



Zenith Ultrasonics

Waves at Work

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SSW-132 Ultrasonic Wire Washing System

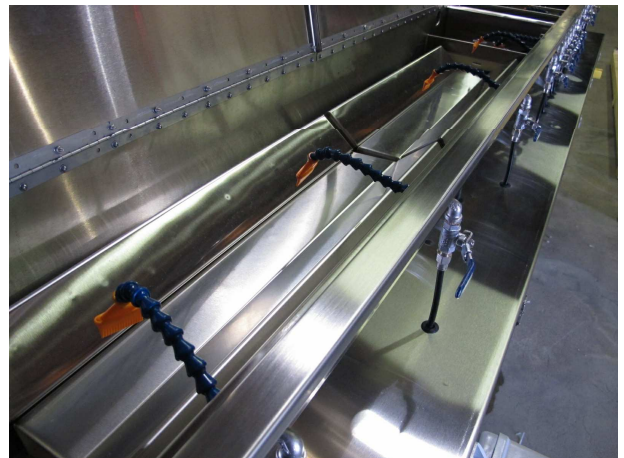
For cleaning continuous lengths of wire or profiled wire materials

For applications which require the cleaning of continuous lengths of round or profiled wire materials at speeds higher than can be addressed in the SSW-960, Zenith Ultrasonics introduces the SSW-132 Ultrasonic Wire Cleaning System. Designed specifically for the cleaning of such products, the SSW-132 removes drawing lubricants, oils, and other contaminants associated with the drawing and shaping process which cannot be matched by spray cleaning systems of any kind.



Features include:

- **No Pulleys or Wire Redirection:** The SSW-132 allows wire to be cleaned in a horizontal path without re-direction of the material around pulleys or other hardware.
- **Safe & Low-cost Cleaning Fluids:** Low-cost biodegradable aqueous cleaning fluids that are used in this system at low concentrations are capable of removing dry stearate or liquid drawing or forming lubricants at high speeds.
- **Easy Waste Disposal:** Waste materials can be disposed of using an optional Wastewater Evaporator in most locations.
- **Filtration and Oil Skimming:** Cleaning agents are continuously filtered to increase bath life, and oil skimmers in both the cleaning and rinsing baths remove any floating oils from the process.
- **Specialized Plumbing Design:** The plumbing is specifically designed to eliminate the possibility of floating oils which are removed from the strip from redepositing onto the product being cleaned.
- **All Stainless Steel Construction** for superior corrosion resistance in industrial environments.
- **Wear coatings on ultrasonic emitters** to allow 24/7 use for many years.



The SSW-132 is positioned at the exit side of the drawing equipment. wire is fed through the system using existing pay-out and take-up equipment. If such equipment does not exist, Zenith can provide it as well.



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The wire first enters the Ultrasonic Cleaning Reactor, where it is bombarded with Zenith's patented CROSSFIRE Multiple Frequency Ultrasonic System where contaminants are removed. The included adjustable Spray Assemblies simultaneously sprays the wire with heated detergent to enhance the cleaning operation. Spray assemblies are all pressure adjustable, and can be used on the most sensitive wire material.



After exiting the ultrasonic cleaning reactor, air knives gently remove over 90% of the detergent from the wire to prevent the detergent from entering the rinsewater. This allows the optional deionization resins, used to keep the rinsewater pure, to last significantly longer.

The wire then enters the Ultrasonic Rinse Reactor, where all remaining detergents are removed ultrasonically. User-adjustable spray assemblies are included to enhance the rinsing action.

After exiting the rinse reactor, the excess water is removed with compressed air knives before the wire enters the Drying Chamber. The Drying Chamber includes a custom-manufactured Air wire Wipe to remove all water residue from the material. The wire exits the SSW-132 cleaned, rinsed, and dried.

The SSW-132 includes all of the equipment necessary to support the wire cleaning operation, and several options can be added to enhance the operation. Heating systems are included to keep cleaning and rinsing fluids at required temperatures, and are controlled with digital temperature controllers. A Filter system is included to extend the lifespan of cleaning agents.



Options include a 5-light Signal Tower that keeps operators notified on system conditions, Automatic Fresh Water Make-up Systems to automatically replace water lost by evaporation, Pump Drain Systems, Automatic Rinse Quality Systems, and more.

If you have the need for an in-line wire cleaning system, contact Zenith Ultrasonics to purchase the most advanced wire cleaning system available today.