

AUTOMATIC HOT DIP GALVANIZING OF SUSPENDED GOODS



The line is designed according to the proven concept that integrates pre-treatment, drying and galvanizing into a fully automatic system. and is especially suitable for hot-dip galvanizing of several identical parts such as components for the auto industry, scaffoldings etc.

There is a freely programmable computer control of the whole process and of every rack as it moves to the various stations. The line has special zinc program where the operator can program each rack with individual parameters such as lowering speed, zinc time, controlled variation of lifting speed along the whole travel and start / stop of vibration during the dipping cycle. This system make is possible to load components in more then one level, it will reduce the need for manual cleaning of the galvanized components, and assures the highest galvanizing quality with close control of coating weights.

Process and production parameters are documented in a data base. The loading/unloading stations are designed for easy handling of the client's various components. The integrated buffer section secures an uninterrupted production flow. Emissions are fully contained and the plant is equipped with a patented ventilation system SPARVENT where all process tanks are equipped with automatic lids and the transporters with continuous ventilation, even when moving. This system reduce the amount of ventilation air to about 20-30 % of a traditional system and makes is possible to install one scrubber system with very high efficiency. Emissions from the zinc bath are also fully contained and ventilated through a filter to protect the internal and external environment. Prior to galvanizing, the components are effectively dried and preheated for faster dipping. The racks are also thermally protected between dryer and zinc bath to prevent cooling. The galvanizing bath can be with steel kettle or ceramic lined furnace with gas or electric heating. The system has proven itself to meet the highest quality galvanizing requirements, for the auto industry etc. Dimensions and capacity see our reference list.



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EXAMPLE OF LAYOUT

- 2,4,6,8 Loading and unloading station
- 1,3,5,7,9 Buffer station
- 11-14 Degreasing
- 15 Rinsing
- 16 Rinsing
- 17 Rinsing
- 18-20 Pickling
- 21 Rinsing
- 22 Rinsing
- 23 Rinsing
- 24 Fluxing
- 25-26 Drying
- 27-28 Air cooling
- 29 Hot-dip galvanizing
- 30 Electric cabinet and PC computer
- 31 Hoist wagon with ventilation hood
- 32 Collecting ducts with scrubber system
- 33 Oil separators
- 34 Bag filter for flux fumes

