

CASE STUDY

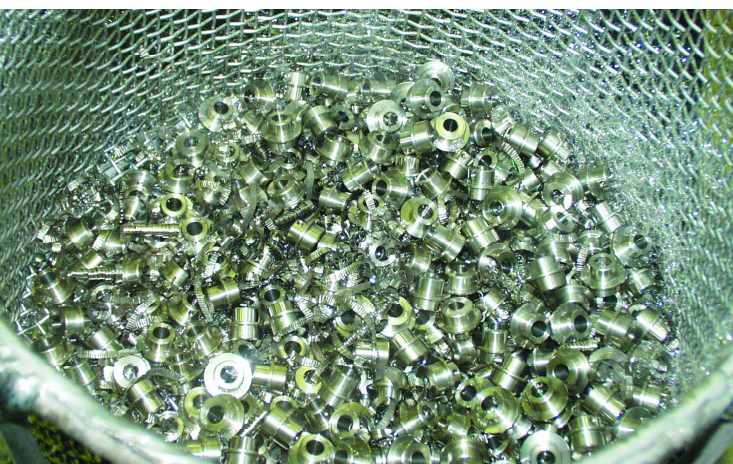
Increasing Parts Cleaning Capacity by 300 Percent

Omega Pro® ultrasonic parts washing system helps Renco Encoders operate at optimum levels.

Maintaining efficient machine shop and parts finishing production is dependent on many factors. Even when operating at near optimum levels, throughput can be slowed by inefficient parts washing systems and procedures. This was the case at Renco Encoders.

Prior to installing the Omega Pro parts washing system manufactured by Omegasonics (Simi Valley, CA), Renco was using a hand-washing procedure to pre-clean the components before bathing them in their small capacity, ultrasonic table-top unit. Renco's spokesman added, "We couldn't even apply heat so more hand labor was required to blow the parts dry with a pressurized air gun."

At Renco, non-toxic ultrasonic cleaning bubbles and the unique cavitation phenomena they create seek out and remove grease and unwanted particles from encoder components. This unique cleaning action infiltrates the smallest crevices and hard-to-reach surfaces, penetrating areas normally inaccessible to other cleaning methods.



Parts Washer

ChemFree's (Norcross, GA) patented SmartWasher is an aqueous-based, bioremediating parts washer. The SmartWasher is a rugged machine which uses bioremediation, specialized mats, and a highly effective aqueous-based degreasing fluid (OzzyJuice) to clean dirty parts. Unlike traditional parts cleaners, the SmartWasher doesn't use harsh chemicals to scrub away greasy residue. The SmartWasher eliminates the need to contract with hazardous waste removal agencies, alleviating "cradle to grave" liability. The VOC-free OzzyJuice is pH-neutral, protecting the health and well-being of your employees and, your maintenance facility reduces operating costs by not having to haul away hazardous by-products.



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Perfect cleaning ...anywhere

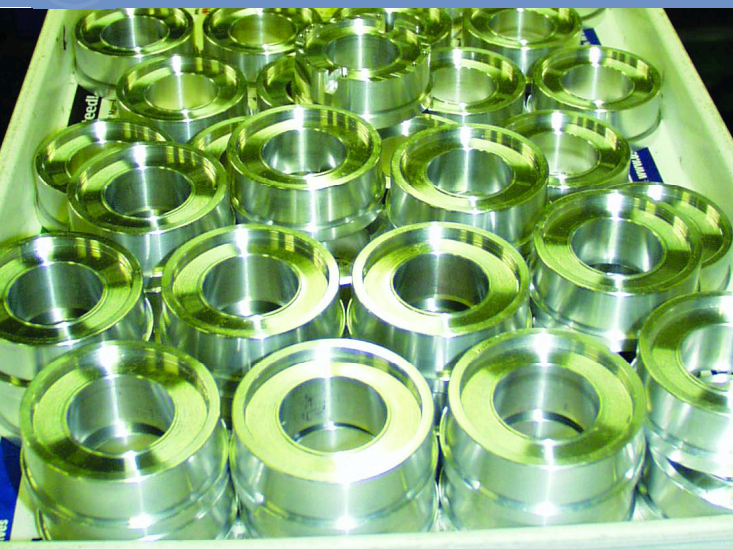
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Ultrasonically cleaned encoder bases waiting for inspection.

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In addition to the costly and time-consuming hand operations, the inefficient ultrasonic table-top unit could only hold a small quantity of parts. As a result, each batch of newly minted parts had to be divided and washed in several small batches with frequent solvent changes. Renco pointed out, "More than just inefficient, the solvent was costly to use and costly to store and dispose of. We had to hire an outside service to pick it up and take it away."

Good to the Last Drop

"The non-toxic, enzyme-based cleaning solution we now use is long lasting and cost effective. We also like the way it smells. Even in our heavy-use application, OmegaZyme maintains its cleaning power for about three months," Renco added, "After such a long period of use, the solution actually has a second life. When we are ready to change the bath solution, we crank up the heat in the tank and use the Omega Pro to do the scheduled maintenance on our tooling equipment. We clean all the screens and filters from the CNCs and other cutting machines. Finally, we use the old solution to mop the floor and let it dry itself out. Aside from changing the bath, the system has not required any maintenance other than a wipe down at the end of the day. Basically it has been a reliable workhorse for our company. We are very happy with it being here."

Eliminating Labor Intensive Procedures and Toxic Chemicals

Safety concerns about the use of toxic solvents is rapidly becoming a significant problem to companies like Renco. Many states, California among them, are beginning to outlaw their use. "Since we installed the Omega Pro system about a year and a half ago, we're actually cleaning a lot faster," Smiling with satisfaction, Renco's spokesman quickly pointed out, "that's why our cleaning output has tripled. With the Omega Pro, the entire process is safer and environmentally friendly." **PCM**

For more information contact **Frank Pedeflous** of **Omegasonics** at (805) 583-0875.

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Catalog

SERFILCO, Ltd. (Northbrook, IL), supplier to the electronic metal finishing industry, has changed direction through the introduction of a revised catalog promoting products which are pertinent to environmental tasks, involving aqueous solutions which can no longer be disposed of as ordinary waste.

It features a wide range of pumps, filtration equipment, filter media, instrumentation and control devices, along with helpful guides for selecting and installing pumps, pre-designed and automatic filtration systems. Get your copy today.

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