

The Metal Finishing Experts

BTR Plating Resources

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Products & Services

BTR-Plating Resources provides the highest quality **RoHS** compliant plating and electrocoat painting finishes to meet the specifications of the Automotive, Aerospace, Motorcycle, Telecommunications, Military, Trucking, and Commercial Manufacturing sectors at our **ISO 001:2000** and **ISO/TS 16949:2002** facilities.

BTR-Plating Resources is the best choice for anodizing, electro and electroless plating, electrocoat (e-coat, powder coat and top coat) production painting, and decorative bright nickel chrome plating.

BTR-Plating Resources has earned a reputation for outstanding quality and service by continuously searching for cost-effective, efficient and environmentally friendly processes to meet our customer's ever changing needs.

One-Stop Shopping

BTR-Plating Resources is your one stop source providing industrial plating and metal finishing services located in N.E. Ohio. We have remained a limited and focused resource assuring our customers the highest quality **RoHS** compliant industrial electroplating, electroless plating, electropolishing, electrocoat painting and surface coatings available.

The ingredients of technical experience, commitment to continuous quality improvement through on-going training and long term customer relationships, ensure our continued success in meeting the challenges of an ever-changing industry. [More Details](#)

Metal Finishing and Coatings

Bright Dip is a chemical process that brightens copper and brass by dipping them into a proprietary solution composed of acids and salts. After the articles are dipped into the solution they go into a chromic acid dip followed by three free flowing water rinses. The next step is a final hot water rinse followed by a proprietary pre-drying, energy-saving dip and then thoroughly dried.

Chromate Conversion Coating (also called alodine or iridite) is a process of chemical conversion. The chromate coatings are formed by the reaction of water solutions of chromate or chromium salts. The coatings can be applied to aluminum, zinc, cadmium and magnesium. The coatings usually have good atmospheric corrosion resistance. Chromate coatings are widely used in protecting common household products, such as screws, hinges, and many military hardware items with the yellow-brown appearance.

Passivation is a process which enhances the appearance and corrosion resistance of stainless steel. It is a final treatment/cleaning process used to remove free iron or other anodic contaminants from the surfaces of the stainless steel such that uniform formation of a passive layer is obtained.

Pickling is the treatment of metallic surfaces in order to remove impurities, stains, rust or scale with a solution called pickle liquor, containing strong mineral acids, before subsequent processing, such as extrusion, rolling, painting, galvanizing or plating with tin or chromium. The two acids commonly used are hydrochloric acid and sulfuric acid. Pickling liquor may be a combination of acids and may also contain nitric acids.

Polymer Coatings such as Teflon® and Xylan® are versital coatings which allow for almost unlimited application to a wide variety of part size and configuration. Polymer coatings provide lubrication and controlled friction, wear resistance, heat resistance, nonstick and release properties and can also protect from corrosion. By combining heat resistance with almost total chemical inertness, excellent dielectric stability and low coefficient of friction, polymer coatings offer a balance of properties unbeatable by any other material.

Zinc Phosphate Coating gives base metal surfaces non-conductive, non-metallic properties. It also provides an excellent base for other materials such as paint, plastic or rubber. Phosphate provides corrosion resistance and is an excellent subsurface for drawing compounds, lubricants and sealants. Phosphate is generally specified by coating weight, rather than thickness, and provides an excellent surface for oil absorption. For added corrosion resistance or additional lubricity, post coatings such as seals, waxes or lacquer can also be applied to phosphate. Phosphate also reduces break-in wear on adjacent moving surfaces, improves torque-tension relationships and provides anti-galling and lubrication during cold forming processes such as deep-draw extrusions.



Whether your objective is cosmetic appearance, corrosion resistance or functionality it can be achieved by:

- Anodizing
- Bright dipping
- Bright nickel chrome
- Chromate conversion
- E-coating
- Electroless plating
- Electroplating
- Electropolishing
- Gold plating
- Hard Chrome
- Liquid top coating
- Nickel plating
- Phosphate coating
- Polymer coating
- Powder coating
- Silver plating
- Tin plating
- Zinc and zinc alloys

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