



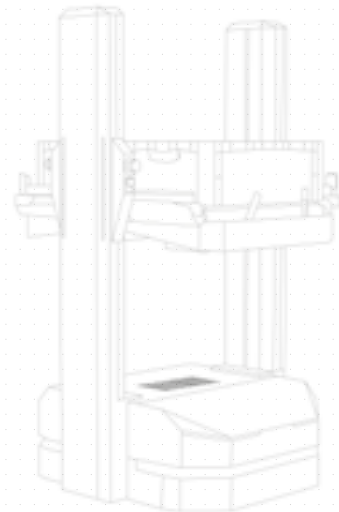
Open Shuttle

The new flexibility

Automate the increasing number of transport processes with our autonomous mobile robots, the Open Shuttles.

As an alternative or complement to classic conveyors, the Open Shuttles provide new opportunities for making your goods flow even more flexible. The autonomous transport robots move containers, cartons, trays and special load carriers around the warehouse. They are agile helpers with special features: The Open Shuttles don't require any artificial landmarks or other aids, instead they find their way using intelligent software and sensor technology. This means nothing has to be built or changed before installing the system, making Open Shuttles highly suitable for integration into existing systems. Because of their flexibility and ability to work as an intelligent swarm, autonomous mobile robots can be used for a range of tasks.

Thanks to their versatility, they distribute orders across the entire fleet in a smart and flexible way. The robots communicate constantly with one another and distribute orders as required for a particular order. This opens up new opportunities to optimize routes and transit times. Thanks to the intelligent fleet management system, it's possible to apply the right amount of transport capacity in a smart and agile way, at exactly the right time and in exactly the right place. The Open Shuttles are therefore perfectly suitable for the just-in-time supply of work stations and production lines.



Advantages

- Supports the VDA 5050 interface
- Automatic navigation and autonomous avoidance maneuvering
- Safe interaction between human and machine
- Free floors
- Intelligent management of orders and transport resources
- Flexible connection of all warehouse areas
- Easy integration into an existing system without any structural modifications
- Simple control and adaptation of the layout, processes and fleet
- Fast amortization of the investment costs through low startup costs
- Low maintenance and servicing costs
- Communication is possible with all host systems
- Efficient and autonomous energy management

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Facts and figures



	Open Shuttle (50b)		Open Shuttle (50b) with integrated width adjustment		Open Shuttle (100b)		Open Shuttle (50b) for the ASM Material Tower		Open Shuttle Fork
Max. speed in m/s (ft/s)	1.6 (5.25)		1.6 (5.25)		1.6 (5.25)		1.6 (5.25)		1 (3.28)
Load-handling device	Roller conveyor system		Roller conveyor system		Roller conveyor system		Telescopic unit for ASM Material Tower		Lifting plate
Transport objects	Containers, cartons, trays		Containers, cartons, trays, circuit board magazines		Containers, cartons, trays		Cassette for ASM Material Tower		Stillages, racks, special load carriers
Max. dimensions of transport object in mm (in)	600 x 400 (23.62 x 15.75)		600 x 400 (23.62 x 15.75)		800 x 600 (31.5 x 23.62)		Dimensions of cassette, L x W x H: 405 x 456 x 609 (15.94 x 17.95 x 23.98)		1,200 x 1,000 (47.24 x 39.37)
Max. working load in kg (lb.)	50 (110.23)		50 (110.23)		100 (220.46)		50 (110.23) (incl. weight of cassette)		1,000 (2,204.62)
Integrated lifter (extras)	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Loading and unloading height in mm (in)	550 to 1,500 (21.65 to 59.06)	500 to 1,000 (19.69 to 39.37)	550 to 1,500 (21.65 to 59.06)	500 to 1,000 (19.69 to 39.37)	550 to 1,500 (21.65 to 59.06)	500 to 1,000 (19.69 to 39.37)	550 to 1,500 (21.65 to 59.06)	650 (25.59)	0 to 130 (0 to 5.12)
Battery life in h	> 6		> 6		> 6		> 6		5
Communication	WLAN b/g/n Standard								
Configuration	Server laptop, charging station, positioning triangle, remote control								Server laptop, charging station, optical line followers, remote control
Software	Fleet manager, user interface, host interface, VDA 5050								
Installation	Carried out by KNAPP								
Extras	Light stack, location sensor, integrated lifter, blue light, side scanner						Location sensor, integrated lifter, blue light		Light stack, blue light
Accessories	Flow racks, transfer locations						Transfer locations		-



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