



**SDS Mechanical & Automation**  
A Division of Southern Design Services, Inc.

# Machining Capabilities

## **CORE SERVICES**

- CNC Milling & Turning
- Prototype & Production Machining
- Tight Tolerance Work
- Keyway Cutting & Internal Features
- Precision Honing
- Heat Treatment
- Quality Control

## **MILLING (CNC & CONVERSATIONAL)**

### **Mazak V60**

- Vertical w/ AB Head
- X: 125", Y: 58.25", Z: 33.5" - Table: 48" x 120"

### **Mazak FJV-60/120 TRM1**

- Extended travel capacity for large or complex components
- X: 125", Y: 58.25", Z: 28" - Table: 48" x 120"

### **HAAS VF-6**

- High-volume production w/ tight tolerances
- X: 64", Y: 32", Z: 30" - Table: 64" x 28"

### **HAAS VF-3**

- Precision machining for mid-size parts
- X: 40", Y: 20", Z: 25" - Table: 48" x 18"

### **HAAS VM-2**

- High-speed machining w/ fine details
- X: 30", Y: 20", Z: 20" - Table: 36" x 18"

### **HAAS TM-2P**

- Flexible setup for prototyping or daily use
- X: 40", Y: 16", Z: 16" - Table: 57.8" x 10.5"

### **HAAS TM-1**

- Fast, low-volume, general-use production
- X: 40", Y: 16", Z: 16" - Table: 47.8" x 10.5"

### **ProtoTRAK DPM Bed Mill (Conv.)**

- Heavy-duty machining w/ hybrid controls
- X: 41", Y: 20.5", Z: 24" - Table: 50" x 12"

### **ProtoTRAK K3 (Bridgeport Type) (Conv.)**

- Quick setup w/ versatile features
- X: 32", Y: 16", Z: 21" - Table: 50" x 10"

## **TURNING (CNC & CONVERSATIONAL)**

### **HAAS DS-30Y (Dual-Spindle)**

- Multi-axis machining, milling, AND turning with 13.75" cutting diameter

### **HAAS ST-40L**

- Heavy-duty turning w/ 35.5" swing

### **Doosan Lynx 2100L**

- Fast & precise machining w/ 13.75" cut diam.

### **ProtoTRAK 1630SX (Conversational)**

- Fast repairs, customs, & short-run parts
- 3-Jaw and 4-Jaw chucks available

## **MANUAL MILLING & TURNING**

### **Bridgeport Mills (w/ Variable-Speed Heads)**

#### **Knuth Turnado 230/1500**

- 18" swing over ways, 9" swing over carriage
- 3-Jaw and 4-Jaw chucks available

#### **Knuth Sinus 330/2000D**

- 26" swing over ways, 17" swing over carriage
- 3-Jaw and 4-Jaw chucks available

## **GRINDING, KEYSEATING, & HONING**

### **REID Rollerway Surface Grinder**

- Precision flat grinding w/ fine surface finish

### **Victor Surface Grinder**

- Fully automated for consistency & precision

### **42" Blanchard Grinder**

### **Hansford Davis Keyseater**

- Internal keyways, splines, and slotting
- Capacity: 1" / 20mm

### **Sunnen Hone**

- Precision bore finishing w/ tight tolerance
- Capacity: 2.875" w/ keyway (3.25" without)

### **Portable Honers**

- For hard-to-reach areas (100mm capacity)

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