ANODIZING LINES

We are a world leader in the design and assembly of anodizing equipment for precision applications. Our anodizing equipment is used for these processes:

- Type I: Chromic Acid
- Type II: Sulfuric Acid (SAA)
- Type III: Hard Coat (HCA)
- Phosphoric Acid (PAA)
- Boric & Sulfuric Acid (BSAA)
- Thin Film Sulfuric Acid (TFSAA)
- Titanium Anodizing
- Sealing
- Bright Dip
- Dye
- Conversion Coat/Alodine

The anodizing processes use controlled electrolytic oxidation to develop a tenacious aluminum oxide coating on the surface of an aluminum sheet or component. Anodizing becomes integral to the substrate - it forms by a protective layer “growing down” into the metal.

Anodizing substantially increases resistance to corrosion, scratching and wear, provides insulation, maintains high reflectivity, and enhances appearance.

Anodizing can be used alone and can achieve a variety of color and texture effects through dyeing, electrocolor or interference color.

Our surface finishing equipment is used for these processes:

- All Plating Technologies
- Plating on Plastics
- Phosphate Coating
- Anodize
- Alodine
- Autophoretic
- Electrocoat
- Electropolishing
- Electroless Nickel
- Dye Penetrant Inspection

PriceWalgren has the people, the capacity, and the technical expertise to design, build and commission the finishing line that is best suited for your products, your throughput, and your facility. Our process, from concept to system through on-time commissioning, has evolved over more than a half-century, and has produced world class finishing lines for some of the world’s best-known companies.
PRODUCTS & SERVICES

Hoist Structures
Typical structures are fabricated using heavy wall steel tubing and I-beams. The selected steel is used primarily for its superior strength in torsion, impact damage resistance, and overall aesthetic value. Whether a rail-rider, side arm or gantry hoist, we recommend running on top with friction-type polyurethane wheels. The hoist is quiet and gives performance required for high production applications.

Transfer Shuttles
The PriceWalgren shuttle design is similar to the hoist systems, as they are top-running on stand-alone structures. We can use double- or single-wide shuttles, based upon the control system criteria.

Load / Unload stations
We offer an exceptional ergonomic load and unload station system. The stations are activated to raise and lower, are simple and trouble-free, and use multiple stations that access one common power unit to reduce system costs.

Drying Systems
We have developed a drying system through many years of research and development, and currently offer two different methods. One uses multiple air knives in a vertical position, and dependent on the product size, it indexes the knives back and forth across the part. Another newly used method is a dehumidifying system that can be used in both rack and barrel applications. Our team also utilizes traditional gas, electric and steam for forced air dryers.

Cleaning Systems
We work with aerospace, automotive, industrial and military facilities worldwide to provide turnkey systems for cleaning, coating and chemical processing.

Training
PriceWalgren provides technical training for equipment operators and maintenance personnel. Training is available in a classroom setting at our location in Caledonia, MI or at the customer’s location.

Installation Services
We provide installation services worldwide. Installation is done by established, professional crews who are experienced with our equipment and controls, and who adhere to strict quality and procedural guidelines.

PriceWalgren provides a full range of service options to meet your facility’s requirements, from emergency service, overall project management, and training. Our mission is to support your system throughout its service life, and to maximize the productive uptime of every component.

Project Management
We offer practical alternatives for project management in conjunction with our partner firms and assume single-source responsibility for all phases of the work.

THE PRICEWALGREN PROCESS

PHASE 1
TIME & RESOURCES
The PriceWalgren Process begins with our investment in time and resources to understand each customer’s specific products, facility, working culture, and priorities. We work closely with the customer to outline the applicable process steps, line layout, material handling requirements within the line, sizing, controls, and environmental issues.

PHASE 4
PRE-PRODUCTION DRAWING PACKAGE
We generate a pre-production drawing package, including line layout, elevation view, roof openings, concrete requirements, utility tie points, and P&ID drawings. The package is provided to the customer for comments and approval.

PHASE 2
EQUIPMENT SELECTION
Equipment is selected and sized, and a quotation is produced. Customer comments lead to refinement and clarification of various proposal elements before final approval.

PHASE 5
INSTALLATION
Installation begins after manufactured items are complete and the facility is ready. Depending on the project size, equipment may ship to the job site all at once or in stages.

PHASE 3
ENGINEERING & DESIGN
Engineers and designers collaborate on system design and specify many components. All drawings are subject to an extensive internal checking process prior to their release to manufacturing to assure ISO and NADCAP compliance.

PHASE 6
COMMISSIONING, TRAINING & PREVENTATIVE MAINTENANCE
Our control engineers and installation management test all system components and document all pertinent settings. Material handling equipment is cycled and inspected for anomalies. Once the system is commissioned, operators receive classroom and “hands on” training.

Preventative maintenance contracts are available for short- or long-term.