




**BRILEX**  
INDUSTRIES, INC.

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## Facilities & Equipment Listing

### Contact Us

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www.brilex.com 

Youngstown, Ohio 

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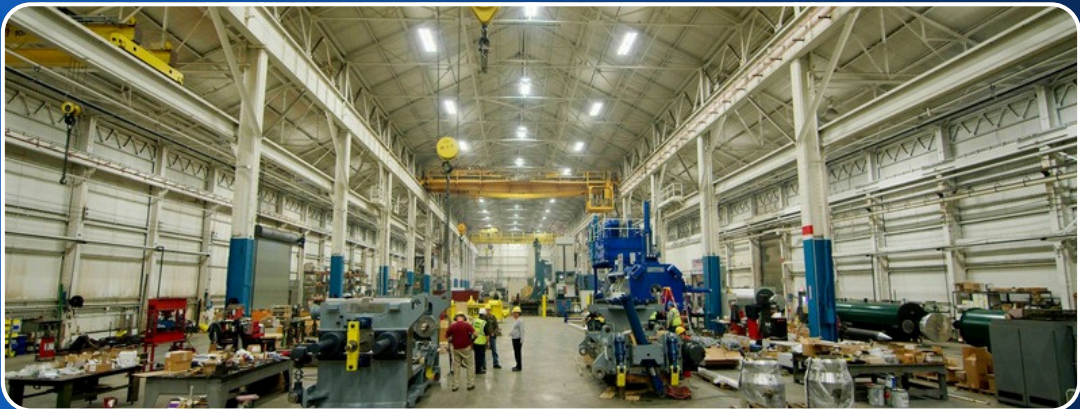
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# FACILITIES

## Plant #1

**1201 Crescent Street  
Youngstown, Ohio 44502**

- 130,000+ Sq. Ft. of Manufacturing Space
- 120 Ton Lifting Capacity
- 32' Under Hook



## Plant #2

**101 Andrews Avenue  
Youngstown, Ohio 44503**

- 125,000+ Sq. Ft. of Manufacturing Space
- 80 Ton Lifting Capacity
- 28' Under Hook



## Plant #3

**11950 South Avenue  
North Lima, Ohio 44452**

- 45,000+ Sq. Ft. of Manufacturing Space
- 40 Ton Lifting Capacity
- 25' Under Hook



# FABRICATION

## Fitting & Welding

- 15+ Fitting Stations with Machined Layout Tables
- 25+ Welding Stations with Stationary & Boom Welders
- Welding Positioners with Capacities up to 50 Tons
- Multiple In-House CWIs and Level II VT, MT & PT Personnel
- Versed in FCAW, GMAW (MIG), GTAW (TIG), and SAW



## Fabrication Equipment

- 2 Robotic Welders
- 2 Sub-Arc Welding Stations
- 2 THG Cobot Mig Welding Systems
- Semi-Automatic Track Welding
- 2 Burn Tables equipped with Hi-Def Plasma and Oxy Fuel with Burning Capabilities Up to 10" Thick
- 2 Plate Rolling Machines with Rolling Capabilities up to 3.5" Thick
- Multiple Turning Rolls with Capacities up to 50 Tons



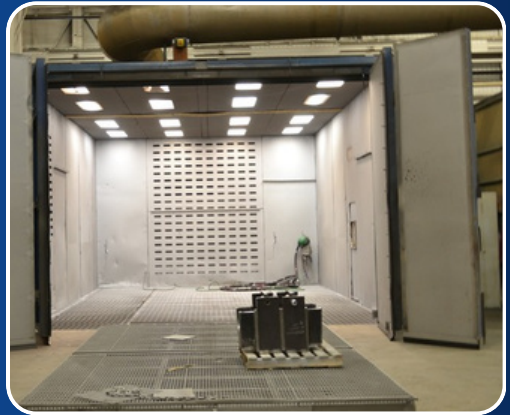
# FABRICATION

## Stress Relieving

- 3 Thermal Stress Relieving Furnaces
- Furnaces Up to 14' x 18' x 33'

## Shot Blasting

- 2 Shot Blast Booths with Recycling Systems and Bag Houses
- Booths up to 18' x 14' x 30'



## Sand Blasting

- 30' x 42' Blast Pavillion
- 23.5' x 17.5' Door Opening

## Paint Booths

- 3 Paint Booths with Air Make-Up Unit and Transfer Cars



## Hydrotesting Stations

- 4,000 Gallon Capacity Capable of 10,000 PSI Testing Pressure

## Horizontal Boring Mills

### HNK HFB160 Horizontal Floor Type Boring Machine

- 6.3" Spindle Diameter
- 430" X-Axis Travel x 157" Y-Axis Travel
- 59" Combined Z & W-Axis Travel
- V-Axis Cross Slide Travel of 90.5"
- 98" x 118" Integrated Rotary Table Indexing to .001°
- 90 Position ATC; 3 Position AAC
- 1 Universal Head; 1 Right Angle Head



### Union PR160 CNC Floor Type Horizontal Boring Mill

- 6.3" Spindle Diameter With a #50 Taper
- 334" X-Axis Travel x 195" Y-Axis Travel
- 59" Z-Axis In/Out Column Travel
- 32" W-Axis Spindle Extension
- 118" x 118" Rotary Table With 118" In Feed Travel
- 80,000lb Capacity
- Right Angle Head Attachment



# MACHINING

## Horizontal Boring Mills

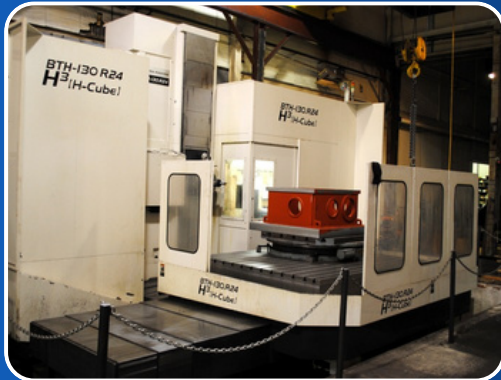
### Toshiba Model BP-130.P40 CNC Horizontal Boring Machine

- 5.1" Spindle Diameter
- 160" X-Axis Travel x 100" Y-Axis Travel
- 60" Z-Axis In/Out Column Travel
- 28" W-Axis Spindle Extension
- 70" x 155" Table Working Surface
- 55,000lb Capacity
- 1 Right Angle Head Attachment



### Toshiba BTH-130.R24 CNC Horizontal Boring Machine

- 5.1" Spindle Diameter
- 118" X-Axis Travel x 157" Y-Axis Travel
- 59" Z-Axis In/Out Column Travel
- 27.5" W-Axis Spindle Extension
- 79" x 94" Rotary Table
- 1 Right Angle Head Attachment



### Toshiba BP-130.R22 5-Axis CNC Horizontal Boring Machine

- 5.1" Spindle Diameter
- 138" X-Axis Travel x 89" Y-Axis Travel
- 60" Z-Axis In/Out Column Travel
- 28" W-Axis Spindle Extension
- 71" x 87" Rotary Table
- 44,000lb Capacity



## DN Solutions DBC 110S CNC Horizontal Boring Machine

- 35HP; 3,000 RPM
- 4.33" Spindle Diameter
- 78" X-Axis x 59" Y-Axis Travel
- 47" Z-Axis Travel
- 19" W-Axis Spindle Extension
- 55" x 63" Table w/ 83" Max Diameter
- Right Angle Head Attachment



## **CNC Vertical Bridge-Type Milling Machines**

### Mitsubishi MVR40ex Planer Type Vertical Bridge Mill

- 50HP x 3,600 RPM Spindle with Thru Tool Coolant
- 244" X-Axis x 157" Y-Axis Travel
- 51" W-Axis Travel; 31" Z-Axis In/Out Head Travel
- 118" x 236" Table; 66,000lb Capacity
- 147" Between Columns; 84" Under Rail
- 80 Station Automatic Tool Changer
- Right Angle Head with 1° Indexing and Thru Coolant
- Renishaw RMP60 Part Probe



### Mitsubishi MVR30ex Planer Type Vertical Bridge Mill with Moveable Cross Rail

- 240HP x 8,000 RPM Spindle with Thru Tool Coolant
- 165" X-Axis x 118" Y-Axis Travel
- 43" W-Axis Travel; 31" Z-Axis In/Out Head Travel
- 78" x 158" Table; 55,000lb Capacity
- 100" Between Columns; 65" Under Rail
- 80 Station Automatic Tool Changer
- Right Angle Head with 1° Indexing and Thru Tool Coolant



# MACHINING

## Hexram MP1234-BFK Gantry Type Vertical Bridge Mill

- 60HP x 6,000 RPM Spindle with Thru Tool Coolant
- 465" X-Axis x 160" Y-Axis Travel
- 59" Z-Axis Travel; 73" Under Spindle
- 100" Under Cross Rail
- BFK 0.01° x 0.01° Direct-drive Indexing Head
- Renishaw RMP60 Part Probe
- CAT 50 Taper Tooling



## CNC Pallet Type Horizontal Machining Centers

### Doosan HM11250 Dual Pallet Horizontal Machining Center

- 60HP x 6,000 RPM Spindle With Thru Tool Coolant and Air
- 82" X-Axis x 59" Y-Axis Travel
- 59" Z-Axis In/Out Head Travel
- 49" x 49" Table; 10,000lb Capacity
- 90 Station Automatic Tool Changer
- Renishaw RMP60 Part Probe
- RTSSADIA Tool Presetter



### Kitamura HX630i Pallet Type Horizontal Machining Center

- 12,000 RPM Spindle With Thru Spindle Coolant
- 39" X-Axis x 31" Y-Axis Travel
- 32" Z-Axis In/Out Table Travel
- Twin 25" Square Pallet Tables
- 50 Station Tool Changer

# MACHINING

## DN Solutions NHP4000 Dual Pallet Horizontal Machining Center

- 15,000 RPM Spindle
- 22" X-Axis Travel x 25" Y-Axis Travel
- 26" Z-Axis In/Out Table Travel
- 16" x 16" Table
- 60 Station Automatic Tool Changer



## **CNC Vertical Milling Machines**

### Hyundai F960B Heavy Duty Vertical Machining Center

- 30HP x 8,000 RPM CAT50 Spindle
- 96" X-Axis x 37" Y-Axis Travel
- 33" Z-Axis Travel
- 106" x 37" Table
- 435 PSI Thru Spindle Coolant
- Renishaw RMP60 Part Probe
- RTSSA-DIA Tool Presetter



### Haas VF-5/50 XT

- 60" X-Axis x 26" Y-Axis Travel
- 25" Z-Axis Travel
- 30HP x 7500 RPM Spindle with 50 Taper

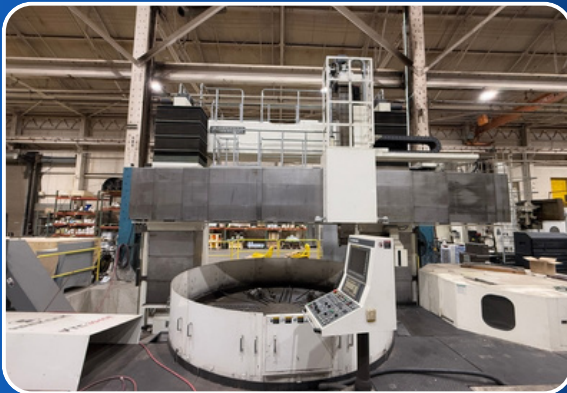
### Haas VF-4/40 Vertical Machining Center

- 40" X-Axis x 20" Y-Axis Travel
- 25" Z-Axis Travel
- 48"x 18" Table Size

## Vertical Turning Lathes (VTLs)

### Phoenix VT-5218-5

- 180" Table Diameter
- 216" Maximum Swing
- 100T Capacity with 60 RPM Speed
- 132" Rail Clearance
- Dual Live Spindles



### Hankook VTC-3040E

- 120" Table Diameter
- 158" Maximum Swing
- 60T Capacity with 100 RPM Speed
- 92" Rail Clearance
- Live Spindle

### Hankook VTC-160E

- 63" Table Diameter
- 78.7" Maximum Swing
- 75" X-Axis Travel x 35" Z-Axis Travel
- Live Spindle (Mill and Drill)

### You-Ji YV 1600 ATC CNC VTL

- 63" Table Diameter
- 78" Maximum Swing
- 62" X-Axis Travel x 36" Z-Axis Travel



# MACHINING

## CNC Live Spindle Lathes W/Y Axis

### Hyundai KL7000LY

- 24" (Power 3-jaw) and 32" (Manual 4-jaw) Chucks
- 47" Maximum Swing Over Bed
- 36" Maximum Turning/Milling Diameter
- 128" Z-Axis Travel
- 60HP x 1,500 RPM Main Drive Motor
- 15HP x 3,000 RPM Live Spindle Turret
- .001° C-Axis
- 3.5" - 13.5" Hydraulic Programmable Steady Rest



### PUMA 3100LY

- 12" Power 3-jaw Chuck
- 28" Swing Over Bed
- 17" Max Turning/Milling Diameter
- 53" Z-Axis Travel
- 30HP x 2800 RPM Main Drive Motor
- 10HP x 4,000 RPM Live Spindle
- 12 Station Turret
- 2"-7.75" Programmable Steady Rest



## CNC Turret Lathes

### Samsung SL 35-750

- 23" Swing Over Bed
- 16" Over Cross Slide
- 30" Centers
- 30HP w/ Fanuc OI-TD Control

### Samsung SL35/1500 CNC Turning Lathe

- 23" Swing Over Bed
- 16" Over Cross Slide
- 60" Centers
- 30HP with Fanuc OI-TD Control



## Manual Lathes

### Skoda

- 52"/35" Swing x 480" Between Centers

### Monarch

- 40"/24" Swing x 360" Between Centers



### Jupiter 830

- 30"/20" Swing x 148" Between Centers

### SamStar 2680 Lathe

- 34"/26" Swing x 80" Between Centers

### Summit Horizontal Boring Machine

- 4" Spindle Diameter
- 78" X-Axis Travel x 64" Y-Axis Travel
- 27.5" Z-axis travel
- 11,000lb Table Capacity

# ASSEMBLY

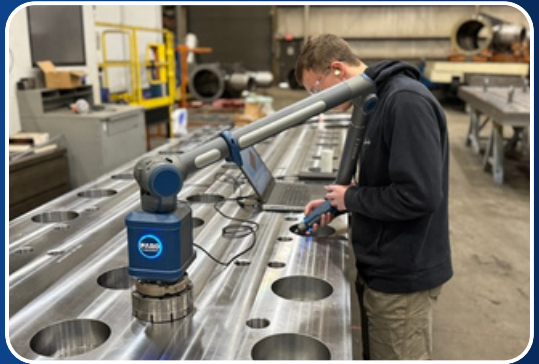
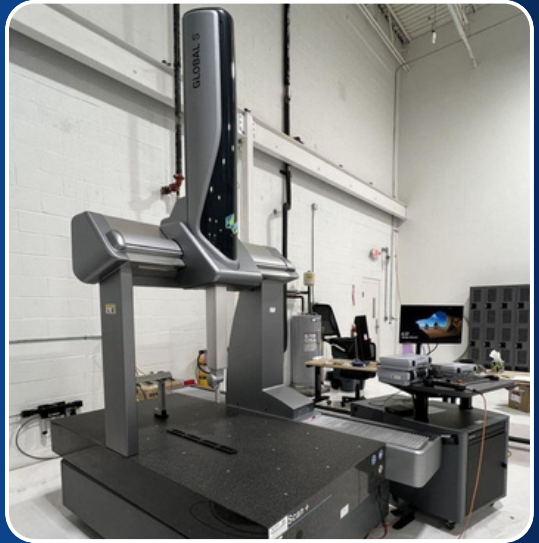
## Assembly Capabilities

- Versed in Mechanical, Electrical, Pneumatic, and Instrumentation Assembly
- Experienced in Repair and Rebuilds
- Full Functional FAT Capabilities
- In-House Load Testing



## Coordinate Measuring Machines

- Hexagon Global S Scan+  
9.12.8 CMM
  - 35" X x 47" Y x 32" Z Measuring Range
  - Inspection resolution down to less than  $3\mu\text{m}$
  - Temperature Compensation from 60°F - 85°F
- FARO Arm Platinum
  - 8' Measuring Range
  - 6 Degrees of Freedom Probe
  - .0014" Volumetric Accuracy with .0017" Single Point Repeatability
- FARO Laser Tracker ION
  - 180' Measuring Range
  - 270° x 125° Measurement Envelope with .0019" at 32' Volumetric Accuracy
- TESA-Hite 700
  - 27' Measuring Range
  - Parallelism, Perpendicularity, and Flatness Measurements with .001" Repeatability



# QUALITY

## Certifications

- ASME Section VIII D-1 U-Stamp & R-Stamp (Pressure Vessels)
- ASME B31.1, B31.3, and B31.8
- AWS D1.1 Structural Welding Code
- NAVSEA (Naval Sea Systems Command) Technical Publication Standards

## Certified Fitters and Welders

- ASME BPVC Section IX
- AWS D1.1
- S9074-AR-GIB-010/248

## Nondestructive Testing

- Internal VT, MT, & PT Personnel Certified to SNT-TC-1A and T9074-AS-GIB-010/271
- 3rd Party Resources for UT (Manual & Phased Array) & RT

## Quality Training/Certifications

- ASQ Quality Auditor
- ASQ Quality Engineers
- AWS D1.1 Certified Weld Inspectors
- Lean Six Sigma Green and Black Belts



# PROJECT HIGHLIGHTS





THE  
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GROUP



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