Dexion HDS Shuttle

DEXION | HDS SHUTTLE

Product overview

The Dexion High Density Storage (HDS) Shuttle offers high density pallet storage without the use of forklifts.

The shuttle unit travels on support rails, transporting pallets within the system by retrieving and depositing pallets, controlled by the user via remote control. The HDS Shuttle incorporates various features to ensure safe handling, high reliability and low energy consumption.

This solution makes the most use of limited space and provides high density storage for both highly active or static stocks with low SKUs. The system is scalable according to the warehouse operations, throughput and goods volume.

Key features and benefits

- Developed to provide customer-centric solution to operators
- Minimises the use of forklifts in the warehouse providing a safer environment to workers and goods
- Powered by a lithium ion battery, the shuttle can operate up to 16 hours with only 3 hours to charge which reduces operational downtime
- Spare parts can be sourced from the open market enabling easy replacement and low-cost maintenance
- Shuttle unit correctively positions itself on the rails to allow faster and efficient handling by operators
- Extensive safe handling options prevent accidents from happening
- High stock accessibility make the system excellent for FIFO or LIFO operations, or a combination of both
- Standard shuttle features provide efficient warehousing operations with option for additional upgrades if required

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Application

- Businesses that require very dense storage of finished goods and/or raw materials
- Operations with 100% stock accessibility
- Goods that require bulk or batch distribution
- Suitable for 'pack and hold' operations where pre-picking and staging is possible especially FMCG operations
- Warehouses or DCs looking to improve space utilisation and immediately increase storage capacity

Technical specifications

MODEL/SPECS	DETAILS
Number of wheels	4-wheel or 8-wheel
Unload time	4 secs
Loaded speed	50m per minute, 0.8m per second
Unloaded speed	84m per minute, 1.4m per second
Lift capacity	1,000kg, 1,500kg, 2,000KG
Battery autonomy	Up to 16 hours
Charging time	3 hours
Battery type	Lithium Ion 48V40Ah *Add ons:* Dexion Battery Power Station
Remote control type	Radio-Frequency (RF) with Wifi optional
Remote control battery	Lithium Ion
Operational temperature	-30°C to 50°C

MODEL/SPECS	DETAILS	
Safety Features	Ground stops Back stops Emergency button	*Add ons:* Collision sensors Tyne pockets Safety carriage Electromagnetic locking system Anti-tilting alarm Drop alarm
Standard Features	Single load Single unload Continuous load Continuous unload Battery meter	*Add ons:* Reshuffling Shuttle unit locator Shuttle Performance Dashboard
Spare parts	Open source (direct from vendors)	
Pallet Racking System	Speedlock MK8	
Pallet type	Wooden/Plastic	
Shuttle Dimensions (L x W x H)	1300mm x 960mm x 175mm	

Battery charger

Battery Power Station

Remote control

Contact

For more information on the Dexion HDS Shuttle, please contact us at +603 5520 6000 or email contact@dexion.com.my