

Since 1941

---

---

# Superior Heat Treat LLC

---

---

Tool & Die Specialists

ISO 9001:2008 REGISTERED

## SERVICE SHEET

- Full service heat treat
- Protective atmosphere processing
  - size control
  - surface integrity
- Industry Job Turnaround Leader

---

---

### **Tool & Die**

### **Prototype**

### **Short Run Production**

---

---

#### **SERVICES:**

- Metallurgical consultation
  - material selection
  - design for heat treat
  - dual hardness specifications
- Prototype assistance
- Expert straightening
- Certified - Army, Navy
- Free Pick-up and Delivery

#### **MATERIALS:**

- All SAE low carbon grades
- All SAE alloy grades
- Oil hardening
- Air hardening
  - hot work, cold work
- Water hardening
- Stainless steel
- High speed steel
- Aluminum alloy
- Copper alloy

#### **INDUSTRIES SERVED:**

- Power Transmission
- Aerospace and Armaments
- Machine Tool (and Accessories)
  - Metal Cutting Tools
  - Metal Forming Tools
- Tools, Dies, Gages and Fixtures
- Automotive
- Plastic Injection Mold Dies
- Screw Machine

#### **PROCESSES:**

- Carburizing
- Hardening
- Salt bath hardening
- Martempering
- Carbonitriding
- Ferritic nitrocarburizing (FNC)
- Solution annealing and aging
- Nitriding
- Normalizing
- Annealing
- Stress relieving
- Deep freeze stabilizing
- Flame hardening
- Sand/Vapor blasting
- Black oxide (Roberts & Sons)

#### **TESTING CAPABILITIES:**

- Rockwell hardness
  - major and minor loads
- Brinnell hardness
- Tukon microhardness
- Sample preparation
- Metallagraphy

#### **MEMBERS OF:**

- The American Society of Metals
- Michigan Manufacturer's Association

Continuously working to improve on ...

The Quality You Expect • The Delivery You Need!