

## Equipment Listing

### CNC TURNING EQUIPMENT

- Okuma LB3000-EX2 live tool
- Okuma LB 3000-EX live tool
- Tsugami BS32 Swiss Turning Center with live tools, sub-spindle, & bar feeders
- Tsugami BS26 Swiss Turning Center with live tools, sub-spindle, and bar feeders
- Okuma LB15II 4th axis
- Okuma Crown with bar feeder and quick change tooling
- Okuma LU25 live tools CNC with 4th axis
- Okuma LR15 with robotics and 4th axis
- Okuma LB25 40 inch travel

### CNC MILLING EQUIPMENT

- VTXZ Hurco with 4th axis 80 inch travel
- Hurco VMX42i 4 axis (Qty 2)
- Hurco VMX30U 5 axis (Qty 2)
- Mori-Seiki NH5000 4 axis horizontal with 10 pallets
- Mori-Seiki SH50 CNC 4 axis horizontal with 12 pallets
- Hurco VM2 4th axis
- Hurco VMX50 50 inch travel
- Hurco VMX30 4th axis
- Okuma MC4VA CNC 4th axis
- Okuma MC50VA 4th axis
- Hurco MD1

### QA EQUIPMENT

- Zeiss and Brown & Sharpe Coordinate Measuring Machines
- Moore Data Gage to 10 millionths
- Mitutoyo Optical Comparator
- Digital Measuring Tools to 12" ID/OD
- Surface Finish Tester
- Rockwell Hardness Tester

### WATER CUTTING EQUIPMENT

- Techni Waterjet with PAC 5-axis cutting head

### WELDING EQUIPEMENT

- Panasonic 9-axis Robotic Welders (2) with 500 amp pulse-power unit
- MIG welders (2) 500 and 200 amp
- 300-amp TIG welder (1)

### ASSEMBLY AND HYDRAULIC TEST STATION

Our custom designed, computer automated, hydraulic test station can test pressure up to 4,000 psi and flow rates to 7 gpm. Test results can be configured and documented to your specifications and requirements.

Our custom equipment allows us to perform ISO 9000 testing and documentation. This is an intricate part of our 0-DEFECTS policy.

### ENGINEERING

- CAD Workstations, Espirit 3-D Software

### SHOP SOFTWARE

- E2 Software syStem

### GENERAL EQUIPMENT

- Amada 10" horizontal saws (2)
- Kaltenbach 6" Cold saw (1)
- Do All Vertical Band saws (2)
- Bridgeport mills w/ readouts (5)
- Clausing Drill Presses (8)
- Colchester manual lathes (4)
- Chevalier grinder 6 x 18 (1)
- Shaft Straightening Press (1)
- Vibratory deburring units (5)
- Sand blast/ bead blast cabinets (2)

## Materials Listing

### **C & R Manufacturing Materials:**

We can machine a wide variety of materials, including:

- Alloy Steels
- Aluminum
- Brass
- Bronze
- Carbon Steels
- Castings
- Copper
- Inconel
- Plastics
- Stainless Steel
- Titanium
- Tool Steels

We also weld aluminum, carbon steel, and stainless steel.