

Bin Lift™ 2.0 Data Sheet

The Bin Lift™ is a vertical lift for the AutoStore™ Bins. With the Bin Lift, customers can either place the Port and operator on a different floor than the Grid, or connect Grids located on two different floors.

The Bin Lift enables a flexible warehouse layout, so customers can secure low real estate costs through maximum space utilization. Customers can expect greater product stability, reliability, and a better user experience through greatly reduced noise levels.

Bin Lift is available in two configurations:
Grid-to-Port (G2P) and Grid-to-Grid (G2G)

- **Grid-to-Port (G2P):** Works in combination with the AutoStore SwingPort™ to provide an extension to the AutoStore Grid. It allows order picking to happen from a different floor than the Grid and enables flexibility in the existing space design.
- **Grid-to-Grid (G2G):** Connects two AutoStore Grids on different floors, enabling the flow of Bins between the Grids. It allows customers with multi-level warehouses to optimize their use of space and extend Bin reachability.



What's new?

Bin Lift 2.0 is a redesign of the vertical lift for Bins, Bin Lift 1.1.

- The new Bin Lift 2.0 has been completely redesigned and comes with significant mechanical improvements. New and improved rollers, tracks, motors, and electronics are much stronger and more stable.
- Advanced electrical and machine safety
- Noise levels for the operator at the Port have been greatly reduced compared to the Bin Lift 1.1 – from 70dBA to 60dBA, thanks to the new motor, gear, and its new placement
- Approved for use in new regions. It is now available in the EU, United States, Canada, and Japan (the previous version was only available in the EU).

Technical Specifications

Product name	Bin Lift™	Bin Lift™
Model name	Bin Lift 2.0 Grid-to-Port	Bin Lift 2.0 Grid-to-Grid
Type	AS-99401	AS-99404
Region	EU, United States, Canada, Japan	EU, United States, Canada, Japan
Dimensions	L: 700 mm W: 655 mm H: Adjustable (Max height 16.5 m)	L: 1,105 mm W: 745 mm H: Adjustable (Max height 16.5 m)
Weight	>100 kg (Depending on the height)	>100 kg (Depending on the height)
Max. load including Bin	35 kg	35 kg
Bin type support	220 and 330 mm	220, 330, and 425 mm
Max. Bin throughput	170 Bins/hr. (Bin Lift under Grid, 8 m total lift height) 163 Bins/hr. (Bin Lift under Grid, 9 m total lift height) 154 Bins/hr. (Bin Lift under Grid, 12 m total lift height) 131 Bins/hr. (Bin Lift under Grid, 16 m total lift height)	100 (up) + 100 (down) Bins/hr. (Bin Lift between Grids, 9 m total lift height)
Storage temperature	-25°C to +55 °C	-25°C to +55 °C
Operating temperature	+2°C to +35 °C	+2°C to +35 °C
Operation humidity	40% to 90% non-condensing	40% to 90% non-condensing
Noise levels (peak value)	<60 dBA in operator position <70 dBA on Grid	<60 dBA in operator position <70 dBA on Grid
Voltage range	Bin Lift 2.0 Controller Cabinet: 100 to 240 VAC Bin Lift 2.0 Motor Drive Cabinet: Three-phase 380 to 480 VAC (EUR) Bin Lift 2.0 Motor Drive Cabinet: 3-wire/3PH 480/277Y VAC (USA/CAN)	Bin Lift 2.0 Controller Cabinet: 100 to 240 VAC Bin Lift 2.0 Motor Drive Cabinet: Three-phase 380 to 480 VAC (EUR) Bin Lift 2.0 Motor Drive Cabinet: 3-wire/3PH 480/277Y VAC (USA/CAN)
Rated current (normal operation)	Bin Lift 2.0 Controller Cabinet: 1 A Bin Lift 2.0 Motor Drive Cabinet: 5 A	Bin Lift 2.0 Controller Cabinet: 1 A Bin Lift 2.0 Motor Drive Cabinet: 5 A
Rated insulation voltage (Ui)	Bin Lift 2.0 Controller Cabinet: 300 V Bin Lift 2.0 Motor Drive Cabinet: 500 V	Bin Lift 2.0 Controller Cabinet: 300 V Bin Lift 2.0 Motor Drive Cabinet: 500 V
Rated impulse withstand voltage (Uimp)	4 kV	4 kV

Power consumption	Max. 5,700 W Average 2,000 W	Max. 5,700 W Average 2000 W
Power contact	To be connected to a power network supplied from a high or medium voltage transformer dedicated to the supply of the installation site	To be connected to a power network supplied from a high or medium voltage transformer dedicated to the supply of the installation site
Signal	Ethernet TCP/IP from ASIO to Bin Lift 2.0 Controller Cabinet. Ethercat from Bin Lift 2.0 Controller Cabinet to Bin Lift 2.0 Motor Drive Cabinet(s).	Ethernet TCP/IP from ASIO to Bin Lift 2.0 Controller Cabinet. Ethercat from Bin Lift 2.0 Controller Cabinet to Bin Lift 2.0 Motor Drive Cabinet(s)
IP class for Controller Cabinet and Motor Drive Cabinet	IP 54 (EUR)	IP 54 (EUR)
Enclosure type	12 (USA/CAN)	12 (USA/CAN)
Pollution degree	PD 3	PD 3
Inlet socket	Directly connects to mains	Directly connects to mains