

PRODUCT DATA SHEET

OSUCAS Arc Spray System OC200Corr · OC300Corr

with Hand-held Spray Device OC1



The illustration of the system may differ depending on the version.

POWER SOURCE

OC300Corr (OC200Corr)

with/without mounted WF4 wire feed gear, depending on the application

The OC300Corr (OC200Corr) power source with its transformer-rectifier system has characteristic curves specially designed for arc spraying. The generously dimensioned power components ensure continuous spraying operation at 100 % duty cycle. Convection provides sufficient cooling of the power source while reducing contamination by metal dust to a minimum.

The OC300Corr (OC200Corr) is equipped with a PLC control system that monitors and controls all spray parameters. Operating faults are indicated by signal lamp codes on the power source panel and displayed in detail on the PLC display. The power source is equipped with safety devices that automatically switch the system to a safe operating state in the event of overload, overheating or pressure drop.

The compact design of the OC300Corr (OC200Corr), combined with the large swivel and fixed castors, ensures easy manoeuvring of the power source even in harsh site conditions. Thanks to their large contact surface, the OSUCAS DC power connections provide low-loss energy transfer with minimal heat generation at the connections.



Spray current

300 (200) A

100 % duty cycle

Spray rate

30 (20) kg/h

Zinc

Spray rate

26.5 (17.6) kg/h

Zinc-Aluminium 85/15

The power source with a maximum spray current of 300 (200) A (at 100 % duty cycle) stands out for:

- ✓ its compact and robust design
- ✓ easy handling with clearly legible display elements
- ✓ the clear arrangement of the controls on the inclined control panel
- ✓ large swivel and fixed castors for easy manoeuvrability, even in harsh site conditions
- ✓ optimised power connections for high energy efficiency
- ✓ if required, the power source can be equipped with the WF4 wire feed gear

Depending on the configuration, the power source can be equipped with or without the WF4 wire feed gear – see text in the quotation

Electrical Data

Mains voltage	3 x 400 V AC => Other mains voltages available on request
Mains voltage tolerance	± 5 %
Mains frequency	50/60 Hz
Input current	< 23 A
Mains fuse	35 A
Connected load	< 15 kVA
Max. spray current (at 100 % duty cycle)	300 (200) 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	2.5 mm (other diameters on request)

Selection of approved spray wires and spray rates at 300 (200) A

Zn	30.0 (20.0) kg/h
ZnAl	26.5 (17.6) kg/h
Al	9.0 (6.0) kg/h
AlMg	8.0 (5.3) kg/h

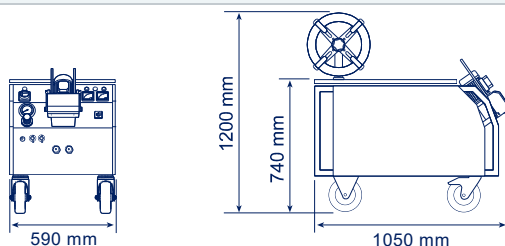
Compressed Air Supply

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 – air motor	25 m³/h
Compressed air consumption – atomizing air	60 – 100 m³/h

Other Data

Weight	200 (180) kg
Protection class	IP 21
Cooling type	Convection
Test mark	CE

Dimensions



SPRAY DEVICE

OC1 Corr

With its closed nozzle system, the OC1-Corr spray device is ideal for processing corrosion protection wires. The special geometry of the nozzle system components enables very fine atomization of the molten particles, resulting in a correspondingly fine spray coating with low surface roughness. This offers considerable potential for saving paint in subsequent top coats.

In combination with the wire feed gear on the power source, the wire feed built into the spray device allows the use of cable and hose sets up to 20 m in length.

The OSUCAS DC power connections provide low-loss energy transfer with minimal heat generation and improved conductivity. This keeps the energy where it belongs – in the spraying process.



600 A

Max. current (100 % duty cycle)

20 m

Max. cable and hose set length
(without intermediate gear)

2.4 kg

without cable and hose set

Features of the OC1 spray device:

- ✓ housing made of fibre-reinforced material for a long service life
- ✓ compact design and low weight
- ✓ modern and easy handling (including the dead man's switch with reflective light sensor)
- ✓ optimised power connections for high energy efficiency
- ✓ can be connected to (almost) all OSU power sources
- ✓ reduced wear part requirements thanks to a feed unit driven directly by the air motor

Spray Wires and Spray Performance	
Spray wire quality	DIN EN ISO 14919
Spray wires	Zn - ZnAl - Al - AlMg5
Spray wire diameter	2.5 mm (other diameters on request)
Max. spray current (at 100 % duty cycle)	600 A
Compressed Air Supply	
Required compressed air quality	DIN ISO 8573-1 Class 1
Compressed air temperature	Cooled down to min. 25 °C
Compressed air consumption – air motor	25 m³/h
Compressed air consumption – atomizing air	60 – 100 m³/h
Other Data	
Weight	2.4 kg (without cable and hose set)

ACCESSORIES

Optional Accessories



Combi uncoiling device

for processing wire on spools

The uncoiling device is mounted directly on the power source, enabling mobile use, e.g. on construction sites.

Our new Combi uncoiling device gives you the flexibility to use wires on all available spool types (reel, mandrel and basket spools). With just a few simple steps, you can convert this uncoiling device to the spool type of your choice in no time.



Drum cover with de-coiling device

for processing endless wire from drums

The drum cover protects the wire in the drum from dust and other contamination. The de-coiling device is mounted directly on the cover.

The drum cover is made of robust, transparent material that provides an overview of the amount of wire in the drum at all times. An access opening covered with a rubber flap allows the wire to be threaded in easily.

The drum cover fits drum diameters of 505 - 574 mm (variably adjustable).



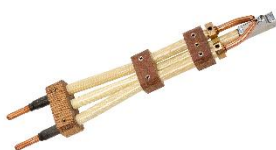
Mobile wire feed trolley

to extend the working radius by up to 40 m

The OSUCAS wire feed trolley with integrated wire feed gear was specially developed for applications that require a large working radius – as is typical in corrosion protection.

Depending on requirements, it is available either with a Combi uncoiling device for spools or for use with wire in drums.

By integrating the wire feed trolley into the respective standard setup of the system, total cable and hose set lengths of up to 40 m can be achieved – depending on the material being processed.



Angled nozzle extension

for coating hard-to-reach areas

The angled nozzle extension is a spray extension for the internal coating of pipes as well as for coatings in hard-to-reach areas. It is attached to the spray device with a suitable adapter (instead of the spray head).

Available in different lengths and with various adapters.