ABB Metal Finishing

Electroplating, Cleaning and Painting Specialists

Plating to Suit Your Needs

ABB's Metal Finishing

ABB Inc. MV Service provides a host of custom metal finishing services through its world class facility in Florence, South Carolina. Choosing ABB for your needs will ensure quality conscience customers of the following:

**Quality**
We deliver plating meeting the high standards set forth by the nuclear industry, at an affordable price.

**On Time Deliveries**
We are committed to 100% customer satisfaction.

**Speed**
Our typical lead times are two to five days, but we offer turnarounds of 24 hours or less in emergencies.

**Testing**
Our testing is designed to meet all quality standards, including those for our nuclear industry. Many of our plated components are installed in UL Listed and Recognized assemblies. Our processes comply with:

- ISO 9001
- 10 CFR 50 Appendix B & 10 CFR Part 21
- NEMA
- ANSI
- IEEE
- ASTM
- Mil Specs
- Certification to other plating standards is also available

Experience in Plating

ABB has been plating parts in this location for 25 years. ABB is experienced in barrel, manual rack and automatic rack plating, meeting most needs.

Helping The Environment

With an on-site waste treatment facility, ABB strives to be a leader in protecting the environment. The Florence facility was the first ABB factory in the US to be certified as an ISO 14001 company.

Heat Treat Solutions

**Heat Treating**
ABB has a wide variety of ovens and furnaces for heat-treating applications. Heat treat operations include, but are not limited to: normalizing, annealing, carbo-nitriding and tempering. ABB has the capability to treat steel, copper, brass, bronze and aluminum.

ABB is also equipped for thermonic heat treat applications. This is used for hardening only certain areas of a component.
Plating Solutions For A Variety Of Needs

ABB Metal Finishing is equipped to plate parts varying in size from small pieces of hardware to parts up to 4’ x 4’ and even larger in some cases. Listed below are the different plating systems available.

**Automatic Conveyer Plating**
This system is used for high quality plating for larger parts with low cycle times.

**Barrel Plating**
Barrel plating is used for high quantity parts at low cycle times. Parts in a barrel range from hardware to parts one square foot in surface area. Our barrel plating line has been upgraded utilizing automatic PLC logic control.

**Manual Rack Plating**
Manual rack plating is for precision plating at low volumes. This system is commonly used for special requirement plating.

**Zinc Plating**
Zinc is a common industry plating for corrosion resistance. ABB zinc electroplating is available in manual rack and barrel plating systems. Zinc plating is offered with yellow or clear chromate immersion coatings.

**Silver Plating**
Silver plating enhances conductivity and corrosion resistance on copper parts. Silver plating is available in automatic conveyer, barrel and manual rack plating.

**Nickel Plating**
Nickel plating is commonly used for corrosion resistance, while maintaining an appealing cosmetic finish. Nickel plating is available in manual rack and barrel plating.

**Industrial Chrome Plating**
Chrome is an excellent choice for corrosion resistance of parts that may incur any type of impact. Common uses are bearings and latches. Chrome is available only in manual rack plating.

**Tin Plating**
Tin plating is commonly used for gaining high corrosion resistance where conductivity is still a must. Tin is available in barrel and manual rack plating.

**Copper Plating**
Copper plating is commonly applied to steel to increase conductivity, or as a pretreatment for another plating. Copper is available in barrel and manual rack plating.

**Black Oxide**
Black oxide is currently available for copper and aluminum parts. Black oxide is available only in manual rack plating. Contact ABB for special applications.