

Always Reliable Always Error-Free



Robotic Coating Unit

Welcome to the world of Industry 4.0 coating.

- ✓ Easy operation and quick training
- ✓ Intuitive robot trajectory teaching
- ✓ Certified for explosive environments
- ✓ Repeatable high-quality coating
- ✓ Maximum operator safety
- ✓ High precision and speed



Package Includes

Collaborative robot

Coating booth

ESCO Paint App

Application unit

System installation

Safety system

Optional Add-ons

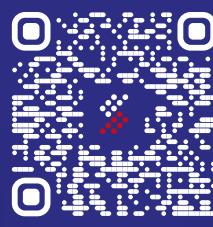
Coatmaster Flex

offers precise measurement
of uncured powder coating

Optical system

enables part detection and
automatic trajectory correction

Real-World Performance



Increased productivity, fewer errors, faster coating cycles and a lighter workload. TATSUNO EUROPE gained these tangible benefits by integrating our robotic coating unit into their coating processes.

[Read our case study](#)

SURFIN Technology s.r.o.

For Your Colourful Future.

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Robotic Coating Unit

esco
paint app

Key Advantages

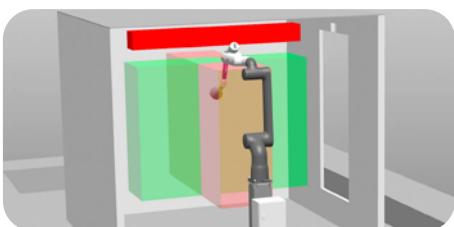
Teaching modes

Point-to-Point - enables smooth movement between defined points
Continuous - replicates operator movement & transfers it to the robot



Large reach

Robot arm reach of up to 1620 mm is suitable for both small and large parts. Maximum part dimensions: L 2000 x H 1400 x W 600 mm



ATEX-certified

Installation is fully certified for use in explosive environments. The robot comes equipped with a protective cover, ensuring a longer service life.



Stability

Nordson Encore HD with HDLV technology ensures stable powder flow, up to 30% cost savings and less servicing than Venturi systems.



Ergonomics

Our smart powder feed design allows the robot to efficiently coat complex-shaped parts as well as difficult-to-access areas.



Control

Coating parameters, programs and robot trajectories can be accessed through an intuitive touch panel, reducing operator training time.



Efficiency

Coats up to 3 m² per minute
Coating speed up to 600 mm/s
Transfer speed up to 2000 mm/s
Positioning accuracy up to 0.02 mm

Series production

Robot programming has never been easier. With the optional optical system, the coating trajectory is automatically adapted to each part.

Safety

Coating process is instantly stopped if someone enters the safety zone. Fence-free design with radars offers more flexibility and smaller footprint.

Total Unit Cost

6 770 000 CZK
276 000 €

Including installation and training.

Payback period

2 years

Reduction in rejects, higher efficiency and lower powder consumption. We provide tailored ROI calculations.

Installation

14 days

Including complete installation of the robot, coating booth, application unit and ESCO control system.

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