for milling head  
LNS steady rest  
Mazatrol 640T controls  
1 - Mazak Integrex 200-IV multi-axis CNC  
horizontal turning & machining center  
26" swing with a 26" cutting diameter  
2.00" spindle bore  
30 HP/AC motor 5,000 rpm  
Milling head with 40 tool magazine  
25 HP/AC motor  
12,000 rpm for milling head

1 - Mazak Integrex 100-II SY multi-axis CNC horizontal  
turning & machining center with LNS barfeed  
18.50" swing with an 18.50" cutting diameter  
2.40" spindle bore  
10 HP/AC motor 6,000 RPM  
Milling head with 40 tool magazine  
7.5 HP/AC motor 10,000 RPM milling head  
Sub spindle 6,000 RPM  
1 - Mazak Super Quick Turn 250M-Y  
multi-tasking CNC turning center  
20.6" swing with a 11" cutting diameter  
Twin spindles with a 35-4,000 rpm  
2.99" spindle bores  
19.49" maximum cutting length  
25 HP/AC main spindle motor  
10 HP/AC second spindle motor  
12 tool magazine with milling spindle  
Mazatrol 640T controls  
1 - Mazak Super Quick-Turn 30-M Mazatrol  
T32-2 CNC control  
22" swing with 16.25" cutting diameter  
3.46" spindle bore  
60" maximum cutting length  
35 HP/AC motor, 35-3,300 rpm  
12 tool magazine with milling spindle  
10 HP motor  
1 - Mazak Quick Turn 15N Mazatrol T32-2  
CNC control  
17" swing with a 10" cutting diameter  
2.44" diameter spindle  
20" maximum cutting length  
15 HP/AC motor, 45-4,500 rpm  
8 tool magazine  
1 - Romi M20 Lathe, GE FANUC controls,  
12" 3-jaw chuck  
1 - 22" South Bend Lathe with electric variable  
speed 31" swing over the gap, 80" between  
centers, 6 jaw chucks, steady rest and digital  
readouts  
1 - 20" South Bend Lathe  
1 - 17" South Bend Lathe  
1 - Acra-Turn, 14" x 48" engine lathe  
1 - Colchester, 13" x 48" engine lathe

## MILLS

3 - Acra, 10" x 54" tables  
1 - Atlas, 9" x 49" table  
5 - EZ Trak DX Bridgeport CNC 9" x 48" tables  
with coolant

1 - Bridgeport, 12" x 42" with digital readouts  
chrome ways with vises, boring heads  
and collets  
9 - Bridgeport, 12" x 42" with variable speed  
head, chrome ways with digital readouts  
3 - Sharp, 10" x 42" with Acu-rite controls  
2 - Sharp, 10" x 50" 3-axis with Acu-rite control  
1 - Chevalier, 14" x 25" with Anilam controls  
1 - Kerney & Trecker vertical mill with 14" x 62"  
table and #50 taper spindle  
2 - Cincinnati horizontal with 12" x 54" table and  
#50 taper spindle

## O.D./I.D. GRINDERS

1 - Okamoto 06M 12-60 O.D./I.D. 12"x 60" grinder  
1 - Brown & Sharpe O.D./I.D. 14" x 30" grinder  
1 - Brown & Sharpe O.D./I.D. 14" x 40" grinder  
1 - Brown & Sharpe O.D./I.D. 14" x 60" grinder  
1 - Springfield vertical O.D./I.D. grinder  
24" swing  
20" Z - axis movement

## SURFACE GRINDERS

1 - Supertec STP328 ASP 32" x 80" surface  
grinder with power feed and automatic  
dresser, wet, variable speed motor  
2 - Okamoto 12" x 24" with power feed &  
hydraulic dressers, wet  
1 - Okamoto 16" x 32" with power feed &  
hydraulic dressers, wet  
1 - Blanchard Model 18 Vertical Rotary Grinder  
with 36" table  
2 - Okamoto 6" x 12" hand feed  
1 - Okamoto 6" x 18" hand feed  
1 - Equiptop 6" x 18" hand feed  
2 - Harig 3612 hand feeds with high speed  
grinding attachment  
1 - Kent 20" x 40" surface grinder

## OTHER GRINDING EQUIPMENT

2 - #3 Moore jig grinder with .0001 readouts  
1 - Arter 20" rotary grinder  
1 - Sunnen Hone  
1 - Ex-Cell-O Center Polisher 48" capacity  
1 - Mitsui-Seiki CNC Jig Grinder Model 6GBN  
with FANUC controls  
24" X - axis  
16" Y - axis  
18" Z - axis