

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 systém



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.



surfin-tech
surfintechnology



www.surfin-tech.cz
info@surfin-tech.cz
+420 777 717 507

Robotic Coating Unit

esco
paint app

Key Advantages

Teaching modes



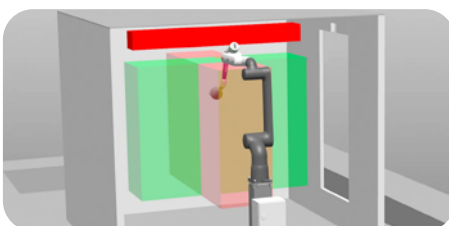
Point-to-Point - enables smooth movement between defined points
Continuous - replicates operator movement & transfers it to the robot



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 roky

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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