

The news magazine of Wollin

sprayUP

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EFFICIENCY IN MOTION

Spraying technology for die casting and solutions
for automation and special-purpose machines



DDE – Dosing Nozzle Easy

Precision. Simplicity. Efficiency.

INNOVATION!

The new generation of dosing technology

The **DosierDüse Easy (Dosing Nozzle Easy)** is a completely redesigned dosing nozzle: lightweight, robust and ready for immediate use.

- ✓ **Easy venting.**
- ✓ **No check valves.**
- ✓ **No compromises.**

The DDE stands for maximum operational reliability, minimal downtime **and easy handling** – plug & play – **Assemble. Press the button. Ready to go.**

Technology as precisely as nature

Inspired by the principle of morning dew: finely dosed, evenly distributed, without waste. This is how sustainable dosing technology works today. The DDE applies exactly the amount of medium that is really needed to the surface: no more, no less. The result: resource-saving spraying with maximum precision.

Advantages at a glance

- ✓ **Plug & Play:** ready for immediate use, easy venting
- ✓ **Low maintenance:** no check valves, hardly any wearing parts, fewer components, easy to clean, significantly reduced susceptibility to clogging due to larger boreholes
- ✓ **Lightweight:** only 123 g, ideal also for large spray tools
- ✓ **Precise dosing:** dosing volume can be reduced via fixed stop
- ✓ **Reliable & robust:** less prone to malfunction
- ✓ **Compatibility:** for all PS spray tools

DDE – DosierDüse Easy

Sustainable. Simpler. Easier.

Comparison of DDE vs. DDV

	DDE	DDV
Weight	lighter » 123 g	heavier » 202 g
Components	7	12
Capacity	0,077 / 0,11 / 0,22 / 0,33 ml	0,043 / 0,076 / 0,119 ml
Check valves	0	2
Dosage	Fixed stop	Dosing screw
Venting	easy	time-consuming
Installation and commissioning	quick and uncomplicated	requires venting & fine adjustment



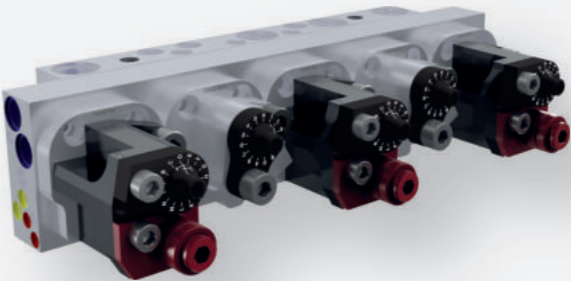
Dual-Circuit Spray Bar

Two circuits, unlimited possibilities

The dual-circuit spray bar is a further development of the proven **PowerSpray** and **EcoSpray** technologies. It enables even more precise and flexible control of the spraying process. Each nozzle position can be individually assigned to one of two circuits. This makes it particularly easy to implement hybrid spraying strategies without the need for additional spray bars.

Innovative spacer plate technology:

Special spacer plates clearly assign each nozzle position to a circuit (e.g., top = circuit 3, bottom = circuit 1). This allows nozzles from both circuits to be combined in one bar, ideal for complex dies, hybrid spraying, and maximum process flexibility.



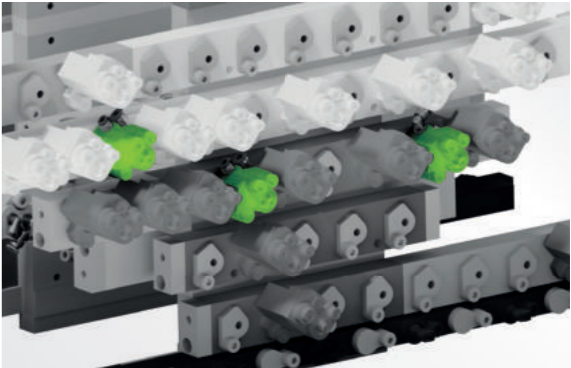
Your advantages at a glance:

- ✓ **Flexible:** targeted control of each nozzle position
- ✓ **Compatible:** for all WOLLIN systems (PS16–6, PS16–8, PS25–8)
- ✓ **Hybrid capable:** combinable air and release agent circuits
- ✓ **Time-saving:** no conversion required
- ✓ **Modular:** expandable and future-proof

EcoSpot – targeted cooling.

Spray hotspots efficiently, save energy, ensure quality.

EcoSpot makes eco-spraying even more efficient: hot spots on the spray tool can be sprayed and cooled in a targeted manner without wetting the entire tool. This saves energy, release agents, and time for a more sustainable and precise production.



Efficient spraying in zinc die casting with EcoSpray technology

- ✓ Cycle time reduction
- ✓ Savings in concentrate consumption
- ✓ Resistance to media
- ✓ FSD **EcoSpray** technology
- ✓ Precise positioning spraying (compact, flexible spray tool, expandable by spacers in 7.5 mm, 10 mm, 15 mm)
- ✓ Component quality improvement, through targeted fine atomization
- ✓ Attachment with adapter to Frech spray technology 1-circuit version machine



Aluminium
(in combination with the ESM1 LC)



PEEK
(for Frech Spray Technology)

Technical highlights:

- ✓ **Number of nozzles:** Min. 10 spray and blow nozzles / Max. 22 spray and blow nozzles
- ✓ **External adaptation:** Frech Spraymotion 1 circuit
- ✓ **Spraying technology:** FSD technology / FSD nozzle internals installed in block
- ✓ **Number of spray circuits:** 2 (PEEK version: no blowing circuit, the nozzle blows out)

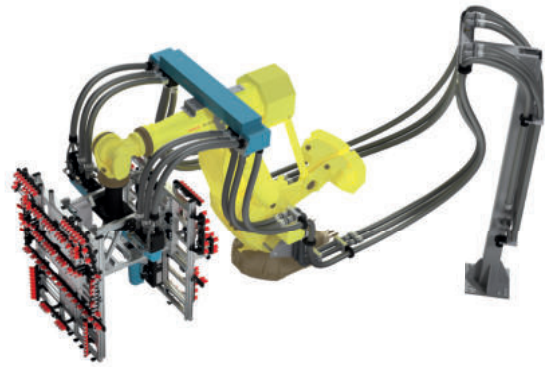
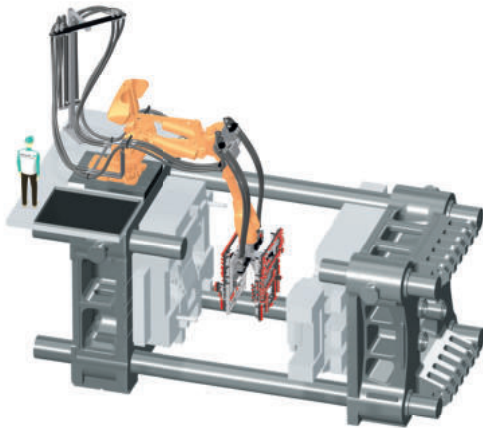
ESM1 LC – Spraying Machine for hot chamber surfaces

DCM-Range (kN): from 800
Vertical stroke: 600-800 mm



NEWLY DEVELOPED!

Compact robot solution ESR8 for Giga- and MegaCasting.



From large-format spray portals to robotic solutions:

Wollin delivers precision for the requirements of next-generation automotive production.

The automotive industry is facing new challenges:

Giga and megacasting, larger structural components, shorter cycle times and integrated production cells require high-precision, flexible spraying technology. Wollin delivers tailor-made solutions for this – successfully in use worldwide since 2019 at leading OEMs and Tier 1 suppliers.

- 2019 First giga/mega casting portal for BMW
- 2022 3x robot systems
- 2023 7x spray portals (Volvo & Hyundai)
- 2024 3x robot systems & 2x spray portals (Volvo)
- 2025 Spray portal (Vietnam) & 45+ robot solutions (China)

1-Robot solution – Compact spraying for new die casting concepts

- ✓ 9,000 t Robot spray system
- ✓ Innovative single-robot system, ideal for flexible production
- ✓ Combines efficiency, precision, reduced footprint and quicker cycle times
- ✓ 16 spraying circuits, 4 high-pressure blowing circuits
- ✓ Mask spraying possible
- ✓ **EcoSpray**, hybrid and conventional spraying possible
- ✓ Air/release agent lines correspond to 2x ESR/ESM4
- ✓ Easy adaptation of spray tool halves
- ✓ Adaptable to common large robots

PowerSpray die spraying tool

Innovative spray technology for giga-/megacasting

Advantages at a glance:

- ✓ **Maximum efficiency:**
Cycle times under 10 sec. with only 20–40 ml of release agent
- ✓ **Maximum flexibility:**
lightweight, modular and easily adaptable
- ✓ **Precise spraying technology:**
8 spraying and 2 blowing circuits per side
- ✓ **Optional cooling:**
Integrated water or release agent circuits

