

Technic Hoist Systems

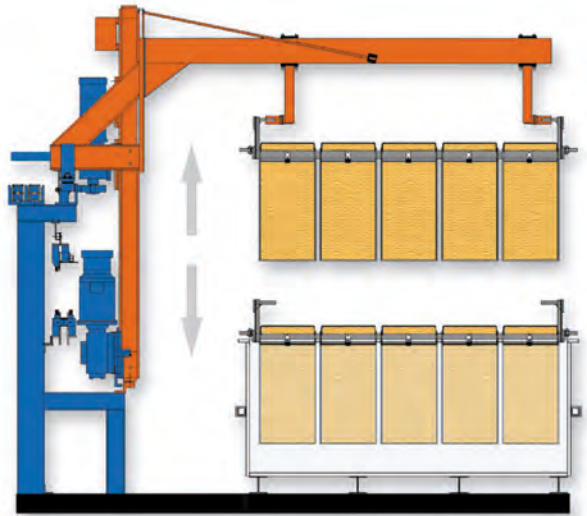
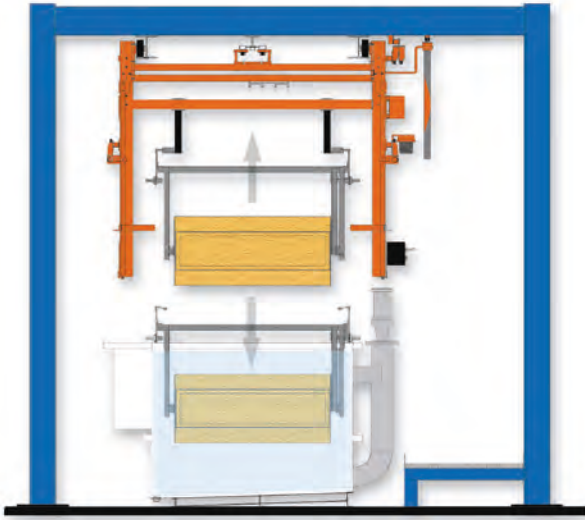
Overhead

Side Arm

Rim Runner

Controls, Retrofits, Upgrades





Overhead Hoists

Designed for plating tanks with long front-to-back dimensions and using either barrel, basket or rack assemblies, these hoists are typically capable of handling loads of up to 4,000 pounds. Larger scale systems can be constructed upon request. Equipped with variable speed AC motors and positive rack/gear drive operation, these systems provide smooth, reliable acceleration and deceleration throughout the line. Utilizing an absolute rotary encoder positioning system, Overhead Hoists are available with either in-board or out-board leg configurations.

Overhead Hoist Series Features

Drive System – Rack and Gear

Traverse Speed – 200+ fpm

Lift Mechanism – Chain & Sprocket or Polypropylene Belt

Product Array – Rack, Barrel, Magazine, or Basket.

Fully Automatic or Semi-Automatic Transports available.

Specifications

Lift Capacity – Typically up to 4,000 lbs.

(Larger lift capacities available)

Sidearm Hoists (MAC Series)

Technic's MAC Series hoists are designed so that throughout the process, only the work boom travels over the tanks, greatly reducing the potential of bath contamination. Sidearm hoists feature rack/gear drive for greater control, dependability and smooth movement. MAC Series vertical transports utilize a roller chain and sprocket operation. The affordable, compact design and easy to maintain superstructure in this series makes it an ideal choice for retrofits and upgrades to existing lines.

Sidearm Hoist Series Features

Drive System – Rack and Gear

Traverse Speed – 200+ fpm

Lift Mechanism – Chain and Sprocket

Product Array – Rack, Barrel, Magazine and Basket.

Fully Automatic or Semi-Automatic Transports available.

Specifications

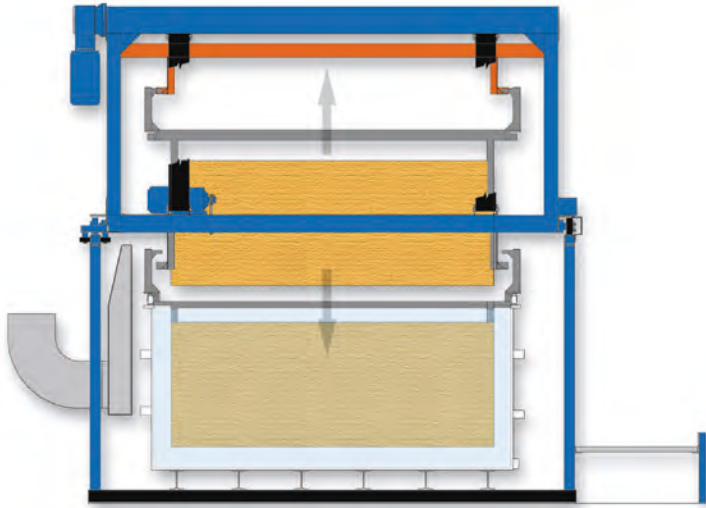
MAC 250 – Lift Capacity up to 250 lbs.

MAC 500 – Lift Capacity up to 500 lbs.

MAC 750 – Lift Capacity up to 750 lbs.

MAC 1000 – Lift Capacity up to 1,000 lbs.





Hoist System Ventilation Options

Technic offers a variety of ventilation options providing the best solution for each hoist and application. Combinations of ventilation approaches are available to significantly reduce and remove fumes from the processing area. Consideration is given to system effectiveness as well as operating costs. Conventional and custom ventilation is fully integrated into each system for maximum effect and reliability.

Ventilation options include:

- Fully enclosed systems for complete process containment
- Enclosed hoist structure envelopes
- Push/Pull over-tank ventilation
- Conventional updraft rear mounted exhaust
- Lateral Pull hoods for maximum fume capture on tanks over 36" front to back.

Rim Runner Hoists

Designed for light to heavy-duty operation, Technic Rim Runner hoists are available as manual, semiautomatic and fully automatic systems. Single or multiple hoists ride along the system's integral frame, which is constructed along the tank edges. This streamlined approach eliminates the need for hoist superstructures and structural bracing.

Rim Runner Hoist Series Features

Drive System – Friction

Traverse Speed – 200+ fpm

Lift Mechanism – Polypropylene Belt

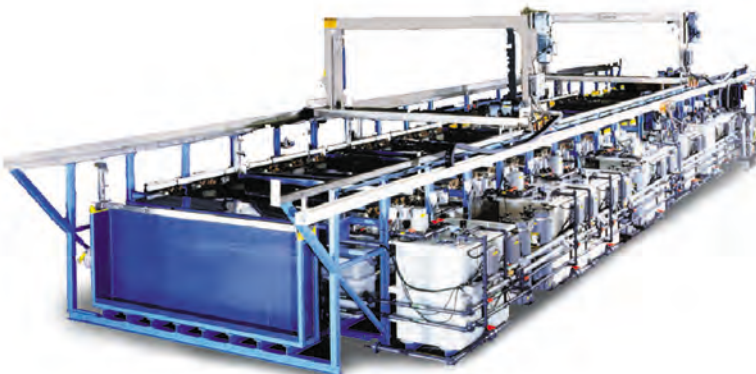
Product Array – Rack, Barrel, Basket and Magazine

Fully Automatic or Semi-Automatic Transports available.

Specifications

Lift Capacity – up to 4,000 lbs.

(Larger lift capacities available)



Technic System Construction

Engineered and manufactured in the United States, Technic systems are custom designed for your specific application. Each hoist system is fully tested for all major functions prior to shipping. Final phase testing, debugging and customer review of primary functions are standard with all Technic Hoist Systems. Modular construction, including pre-wired and pre-plumbed connections, assure easy transport, quick assembly and fast start-ups.



Parts, Supplies, Service and Retrofits

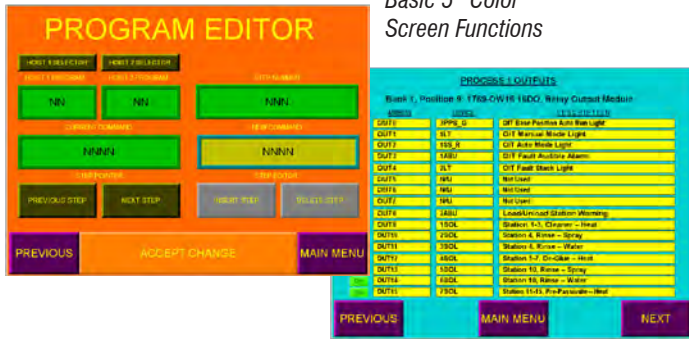
Technic, a leading supplier of plating equipment and supplies for over 50 years, provides its customers with a full range of spare parts, supplies and service for all Technic, and former Baker Bros. Systems. Technic also offers parts, service, retrofits and upgrades for most other lines. For a full listing of Technic supplies, contact your local Technic Sales Office.

Chemistry

As a leading supplier of process chemistry, Technic offers unparalleled service and technical support to all our customers. Technic employs over thirty chemists, including several PhDs, working in the areas of customer service, QC, and ongoing product research, developing new products and helping customers satisfy their plating and metal finishing requirements. Technic is the only U.S. manufacturer in the plating industry that can offer its customers a single source for chemistry, equipment and supplies.

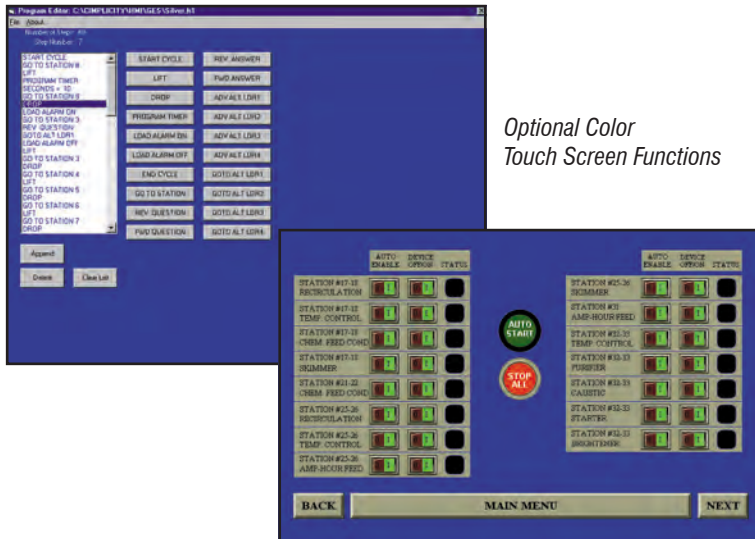
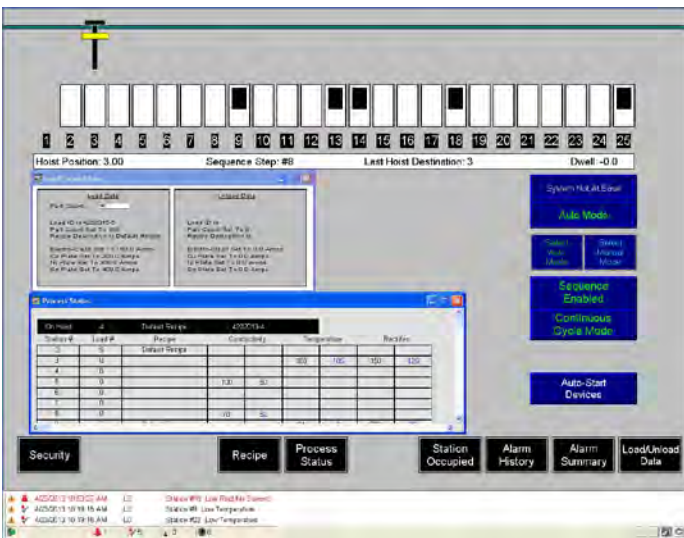
Hoist Controls

Technic Hoist Systems controls range from simple manual joystick operation to complex operator workstations with reservation based scheduling algorithms. Technic's Automation Engineering Staff work closely with each customer develop the right controls and programming for your specific equipment and operation.



Basic 5" Color Screen Functions

Color Hoist Position and Station ID Screen



Optional Color Touch Screen Functions

Manual Hoist Controls

For simple manual joystick control of the lift, drop and travel, Technic utilizes motor starters and drives.

Automated Hoist Controls (Basic)

Technic's basic automated hoist system utilizes a PanelView™ Plus 700 Graphic Terminal featuring a 6.5 in. flat-panel color display with a 640 x 480 resolution touch screen. The Allen-Bradley Logix Processor controls the hoist motion and process equipment. The Processor is programmed using RSLogix 5000 design and configuration software. RSLogix 5000 offers an easy-to-use IEC61131-3 compliant interface. The load follows a fixed time-way recipe through a series of travel, lift and drop commands. The time-way is a fixed sequence of moves that carries a flight bar through the process stations.

Features:

- Optimized hoist positioning system providing high speed movement and smooth, accurate final positioning.
- Single or multiple hoist control.
- Automatic, semi-automatic and manual/jog modes.
- Time-way control.
- Allen-Bradley Logix Processor
- Online service via customers Internet connection

Automated Hoist Controls (Advanced)

15" color touch screen (or larger) featuring FactoryTalk View® Site Edition (SE) running on a Windows 7 64bit platform.

Data Logging: Data is collected and stored in relational database format where it may be accessed to generate reports utilizing standard conventional software such as Microsoft Excel to reference and manipulate the data.

Data reports and process scheduling:

- Statistical Process Control - Analyze data to improve product and process quality. (Optional)
- Networking Capability - Retrieve information from the process to an offline database for independent analysis and reporting functions.
- MPS (Multiple Process Scheduling) - This eliminates the need to write time-ways. MPS is designed to meet just in time production by permitting the customer to randomly mix process cycles.



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