



2800 McClelland Avenue  
Erie, PA 16510  
(814)898-2800  
[www.customeng.com](http://www.customeng.com)



2254 East 30<sup>th</sup> Street  
Erie, PA 16510  
(814)459-5277  
[www.lamjen.com](http://www.lamjen.com)

**QUALITY MANUFACTURING DONE RIGHT THE FIRST TIME  
EVERY TIME**

CUSTOM ENGINEERING CO. (814)898-2800  
[WWW.CUSTOMENG.COM](http://WWW.CUSTOMENG.COM)

# FACILITIES

Custom Engineering located at 2800 McClelland Avenue and Lamjen Inc. located just around the corner at 2254 East 30<sup>th</sup> Street in Erie, PA. Established in 1954 We are a quality driven company which is ISO – 9008, ASME Section VIII(U,R and S Stamps), AWS and TPG Certified.

We employ 60+ Certified welders and more than 30+ Highly trained machinists in more than 200,000 square feet of manufacturing space, which allows us to fabricate even the most difficult parts and fabrications, big or small.

Custom Engineering's commitment to the latest technology and training allows us to hold tight tolerances of .0005" on features per your specifications, including, squareness, flatness and parallelism. Milled and Bored finishes are specific to the customer specification and quick turnaround consistently exceeds the expectations of even our toughest customers. We can machine medium to large projects exceeding 60' long and 15' 6" wide made from Carbon Steel, Aluminum, Alloy Steel, Stainless Steel, Copper and other Exotic materials.

As our name implies, we enjoy the challenge of custom jobs. We have the experience and equipment to do manufacturing jobs that no other company can do.



## ON SITE QUALITY CONTROL INSPECTORS

# CUSTOM ENGINEERING CO. MACHINERY & EQUIPMENT

## Custom Engineering Machinery and Equipment

### Cranes

- (2) 40 Ton Bridge
- (1) 35 Ton Bridge
- (3) 20 Ton Bridge
- (6) 10 Ton Bridge
- (12) 5 Ton Jib
- (4) 3 Ton Jib
- (3) 2 Ton Hoist Monorail
- (2) 2 Ton O/H
- (7) 2 Ton Jib
- (1) 1.5 Ton Jib
- (1) 1 Ton Bridge
- (1) 1 Ton Chain Hoist Wall Mount



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### Grinders / Planer Mills / Boring

Make	Type	X-Axis	Y-Axis	Z-Axis	W-Axis	Table
SNK	CNC / HMC	118	78	63 Column	27.5 Spindle	63X71
Gray	CNC HBM	240	120	48	40 Table feed	110X110 & 108X168
Haas	CNC/VMC	40	20	25	N/A	18.5X48
Niles	Planer Mill	150	97	8 (72 Under Rail)	N/A	84X146
Amera-seiki	CNC/VMC	04	79	35	N/A	65X204
Niles	Planer Mill	240	73	8 (69 Under Rail)	N/A	64X241
Cincinnati Gilbert	HBM	65	60	24	24	48X48
Niles	Planer Mill	306	182	10 (116 Under Rail)	N/A	132X364
G&L	CNC HBM	108	72	36	48	48X120
G&L	HBM	169	69	48	N/A	110X192
Gray	Planer Mill	365	147	10 (102 Under Rail)	N/A	132X364
Cincinnati Gilbert	CNC VMC	120	30	114	N/A	28X157
Cincinnati Gilbert	E Mill	117	30	14	N/A	30X108
G&L	HBM	158.3	90	48	N/A	N/A
G&L	HBM	N/A	N/A	N/A	N/A	73X168
(2) Blanchard	Rotary	N/A	N/A	N/A	N/A	72 (84 Swing)
Supertec	Surface	N/A	N/A	N/A	N/A	40X118
Thompson	Surface	N/A	N/A	N/A	N/A	36X120

### Radial Drills

#### Make

- (1) Carlton Small Radial Drill
- (1) Cincinnati Bickford Chip Master
- (1) Carlton 1A1456
- (1) Ikeda RM-1000
- (1) Cincinnati Bickford 19 Col."
- (2) Custom Double spindle BTA Max 2" hole dia. X 20' drilling depth one direction, 20' total

#### Column Diameter X Arm Length

- 17"X6'
- 17"X6'
- 12"X3'
- 12"X3'
- 19"X9'



**BRING IT ON – LIFT CAPACITY UP TO 160,000 LB.**

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# LAMJEN INC. MACHINERY AND EQUIPMENT

## Lamjen Machinery and Equipment

### Cranes

- (2) 3 Ton
- (1) 2 Ton
- (1) 1 Ton
- (1) 1000 lb.
- (3) 550 lb.

### Vertical and Horizontal Machining Centers (CNC)

- (1) Okuma MA-50-HB
- (1) Okuma ES-V3016
- (1) Okuma MC-V4020
- (1) Haas VF6/50 (**NEW**)  
Enhanced Memory, 15,000 RPM Spindle, High Pressure Cooling fluid  
X-Axis up to 64", Y-Axis up to 32", Z-Axis up to 30"

### Turning Centers (CNC)

- (1) Okuma Model LB 400-M (w/Live Tool Capability)  
X-Axis Travel 24" Max (OD), Z-Axis Travel 49" Max (Length)
- (1) Mazak Quick Turn 18
- (1) Okuma LU 15 4-Axis
- (1) Okuma L470
- (2) Okuma ES-L6  
Chuck Range 8" through 15", X-Axis up to 18", Z-Axis up to 36"

### Large Capacity Turning Centers

- (1) Okuma V100R (Vertical) (CNC)  
Turning Capacity up to 42", Z-Axis up to 36"
- (1) DeFum VTM (w/Digital Controls)  
Turning Capacity up to 53", Z-Axis up to 36"
- (1) Haas ST40L (CNC) (**NEW**)  
Turning Capacity up to 25.5", Z-Axis up to 80"

### Milling Machines

- (8) Bridgeport Milling Machines  
Table Range up to 9" X 48"



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### Precision Surface and Cylindrical Grinding

- (2) Harig Surface Grinders – 6" X 18"
- (1) Shigiya G30 Cylindrical Grinder – 12" X 28" Length Diameter

### Horizontal Boring Mill

- (1) Shibura BT 10B  
Work Envelope 54" X 45" X 60"

### Manual Lathes

- (1) Kent
- (1) Mori-Seiki MH 2000G
- (1) Sharpe 2680  
Max Swing 36", Length up to 120"

### Inspection Equipment

- (1) Bendix-Cordax 1810 CMM
- (1) S-T Industries Optical Comparator 30"
- (1) Brown & Sharpe Programmable CMM (**NEW**)  
Programmable from any customer supplied models  
Table size 40" X 56" X 28"
- (1) Faro-Gage Fully Portable CMM  
Inspection radius of 2' with  $\pm .0003$  accuracy  
Fully articulating arm allows inspection of parts in one set-up

**TIGHT TOLERANCE - .0005"**

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# WELDING AND FABRICATION

## Welding Certifications and Capabilities

More than 200,000 Sq. Feet of manufacturing space

(60+) Certified welders employed

In house certified welding inspector

ASME – U,R and S Stamps

ISO 9001-2008 Certified

AWS Certified

TPG Certified

(1) 3 bay Moto-man Robotic welding system

(35+) Medium to Large welding bays

(6) Precision Fit up areas to ensure a level surface and hold a tighter tolerance

(1) Plasma cutting table 144" X 280" with CNC control

(1) Oxy Fuel burning table 120" X 500" with CNC control

(4) Tank and pipe rollers up to 70,000 lbs.

### Welding Materials

Tungsten Inert Gas (TIG)

GMAW (MIG)

FCAW (Flux Core)

Sub Arc Welding (SAW)

Stick

### Non-Destructive testing

Ultrasound

Radiographic

Magnetic Particle

Dye Penetrant

Visual



## DEDICATED TO ON TIME DELIVERY

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