

PlasmaCLEANER

Chemical-free cleaning wire, tube or strip



Oxidised copper wire



Plasma treated copper wire

Cleaning and preheating of copper, stainless steel or aluminium wire, tube or strip
 Chemical-free, in-line with plating, coating, polymer extrusion, or taping
 Degreasing, oxide layer removal, surface activation/passivation and preheating

Surface Treatment Applications

Material	Copper and copper alloys, copper clad aluminium Stainless steel, nickel alloys, CoCr alloys and steel Aluminium and aluminium alloys, steel and other alloys
Material Form	Wire, rod, tube, rectangular and shaped wire, stranded conductors, narrow strips
Example Applications	Polymer coating/extrusion: PTFE, FEP, PFA, ETFE, Teflon Cladding, spray coating, taping, enamelling, magnet wire Conductors for power and signalling cables i.e. solid, rectangular, braided, bunched
Industry Sectors	Medical, cable, solar, automotive, aerospace, aviation, energy, oil and gas, marine, defence, food processing, other sectors

Machine Specifications

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Machine Type	HPC3 HPC10 HPC20
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 - 6 m Height: max 2.2 m Width: max 2.5 m Horizontal or vertical line configuration subject to space availability Length subject to cooling type and application
Production Output	Variable, subject to cross-section and application
Production Speed	Variable, subject to cross-section and application
Total Power Rating	HPC3: max 6 kW HPC10: max 15 kW HPC20: max 30 kW Power rating subject to cross-section and 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 preheating
- Surface activation for better adhesion
- Surface passivation for long shelf-life and corrosion protection
- In-line with coating, plating, cladding or extrusion
- Alternative to pickling, chemical cleaning, shot blasting or electrochemical polishing
- Compact design
- Easy to operate machine with quick string in
- No chemicals, no rinsing, no water treatment, no sludge
- 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 plasma cleaning