



BRILEX

INDUSTRIES, INC.



FACILITIES & EQUIPMENT LISTING

**BRILEX INDUSTRIES, INC.
1201 CRESCENT STREET
YOUNGSTOWN, OHIO
44501**

FABRICATIONS - MACHINING - ASSEMBLY - REBUILDING



BRILEX
INDUSTRIES, INC.

BRILEX INDUSTRIES, INC.

(330) 744-1114

Brian Benyo, President.....Ext. 225
Alex Benyo, Vice Pres.....Ext. 222
Steve Davinsizer, VP Oper.....Ext. 253
Bud Geddes, Mgr. Mfg.Ext. 241
Tim Orwig, Mgr. Proj. & Cust. Ser. ...Ext. 232
Dan Hall, Quality Assurance.....Ext. 242

QUALITY MACHINE, LLC.

Terry Anderson, Gen. Mgr.(330) 872-0907

VISIT OUR WEB SITE

www.brilex.com

ADDITIONAL INFORMATION & INQUIRIES

sales@brilex.com

FAX

(330) 744-1125



Schermann 7 Axis CNC Heavy Cut 4.2 Horizontal
Floor Type Boring and Milling Machine



LeBlond Makino Baron
60 CNC Lathe



2008 Kitamura Pallet-type Horizontal
Machining Center Model HX630I

The following information has been assembled for both the Brilex Facility in Youngstown, Ohio and for our sister company, Quality Machine LLC, in Newton Falls, Ohio. Please contact our offices if you should need further information regarding any of our manufacturing capabilities.

BRILEX INDUSTRIES FACILITY **(Youngstown, Ohio)**

MANUFACTURING CAPACITY

The Youngstown facility has a total manufacturing space of 110,000 sq. ft. and is equipped with the following –

CRANE CAPACITY

Fabrication Bay

- (1) 50 Ton AC Crane / 10 Ton Aux. Both with 23' Hook Height.
- (3) 20 Ton AC Cranes with 23' Hook Height

West Machining/Assembly Bay

- (1) 72 Ton Crane with 32' Hook Height
- (1) 60 Ton Crane with 32' Hook Height

East Machining/Assembly Bay

- (1) 60 Ton Crane with 30' Hook Height
- (1) 30 Ton Crane with 30' Hook Height

Plate Storage/Processing Bay

- (2) 27 Ton Crane with 30' Hook Height

Note: Numerous smaller cranes are placed at strategic locations throughout our facilities.



FABRICATION

CNC Oxyfuel Burning

- Gantry style CNC Burning Machine with (4) torches and 17' X 42' table capable of burning up to 12" thick.

Stress Relieving

- Car bottom 13' X 12' X 26'-5" thermal stress furnace with 1550 deg. Capacity. (5) thermal couple chart recorders.
- Vibratory Stress Relieving - One (1) 2008 Meta-Lax Series 701 Stress Relieving and Weld Conditioning unit for stress relieving during and after welding. 40,000# capacity transducer. Unit has printer interface.

Shot Blasting

- Car-style Shot Blast room - 13' wide x 9' high x 25' long with recycling system and bag house.

Painting

- 20' X 40' Paint Booth with air make-up unit and transfer car
- 12' x 12' x 28' long Paint Booth with transfer car

Machined Steel Fitting & Layout Tables

- (1) 10' X 20', (3) 8' X 15', (3) 6' X 12'

Welding Positioners

- (1) 100,000# capacity Turntable
- (1) 70,000# capacity Ransom w/variable speed rotation drives
- (1) 24,000# capacity Cullen-Friestedt
- (1) 16,000# capacity Worthington
- (1) 6,000# capacity Worthington w/variable speed control
- (1) 500# capacity w/variable speed control



Welding Power Sources and Wire Feeders

- (21) Welding Power Sources (both Fixed and Portable) complete with wire feeders. Most are Miller late model dual wire feeders w/booms
- (1) Portable Welding Power Source (Stick Welding)

Robotic Welding Station

- 2008 Motoman HP50-20 High Speed Robotic Welding Station. 122.3" horiz. reach and 219.9" vert. reach with ± 0.006 " repeatability. Equipped with one (1) Motoman MBC-2300M Drop Center Positioner offering tilting & rotational axis with 5,000# capacity. Also includes one (1) Motoman HM1600 Head Stock/Tail Stock.

Miscellaneous Equipment

- (1) 100,000# capacity Reed Turning Rolls
- 50 H.P. Hi and Low Pressure Hydraulic Power Unit
- (4) 9,000# - 30,000# Forklifts
- Carlton Radial Drill 5' X 17"
- 1/2" x 10' Initial Pinch Bending Rolls
- Magnetic Particle Testing Equipment
- 20 HP Sullair Screw Style Air Compressor
- Essab Plasma Cutting Unit
- (2) 20' Man-lifts
- 1/2" x 10' Shear
- 2005 Ford Truck (20' bed)



MACHINE TOOLS & TOOLING

CNC Horizontal Boring Machines

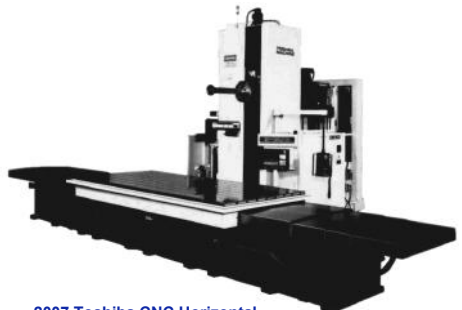
- Scharmann Heavy Cut 4.2 Horizontal Floor Type Boring and Milling Machine CNC – 7 Axis. 8.78" spindle, 19" x 23.6" ram, 315" X-axis, 197" Y-axis, 102" Z-axis, 100" W-axis, 98" x 98" Integrated Rotary Table, CNC control, MF 1982 Retro-Fitted 2000.
- 2008 Toshiba CNC Horiz. Boring Mill & Milling Machine, Model BTH-130.R24, 5.1" spindle, 118" X-axis travel, 90.5" Y-axis travel, 59" Z-axis travel, 227.5" W-axis travel, built-in 78.7" x 94.4" rotary table (44,000# table capacity).
- 2007 Toshiba CNC Horizontal Boring Mill, Model BP-130.P40, 5.12" spindle, 160" X-axis travel, 100" Y-axis travel, 60" Z-axis travel, 28" W-axis travel, 55,000 table capacity.
- 1998 Toshiba BP-110.P20 Full CNC Table Type Horizontal Boring Mill and Milling Machine. 4.33" Spindle, 3,000 RPM., 55" X 80" Table (40,000# capacity), 38 Tool - Tool Changer. X-axis travel is 100", Y-axis travel is 65" and combined W & Z-axis travel is 65". Rebuilt in 2009.
- 1998 Fil Fresatrici Horiz./Vert. CNC Milling Machine, DMI-Heidenhain Model TNC 426 5-axis CNC control. 98.4" X-axis, 59" Y-axis, 39.4" W-axis, 31" X 118" table with Troyke 30" square CNC rotary table.
- 1998 Toshiba BMC-800 Dual Pallet Horizontal Machining Center. 5,000 R.P.M with through the tool coolant, 90 tool , tool changer, 31.5" X 31.5" tables and touch probe. X-axis travel of 63" and Y-axis travel is 49" and Z-axis travel is 47". 40,000# table capacity.
- 2008 Kitamura Pallet-type Horizontal Machining Center Model HX630I, 39.4" X-axis, 31.5" Y-axis, 32.3" Z-axis, twin 24.8" square pallet tables, 12,000 RPM, thru spindle coolant, 50 piece tool changer, 2,640# pallet capacity.

Manual Horizontal Boring Machines

- 5" G&L PC-5 Table Type Horizontal Boring Mill. 48" X 120" Table, X-axis travel = 108", Y-axis travel = 72", Saddle travel = 46", Spindle travel = 36", 1120 max R.P.M. with readouts. 43" x 44" rotary table.
- 5" G & L Fraser, No.70AD5T, 60" x 120" Table, 108" X-axis travel , 96" Y-axis travel, Saddle travel = 60", 975 RPM, 3 Axis Readout with Right Angle Head.



2008 Toshiba CNC Horizontal Boring Mill & Milling Machine, Model BTH-130.R24,



2007 Toshiba CNC Horizontal Boring Mill, Model BP-130.P40

MACHINE TOOLS & TOOLING (Continued)

CNC Vertical Turning Lathes

- 124" Bullard Dyn-Au-Tape CNC VTL. 140" max swing, 124" table, 60 RPM, 5 position turret, 44" of ram/turret travel (Vertical), 72" max clearance under the rail. 2005 Fanuc 21i control, Renishaw tool probe and touch probe.
- 92" Bullard Heavy-Cut Dyn-Au-Tape CNC VTL, 98" max swing, 92" table, 71" Ram travel (vertical), 84 max clearance under the rail, 12 slot tool changer, thru-tool coolant, var. lead thread cutting. 2005 Fanuc 21i control.
- 1998 You-Ji YV 1600 ATC CNC VTL, 63" Dia Table, 79" max swing, 71" max. cut, 35.4" max. vert. ram travel, 17,600# max load, 12 tool tool changer, 2-250 RPM.
- 52" Bullard CNC VTL (1974), 58" max. swing, 40" max. clear. under rail, 50.375" under turret face, 26" vert. turret head travel, 34.250" horiz. turret head travel. Fanuc 0i-TC control.

CNC Vertical Machining Centers

- 2005 Haas VF-3 Vert. Mach. Center with 40" X-axis , 20" Y-axis & 25" Z-axis.
- 1993 LeBlond Vertical Machining Center, 31.5" Y-axis, 98.44" X-axis, 27.56" under spindle, 39.37" x 110" table, 30 tool – tool changer.

Other Machine Tools & Equipment

- Bridgeport Vertical Mill with 28" powered table travel, 12" saddle travel, 16" knee travel and 2-axis digital readouts.
- 2" x 24" Mitts & Merriell Model #K2024 Keyseater, 2" max. width keyway, 24" max. keyway stroke, max. work piece wt.= 5 tons, depth toler. to .001".
- 1976 Carlson Radial. Swing of arm: 4', distance under arm to bed: 55-1/4" max., drill capacity: 2" dia., #4 Morse Taper.
- 1983 Marvel Series 916M Vertical. Capacity: 12" dia., vise capacity: 17", 3 HP, Band angles: 1-45 deg.
- (2) Granite Inspection Stones (72" x 120" & 48" x 72").
- Rotary Tables:
 - 24" x 48" G&L Airlift Table 60" x 60" Lucas Airlift Table.
 - 59" x 59" Toshiba Power Table 72" x 72" Lucas Airlift Table
 - 70" x 155" Toshiba Programmable Table.

MISC. ASSEMBLY FLOOR EQUIPMENT

- (3) Hogan Magnetic Drills.
- 50 H.P. Ingersoll Rand Air Compressor.
- Hydro Pressure Testing Equipment.
- Goff HydroPulse Parts Washer # HP60, 60" dia. x 46" high, 3,000 lbs. capacity.

QUALITY MACHINE LLC (Newton Falls, Ohio)

The Newton Falls facility (13,000 sq. ft.) is equipped with the following –

MACHINE TOOLS & TOOLING

Horizontal Machining Center

- 2006 Kitamura Pallet-type Horizontal Machining Center Model HX400iF, 28.9" X-axis, 24" Y-axis, 24" Z-axis, 15.7" Sq. Pallet Tables

Vertical Machining Centers

- 1999 OKK Vertical Machining Center, Model MCV-660, 60" X-axis, 27" Y-axis, 25" Z-axis, 66" x 25" Table, 30 HP, Mitsubishi 635 control
- Johnford VMC 1520, 30" Z-axis, 28" Y-axis and 63" X-axis with 20 Tool Drum with Fanuc O-M control

CNC Lathes

- Johnford TC65 Turning Center. 28.3" swing over the bed, 20.4" over cross slide, 67.3" between centers, 35 HP with Fanuc OT-C control
- Johnford ST40 Turning Center. 31.1" swing over the bed, 23.6" over cross slide, 40.9" between centers, 35 HP with Fanuc OT-C control
- LeBlond Makino Baron CNC. 26" swing over ways, 19" swing over carriage, 120" between centers, 60 HP, NEW 2005 CNC Fanuc control

Manual Milling Machines

- 4" G&L Horiz. Boring Mill with 4" spindle, 64" X-axis, 52" Y-axis and 36" Z-axis
- 3" Shibaura Horizontal Boring Mill with Power Fed Rotary Table, Metric and English Threading Capabilities. 32" X-axis & 39" Y-axis

VManual Lathes

- Acer Engine Lathe - 24"/15" swing X 60" between centers
- Clover Engine Lathe - 18" swing X 48" between centers
- Ryazan Engine Lathe - 40"/26" swing X 120" between centers
- H.E.S. Tracer Lathe - 32.5"/20.5" swing X 168" between centers
- H.E.S. #HN500 Tracer Lathe - 18"/12" swing X 75" between centers
- Polamco Vertical Milling Machine - 15" X 78" travel
- Warner Swasey 2A Turret Lathe.
- Warner Swasey 3A Turret Lathe

This facility is equipped to provide "rush" repair & breakdown work including welding and assembly

Other Misc. Machines & Tooling

- Carlton Radial Drill 5' X 17"
- #2 K&T Vertical Milling Machine
- 1H.P. Bridgeport Vertical Milling Machine

Lifting Capacity

- Lift capacity to 4,000#



2006 Kitamura Pallet-type Horizontal Machining Center Model HX400iF

OUR PLEDGE TO OUR CUSTOMERS

Brilex Industries, Inc. pledges to provide you with the very best services possible at a fair cost to assist you in staying competitive within your industry ... because you are our future.



Rolling Mill Housings
Machined and assembled
at our Youngstown facility

NEED ENGINEERING HELP?

BOLTECH, INC.

For your engineering service needs, please visit Boltech, Inc., our sister company, at their website at www.boltechinc.com or contact them at (330) 746-6881.