

WPT

Galvanic Wire Plating Lines

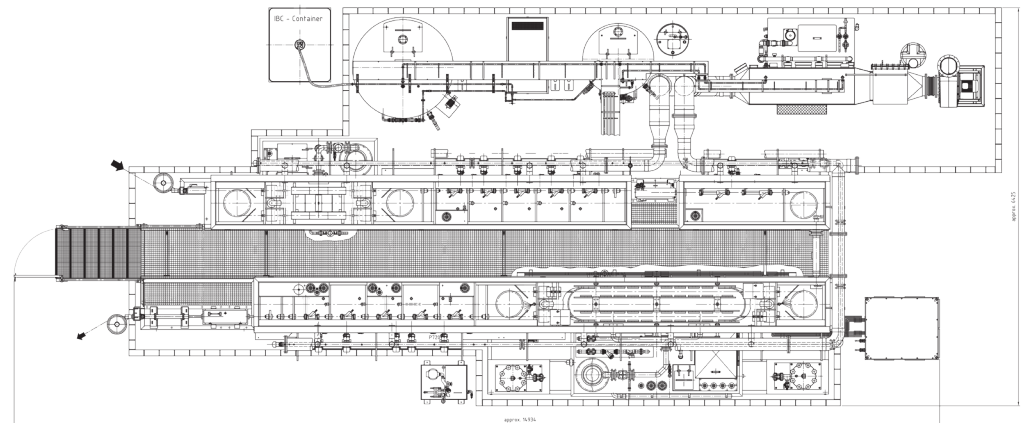
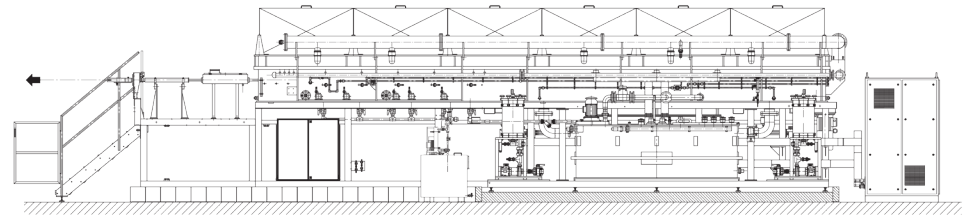
Expertise, Customer Driven, Service – in Good Hands with NIEHOFF



Complete solutions and service – top priority at NIEHOFF-STEULER

NIEHOFF-STEULER offers complete solutions from a single source. The range of products includes all of the equipment required for the production of plated wires such as pay-offs, drawing machines, annealers, spoolers and barrel coilers. NIEHOFF also manufactures the complete electrical line control system in-house to ensure the perfect synchronization of all components among each other.

The worldwide after sales service provided by NIEHOFF together with its affiliates and agents for more than 60 years ensures the durability and quality of the equipment well beyond the initial warranty period. The availability of spare parts and wearing parts for more than 10 years is another advantage in favour of machinery made by NIEHOFF-STEULER.



We reserve the right to modify technical specifications according to technical improvement and advances. 03.2026

WPT

Custom-built lines

NIEHOFF-STEULER manufactures and supplies complete galvanic wire plating lines based on tried and tested components for coating Non Ferrous metal wires with SN, Ni, and Zn. The NIEHOFF-STEULER line concept offers maximum flexibility in terms of installation and can therefore be perfectly integrated in existing production processes.

Built-in environmental protection lowers operating costs

Thanks to many years of operating experience with integrated regeneration and environmental technologies NIEHOFF-STEULER offers environmentally responsible solutions: Multiple cascade units reduce the consumption of chemicals and rinsing water (distillate). The use of a vacuum evaporator enables a nearly "waste water free" operation. The distillate generated in the evaporation process is returned to the rinsing water circuit.

Reliable product quality

Galvanic wire plating lines made by NIEHOFF-STEULER satisfy all requirements in terms of adhesion, homogeneity, concentricity, and pore freedom of the metallic coating. Stable operating conditions through adjustment of current rating to production speed and automatic dosing of chemicals (additives) result in a consistently high surface quality.

Modular concept for flexible production systems

The modular line concept allows an optimum customization to process requirements and specifications. Specific customer requirements in terms of process parameters and quality are ideally met.

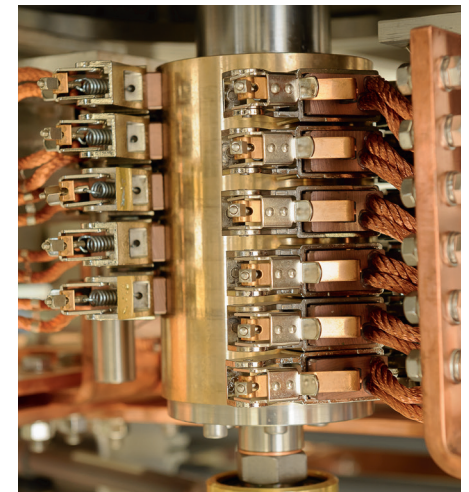
Vacuum evaporator



Titanium baskets



Slip rings and carbon brushes



Technical data

type		WPT 300. SN.1.3000 1 drive	WPT 300. SN.1.3000 2 drive	WPT 400. SN.1.6500	WPT 400. SN.1.13000	WPT 400. NI.1.4000	WPT 400. NI.1.8000
material	wire material plating material	Cu Sn	Cu Sn	Cu Sn	Cu Sn	Cu/Cu-Alloy Ni	Cu/Cu-Alloy Ni
wire dia.	250 N/mm ²	1.00 ... 2.60	0.60 ... 2.60	0.80 ... 2.60	0.80 ... 2.60	0.80 ... 2.60	0.80 ... 2.60
	AWG	18 ... 10	22 ½ ... 10	20 ... 10	20 ... 10	20 ... 10	20 ... 10
	450 N/mm ²	1.00 ... 2.00	0.60 ... 2.00	0.80 ... 2.00	0.80 ... 2.00	0.80 ... 2.00	0.80 ... 2.00
	AWG	18 ... 12	22 ½ ... 12	20 ... 12	20 ... 12	20 ... 12	20 ... 12
max. production speed	m/s	7	7	15	15	7	7
	fpm	1,378	1,378	2,953	2,953	1,378	1,378
max. plating current	A	3,000	3,000	6,500	13,000	4,000	8,000
tin layer thickness	µm	1 ... 20	1 ... 20	1 ... 20	1 ... 20		
nickel layer thickness	µm					1 ... 20	1 ... 20

Advantages

- Maximum flexibility through modular design
- Use of energy-efficient AC motors and pumps
- Chemicals-resistant materials used throughout
- Good accessibility for minimized service and maintenance requirements
- Waste-air purification according to the Clean Air Guidelines
- Highly reliable separation of the used chemicals by optimum wire drying between the single treatment steps
- Minimized operational costs through low chemicals consumption
- Reduced rinsing water consumption through multiple cascade units
- Minimized disposal costs through efficient waste water management
- Highest product quality through stable operating conditions
- NMI NIEHOFF Machine Interface with operating data acquisition and archiving
- Titanium correction anode (patented)

Exhaust air Scrubber

