POWERFUL WATER-BASE SYSTEMS

AUTOMATIC ULTRASONIC WASHERS

- We move the liquids - NOT the parts!

Automated processes of Clean/Rinse/Dry without the use of any robotics and generally utilizing less floor space.

Automatic Ultrasonic Washers are PLC controlled, single push button activated cleaners designed to ultrasonically clean, ultrasonically rinse and hot air dry according to a preprogrammed cycle within a single chamber. Utilized in the following applications: Medical Device Manufacturing, Optics, Pharmaceuticals, Aerospace, Jewelry, Screw Machine, Carbides, Electronics, Hospitals, U.S. Naval vessels . . . This equipment provides an excellent alternative to multi-bath aqueous cleaning arrangements.

MULTI-CHAMBERED CLEANING SYSTEMS

Self-contained, multi-tank ultrasonic cleaning systems with all stainless steel construction designed to ultrasonically clean, ultrasonically rinse and hot air dry in a compact design that is excellent for cellular manufacturing processes. These systems can be tailored to meet your specific needs. Counter flow rinses, pump filtration, spraying, dipping, temperature control, tumbling and more are all available in these versatile systems.

TABLETOP UNITS

Esma offers a full line of single tank tabletop ultrasonic cleaners featuring powerful squarewave ultrasonic technology and all stainless steel construction. They come standard with 15-minute timers and ball valve drains. Heated baths with a variety of control options are available on all our units. Tabletop equipment is also available as cascading ultrasonic rinse tanks, hot air drying tanks or made to accommodate a pump filter system. Esma will also design and manufacture custom build equipment to meet your specific cleaning requirements, including the addition of tumbling into the ultrasonic bath.

ELECTROPOLISHING

Esma electropolishers are used to polish and deburr small, precision machined, stainless steel and chrome cobalt items in seconds. This equipment is constructed of stainless steel with cathodes and holding assemblies made from noncorroding alloys. The polishing solution temperature is automatically controlled by a heater/cooling fan combination, which in conjunction with precision timing and voltage control provide a high luster and reproducible results while maintaining a long solution life.

TUMBLING

When tumbling is incorporated into an ultrasonic cleaner the results are dramatic. This method of cleaning effectively removes chips, oils, fines and debris from parts with blind holes. Tumbling frees trapped air from a part's internal bores and allows ultrasonics to penetrate. Tumbling breaks up small parts that cluster together to form a dense mass and moves the parts uniformly through the nodes of intense energy that occur naturally in an ultrasonic tank. Within a programmed cycle, tumbling releases trapped liquids from parts facilitating quicker, more efficient drying.

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