

# **Standard Technologies & Machine Co., Inc.**

**CNC MACHINE  
WORK, COATINGS,  
GRINDING, &  
CHROME PLATING**



Phone 302-994-0229

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# Machine Shop CNC

We currently have 6 CNC machines in our shop. Three vertical CNC milling machines and three CNC lathes. Most of our programming is done at the machine control, but for complex surface machining or mold making we have a 3D Cad / Cam package that allows us to draw and machine complex 3D shapes. Below is a list of our CNC machines and their capacities.

- *Mazak VQC 20/40 Vertical Mill  
Table size—38" x 40"*
- *Mazak VTC 200B Vertical Mill  
Table size 38" x 57"  
10,000 RPM Spindle*
- *Mazak FJV 25 Vertical Mill  
Table Size—28" x 40"  
12,000 RPM Spindle*
- *Mazak Quick Turn 20 Slant Bed  
Lathe  
12" Swing x 36" Length  
2,500 RPM Spindle*
- *Chevalier Flat Bed Lathe  
26" Swing x 80" Length*



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# Machine Shop

## **Manual Turning**

**6 Machines**

**Maximum capacity: 26" swing x 12' long**

## **Manual Milling**

**5 machines**

## **Grinding Cylindrical**

**5 Machines**

**Maximum Capacity: 16" dia. X 72" length**

## **Grinding Internal**

**1 machine**

**Maximum Capacity: 12" swing**

## **Grinding Surface**

**1 machine**

**Maximum Capacity: 12" x 18"**

## **Dynamic Balancing**

**1 machine**

**250 lbs cap.**

## **Welding**

**4' x 8' Welding Table**

## **Polishing / Super Finishing**

## **Drilling / Tapping Machine**

## **Grit Blasting**



# Plasma Coatings

This is a thermal spraying process that enables us to deposit molten alloy and ceramic coatings onto metal so that these coatings solidify and mechanically bond. These spray coatings are used to improve surface wear characteristics; to provide resistance to heat, oxidation, and chemical environment; to restore dimensions or to build up the surface of worn parts so that it can be machined or ground to original dimensions; to reduce erosion wear; and to improve corrosion control.

## Example of Coatings

- ◆ Chrome Oxide.
- ◆ Aluminum Oxide.
- ◆ Nickels.
- ◆ Zirconium.
- ◆ Copper.
- ◆ NiChrome
- ◆ Molybdenum.
- ◆ Stainless Steel
- ◆ Key Benefits
- ◆ Longer part life
- ◆ Repair of expensive parts
- ◆ Heat barrier
- ◆ Corrosion control



# Chrome Plating

**Industrial hard chrome plating - this can be used for a number of industrial applications, i.e. restoration of dimensions; provides resistance to heat, oxidation, and chemical environments; provides wear resistant characteristics; and can be used also as a mold release finish and provides molds with a hard surface.**

**Along with the standard plating techniques, we have a patented process that allows us to chrome plate onto aluminum. This process is used when there is a need for the reduce weight factor of aluminum instead of steel for machinery in high speed applications.**

## **Key Benefits**

- **Wear resistance**
- **Chemical resistance**
- **Release properties**
- **Longer part life**



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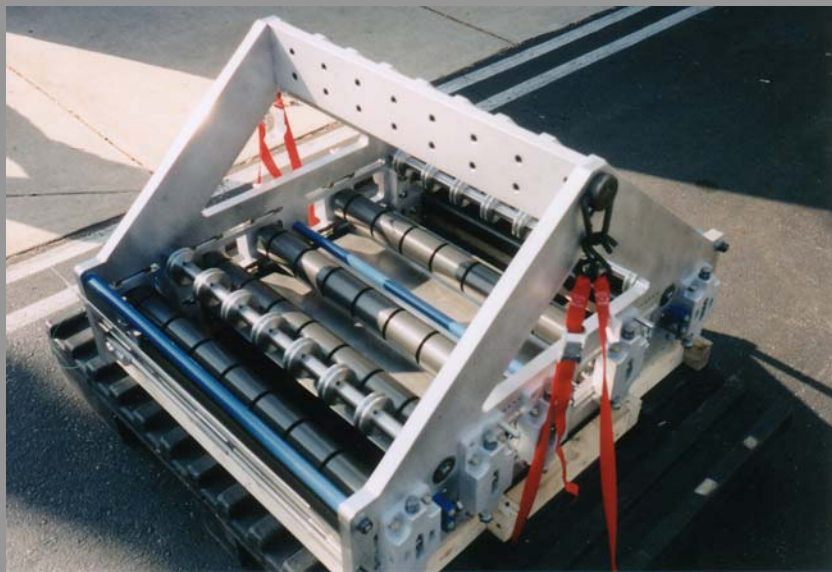
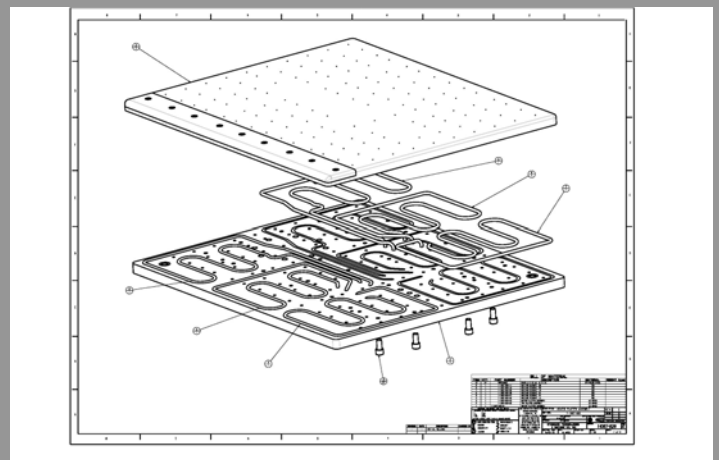
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# Design Projects

Standard Technologies & Machine Co has experience with many mechanical design projects. Our designer has 20 years of Mechanical Design experience. We have designed and built small machines, sub-assemblies and prototypes of all kinds. We have experience in working with motion control devices, heaters and controllers. When the job is complete we supply you with full size drawings and all electronic files in .dwg, .igs, .dxf and many other formats.



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