

## Apex 100 Series Anodizing System

The Apex 100 is a complete hand-carry anodizing line in a compact footprint. The Apex 100 is two compartmentalized sections that together provide full anodizing process capabilities. A stainless-steel frame allows for secure alignment and ease of installation. The Apex 100 System is upgradeable to include a manual trolley or automated hoist. Waste treatment is managed with the Moonstone System by Kontek, Inc.

This entry-level system is designed for small-level production capability for machine shops and OEM manufacturers interested in bringing anodizing in-house. This is a production-ready line designed and built for both Type II sulfuric acid and Type III hard anodizing processes. Specific anodizing cycles may be developed and optimized for specific alloys and customer requirements. The Apex 100 Series has full agitation, water fill lines, and common drain to waste treatment. This is a highly engineered, well-built compartmentalized tank system exhibiting quality workmanship for years of service.

### Application:

Type II Conventional Sulfuric .4 to .7 mil coating.  
Type III Hard Anodize Sulfuric 1.0-2.0 Mil

### End Users

- Machine Shops
- Small Volume Production
- OEM Manufacturer
- Custom Processes

### Markets

- Decorative
- Wear
- Protection
- Aesthetics

### Technical Specifications

The Apex 100 Series equipment comes fully assembled. All controls are mounted to process tanks for ease of operation. The rectifier is a high efficiency 100 amp and 40-volt machine rated for continuous duty. The system-matched chiller is specified to maintain a constant anodizing temperature for the process selected. Filtration is included. Each module has an integrated containment pan. The footprint for the two-module Apex 100 system is 26 feet. All tank dimensions are 24" x 24" x 24". The part work window is 14" by 16"

**Module 1:** Pretreatment - 6 poly tanks 24" x 24" x 24", two heaters, agitation, water, drain.  
Tank Set - Alkaline Cleaner, Rinse, Etch, Rinse, Deox, Rinse.



**Module 2:** Anodize and Post-treatment – 6 tanks (5 polypro, 1 SS) 24" x 24" x 24" deep, two heaters, agitation, water, drain.  
Tank Set - Anodize, Rinse, Dye, Rinse, Seal, Rinse.

### Equipment

APP 100A/40V air-cooled switch-mode rectifier with remote controller and adjustable ramp.

Cooling from a glycol chiller with pump, acid pump, and titanium heat exchanger.

Ventilation boxes integrated into the console and ready for exhaust connection.

Fully wired, plumbed, and assembled for testing prior to shipment.

Moonstone by Kontek 100-gallon batch waste treatment system.

### Upgrade Options:

- Additional anodize station
- Additional dye stations
- Motorized trolley hoist
- Automated hoist