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**CERTIFIED TO: ISO 9001:2008**  
**MECHANICAL TESTING LABORATORY ACCREDITED TO:**  
**ISO 17025 BY A2LA**

**GENERAL EQUIPMENT LIST:**

Our brochure details the information pertaining to our facilities. Listed below are the various types of equipment that might be of service to you:

**AUTOMATIC SCREW MACHINES**

**17 SINGLE SPINDLE AUTOMATICS**

**Brown & Sharpe**, Capacities up to 1 1/2" diameter, complete with pick-up attachment for burring and slotting, cross-drilling, etc.

**Index-Werke**, sizes C-29, B-42 & B-60 with capacities up to 2 3/8" diameter, Capabilities: Single point thread chasing, thread milling, polygon milling, longitudinal turning, also eccentrics within the diameter capacities of the machines.

**40 MULTIPLE SPINDLE AUTOMATICS**

<b>National Acme</b>	6 Spindle with capacity up to 1 1/4" diameter.
<b>Warner &amp; Swasey</b>	5 Spindle with capacity up to 2 1/4" diameter.
<b>National Acme</b>	6 Spindle with capacity up to 2" diameter.
<b>New Britain</b>	6 Spindle with capacity up to 1" diameter.
<b>Davenport</b>	5 Spindle with capacity up to 3/4" diameter.

**15 MULTIPLE SPINDLE CHUCKING AUTOMATICS (Second Operation)**

<b>National Acme</b>	6 Spindle with capacity of 1 1/4" & 2" diameter.
<b>New Britain</b>	6 Spindle with hydraulic with chuck jaws.
<b>Conomatic</b>	8 Spindle with capacity up to 1 5/8".
<b>Conomatic</b>	6 Spindle with capacity up to 1 5/8".

**COLD HEADING MACHINES**

**National 1000-5**, 5-Station Long-Stroke, capable of forming parts from wire up to 1" shank diameter with lengths up to 9" under the head.

**National 1000-4**, 4-Station Long-Stroke, capable of forming parts from wire up to 1" shank diameter with lengths up to 9" under the head.

**National 1012**, 5-Station Bolt Maker, 3/4" diameter capacity 6" length under head capacity.

**National 8L4**, 5-Station Bolt Maker, 1/2" diameter capacity 3 3/4" length under head capacity.

**National Formax FX24L**, 4-Station Cold Header, 5/16" diameter capacity, 3 1/4" length under head capacity. Grouped in a work cell with a National Formax FXTD Thread roller. (2 machines)

## CNC TURNING/MILLING EQUIPMENT:

**Clausing/Colchester Storm 80** 2-axis Chucker and Bar machine. 6ø chucking capacity, 1 5/8ø bar capacity.

**Yama Seiki GA-230** 2-axis Chucker and Bar machine. 8ø chucking capacity, 2ø bar capacity

**Haas Mini-Mill** 3- axis Vertical Milling machine (2 machines)

## SECONDARY AND SUPPORT EQUIPMENT

### 1. EDM

**Sodick A 280L**, 4 Axis CNC wire EDM.

**Japax LU3B**, 4 Axis CNC wire EDM.

### 2. **Cincinnati & Van Norman** Centerless Grinders (7 machines): Nos. 2 OM, 220-8, 340-20. Bar Grinding, Thru Feed, and In Feed.

### 3. **Reed Rolled Threading** A22-Vertical, B112 Horizontal

### 4. **Waterbury** #20, #30, #40, & #60 Thread Rollers.

### 5. **Saspi** #20 Thread Roller.

### 6. **Snow** Drilling and Tapping Machines.

### 7. Hand and air feed drilling facilities.

### 8. Production Milling Equipment.

**Kent-Owens** Horizontal Milling equipment.

**Bridgeport** Vertical Milling machines.

### 9. Punch Press equipment up to 60 tons capacity. (2 machines)

### 10. **Schmidt**, Roll Marking equipment.

### 11. **Automation Packaging**, Automatic counting/packing equipment capable of giving precise piece count of parts ranging in size from 3/16 ø long up to parts 5/8ø diameter by 3 1/2ø long in boxes or poly bags

### 12. **Landis** Bolt Threader, capable of threading parts up to 1 1/2ø diameter and 10ø long for set screws, 12ø for cap screws.

### 13. **Sunnen** ID Hone 1/4 to 2 1/2 ID.

### 14. **Parker Majestic**, ID/OD Grinder 7ø OD maximum ó 2 1/2ø ID maximum, 18ø Length maximum.

### 15. Sandblaster.

### 16. Ultra Sonic Vapor degreasing.

### 17. Continuous Parts washer with 4,000 pound per hour output capacity.

## MEASUREMENT & TESTING EQUIPMENT

**Tesa** Profile 30 non-contact measuring machine capable of measuring diameters up to 1.2 inches & 8 inches in length.

**Wilson** Instrument Tukon Microhardness tester, with related lab facilities.

**Rockwell** Hardness Testers, Superficial hardness tester.

**SATEC/Baldwin** 400,000 pound capacity Universal Testing machine for destructive tensile testing up to 1 1/2ø diameter.

**Mahr Gage** ó Measures diameter to .00005.

**Brown & Sharpe** Profilometer ó Measures surface finish to 1 RMS.

**Uresco** Ardrox Magnetic Particle inspection machine.

**CMI** ó Coating Measurement Instrument for measuring plating thickness

**Johnson & Starrett** - System 22 Thread Gaging Equipment for External & Internal Threads

**Gagetrak** - Calibration & Recall Software System

**PMC Industries** Contoureader Model 125 with recording printer for 10X up to 200X

**Jones & Lamson** Optical Comparators



Member