



Multifunctional, dynamic, reliable

GEBHARDT StoreBiter® 300 MLS –
shuttle warehouse system with
effective access





GEBHARDT StoreBiter® 300 MLS – efficiency at the highest level

Technical features

- Shuttle with lift function
- Powerful 400 V servo drives
- Multiple level access
- Low maintenance and service costs
- Rugged and proven technology

The StoreBiter® 300 Multi-Level-Shuttle (MLS) is a highly dynamic shuttle system for operation with multiple storage levels. The StoreBiter® 300 MLS offers effective access to input and output goods with a multitude of applications, in accordance with the “goods-to-man” principle. The shuttle solution from GEBHARDT simplifies and consolidates the variety of processes in the warehouse and reacts dynamically to your new requirements. The GEBHARDT StoreBiter® 300 MLS is always used when high quality and strong performance are required.

The gentle transport with telescopic belt load handling devices (LHD) and the low-maintenance, reliable storage system, which impresses with the proven AS/RS technology, has a positive effect on your business. If required, the storage of cartons of various sizes is possible with multi-gripper-LHD and shelf racking. The modular design can be extended with Galileo IoT applications for predictive maintenance and condition monitoring.

Multifunctional

Due to the various load handling devices (LHD), the GEBHARDT StoreBiter® 300 MLS is able to store and retrieve containers, boxes and trays with a maximum payload of 120 kg on a multi-depth storage basis. The goods to be transported may vary in size. The complete warehouse system consists of the rail bound StoreBiter® 300 MLS, the aisle racking system with vertical conveyors

and MLS travel rails, and its controls. The shuttle system offers a significantly higher input and output capacity in comparison to the classic small parts store solutions. The warehouse system can also consist of a multi-aisle rack system. In such cases, each aisle is divided into one or more maintenance alleyways depending on the rack height, the height grid, as well as the required throughput, and MLS is installed in each maintenance alleyway. The StoreBiter® 300 MLS is able to access multiple storage levels, is therefore suitable for the economical storage of a wide range of goods and is also almost maintenance-free.

Flexible access at multiple levels

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StoreBiter® 300 MLS,
type 750.03

StoreBiter® 300 MLS high,
type 750.13



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Data

	StoreBiter® 300 MLS type 750.03	StoreBiter® 300 MLS high type 750.13
Payload [kg]	1 x 120 / 2 x 60 / 3 x 35 / 4 x 25	
Vehicle speed [m/s] ¹	max. 4.0	max. 3.0
Vehicle acceleration [m/s ²] ¹	max. 1.5	max. 1.2
Lift speed [m/s] ¹	max. 0.8	
Lift acceleration [m/s ²] ¹	max. 2.0	
Conveyed goods length [mm]	200–1,450 (1-fold) / 715 (2-fold) / 470 (3-fold) / 337.5 (4-fold)	
Conveyed goods width [mm]	200–850	
Conveyed goods height [mm]	min. 40	
Vehicle length [mm]	1,865 / 2,065 / 2,265	2,065–2,265
Vehicle width [mm]	900–1,500	1,050–1,500
Aisle width [mm]	Vehicle width + 50	
Energy supply	Conductor rail	

¹ depending on conveyed goods dimensions

Key features of all StoreBiter® 300 MLS

The StoreBiter® 300 MLS is produced in two versions – the standard MLS type 750.03 and the taller 750.13. Both versions have all-wheel drive. With this, the power transmission takes place on a bus-bar system, and positioning is carried out with an optical laser measurement system. Furthermore, data transmission takes place with the aid of an optical data light barrier. The variations are the result of the varying vehicle heights. Type 750.03 has a maximum height of 3 m, whilst the taller 750.13 can be installed up to 5.5 m high.



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