



MANUFACTURING LINE SHEET

4136 Pinemont Drive
Houston, TX 77018
Main: 713.686.4222

www.dsmachineworks.com

ISO 9001:2015 Certified
Quality Assurance & Inspection
Full Compliance Safety Program

Prototype Manufacturing
Turnkey Manufacturing
Precision Machining

Welding/Fabrication
Assembly
Factory Acceptance Testing

<1% Rework
98.3% OTD
Free Local Delivery

Overview

28,000 square foot facility
located in Houston, TX

Equipped with over 40 CNC and
conventional milling and turning
machines

- CNC Vertical Machining Centers
- CNC Horizontal Mills
- CNC Lathes
- CNC Vertical Turning Lathe

ARC-05P Controlled Hot Wire Gas
Tungsten Arc Vertical Cladding
System

10 ton overhead crane

Key Features

ISO 9001:2015 Certified

CMM & Full Gage Lab with
Calibration Records

General CNC capability
- less than 1" OD to over 72" OD,
- at lengths up to 160"

25,000 pound weight capacity

Over 30 certified WPS
(ASME Section IX, API 6A,
NACE, MR0175/ISO 15156)

Own and operate our own trucks
to minimize transport costs

Materials & Grades

Carbon Steels:
A36, A106, A694

Inconel:
625, 718, 725, 825

F22
Duplex
Monel
Hastelloy
Titanium
Brass
Bronze

Low Alloy Steels:
4130, 4140, 4340

Stainless :
17-4, 304, 316, 410,

Rubbers
PEEK
Delrin
PVC
UHMW

Outside Processes

Quality Sub-Suppliers
Raw Material

Heat Treating

Non-Destructive Testing

Coating

Plating

Shot Peening

Carburization

QPQ and Nitriding

Quality Assurance & Inspection



**Tesa Micro Hite 3D
Coordinate Measuring Machine
(22" x 36" Table Capacity)**

Inspection Capabilities & Tooling

**MIC TRAC MT-3000
Electronic Calibration Center**

Coating/Plating Verification

Fischer Phascope PMP10 Thickness Instrument for Metallic Coating
Fischerscope FMP20 Thickness Instrument for Non-Metallic Coating

In-House Gage Lab

OD and ID Micrometers
Digital/Vernier Calipers
Plug and Ring Gages

In-House Hardness Testing

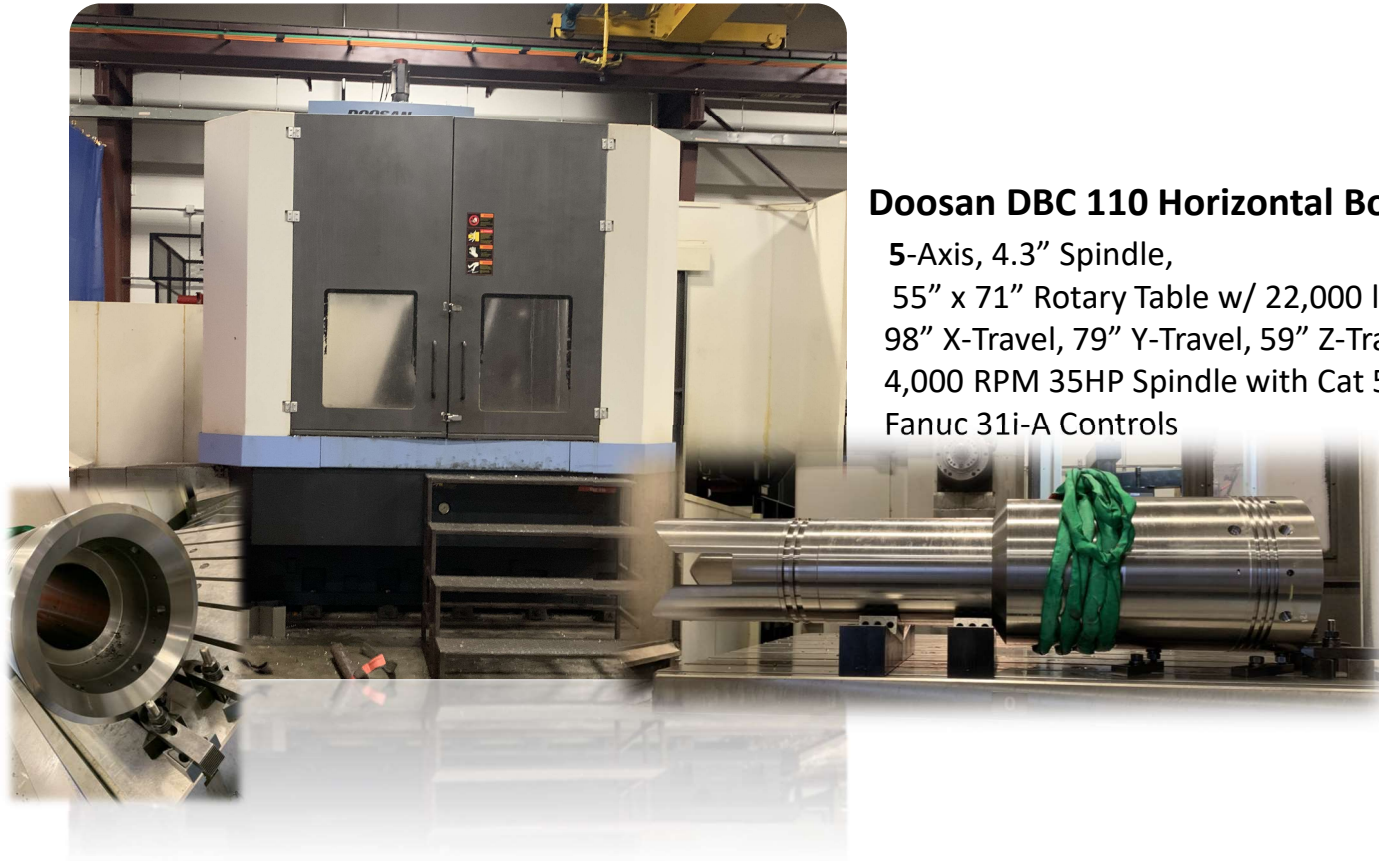
Rockwell Hardness Tester
King Portable Hardness Tester

24" X 36" Surface Plate

48" X 96" Surface Plate

Miscellaneous Equipment and Gages

CNC Horizontal Mills



Doosan DBC 110 Horizontal Boring Mill:

5-Axis, 4.3" Spindle,
55" x 71" Rotary Table w/ 22,000 lb. Capacity,
98" X-Travel, 79" Y-Travel, 59" Z-Travel, 22" W-Travel,
4,000 RPM 35HP Spindle with Cat 50, 60 Tool ATC,
Fanuc 31i-A Controls

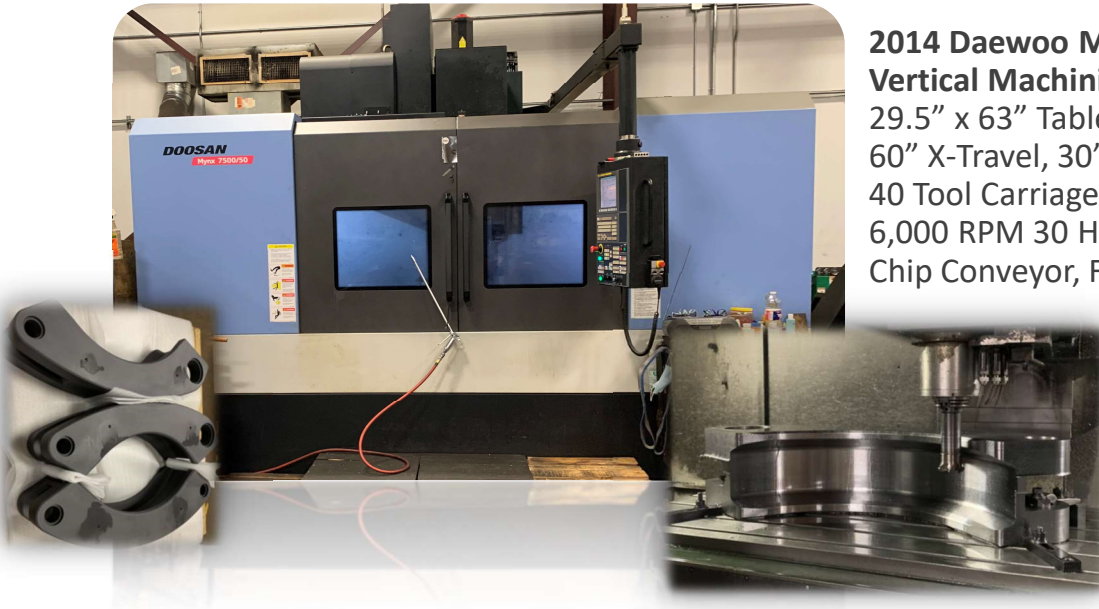
Kuraki KBM-11a Horizontal Boring Mill:

5-Axis 4.3" Spindle,
37" x 41" Rotary Table with 6,600 lb. Capacity,
59" X-Travel, 47" Y-Travel, 27.5" Z-Travel, 11.8" W-Travel,
1,500 RPM 25HP Spindle with Cat 50, 30 Tool ATC,
Fanuc 16-M Controls

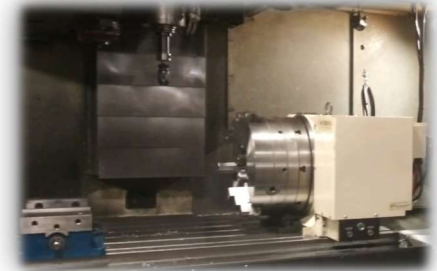
Toyoda FA630 Horizontal Machining Center:

24.8" x 24.8" Dual Pallets with 2,865 lb. Capacity,
39.4" X-Travel, 31.5" Y-Travel, 33.5" Z-Travel,
60 Tool Carriage with ATC, 12,000 RPM 30 HP 4"- Spindle
with #50 Taper, Chip Conveyor,
Fanuc 15-MB CNC Controls with Full 4th Axis

CNC Vertical Machining Center



2014 Daewoo MYNX7500 Heavy Duty Vertical Machining Center:
29.5" x 63" Table with 3,300 lb. Capacity,
60" X-Travel, 30" Y-Travel, 24.6" Z-Travel,
40 Tool Carriage with Drum Spindle,
6,000 RPM 30 HP Spindle with Cat 50,
Chip Conveyor, Fanuc Oi-MD Controls



4th Axis Chuck

2010 Daewoo MV6030 Heavy Duty Vertical Machining Center:

29.5" x 63" Table with 3,300 lb. Capacity,
60" X-Travel, 30" Y-Travel, 24.6" Z-Travel,
40 Tool Carriage with Drum Spindle,
6,000 RPM 30 HP Spindle with Cat 50,
Chip Conveyor, Fanuc 32i-A Controls

2008 Daewoo MV4020 Heavy Duty Vertical Machining Center:

20" x 47" Table with 1,760 lb. Capacity,
40.2" X-Travel, 20.1" Y-Travel, 24.6" Z-Travel,
24 Tool Carriage with Drum Spindle,
8,000 RPM 10 HP Spindle with Cat 40,
Chip Conveyor, Fanuc 21i-M Controls



CNC Vertical Turning Lathe

Toshiba TUE-15 Vertical Turning Center:

59" Table with 70.86" Turning Diameter,
35.4" Z-Axis Travel, 60" Max Cutting Height,
17,600 lb. Table Capacity, 12 Tool ATC,
2-250 RPM, 40 HP, Chip Conveyor,
Fanuc 18-TB Controls

CNC Lathes

2012 Daewoo Puma 700L Turning Center:
35.4" Turning Diameter, 40.5" Swing Over Bed,
141.7" Between Centers, 7-1/8" Hollow Spindle,
12 Tool Turret, 60 HP Spindle, 25-1/2" Steady Rest,
Fanuc 32i-A Controls



2018 Daewoo Puma 5100 LB Turning Center:
25.6" Turning Diameter, 35.4" Swing Over bed,
80.54" Between Centers, 6.55" Hollow Spindle,
12 Tool Turret, 60 HP Spindle, Fanuc Oi-T controls

2018 Daewoo Puma 4100 LB Turning Center:
21.7" Turning Diameter, 31.1" Swing Over Bed,
82.4" Between Centers, 5.20" Hollow Spindle
12 Tool Turret, 50 HP Spindle, Fanuc Oi-T Controls

2013 Daewoo Puma 3100Y Turning Center with Milling and Y-Axis:
33.46" Swing Over Bed, 29.9" Between Centers, 4.52" Hollow Spindle,
12 Tool Turret, 30 HP Main Spindle, 7.5 HP Mill Spindle,
Fanuc Oi-TD Controls

2013 Daewoo Puma 2600Y Turning Center with Milling and Y-Axis:
30.7" Swing Over Bed, 29.9" Between Centers, 3.03" Hollow Spindle,
12 Tool Turret, 30 HP Main Spindle, 7.5 HP Mill Spindle,
Fanuc Oi-TD Controls

2006 Daewoo Puma 500C Turning Center:
24.8" Turning Diameter, 35.4" Swing Over Bed,
60" Between Centers, 5-1/2" Hollow Spindle, 12 Tool Turret,
60 HP Spindle, 24" Steady Rest, Fanuc 21i-TB Controls

2006 Daewoo Puma 400C Turning Center:
22.4" Turning Diameter, 30.3" Swing Over Bed,
44.7" Between Centers, 7.12" Hollow Spindle,
12 Tool Turret, 50 HP Spindle, Fanuc 21i-TB Controls

2007 Daewoo Puma 300LC Turning Center:
15.7" Turning Diameter, 23.2" Swing Over Bed,
52.8" Between Centers, 3" Hollow Spindle, 10 Tool Turret,
35 HP Spindle, Fanuc 21i-TB Controls

2010 Daewoo Puma 480 Turning Center:
25.6" Turning Diameter, 35.4" Swing Over Bed,
40" Between Centers, 7.12" Hollow Spindle, 12 Tool Turret,
60 HP Spindle, Fanuc Oi-TD Controls

Conventional Machine Tools



4-3/8" Daewoo Horizontal Boring Mill with Rotating Table and 3-Axis DRO

(4) Bridgeport Series I Milling Machines with 2 HP Heads

FTV-2 Republic Laguna Vertical Mill with Digital Readout

40" X 120" Kingston Engine Lathe w/ Taper Attachment and Steady Rest

44" X 160" Monarch Engine Lathe w/ Taper Attachment and Steady Rest

34" X 100" Mazak Engine Lathe with Taper Attachment and Steady Rest

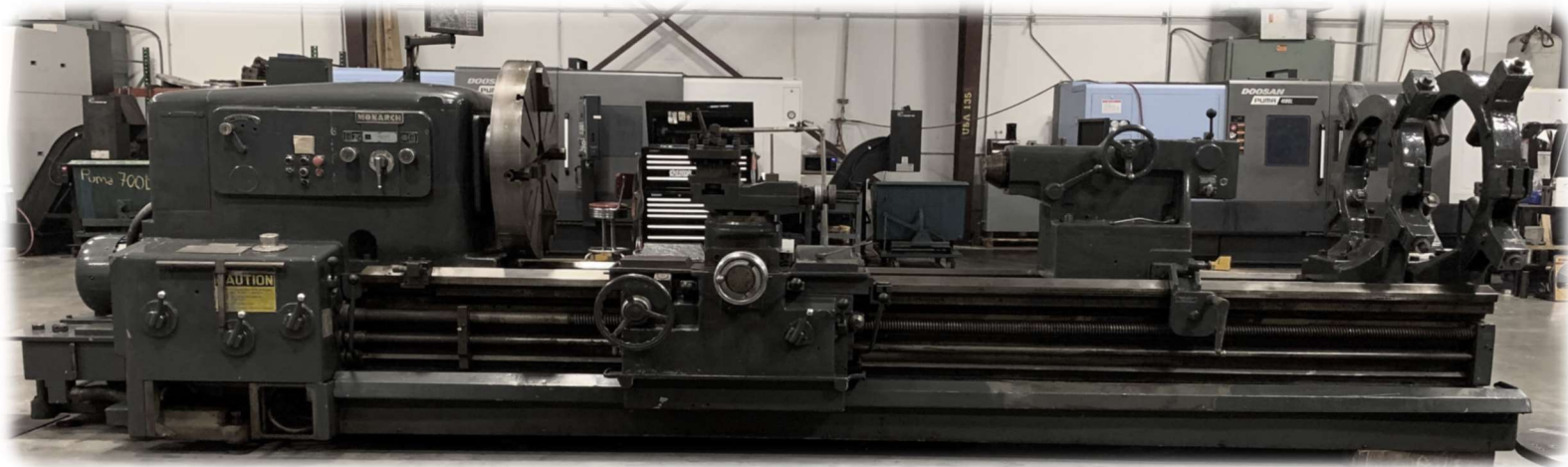
26" X 90" Kingston Engine Lathe with Taper Attachment and Steady Rest

24" X 100" Mazak Engine Lathe with Taper Attachment and Steady Rest

24" X 80" Mazak Engine Lathe with Taper Attachment and Steady Rest

19" LeBlond Engine Lathe with Taper Attachment and Steady Rest

4A Warner & Swasey Turret Lathe



44" X 160" Monarch Engine Lathe w/ Taper Attachment and Steady Rest

Welding and Fabrication



ARC-05P Controlled Hot Wire Gas Tungsten Arc Vertical Cladding System

36" Table with 20,000 lb. Capacity,
ARC-05P Control System, L-Arm Manipulator,
42" Maximum Part Height

6 x 6 Cold Wire Tig Overlay System

3000# Pandjiris Positioner,
15" Chuck KEC 6,000# Turning Rolls, Model 3-60

Profax Welding Manipulator

6' x 6', Push Cart, Model WM-66,
Lincoln Sub-Arc Welder with NA-3 Head and Control,
DC-600 Power Supply

Aronson 2,500# Headstock Positioner with Pandjiris Gripper

Lincoln DC-400 Power Sources with LF-74 HD Wire Feeders