



### WIRE CLEANING LINES

ELECTROLYTIC CLEANING PROCESSES FOR SINGLE WIRE LINES & HIGH METERING RATES

# ELECTROLYTIC & CHEMICAL CONTINUOUS PICKLING EQUIPMENT FOR LEAD PATENTING & GALVANIZING LINES

- FOR REMOVAL OF WIRE ROD SCALE WITH H2SO4
- FOR REMOVAL OF DRAWING AGENTS & STEARATE





#### **PROCESS DESCRIPTION:**

A very clean wire surface is needed as a precondition for further processing and coating. That means that the lubricants and stearates, from the previous drawing process, have to be removed from the wire surface.

Conventional degreasing processes that work with high temperatures and / or with the support of ultrasonic sound, are often too slow in their processing speed to be applied to a fast operating process.

APT solved this problem by developing the WIRE e-CLEANING PROCESS SYSTEM. This process allows surface cleaning within seconds, by applying very high current density at changing polarization.

During the electrolytic cleaning process, continuous current flows to any spot on the metal surface and generates small hydrogen an dioxygen blisters according to polarization.

The pollutant particles are blasted away from the surface by the emerging gas pressure and result in a precision clean surface. Electrolysis is especially suitable in cases you need very clean surfaces.



WIRE SURFACE WITH & WITHOUT CLEANING



**MULTI-WIRE DEVICE** 

### **BENEFITS:**

- INCREASED PRODUCTION LINE SPEEDS
- INCREASED CLEANING RESULTS
- LOWER PRODUCTION OVERHEAD COSTS





### **ELECTROLYTIC CONTINUOUS DEGREASING SYSTEMS UP TO 12 m/s**

#### FOR REEL-TO-REEL PROCESSES:

#### FOR FOLLOWING DRAWING PROCESSES:





#### MULTI-WIRE DEGREASING UNITS IN FRONT OF THE ANNEALING FURNACE, 24 STRANDS



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## ELECTROLYTIC CONTINUOUS PICKLING UNIT FOR ANNEALED NON-FERROUS WIRES WITH POLISHING DRAWING



## ELECTROLYTIC CONTINUOUS PICKLING UNIT FOR WIRE ROD UP TO 60 m/min. WITH FINISHING TREATMENT



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CHEMICAL CONTINUOUS PICKLING UNITS WITH HCI FOR LEAD PATENTING & GALVANIZING LINES



FLOOD TANK WITH GUIDE BARS



PICKLING UNIT WITH FLUX BATH AND OPEN HOOD



CONTINUOUS PICKLING UNIT - 40 STRANDS "TYPE CLOSED"



**ELECTROLYTIC PICKLING UNIT** 





**CONTINIOUS PICKLING UNIT - 10 STRANDS** 



HIGHT ADJUSTABLE WIRE DEFLECTION



**EXHAUST AIR SCRUBBER WITH FAN** 

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