Universal Automation Systems, Inc. provides you with advanced technical solutions for surface treatment, wet processing, and a variety of material handling applications. We are committed to providing our customers with the most reliable, flexible, and cost-efficient methods for their finishing and surface treatment applications. Using today’s advanced technologies, we can develop customer-tailored solutions to meet your finishing equipment needs. From fully automated systems to simple conversion packages, we can supply what you need to meet your customers’ demands.

We utilize the best available technology and experience to provide our customers with turn-key modular solutions that address the specific layout, sizing, bath chemistry, and process control requirements. We have manufactured, installed, modified, and relocated a wide variety of finishing equipment. We manage projects from beginning to end: from concept to engineering, fabrication, installation, and service. Contact us to see how Universal Automation Systems, Inc. can provide you with solutions for your surface treatment, wet processing, and material handling needs.
High efficiency in-line process dryers are designed to remove liquids from bulk processed parts in automated barrel, rack, and basket systems.

In-line Dryer Features and Options:
- Single & multi-cell
- Gas, hot water, steam and electric heating
- Automated doors
- Rotation & oscillation
- Air knife
- Pulse mode

Other Drying Integration Methods:
- High-capacity bulk parts dryer drums
- Centrifugal dryers
- Hydrogen relief embrittlement bake ovens

Automated & Manual Load/Unload Systems
Automated load/unload systems reduce material handling and each system is engineered to suit your processing needs.

Turn-key Automated Wet-Dip Process Systems including:
- Copper
- Chromate
- Autophoretic
- Phosphate
- E-Coat
- Zinc Plating
- Silver
- Gold
- Tin
- Black Oxide
- Chrome Plating
- POP (Plating on Plastics)
FABRICATION TO COMPLETE INSTALLATION

We then take these concepts from engineering through fabrication and installation to complete automated turn-key systems.

Automated Metal Finishing Systems

Using today’s technologies, we can meet and supply all of your finishing equipment needs. We can speed up the installation process by supplying complete system modules, tank modules, and equipment packages.

Process Driven Hoist Applications

Overhead Hoists:
Typically provided in high capacity process from 500-15,000 pounds. These hoists require a heavy duty overhead track and frame structure.

Rim-Runner Hoists:
High capacity for low headroom & confined floor space requirements. Volume capacity is 500-15,000 pounds.

Side-Arms Hoists:
Typically provided to process lighter amounts up to 800 pounds.

Features and Options:
- Inverter-rated gear motors
- Bumper safety guards
- Adjustable lift arms
- Lifting belt webbing
- Ultrasonic collision prevention
- Up-rotation for barrels & baskets
- Wireless operator remotes

Additional Automated Metal Finishing Systems including:
- Hard Chrome
- Zinc & Zinc Alloys
- Passivate
- Electro-less Nickel
- Electrolytic Nickel
- Anodize
- Brass
- Bronze
- Cleaning
- Etch & Penetrant
- Cadmium
- Pickle & Lube
From simple conversion packages to fully automated systems, we can supply what you need to meet your customers’ demands.

Automation & Control Systems

Complete Automated Control System Engineering, Fabrication:
- Custom HMI (Human machine interface)
- Integrated recipe management tools
- Advanced 3D diagnostics and system overviews
- Integrated cycle creation tools
- Real-time and historical trending
- Ancillary equipment integration

Recipe Schedule

System Overview

Temperature Control

Chemical Feed

Control Panel

Level Trends/Alarm

Advanced Diagnostics

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