



# East Texas Machine Works

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## **FACILITIES EQUIPMENT LIST AS OF JAN 1, 2011**

(45,000 Sq. Ft. Climate Controlled Shop w/20 Ton Crane Capacity)

### **CNC MACHINE TOOLS**

#### **BORING MILLS**

- 1- G & L RT1600 6" Dia. Bar HBM Center (75HP) Travels: X-142", Y-122", Z-98", Spindle 59" - 55k lb. Part Capacity, Table 63" x 98" Rotary 4th-Axis
- 3- Kuraki KBT-13 DX.A 5" Dia. Bar HBM Center (40HP) Travels: X-118", Y-92", Z-51", Spindle-27" (Spindle) - 26K lb. Max Load, Table 62" x 70" Rotary 4th-Axis
- 4- Kuraki KBT-11Z 4.3" Bar HBM Center (40HP) Travels: X-98", Y-78", Z-35", W-19" 22K lb. Part Capacity, Table 55" Rotary 4th-axis, Fitted w/Cogsdill ZX Contouring Head
- 2- Kuraki KBM-11X 4.3" Dia. Bar HBM Center (30HP) Travels: X-59", Y-47", Z-27", Spindle-14" - 10K lb. Part Capacity Table 40" Rotary 4th-Axis
- 5- Cogsdill ZX Contouring Heard for fitting on any of the boring mills above  
2 Model ZX-420 and 3 Model ZX-200

#### **VTLs**

- 1- O-M Omega 80M with Live Milling w/ATC-24 Tools Swing/Turn 80" OD x 65" High (75HP) Mill/Drill (20HP) 22K lb. Part Capacity
- 1- O-M VT5-N 16 w/ATC-12 Tools Swing/Turn  $\varnothing$  80" OD x 65", Height (75HP) 22K lb. Part Capacity
- 1- O-M VT5-N 12 w/ATC-12 Tools - Swing/Turn  $\varnothing$  65" OD x 50" Height (50HP) - 17.6K lb. Part Capacity
- 1- O-M NEO10 w/12 Tools Swing/Turn 55" OD x 30", Height (50HP) 4400# Part Capacity

#### **LATHES**

- 1- Karats Flatbed Universal (75HP) Swing 60" OD (40" Over Crossslide) x 232" Centers 22" Spindle Bore - 2 Chucks Steady Rest from 7" to 32" Dia.
- 1- Mazak Slant 50 Universal (50HP)  
Swing 30" x 80" Centers - 12½" Spindle Bore, with Steady Rest - 14¼"  $\varnothing$
- 1- Mazak M-5 Universal (Flatbed w/Steady Rests) Swing 24"/16" x 120" Centers (30HP)
- 1- Mazak M-5 Universal (Flatbed w/Steady Rests) Swing 24"/16" x 80" Centers (30HP)
- 1- Mazak Nexus 350 MY Swing 24"/16" x 60" Lg w/4Axis Milling (40HP)
- 1- Mazak Quick Turn 35 Universal (40HP) Swing 20"/16" x 60" Centers - 6¼" Spindle Bore

#### **HORIZONTAL MACHINING CENTERS**

- 1- Mazak H-630 (30HP) - 2 Shuttle Pallets - 25" Square  
Maximum Work piece 36"  $\varnothing$  x 38"H, Travels X = 40", Y = 32", Z = 30"

## **VERTICAL MACHINING CENTERS**

- 1- Mazak V-655 Vertical Machining Center (30HP)  
Work Area 25.6"H x 25.6"W x 88" Lg with 18" Chuck, 4th Axis
- 1- Mazak V-550 Vertical Machining Center (35HP)  
Work Area 22"H x 22"W x 68" Lg with 12" Chuck, 4th Axis
- 1- Mazak VTC 200/50 Vertical Machining Center (20HP)  
Work Area X-44", Y-20", Z-23" - 6,000 RPM

## **CAD / CAM**

Geopath by Solutionware, fully integrated PC based CAD / CAM

Camlink by Griffio Brothers, Complete offline solution for Mazatrol

Edgecam by Pathtrace, Multi Plane Surfacing, CAD File Interfacing of AutoCAD DWG, DXF. Viewers for over 200 types of drawing/graphic files.

## **MANUAL MACHINE TOOLS**

### **VERTICAL TURRET LATHE**

- 1- 54" Bullard Vertical Turret Lathe w/Two Heads (50HP And Swing Of 54" Ø and 45" High)

### **MANUAL MILLS**

- 1- 5" #350 T G & L Horizontal Bar. Travel of 84"X x 87"Y x 60"Z with Outboard Supports, Digital Readouts and Facing Head
- 2- #3 Bridgeport Mill - With Servo Automatic Feed

### **MANUAL LATHES**

- 1- 31"/25" x 260" Lg Sigma Lathe
- 1- 12" x 48" Henley Lathe
- 1- 18" x 100" Mazak Lathe

## **FABRICATION / WELDING FACILITIES**

- 1- Submerged Arc Welder/Manipulator
- 5- Mig Welding Machines
- 2- DC Welding Machines
- 1- "Arc 05P" Cladding/Welder-GTAW
- 2- Powered Welding Positioners
- 1- Fluke Surface Thermometer

## **INSPECTION EQUIPMENT**

- 1- Starrett Grade A Pink Granite Inspection Table 4' x 8' x 1'
- 1- "Gagemaker" Gauging System
- 1- Optical Comparator - Mico View H-14
- 1- Set ID Micrometers to 150" Ø
- 1- Set OD Micrometers 1" to 48"
- 1- Sony-Cybershot Digital Camera
- 1- Lot Gages (In-House)
- Vernier Calipers up to 60"
- 1- 24" to 108" Pi Tape
- 1- 18" Digital Depth Mic
- 1- Mitutoyo Profilometer
- 1- Granite Surface Plate 18" x 24"

***\*Quality Control System Conforms To MIL-I-45208A Inspection System Requirements\****

## **OTHER MISCELLANEOUS SHOP EQUIPMENT**

- 3- Drill Presses
- 1- 200 Ton Press
- 1- Horizontal Band Saw Auto Feed
- 1- 20 Ton Press (Mobile)
- 1- Vertical Band Saw

## **OUTSIDE LOCAL SERVICES**

Heat Treating  
Grinding, Honing, & Trepanning

Plating & Coatings  
Sandblasting & Painting