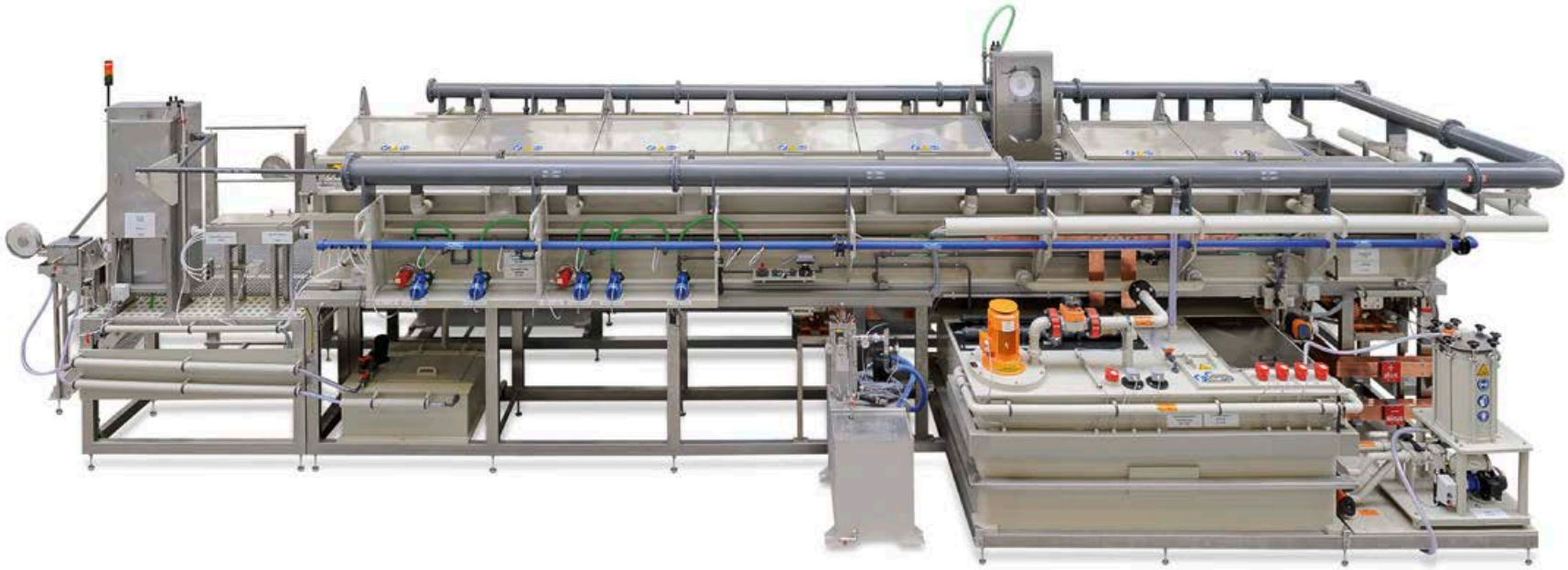


WPT

Galvanic Wire Plating Lines

NIEHOFF GRUPPE

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.

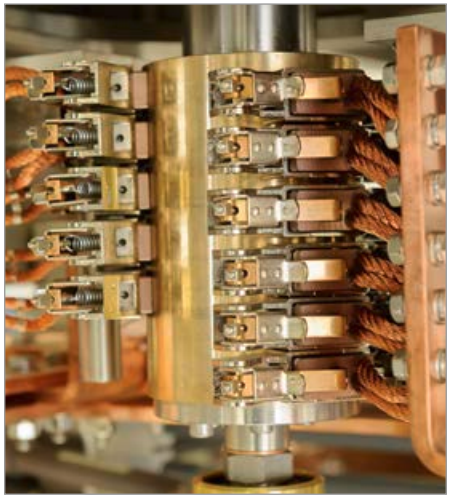
Modular concept for flexible production systems

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 for avoidance of waste water

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		Cu	Cu	Cu	Cu	Cu/Cu-Alloy	Cu/Cu-Alloy
	plating material		Sn	Sn	Sn	Sn	Ni	Ni
wire dia.		250 N/mm²	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/mm²	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
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
thin layer thickness		µm	1 ... 20	1 ... 20	1 ... 20	1 ... 20		
nickel layer thickness		µm					1 ... 20	1 ... 20