







DEMATIC About Dematic

Dematic is one of the world's leading suppliers of logistics automation systems and solutions. With a global knowledge network of highly skilled logistics professionals, Dematic provides its customers a unique perspective in world class materials handling solution design.

What this means for you: Even in international projects, you have a single point of contact. Dematic takes responsibility for throughput and system uptime in logistics projects.

Compact with high rate capacity

Dematic Multishuttle[®] 2 is a highly effective system for buffering totes, cartons, trays or individual bundles. It is an efficient staging solution that provides precise load sequencing at high rates, in less space, with more operational flexibility.

Typical applications

Dematic Multishuttle® 2 is ideal for supplying product to piece pick order fulfilment modules or mixed case pallet building operations. It can also serve as a pick face replenishment solution. In addition, Dematic Multishuttle® 2 can be applied as a short term buffer storage system or as a manufacturing support subsystem for production operations.

The new generation

The Dematic Multishuttle® 2 is the second generation of shuttle technology. The all new design incorporates outstanding engineering, a flexible load extractor, halving of weight, doubling of speed, higher payload capacity, and multi-deep storage capability. Static, Flex and Belted models allow the solution to be based on the customer's unique product requirements.

The Dematic Multishuttle® 2 Flex option incorporates flexible load handling technology, enabling high performance storage and retrieval of variable carton and tote sizes and package formats, without the use of trays. The load handling device "flexes" its telescopic arms to adjust to the exact width of the load to be handled as "fingers" engage the product for transfer on and off of the shuttle.

Telescopic load extractor reaches both sides of rack

The innovative eight finger design of the load extractor and overlapping telescope arms allow for the use of only two telescopic sections to store products single, double, or multi-deep. The load capture fingers are plastic cast, carbon fibre reinforced for robust long term performance.

The Flex Shuttle minimises space between products and maximises storage density and hence minimises the cost per storage location.

Dematic Multishuttle 2 redefines warehouse logistics:

Increased throughput:	Up to 10 times higher than conventional storage systems
High utilisation:	Feeds workstations with high rates to keep workers fully utilised
Ultra-high storage density:	Supports multi-depth storage and handling of units of different sizes tightly packed without fixed storage locations. Lifts can connect work stations above and below to ensure maximum density and use of space.
More layout options:	Fits into overhead spaces, under/over obstructions, best cube utilisation
Precise sequencing:	Presents loads to pick stations or palletisers in exact sequence
Range of load types:	Flex option accommodates various load sizes
Redundancy with back-up:	Identical carriers provide duplicate service; carriers are interchangeable; work platforms in the rack aisles allow manual access to inventory and service to shuttles
Scalability:	Add more aisles, levels and lifts in future to provide more throughput



Specifications

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Operating temperatures

Freezer (optional):

Relative air humidity:

Ambient:

Designed with flexibility and efficiency in mind, the Dematic Multishuttle[®] 2 offers standard modular components and the flexibility to be scalable, especially for companies experiencing rapid growth and change in product demand profiles.

Load types Plastic tote box, cardboard carton, trays, bundles		
Load weight		
Capacity:	Up to 50 kg	
Configuration		
Multishuttle Static:	Telescopic load extractor (fixed length & width)	
Multishuttle Belted:	Belt conveyor load deck	
Multishuttle Flex:	Telescopic load extractor;	
	expands/contracts, accommodates a range of load sizes	
Load storage density		
Standard:	Single or double deep	
Optional:	Multiple deep	
Load sizes		
Tote box/Tray	mm	
Length	200 - 875	
Width	150 - 650	
Height	50 - 600	
Cartons/Packages	mm	
Length	200 - 850	
Width	150 - 625	
Height	50 - 600	
Specifications		
Electrical system:	Low voltage DC	
Load extractor:	Telescopic, two sided	
Shuttle communication:	DPC (Dematic Powerrail	
	Communication)	
Velocity driving axis:	4 m/s	
Acceleration:	2 m/s ²	

0 °C - 40 °C

Up to -30 °C (coming soon)

5% - 90%, no condensation

Benefits	
Throughput	10 x higher than conventional stacker cranes
Scalability	Extendable
Layout	Fittable to existing building
Flow	Precise load sequencing
Racking	Simple & cost effective
Energy	60 volts DC
Operator walkway	Manual access to inventory
Configuration	Captive, single/double and multi-deep





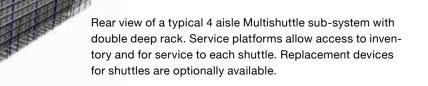
The Dematic Multishuttle® subsystem

Flexible, scalable, modular

The **Dematic Multishuttle® 2 System** consists of multiple levels of racking, shuttles, lifts, buffer conveyors, controls and Warehouse Control System Software. Each level includes input/output conveyors and a shuttle that travels horizontally to access loads stored in the rack structure, typically totes, cartons or trays. An extraction device on each shuttle accesses the loads in the rack. Since there is a shuttle captive in each aisle, on each level, ultra high throughput can be achieved. A vertical lift is utilised to bring the load to the input/output conveyor. Load sequencing occurs as loads are retrieved in the order required for the order fulfilment function.

Front view of a typical 3 aisle Multishuttle subsystem, with double deep rack. A dedicated dual lift module provides flow into and out of each of the rack levels.





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