

# MP300

## Continuous Loose Parts Automated Plating Equipment



### Single-Part Conveyor Plating Systems

Technic's **MP300** is designed to replace conventional rack and barrel plating systems. This technology continuously conveys parts through cleaning, plating, and rinsing stations, exposing them to identical processing conditions at a fixed line speed.

The MP300 is suitable for a variety of applications such as bright, black, and satin nickel; gold; alkaline zinc; bright acid as well as cyanide copper; tin and tin-lead alloys; chrome and chrome alternatives.

This system delivers on lean manufacturing initiatives by reducing turnaround time by as much as 80%.

Thanks to its patented single-piece flow automation, the MP300 minimizes labor requirements, consumables, and utility costs, while providing high-quality, repeatable performance.

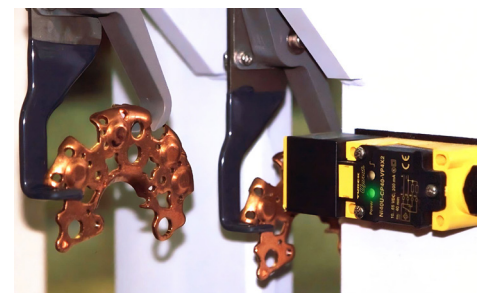


### Benefits

- Minimizes consumables and utility costs
- Produces higher yields
- Requires shorter cycle times
- Reduces plating chemistry and metal consumption by up to 40%
- Lower water and waste treatment costs
- Reduces turnaround time by as much as 80%
- Greater part-to-part plating uniformity with superior distribution

### Features

- Direct utility access for easy system maintenance
- Continuous multi-process tracking with easy program controls
- Rackless operation reduces water consumption and dragout from racks
- Enclosed tank design minimizes heat loss and requires shorter heat-up time
- Modular construction for fast on-site assembly and changeovers
- 50% less floor space required vs conventional systems
- Labor-saving automations with minimal staffing requirements
- Fully enclosed processing requiring minimal ventilation
- Offers a variety of automated loading and unloading systems
- Custom clip design to accommodate automation of a variety of parts



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## MP300 vs Conventional Line Return on Investment Case Study

A Technic customer was looking for alternatives for the future expansion of their plating operation.

Their objective was to approximately double capacity of bright nickel over copper on zinc die cast and brass base metal components. They needed the new system to be flexible, due to the large variety of components and different lot sizes.

Options included:

- Expand the existing rack line
- Purchase a new rack line
- Choose an alternative system that could improve process yields, reduce cycle time and manufacturing costs



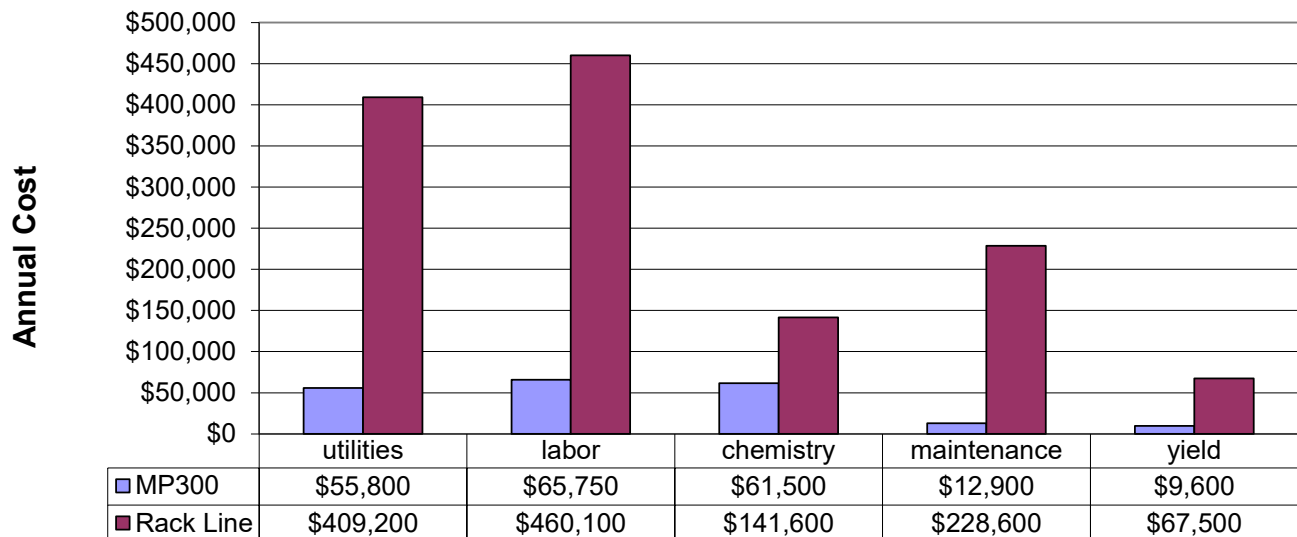
After evaluating all options, the customer decided to install Technic's MP300.

This decision was based on extensive testing and research, as well as the expectation that this system's continuous approach would yield improvements in operating costs, as well as reductions in labor and floor space.

After approximately 18 months of operation, the customer performed an audit of the comparative operating costs of the pre-existing rack line versus the MP300 over the previous 12 months.

The summary findings indicate significant cost savings and rapid payback thanks to the implementation of the MP300.

### MP300 vs Rack Line Cost Comparison



The chart summarizes the cost comparison data from the case study.

A detailed report is available on request.