



## OUR PLEDGE TO YOU

**WE ARE ...** justly proud of our services, because we know that every piece that leaves our facility is backed by the knowledge, experience and pride of skilled craftsmen and the critical eye of our inspectors. First of all, we must satisfy ourselves – and that's not an easy task! Excellence, Integrity, Commitment: not a goal, but a way of life.

## CORE VALUES

**WE BUILD ...** corporate values by serving customers, employees, suppliers, and our community under the highest standards of morals and ethics. We will respect our core values of Excellence, Integrity and Commitment. We are known for the quality of our services; our concern for employees, customers and vendors; and our commitment to living by the Golden Rule.

## QUALITY CONTROL

**WE STRIVE ...** continuously to improve every facet of our business, so that we may continue to offer superior metal finishing services at competitive prices, thereby providing for mutual growth and profitability for ourselves and our customers.



**PRAISE OR PROBLEM?  
TAKE IT STRAIGHT TO THE TOP.  
TALK DIRECTLY TO RICH BURTON  
OUR C.E.O.**

**Call: 800.275.3901 ext. 202**  
or e-mail him at [rburton@acmesdi.com](mailto:rburton@acmesdi.com)



**“SO IN EVERYTHING, DO UNTO OTHERS WHAT  
YOU WOULD HAVE THEM DO TO YOU...”**  
-MATTHEW 7:12

P.O. Box 2388, Alliance, Ohio 44601

Phone: 330.821.3900 • 800.275.3901 • Fax: 330.821.4282 • [www.acmesdi.com](http://www.acmesdi.com)





## MARKETS WE SERVE

The markets we service are as diverse as the services we offer but are linked by a common mission: each service we perform and precisely engineered component is meticulously documented to assure the highest quality standards.

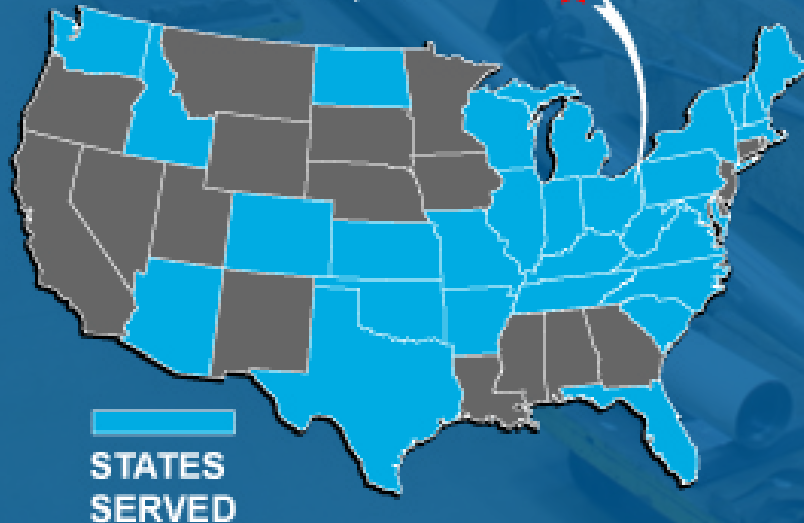
ACME understands the needs of industrial markets and the importance of providing timely and effective solutions. In today's competitive global marketplace businesses are seeking to maximize efficiency, reduce expenditures, and decrease turnaround time.

ACME's experience spans across a variety of industries and has served as a vital component in helping us achieve their business objectives, enhance customer satisfaction and grow their competitive edge. ACME is a solutions-driven company and we are poised to drive growth in the markets we serve.

The following list is a sample of the industries that have benefited from our finishing services. If you do not see your particular industry listed please contact us. ACME specializes in solutions as we endeavor to serve you.

- Agriculture
- Aerospace Components
- Automotive Manufacturing
- Chemical Manufacturing Equipment
- Dental Components
- Dies, Tools and Jigs
- Extrusion Machinery
- Fluid Power Equipment
- Food & Beverage Processing Equipment
- Glass Manufacturing
- Hydraulics Components
- Industrial Molds
- Machine Tools
- Mechanical Power Transmission Equipment
- Medical Components
- Medical Power Equipment
- Metal Forming & Fabrication
- Metals & Steel Manufacturing Equipment
- Mining
- OEM (New & Retrofit)
- Oil & Gas
- Paper Mills
- Paper Products
- Plastic Injection Equipment
- Polymers & Plastics
- Printing Rolls
- Pumps & Pumping Equipment
- Railroad Equipment
- Rolling & Coil Mill Machinery & Equipment
- Screw Machine Products
- Specialty Equipment
- Specialty Hinge Components
- Specialty Stainless Steel Tubing
- Steel Mills: Surface Texturing & Embossing Rolls
- Steel Production Machinery
- Tire Manufacturing Equipment

**ACME Surface Dynamics, Inc.,  
Alliance, Ohio**



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## QUALITY AND INTERNAL CONTROLS

ACME Surface Dynamics, Inc., prides itself on our commitment to providing a quality service of which we can be proud. We utilize innovative technology and internal controls to ensure that we are delivering perfection to our customers. We strive for perfection ... anything less is unacceptable.

Our commitment to quality is an extension of our commitment to our customers. We view quality as an ongoing process. We build and sustain relationships by assessing, anticipating, and exceeding the needs of our customers.

We don't simply maintain industry standards, we exceed them. We have implemented a structured schedule of regular lab analysis of our baths, and perform ongoing evaluations to ensure that our equipment is performing at its peak. Furthermore, we carefully document every job. This documentation includes recording each of the following: temperature, amperage, plating time, plating thickness, operator verification, tank ID, date, pre/post inspection notes, and measurements. Each piece that we service has traceable documentation, thus assuring the highest quality is delivered.

We guarantee that what we deliver will be free from defects, deficiencies and variations. We do this by the strict and consistent adherence to measurable and verifiable standards to achieve uniformity of output that satisfies specific customer or user requirements. When we send out product it is ready for assembly. We operate under a mirrored ISO 9000 Quality Management System with comprehensive job tracking.

Most importantly, we see our work as a reflection of our word. In turn, we fully stand behind our services.

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## HARD CHROME PLATING

Robbins & Myers  
5 ton

### Key Benefits:

- Corrosion Resistance
- Abrasion Resistance
- Improved Lubricity
- Extended Life of Parts
- OEM and Parts Restoration

Hard Chrome Plating, also known as “engineering” or “functional” chromium, is one of the most durable, wear-resistant surface finishes for the machinery industry. It is applicable to interior as well as exterior surfaces.

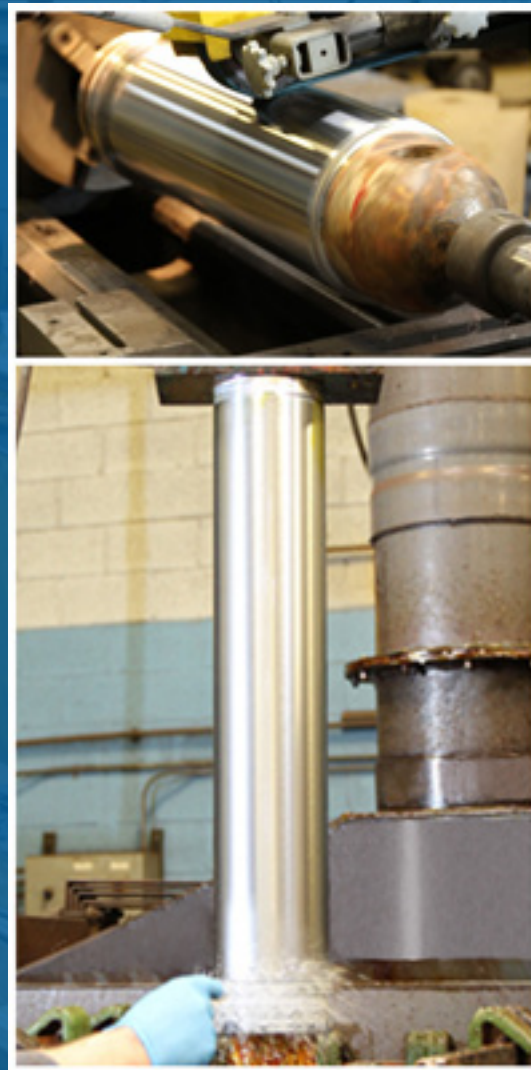
ACME's Hard Chrome Plating has an as-plated hardness of 68-70 HRC. Chrome can be applied from 0.0002" to 0.050" thick (coatings thicker than 0.004" may need to be finish-ground after plating). Our equipment will handle up to 36 inches in diameter and 30 feet in length, and has a maximum weight capacity of 10,000 lbs.

Hard Chrome Plating is used to provide a working surface that addresses the following characteristics: increased corrosion and wear resistance, chemical resistance, and reduction in the coefficient of friction. Plating replicates the base surface that is provided from a mirror-finish to a rough matte finish.

Common applications of Hard Chrome Plating include hydraulic cylinders and piston rods, rotors, crankshafts, printing plates/rolls, molds for glass forming, feedscrews for the injection mold and extruder industry, and some cutting tools.

Hard Chrome Plating is commonly used for the rebuilding of worn parts such as axles, piston rods, rolls, journals, shafts, molding and stamping dies, hydraulic cylinder barrels, and crankshafts.

We welcome the opportunity to quote your Hard Chrome Plating needs.



### Hard Chrome Plating Metal Finishing Standards

AMS 2460 (formerly QQ-C320)

AMS 2406 G

ASTM B650-95

MIL-C-23422D (SH)

MIL-STD-1501B (USAF)

ASTM-B177 (Standard Guide Engineering Chromium Electropolishing)

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## ELECTROPOLISHING

Robbins & Myers

### Key Benefits:

- Stress Relief of the Surface
- Removes Oxides
- Superior Corrosion Resistance
- Hygienically Clean Surfaces
- No Hydrogen Embrittlement
- Both Polishes and Deburrs Odd Shaped Parts

ACME Surface Dynamics, Inc., is proud to announce the establishment of a newly expanded Electropolishing department. This new system has increased capacity and reduced turnaround time for handling service orders. Electropolishing is typically utilized to improve parts cosmetically. It can be employed on a variety of metals, most commonly stainless steel.

- Aerospace Components
- Dental Instruments
- Fasteners
- Food & Beverage Handling Equipment
- Gears
- Marine Components
- Medical & Surgical Instruments
- Military Components
- Orthopedic Devices
- Specialty Cookware
- Springs
- Stainless Steel Fabricated Components
- Stampings
- Utensils

We welcome the opportunity to quote your Electropolishing needs. We can offer sample runs of your part(s) to determine if Electropolishing can benefit your product line.

### Electropolishing of Stainless Steel Standards ASTM B 912-02



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## PASSIVATION

### Key Benefits:

- Increased Corrosion Resistance
- Remove Sulfates from the Surface of Stainless Alloys
- Remove Surface Contamination from Machined Parts
- No Physical or Dimensional Changes

Passivation is a commonly required process for products manufactured for the medical, electronics, aerospace, and food and beverage processing industries.

Sometimes referred to as “Stainless Steel Pickling”, it is the chemical treatment of a stainless steel surface with a mild oxidant solution. This oxidant is exposed to the surface, creating a chrome-rich oxide film. This passive condition results in a reduced corrosion rate of metal. A surface film is created that causes the metal surface to lose its chemical reactivity.

Passivation is necessary because many times during the manufacturing process, oils, grease and other metallic particles may be embedded or smeared into the otherwise corrosion-resistant stainless steel surface. If allowed to remain on the surface, these particles may oxidize and produce rust spots on the stainless steel. To dissolve the embedded or smeared iron and prevent this condition, semi-finished or finished parts are passivated. Our Passivation process is designed to meet the needs of industrial and commercial customers, thus optimizing the performance of their components.

We welcome the opportunity to quote your Passivation needs. We can offer sample runs of your part(s) to determine if Passivation can benefit your product line.



### Passivation of Stainless Steel Metal Finishing Standards

QQ-P-35C

ASTM A-967 (formerly QQ-P-35C)

ASTM A-380

ASTM A-967-05

ASTM-B-117 (testing for presence of iron on surface)



## REQUEST A QUOTE

Please fill out the short form below and we will reply via phone or e-mail (indicate preference). If you have any questions, feel free to contact us at 800.275.3901. The information you provide will allow us to present a quote within two business days.

In order for us to provide the most accurate quote, please send a detailed print or drawing of the sample(s)/part(s) that you need quoted to the contact below:

**Rich Burton, President,**  
**rburton@acmesdi.com**  
**Fax: 330.821.4282**

## FAX FORM

NAME	MATERIAL	SPECIFICATION
COMPANY NAME	PLATING THICKNESS REQUIRED	
E-MAIL	DIAMETER	
PHONE	PLATED LENGTH WIDTH	
FAX	OVERALL LENGTH	
BEST TIME TO CALL	SURFACE FINISH SPECS	
TYPE OF SERVICE REQUESTED	WEIGHT	QUANTITY
NEW OR USED ITEM	TURNAROUND TIME REQUIRED	
DESCRIPTION OF ITEM(S) TO BE PLATED		

Security and privacy are of the utmost importance to us. This information is never shared, sold, or distributed under any circumstances.

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