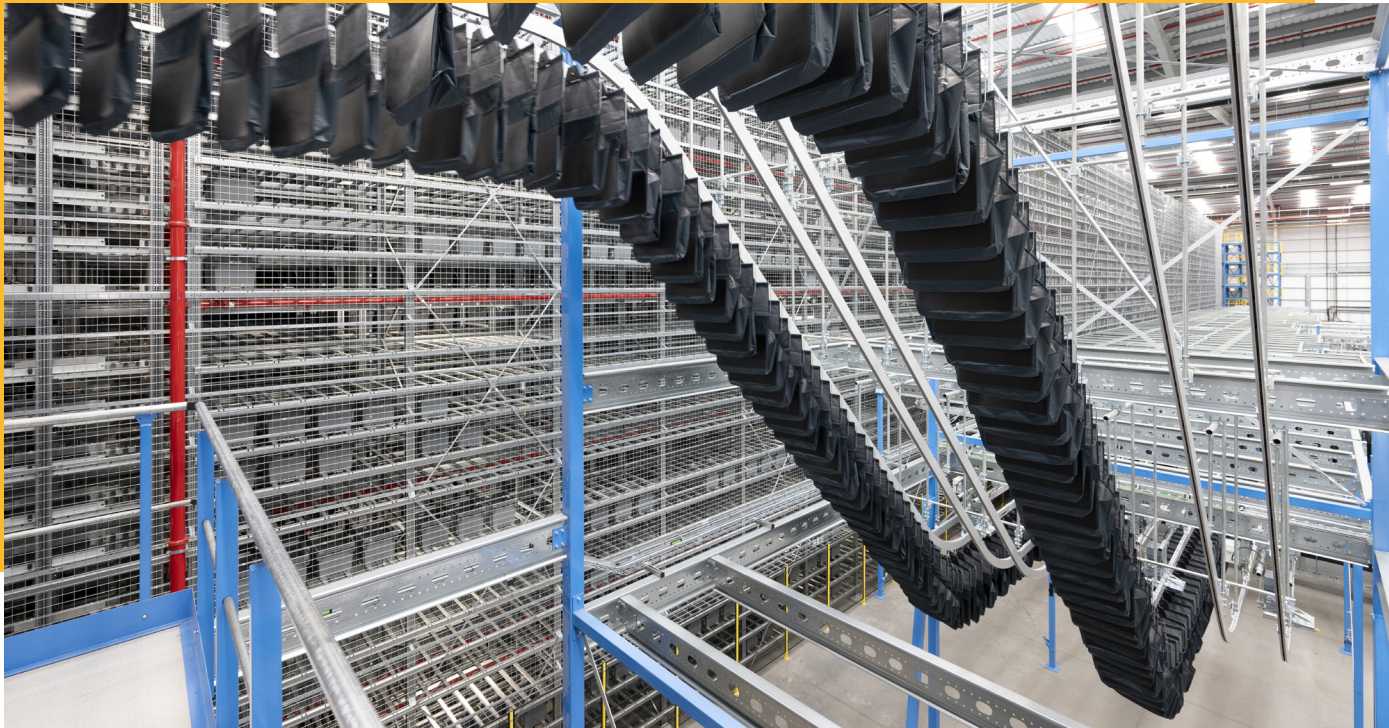


DEMATIC

Dematic Pouch Sorter System



Solving distribution and returns challenges

The market is changing rapidly and order fulfilment operations are under increasing pressure to adapt. Customers want their orders faster, labour is harder to find, and high return rates are expensive to manage.

Growth in e-commerce is fuelling the rise in omnichannel fulfilment. Retailers need a solution that supports store replenishment and direct-to-consumer orders from a single distribution centre while accommodating demand fluctuations, SKU proliferation, and changes in order profiles.

The Dematic Pouch Sorter helps you get ahead of market changes by getting orders out the door easily, quickly, and efficiently.

Designed for omni-channel operations, Dematic Pouch Sorter is a modular system that adapts easily to SKU proliferation and demand fluctuations due to pouches that can be added or left to idle depending on operational needs.

Returns processing is also seamless with Dematic Pouch Sorter. After inspection, returned items are placed into pouches and immediately available for the next order.

WHAT IS THE DEMATIC POUCH SORTER?

The Dematic Pouch Sorter is a flexible and scalable solution that can be used to temporarily store, transport, sort, and sequence individual items (eaches) in support of pure e-commerce and/or omni-channel order fulfilment operations. The sorter uses pouches suspended from rolling adapters that travel in an overhead track.

Each pouch carries a single item, either placed inside the pouch or hanging from an attached hook (used for garments on hangers, such as dresses or bulkier items like winter coats). The system transports and sorts items based on order requirements and delivers them to operators for order consolidation, value-added services, and final packaging.

STAY AHEAD OF E-COMMERCE CHALLENGES WITH DEMATIC POUCH SORTER



Meet demand for same-day/next-day delivery



Adapt to increasing order volume



Deliver directly to stores and consumers



Scale during peak season

Benefits of the Dematic Pouch Sorter

The Dematic Pouch Sorter can handle a wide range of order profiles in one solution – from small e-commerce orders to large retail orders:

- **Shorter cycle times**
Powered by intelligent Dematic Software, Dematic Pouch Sorter prioritises and processes urgent orders, eliminating the need for wave planning and multistage sortation.
- **Store-friendly fulfilment**
Items can be sorted for delivery in aisle-friendly sequence or any desired arrangement (i.e. size, colour) to retail locations, taking costs, time, complexity, and mistakes out of restocking.
- **Easy handling of demand variations and volume growth**
Save energy and labour with Dematic Pouch Sorter's modular and flexible design. You can easily adjust throughput to match actual volume demands and reduce unnecessary capacity. New modules can easily be added to existing systems to accommodate changing business conditions and growth in volume.

Layout flexibility and reduced footprint:

- **Greenfield or brownfield**
Dematic Pouch Sorter can be implemented in new or existing facilities and can accommodate any layout or specific building needs.
- **Reduced footprint**
Dematic Pouch Sorter takes advantage of unused overhead space, making it ideal for space-constrained operations or areas with very expensive real estate.

Easy integration:

- **Automated or static inventory**
Dematic Pouch Sorter can easily integrate with an automated or a static inventory system, making it suitable for a wide range of applications.
- **Integrated returns processing**
Once returned items are ready for resale, they are simply placed into pouches, making them immediately accessible for new orders.



USE CASES

- High-volume e-commerce picking operations
- Garments on hanger (less than 3 kg)
- DCs with space constraints or odd layouts
- High seasonal peaks (e. g. Black Friday, Christmas)
- High returns volumes (online apparel return rates can be greater than 50%)
- Same-day or next-day delivery

What differentiates the Dematic Pouch Sorter?

IMPROVED WORK ENVIRONMENT

Dematic Pouch Sorter is an operator-friendly system with noise reduction components and ergonomic design. These details can make a significant impact on worker satisfaction, morale, and performance.

INDUSTRY APPLICATIONS

The Dematic Pouch Sorter can handle a wide range of product shapes and sizes, from a pen to a shoe box to a high-fashion dress:

- **Fashion industry**
Dematic Pouch Sorter is the ideal solution for the fashion industry, where hanging and flat items are frequently combined in one order.
- **General merchandise**
Dematic Pouch Sorter is the ideal solution for general merchandise, which processes products of varying sizes, shapes, and weight.

REDUCED MAINTENANCE AND OPERATING COSTS

- Maintenance on a plastic chain is faster and easier than on a metal chain. Neither oil nor tensioning are necessary, reducing preventive maintenance time. If the chain breaks, it's easy to replace small segments.
- The lack of oil means the workplace is cleaner, which is more pleasant for employees and reduces the possibility of product damage.
- A plastic and rolling friction chain uses less energy thanks to the lower weight and lower friction.
- The multiple friction drives work in parallel on a chain loop, assuring high system availability, reduced maintenance, and low noise.
- The Pouch Sorter's frequency inverter drives allow quick commissioning and a high level of system control via computer.



Solution description

The Dematic Pouch Sorter is a flexible sortation system that consists of pouches suspended from rolling adapters running in a track. Each pouch carries a single item, which can be identified by the radio frequency identification (RFID) tag. Items of various types can be inducted into the pouches. These include folded garments, shoe boxes, accessories, books, and general merchandise.

Garments on hangers and items that do not fit in the pouch can be suspended from a built-in hook. All articles can be inducted into and temporarily stored in a single system. The Dematic Pouch Sorter then sorts, sequences, and delivers those pouches and hanging items to the packaging station for consolidation and further processing.

A typical system includes loading, buffering, transport, sortation, and packing areas on one or more levels. The layout can be configured to fit nearly any space.

The modular design of the Dematic Pouch Sorter supports the easy handling of demand variations (e. g. Black Friday, Cyber Monday, Christmas) without sacrificing productivity. When demand is low, it is simple to idle unnecessary capacity.

The rail structure extends throughout the DC and is easily elevated to take advantage of otherwise unused vertical space.



The Dematic Pouch Sorter offers a simple and clear workflow from loading to pack stations:

- Unique carrier equipped with RF-tags for a secure trace in the system.
- At the loading stations, the item is dropped into its pouch.
- Once the item is in the pouch, it is not touched again until it is packed for shipping.
- Sequenced delivery to pack stations is possible, with the option to display pouch content on the screen in text or product picture format.

Once an item is inducted into a pouch or onto the hook, it takes only a short time for it to be delivered to the operator at the packing station.

It's easy for an operator to combine discrete elements of an order and to fulfil both retail and e-commerce orders at one station. Regardless of the number of items in an order, the operator pulls the items out of the pouches or takes them off the hook and packs them. And because the items are delivered to the operator from overhead, there is plenty of working space for the operator to perform other value-added services.



Features & functions

Loading

- Items are loaded into the pouch manually or via a belt.
- Garments on hangers are attached outside the pouch.
- Option to attach oversize items in dedicated bags.

Buffering

- Long loops (up to 100 m / 110 yd) that hold inducted inventory and circulate continuously.
- The inventory can consist of newly picked items needed to fulfil orders or returned items that have been inducted back into the system.
- Pre-picked items to fill foreseen sales volume can also be buffered.
- Inducted returned items can stay in the buffer until sold or be sorted down to SKU level for processing back into the storage systems.

Specifications

- Item dimensions up to 500 x 400 x 160 mm and 3 kg weight (19.70" x 15.75" x 6.30" and 6.6lbs)

Transport

- Transport, divert, and merge product effortlessly from various areas of the warehouse.
- Route items easily and quickly through even the most complex warehouse layouts.
- Transport and sort irregularly shaped items that cannot go onto traditional conveyors and sorters.

Sortation

- Sort and sequence items.
- Incorporate both wave and waveless order fulfilment strategies so you can meet your customers' demands efficiently.

Packing

- Items are removed from the pouches and packed into final orders.
- Easy integration of value-added services (VAS).



DEMATIC SERVICES

Dematic offers comprehensive 24/7 remote support services to ensure you get help you need when you need it. You can chat with Dematic Customer Service from your mobile device, share audio and video while working on the issue, and communicate easily to troubleshoot problems quickly.



Power the Future of Commerce



Dematic is the global leader in materials handling systems, supply chain technology, and innovation. From intelligent software systems to robotic warehouse automation, we deliver operational efficiency with a suite of intralogistics systems for unparalleled performance. Dematic is here to empower partnerships, advance your supply chain, and revolutionise logistics.

Your Ambition. Our Mission.



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