



## E-SHUTTLE 300 SMART CONVEYOR SYSTEM FOR COATING PROCESSES

E-SHUTTLE 300 IS A HIGHLY FLEXIBLE CONVEYOR SYSTEM FOR PRETREATMENT AND DIP-COATING.

### Exceptional quality, outstanding flexibility

E-Shuttle 300, designed for pretreatment and dip-coating in the automotive industry, can be tailored to the specific product being coated – that includes the dip curves, the mode of operation, and the process time for each bath. And new vehicle models and changes to production processes are not a problem for this highly flexible conveyor system: it delivers consistently high quality.

### The shuttle system

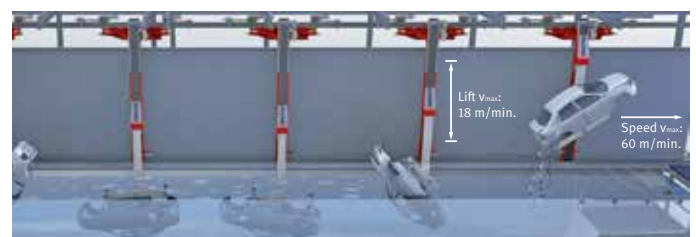
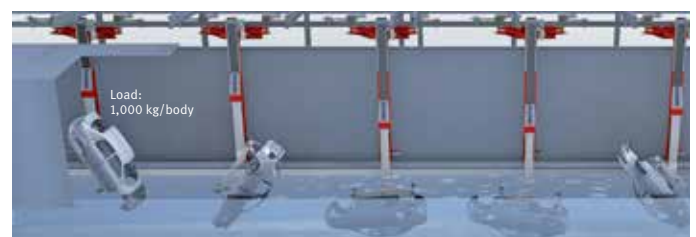
E-Shuttle 300 transports the vehicle bodies on individual shuttles through the process baths for pretreatment and electro-dip coating. Each shuttle has its own controller that allows a specific dip curve to be defined for each body, and a different process time to be programmed for each bath. What's more, certain baths can be omitted – which has a positive impact on carry-over and chemical consumption. And with continuous position sensing, E-Shuttle coordinates all movements system-wide.

### Low operating costs

E-Shuttle 300 comprises three freely programmable axes: one horizontal, one lifting and one rotation axis. They enable operators to define the precise dip curve required, and allow the bodies to be transported in a variety of positions – with the roof pointing up, down, or anywhere in between. The bodies are dipped in the baths by a combination of lifting and rotation and can be turned through a full 360°, allowing any conceivable position, including full vertical. This way, they can be filled quickly and fully drained. The system is designed to achieve an optimized angle for drip-off, reducing carry-over of process fluid, lowering chemical consumption, and creating fewer rejects and less need for reworking.

### Premium-quality coating

Freely programmable dip curves and process times ensure each body is cleaned and coated evenly. In addition, the rotation of the bodies in the baths causes the process fluid to move. This minimizes the amount of air bubbles that are created when the bodies are submerged, and ensures sufficient movement of any remaining air bubbles. Moreover, all cavities are flooded to the greatest extent possible. The system delivers high-quality coating at all times, whatever new materials or processing methods the automotive industry may introduce.





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THE RIGHT SYSTEM, WHATEVER THE REQUIREMENTS – OUR PRETREATMENT  
AND DIP-COATING PORTFOLIO:

Pendulum conveyor	E-Shuttle 200	E-Shuttle 300	Vario Shuttle	Electrified monorail (EMS)
Simple and robust	Compact design	Maximum flexibility	Heavy-duty version (for heavy bodies)	XL version (large bodies)
Standard bodies up to 1,000 kg			Standard bodies up to 1,500 kg	Large bodies up to 2,400 kg
Continuous mode	Continuous or synchronized mode			Synchronized mode
Roof up	Roof down	Roof up/Roof down		Roof up

← Up to 120 JPH\*

20 JPH\*

\*Jobs per hour

### Advantages at a glance

- Highly flexible production process thanks to individually programmable dip curves
- Lower energy and operating costs for coating, thanks to effective flooding and draining in smaller baths
- Minimized carry-over and chemical consumption
- High-quality finish for every type of vehicle body

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