

Spray Machine

Support Spray Machine HPG

The Support Spray Machine HPG specialises in processing corrosion protection wires for applications that require a very high material output.

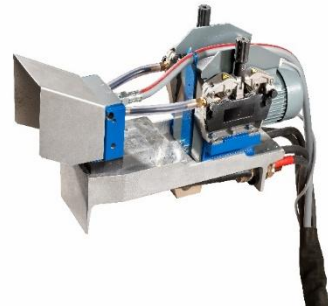
In combination with a suitable power source, the robust and powerful feed system of the spray machine HPG allows up to 200 kg of zinc wire to be processed per hour.

With the spray machine HPG, we focus on a simple and reliable wire feed mechanism that has proven itself in practice over the years in its compact design (wire feed gear WF6).

The wire feed gear of the spray machine HPG delivers a maximum output of 550 W and allows spray wires up to 4.76 mm (3/16") to be processed.

The DC power connections developed by OSUCAS provide low-loss energy transfer with minimal heat generation and improved conductivity.

This keeps the energy where it belongs – in the spraying process!



Spray current
up to 2,000 A
100 % duty cycle

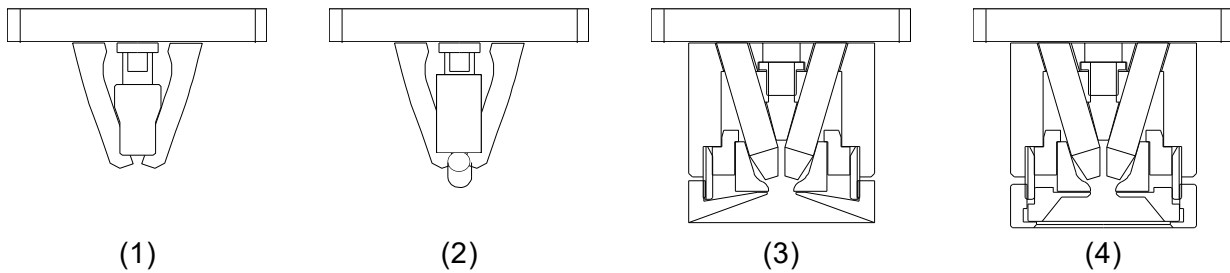
Spray wires
Zn, ZnAl
(up to Ø 4.76 mm)

Spray rate
up to 200 kg/h - Zn
(depending on the power source)

Features of the spray machine HPG

- ✓ Housing made of fibre-reinforced material for a long service life
- ✓ Closed or open nozzle system can be used
- ✓ Suitable for processing spray wires 1.6 – 4.76 mm
- ✓ Designed for spray currents up to 2,000 A
- ✓ Maintenance-free 550 W geared motor
- ✓ Quick and easy replacement of feed and pressure rollers
- ✓ Reproducible wire contact pressure
- ✓ Removable spray head for easy maintenance
- ✓ Straight air routing to minimise turbulence in the atomizing air
- ✓ Optimised power connections for high energy efficiency
- ✓ Can be connected to (almost) all OSU power sources (e.g. LG120, STRONG ARC 2000 etc.)

Depending on the desired coating properties, you can choose between four nozzle system variants:



- (1) Open nozzle system - round-spray
- (2) Open nozzle system - wide-spray
- (3) Closed nozzle system - round-spray
- (4) Closed nozzle system - wide-spray

Open nozzle system (1 and 2)

The open nozzle system is used where a rough surface and/or high temperature resistance of the coating is required.

Closed nozzle system (3 and 4)

Compared with the open nozzle system, the closed nozzle system enables very fine atomization of the molten particles, resulting in a correspondingly fine coating with low surface roughness. This allows considerable savings of paint in subsequent top coats.

⇒ All nozzle systems are available as round-spray or wide-spray nozzle systems.

Electrical Data	
Mains voltage	3 x 400 V AC => Other mains voltages available on request
Mains voltage tolerance	± 5 %
Mains frequency	50/60 Hz
Connected load	38 – 40 kVA
Max. spray current (at 100 % duty cycle)	2,000 A DC
Open-circuit voltage	26 – 39 V DC
Spray voltage	22 – 34 V DC
Spray Wires and Spray Performance	
Spray wire quality	DIN EN ISO 14919
Spray wire diameter	3.2 mm (other diameters on request)
<i>Selection of approved spray wires and spray rates (at 2,000 A):</i>	
Zn	200.0 kg/h
ZnAl	158.0 kg/h
Al	80.0 kg/h
Compressed Air Supply	
Required compressed air quality	DIN ISO 8573-1 Class 1
Compressed air temperature	Cooled down to min. 25 °C
Nominal diameter of compressed air ring main	25 mm (1 inch)
Nominal diameter of air hose (power source)	25 mm (1 inch)
Connection type	Compressor coupling G1/2 inch (female thread)
Max. inlet pressure	10 bar
Compressed air consumption – atomizing air	60 – 120 m³/h
Other Data	
Protection class	IP 21
Cooling type	Convection