

### CNC Milling & Turning

Work Performed: Contouring, Drilling, Milling, Tapping, Boring, Turning, Threading etc.

#### 10 - Vertical Milling Machines:

6 have turntables for medium thru high volume secondary production work.

Work envelope up to 120 x 36 x 32 inches, Tool capacity up to 31 tools, Rpm to 12,000

#### 9 - Miyano Twin Turret Bar Machines

Bar capacity up to 1-5/8, chucking capacity up to 6 inches, rpm up to 6000

Super precision CNC with near screw machine cycle speeds, Some with live tooling "C" axis,

Prototype to medium range production.

#### 10 - CNC Lathes

Bar capacity to 6" thru the spindle, Turning capacity to 120" in length,

Some machines have live tool "C" axis capability, Prototype to low volume production

#### 2 - Saws

Mastercut Automatic Saws up to 18" square capacity.

Online computer system with 3D graphics (CAM) for programming. Full MRP software.

### Screw Machine Department

Our screw machines are continuously being rebuilt and reconditioned to maintain close tolerancing. We are very competitive in close tolerance low to mid volume screw machine work. Bar capacity up to 2-3/8 diameter.

5 – 2G Brown & Sharpe up to 1-1/2 inch bar capacity

4 – OOG Brown & Sharpe up to 9/16 inch bar capacity, 2 have Lipe bar feeders

3 – Index B-60 high precision screw machines, 4 cross slides, 8 position turret, single point threading, 2-3/8 diameter bar capacity

1 – Index B-42 same as above except 1-5/8 diameter bar capacity

3 – Davenport multiple spindle screw machines, 3/4 inch bar capacity

2 – Hardinge DSM 5A hand screw machines, 1-1/16 diameter bar capacity

2 – Hardinge HSL 59 speed lathes, 1-1/16 diameter bar capacity

#### Support Equipment

Tool grinding machines, tooling, sanders, pedestal grinders, buffers, tumbling, automatic surface grinders etc.

### Secondary Department

This department specializes in prototype thru low volume production drilling, tapping, milling, etc.

1 - Kent Owens Horizontal 1-8 Production Milling Machine

1 - Clausing Triple Head 20" Powerfeed Drill Press

6 - Drill Presses various models 14" – 20"

2- Milltronic CNC vertical tool room milling machines with tool changers.

### Inspection Department

Our inspection department employs 3 full time inspectors. All inspection equipment is calibrated per our ISO procedure. Our gaging equipment is continuously calibrated and traceable to national standards.

2 -Coordinate measuring machines. One with full computerized power drive.

2 – Profilometers (surface roughness testers)

2 – Starrett Comparator full electronics surface illuminated and quadra check

4 – Certified Gage Block sets

4 – Millimess Jeweled indicators .00002 increments

Many – Precision Bore Gages / Sunnen I.D. Gages / Thread Plug and Ring Gages

I.D. Plug Gages .00004 accuracy / Micrometers, Calipers, etc. Test Stands and Indicators

### Outside Services

Our vendors and suppliers are monitored very closely to assure quality, competitive pricing and on time delivery. We have an extensive vendor list that includes:

Honing, Anodizing, Plating (all types), Powder Coating, Heat Treat, Broaching, Thread Rolling etc.