

Spouted Bed Electrode - SBE®

Exclusive Plating Technology for Electronic Finishing



TECHNIC

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Cost-Efficient, High-Quality Electronic Component Finishing

Technic's **Spouted Bed Electrode Plater - SBE®** is a proprietary method of electroplating small components such as electronic connectors, discs, pins as well as varistors, SMT chip capacitors, and resistors. The SBE performs with greater efficiency and higher precision than any other processing technology on the market today.

The SBE's unique processing system offers several advantages over barrel and vibratory applications. Our SBE chamber provides for load sizes from 50 to 500 MLS and requires significantly less conductive media when plating SMT components. Manufacturers report improved uniformity throughout plated parts and significantly reduced instances of twinning, coupling, or clumping.

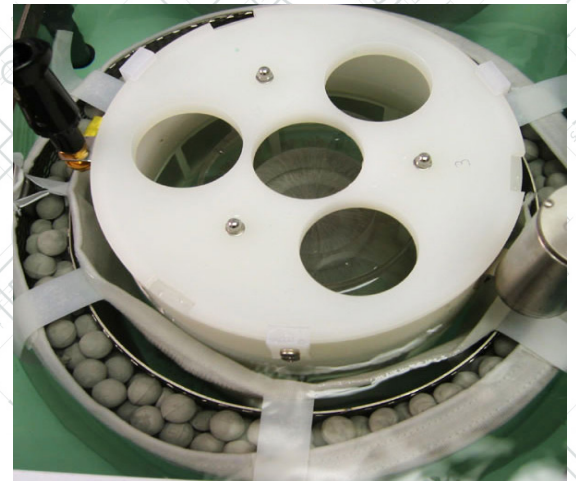
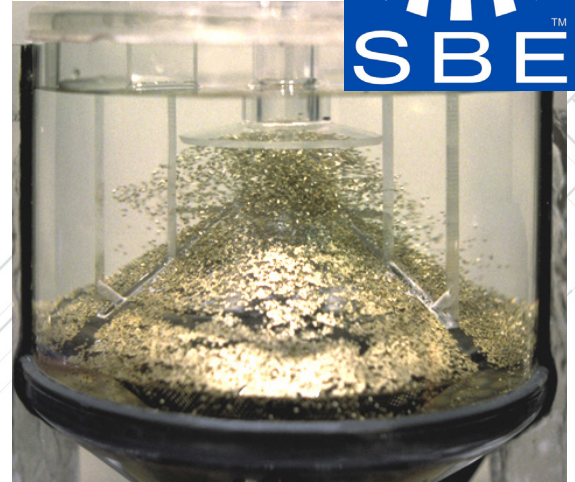
Since its introduction, over 100 manual and automatic SBE modules with Technic's proprietary chemistry are currently running at major manufacturing facilities throughout North America, Europe, and Asia.

Benefits

- Excellent part-to-part plating uniformity
- Reduces or eliminates clustering and coupling
- Requires less conductive media when plating SMT
- Lower operation and materials costs
- Increased production speeds
- Reduced part loss or damage
- Greater load size flexibility

Features

- Modular design
- Variety of chambers head configurations available
- Precision amp hr./min. timing with rectifier interlock
- Corrosion resistant polypropylene construction
- Conforming anodes/baskets
- Adjustable plating flow sensor/meter
- No moving parts



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Ecological and Economical

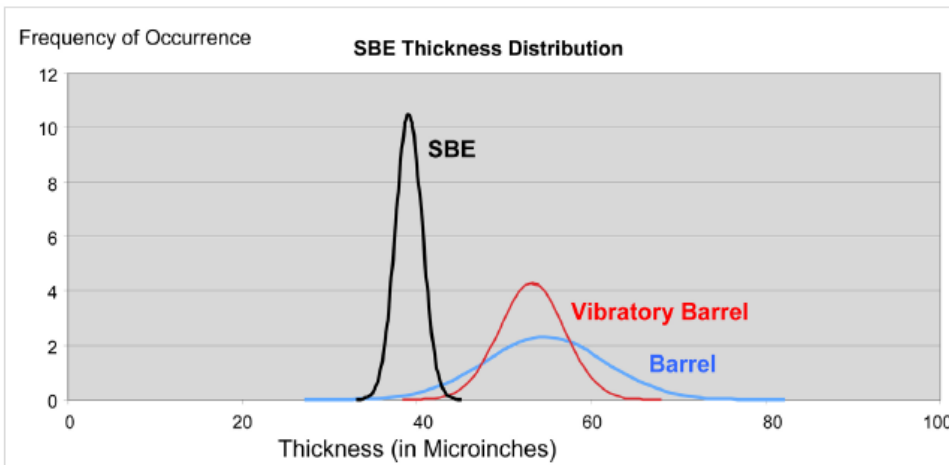
The SBE's superior metal distribution allows manufacturers to reach the required thickness faster, reducing the amount of metal consumption and energy needed. The unique plating method of the SBE provides extremely efficient rinsing, saving time and significantly reducing drag-out. This provides longer bath life savings that lead to both operational cost savings and environmental benefits in terms of wastewater treatment.

Dependable

By using an electrolyte jet stream to circulate the load, the design of the plating chamber features no moving parts. The result is a simple dependable system constructed of durable materials with minimal maintenance requirements.

Flexibility

SBE Plating expands your current production capabilities with more uniform plating, greater load size flexibility, and the ability to plate without media in some cases. In addition to a manual, standalone system, SBE technology can be implemented into a manual or fully automated line accommodating SBE chambers, Barrels, and Vibratory units.



SBE plating produces a significantly tighter thickness distribution ($\pm 5 \mu\text{in}$ from target), compared to vibratory barrel ($\pm 12 \mu\text{in}$) and conventional barrel ($\pm 28 \mu\text{in}$). This level of control improves thickness uniformity, reducing costs and potential rework.

SBE1-6 model consists of two plating tanks (one nickel, one tin), with a two-station rinse after each process. The unit is constructed from polypropylene, mounted to a stainless steel base. The SBE comes complete with pumps, filters, rectifiers, piping and exhaust outlet and is equipped with two SBE chambers.



SBE 2-6 model (Shown with optional load and provides double the production capability, by supplying a second row of stations in each tank. This model comes with four SBE chambers.