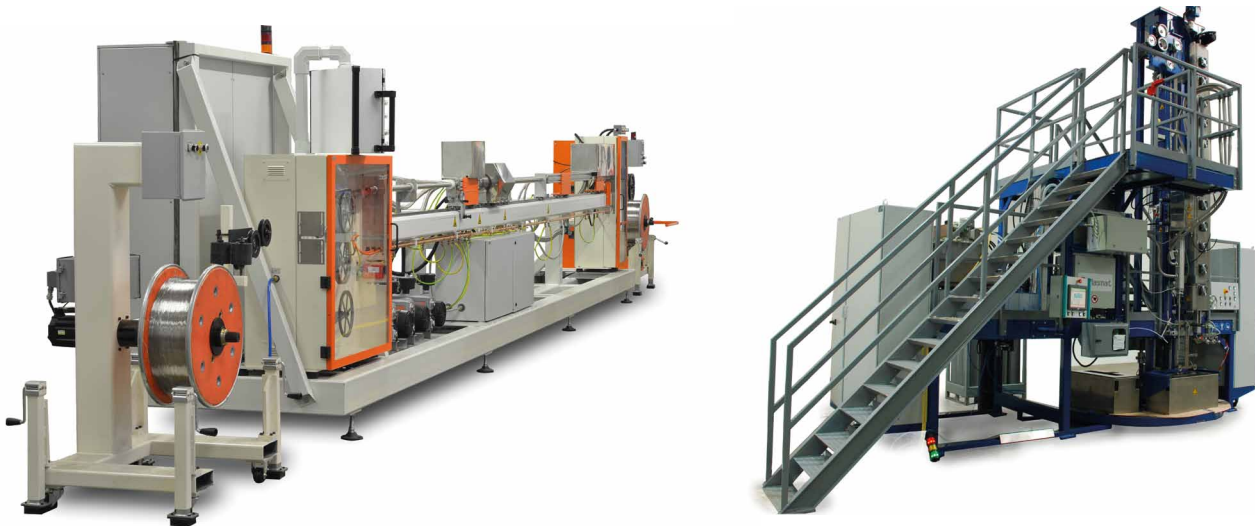


PlasmaPREPLATE

Dry, chemical-free surface treatment for plating, coating, extrusion



Continuous treatment of wire, tube, ropes or strip for superior coating
 Degreasing, oxide layer removal, surface activation, and annealing

Applications

Material	Copper and copper alloys, copper clad aluminium and steel Aluminium and aluminium alloys, steel and tantalum and molybdenum Steels, nickel alloys, nitinol, titanium, chromium and cobalt alloys and other materials
Material Form	Wire, rod, tube, rectangular and shaped wire, stranded conductors, narrow strips
Line Configuration	Payoff > PlasmaPREPLATE (surface treatment + heat treatment optional) > Plating/Extrusion/Coating > Takeup
Example Applications	Polymer coating, extrusion coating e.g. PTFE, FEP, PFA, ETFE, PVC, Teflon Cladding, spray coating, taping, or enamelling Hot-dip plating, electroplating e.g. tin, zinc, nickel, chrome, copper, gold, silver, platinum Conductors for power and signalling cables i.e. solid, rectangular, braided, bunched Medical and jewellery materials, welding, EDM and magnet wire, battery pins, contact pins
Industry Sectors	Medical, solar, jewellery, cable, solar, automotive, aerospace, aviation, energy, oil and gas, marine, defence, food processing, other sectors

Machine Specifications

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Machine Type	HPP10 (horizontal) VPP10 (vertical)
Dimension Range	Wire/rod: 0.3 mm - 20 mm Tube OD: 0.3 mm - 20 mm Strip: 0.1 mm - 30 mm [W]
Machine Dimensions	Length: 2 m - 8 m (horizontal) Height: max 2.1 m Width: max 1.5 m Horizontal or vertical line configuration subject to space availability Line configuration subject to application and scope of supply
Production Output	3 kW / 10 kW / 20 kW, subject to application
Production Speed	max. 20 m/s, subject to application
Total Power Rating	Variable, subject to application
Atmosphere	Nitrogen, forming gas, hydrogen, gas mixtures Type of purging gas subject to application
Controls	PLC controls with user-friendly, touch-screen HMI Production recipe database and computer based surface quality control
Safety	CE/UL mark Compliant to EU and USA safety regulations



Key Features

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- Dry surface cleaning and optional preheating
- Surface activation for better coat adhesion
- In-line with coating, plating, cladding or extrusion
- No acid or alkaline surface cleaning
- No rinsing, no waste water disposal, no sludge
- Alternative to pickling, chemical cleaning, brushing, shot blasting or electrochemical polishing
- No loss of base material
- Compact design
- Easy to operate machine with quick string in
- No warming-up/cooling-down time
- Low production and maintenance costs
- Computer enabled surface quality control
- Environment and operator friendly production



Copper wire before and after PlasmaPREPLATE treatment