

Advantages of Vertical Wiping Systems

The supplied Vertical Wiping Systems offer the latest in wire wiping technology. Modular concepts permit a mixed production of commercial and heavy coatings to be run simultaneously. Vertical Pad modules, N₂ Wiping modules and even Gas-Gravel modules are quickly interchanged for maximum production flexibility. Operating a field of as many as 50 wires or more can be easily managed from the ergonomically positioned wiping modules.



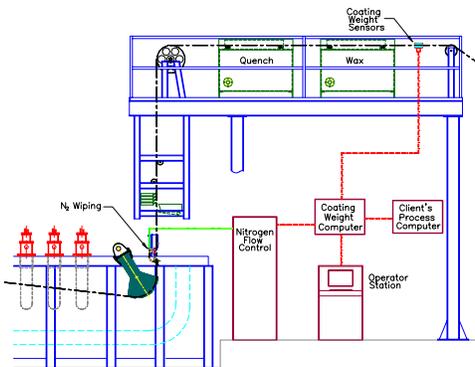
• Nitrogen Module

The N₂ Wiping System is designed for medium and heavy coatings of zinc or Galfan® at a broad range of wire speeds from DV= 80 to over DV= 250. A few years of refinement has produced our latest generation nozzle that applies a smooth, consistent and concentric coating. The low-profile split-nozzle design provides for simple operation and easy wire threading. Nitrogen flow is controlled to each nozzle through manual flow valves and flowmeters. The innovative nozzle holder is adjustable in all three axes for quick alignment with the wire. N₂ Wiping results in superior quality, higher production than gas-gravel wiping and closer control of the coat weight.



• Vertical Pad Module

The Vertical Pad Wiping System applies a smooth bright commercial zinc coating to the wires. As they exit the galvanizer, each wire passes longitudinally between a set of two rectangular pads. Individual screw clamping mechanisms compress the pads together, tightly wiping the wire. The wires exit the back side of the pads directly into quench tubes that cool them to ambient temperature.



Automatic Coating Weight Control System

Using advanced sensors, a computer interface and flow control valves with precision nitrogen wiping nozzles, our system continuously reads and controls the coating weight on each wire. This is a fully automatic, closed loop system, offering accurate zinc, aluminum or Galfan® coating weight control to 615 g/m². Tighter coat weight control results in significant savings on zinc, or Galfan® and a fast payback of the capital expense.

• Rugged Tower Construction

The tower is built of heavy structural steel sections for maximum strength and minimum vibration and includes a staircase providing easy access to the platform.



The tower has several roll sets to steady, support and change the wire direction. The "U" groove rolls of hardened steel are all fabricated to close tolerance and mounted on individual bearings.



• Primary Quench & Air Knife

The primary quench of multiple streams of low impact water (or optional vortex quench) solidifies the zinc on all heavy coated wires. Below the quench a full width air knife prevents water from running down the wires. Stopped wire is positioned away from the water streams by special tabs.



• Quench & Coating Tanks

The corrosion resistant tower tanks are supplied with temperature, flow and level control systems. Centrifugal pumps, piping and valves are used to recirculate the fluids from the tanks to the process trays. The coating (wax) tank is heated by an electric immersion heater while the quench tank is cooled by controlling the water inlet. In the final stage all excess liquid is removed from the wires by our high efficiency air wipe system.



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