

VARIO SHUTTLE V.4 VERSATILE CONVEYOR SYSTEM FOR COATING PROCESSES

VERSION FOUR OF THE VARIO SHUTTLE FEATURES BROADER FUNCTIONAL SCOPE, GREATER COMPATIBILITY AND SIGNIFICANTLY REDUCED MAINTENANCE.

A robust solution with impressive performance

The Vario Shuttle has been key to process flexibility and optimum quality in vehicle body pre-treatment and electro dip coating lines for some ten years. The freely programmable horizontal, vertical and rotation axes and the individually controlled shuttles enable the quick and easy configuration of dip curves and process times to a wide range of body types. The Vario Shuttle delivers outstanding cleaning and coating results for very large and heavy bodies of up to 1.5 tons. Depending on the needs of the geometry and the process, throughputs of up to 70 auto bodies per hour can be achieved.

Simpler design reduces maintenance

In version 4 of the Vario Shuttle, all drive and control components are located on the master side. Particular attention has been paid to maximizing the accessibility of the various modules. The new model is also easier to maintain due to the use of open, unsealed bearing units.

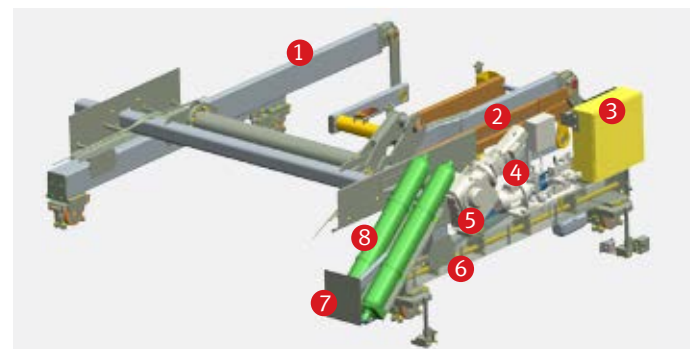
Hydraulic lift-axis drive with energy-efficient load compensation

The new version features a hydraulic drive with accumulators employed on the lift axis. Its design is based on the opening mechanism of car trunks, which require minimum effort to open and close. Thanks to this drive system with load compensation, air actuators are no longer required, and the drive capacity has been reduced from around 20 kW to 4 kW.

Continuously rotating axis for greater productivity

In previous versions, the rotation axis transmitted the rotational movement via the toothed belts integrated into the lifting arms. As a result, it was necessary to manually “rewind” the shuttle

once it had rotated around almost 360°. In the new model, the axis is driven directly by a gear motor. This means the axis can rotate continuously, which reduces idle times. In addition, in the case of newly built paint shops, the shop’s length can be reduced or the throughput increased.



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|-----------------------------------|---|
| 1 Slave side | 5 Wrist axis drive |
| 2 Transmission rod, wrist axis | 6 Integrated hydraulic tank (e-coat-compatible hydraulic fluid) |
| 3 Controller | 7 Master side |
| 4 Hydraulic unit for lifting axis | 8 High-pressure accumulator for lifting compensation |



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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

- Outstanding finish quality and process reliability for all bodies, including heavy ones
- Minimized maintenance thanks to simplified design
- Improved functionality and productivity

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