



CERTIFIED TO: ISO 9001:2000
TESTING LABORATORY ACCREDITED TO:
ISO 17025 BY A2LA

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GENERAL EQUIPMENT LIST:

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

AUTOMATIC SCREW MACHINES

17 SINGLE SPINDLE AUTOMATICS

Brown & Sharpe, sizes OOG, OG, AND 2G with 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

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

15 MULTIPLE SPINDLE CHUCKING AUTOMATICS (Second Operation)

National Acme	6 Spindle with capacity of 1 1/4" & 2" diameter.
New Britain	6 Spindle Hydraulic with Chuck Jaws.
Conomatic	8 Spindle with capacity up to 1 5/8".
Conomatic	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, 5-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 Bolt Maker, 5/16" diameter capacity, 3 1/4" length under head capacity.

Mekifasa M-8, 2 DIE 3 Blow, 5/16" diameter capacity, 3" length under head capacity.

Fide M12, 2 DIE 3 Blow, 1/2" diameter capacity, 4" length under head capacity.



CNC TURNING EQUIPMENT:

Clausung/Colchester Storm 80 2-axis chucker and bar machine. 6" chucking capacity, 1 5/8" bar capacity.

SECONDARY AND SUPPORT EQUIPMENT

1. CNC WIRE EDM
 - A. **Sodick** A 280L , 4 Axis CNC wire EDM.
 - B. **Japax** LU3B, 4 Axis CNC wire EDM.
 - C. **Charmilles** Die Sinking 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. **Snow** Drilling and Tapping machines.
6. Hand and Air Feed Drilling facilities.
7. Production Milling Equipment.
 - A. **Kent-Owens** Horizontal Milling equipment.
 - B. **Bridgeport** Vertical Milling machines.
8. Punch Press equipment up to 60 tons capacity. (2 machines)
9. **Schmidt**, roll marking equipment.
10. **Automation Packaging**, Automatic Counting/Packing equipment capable of giving precise piece count of parts ranging in size from 3/16 " long up to parts 5/8" diameter by 3 1/2" long in boxes or poly bags
11. **Landis** Bolt Threader, capable of threading parts up to 1 1/2" diameter and 10" long for set screws, 12" for cap screws.
12. **Sunnen** ID Hone 1/4 to 2 1/2 ID.
13. **Parker Majestic**, ID/OD Grinder 7" OD maximum – 2 1/2" ID maximum, 18" Length maximum.
14. Sandblaster.
15. Ultra Sonic Vapor degreasing.
16. Continuous Parts washer with 4,000 pound per hour output capacity.

INSPECTION 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 1/2" diameter.

Mahr Gage – measures diameter to .00005.

Bendix Profilometer – measures surface finish to 1 RMS.

Uresco Ardrox Magnetic Particle inspection machine.

CMI – Coating Measurement Instrument for measuring plating thickness

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

Data Myte – 862 S.P.C. Data Collection System

Gagetrak calibration & Recall System

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

Jones & Lamson Optical Comparators