

Precision Process FSP Reel-to-Reel Strip Cleaning System



Strip Cleaning System Equipment Overview

Precision Process's Reel-to-Reel Strip Cleaning System is a continuous coil-to-coil cleaning tool. Like our other FSP (Flexible Substrate Plating) Systems, it can be configured using many options:

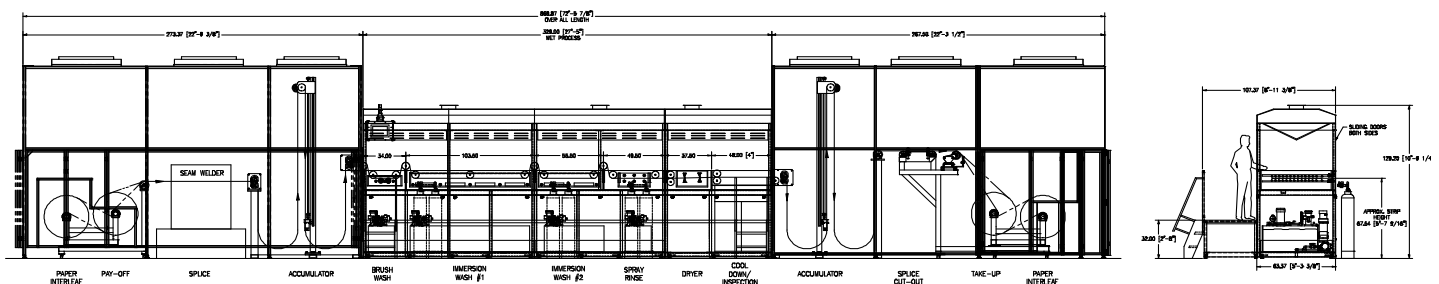
- Brush Cleaning Modules
- High Pressure Spray Wash Modules
- Ultrasonic Cleaning Modules
- Reverse and/or Direct Current Electro Cleaning Modules
- High Efficiency Rinse Modules
- Spot-Free Drying Modules

Systems can be configured to handle strip widths from 25mm to two meters wide at speed up to 100 meters/min. Systems are also available for stamped strips, wire, and tubing applications.

Our in-line continuous strip cleaning system accommodates the use of environmentally safe, aqueous cleaning solutions for cleaning operations that need to remove chips, oils, and coolants from rolled strip material.

Standard machines are offered with wash, rinse, and blow off or dry cycles. Supplementary stations can be added for additional rinsing, rust inhibiting, phosphate, and sealing.

High efficiency "in-tank" maintenance-free pumps are used to spray clean the parts, inside and out, and powerful blow off systems remove excess water. Strip material is passed horizontally through a series of ports and chambers in the system, and connected to a Strip Drive System which pulls the material through allowing for convenient connection to spool take-up equipment on the exit side of the cleaning system.



FSP Strip Cleaning System Module Options

Soak Clean

Allows the removal of soils and scales without the need for expensive, harmful, and highly regulated solvent solutions.

Brush Cleaning

Provides surface cleaning, finishing, and polishing of strips. Deburs edges of tubes and machined parts. Removes rust, oil, and scaling wires during drawing process.

High Pressure Spray Wash

Our custom cleaning systems are built to your specifications - flows up to 240 GPM and pressures up to 10,000 PSI. Fitted with a primary and secondary pressure relief valves for safety.

Ultrasonic Flood Cleaning

Powerful and reliable. An environmentally friendly alternative for the cleaning of continuous materials, The effect of the cavitation generated by the ultrasonic power removes lubrication residues like oil or grease, soaps and stearates.

Direct or Reverse Current Electro Clean

Polarity depends upon the type of metal surface being cleaned and the soil being removed.

Rinsing

The amount of spray (GPM) and operating temperature can effect the operating cost by several dollars per hour.

Drying

Drying systems are available to provide 100% dry parts and for spot-free drying applications. All FSP cleaning systems have design features that allow us to custom tailor the specifications to your requirements.

Sump Design

Uses a sloped bottom for ease of completely draining out the solution and cleaning the tank. Each process cell has an in-line filter and pump.

Controls/PLC/Electronics

Allen Bradley PLC and HMI Software will be used to control all critical parameters of the process line.

Terminal Equipment

Many options available; including fine wire, tubing, stamped strip - up to 5,000 lb. capacity. A paper interleaf and take-away incorporates a particle catch tray.

Exhaust

Ducts run the length of the machine and connect to required process tanks. Exhaust ducts and branches are fabricated from stainless steel, PVC, or other suitable materials. Control gates/dampers have drain ports for condensate.

Code Compliance

Precision Process builds to current OSHA Standards. Our cleaning line will be fabricated to all applicable codes including OSHA, CSA, ANSI and the National Electrical Code.



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