DFT.



SMART SORTING SOLUTIONS

Sorting redefined

dft.knapp.com

EN

DFT.

DFT – Dürkopp Fördertechnik GmbH is a global leader in highly automated sorting systems for hanging and flat goods. With strong focus on e-commerce and the fashion and retail industries, DFT delivers customized solutions in intralogistics.

The company, located in Bielefeld (Germany) and currently employing more than 550 people, was founded in 1954 as a division of the Bielefeld-based Dürkoppwerke. Since the spin-off as an independent company in 1995 and the akquisition by the KNAPP Group in 2010, DFT has established itself with high-quality overhead conveyor technology and sorting solutions and as a leading supplier in the fashion industry.

DFT provides integrated solutions and services for industries such as fashion, retail, pharmaceuticals and electronics. The innovations include the AutoPocket®, a hanging transport bag with automatic opening and closing functions, and a portfolio of flat-good sorters developed based on customer requirements. With a strong sustainability and customer centric focus, DFT is committed to long-term customer relationships and the highest quality in intralogistics.

120+ Brands: Over 120 well-known brands worldwide trust in the technology and expertise of DFT to manage their logistical challenges.

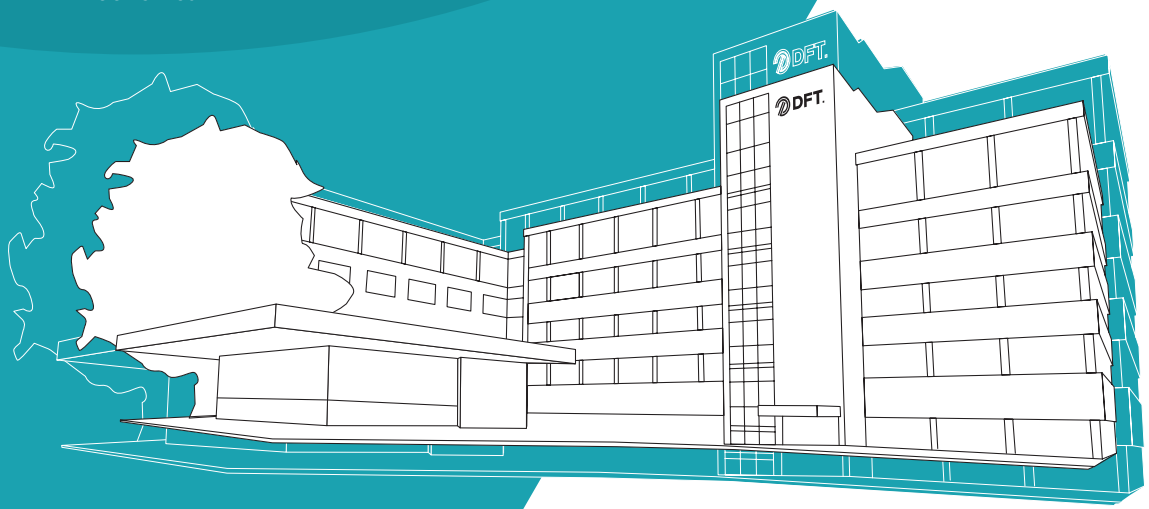
340+ Distribution Centers: DFT has successfully established more than 340 distribution centers worldwide, supporting the efficient warehouse and shipping logistics of its customers.

Business applications

- Intralogistics
- Logistics automation
- Sequencing and sorting systems for warehouse distribution
- Shipping sortation for e-Commerce and store delivery
- Returns management

Industries

- Fashion
- Retail
- Wholesale
- Pharmaceuticals / Cosmetics
- Parcel & Post
- Electronics



Individual Solutions for your Sorting Requirements

Automated sorting systems play a central role in modern material handling systems in intralogistics. They are used to sort parcels, ordered goods, or production materials efficiently and reliably and transport them to different destinations.

Our DFT Sorter solutions are designed to ensure your logistics processes operate seamlessly and at high speed. They are optimized for e-Commerce, pharmaceuticals, parcel and other industries.

We offer a comprehensive portfolio of sorters to meet diverse requirements. The Split Tray Sorter impresses with its simplicity and high sorting performance across different product sizes and shapes. With the Push Tray Sorter, available in horizontal and vertical configurations, you can achieve a high sorting capacity with minimal space requirements while utilizing energy-efficient technology. The Cross Belt Sorter provides maximum performance while sorting packages of different sizes and shapes. Finally, the AutoPocket® Sorter offers precise and gentle sorting of small to medium-sized items with high storage density and a space-saving design.

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MADE IN GERMANY

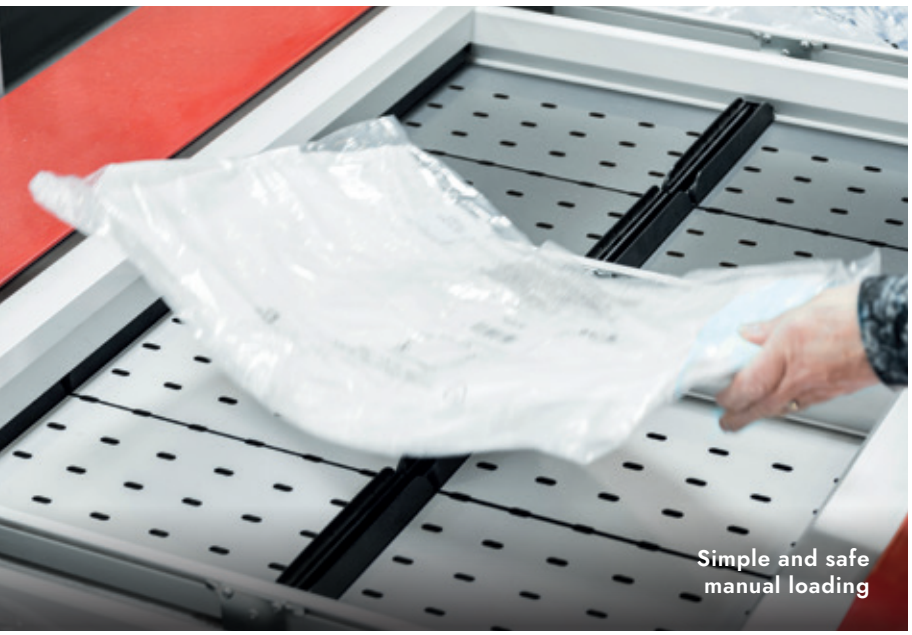
DURABLE

ERGONOMIC

SIMPLE



High-performance system solution



Simple and safe manual loading



Highest accuracy

Split Tray Sorter

High Sorting Performance with Low Complexity

Our Split Tray Sorter, developed over 40 years ago, was designed to sort flat items such as textiles, books or pharmaceutical products as simply, quickly and accurately as possible. Our modular concept, while constantly being refined, is based on standard components. This means that very flexible and even three-dimensional layouts can be delivered where space is limited. The sorter offers low operating costs, thanks to its high energy efficiency and low maintenance requirements with a manageable initial investment.

The goods to be sorted can be loaded automatically or manually thanks to the moderate sorter speed. Products are identified with a barcode by scanning them directly on the sorter. At the designated target, the tray opens, releasing the product into a container, carton, or chute.

In order to achieve the highest possible sorting performance with different product sizes, different tray sizes with single or double trays are available. Items of different sizes can be loaded at any time on the sorter.

AT A GLANCE

Performance

Product sizes

Noise level

Process

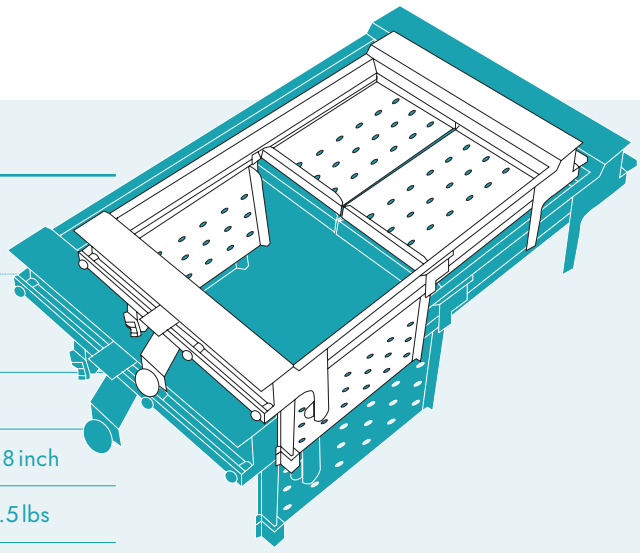
Item sorting

Outgoing goods sorting

TECHNICAL DATA

Capacity	**Single Tray** 9,975 trays/h **1** Loading area single tray 19,950 trays/h* **2** Loading areas single tray **Double Tray** 19,950 trays/h **1** Loading area single tray 39,900 trays/h* **2** Loading areas single tray
Speed	up to 1.33 m/s
Max. product size (L × W × H)	760 × 380 × 250 mm / 29.9 × 14.9 × 9.8 inch
Weight	min. 0.05 kg / 0.1 lbs | max. 7.5 kg / 16.5 lbs
Tray size (L × W)	600 × 400 mm / 23.6 × 15.7 inch **Single or Double Tray** 800 × 400 mm / 31.5 × 15.7 inch **Double Tray** 600 × 600 mm / 23.6 × 23.6 inch **Single Tray**
Product infeed	manual or automatic

* Configured as 2 virtual sorters at maximum speed, performance may vary due to system configuration



Link to website:
www.duerkopp.com/en/split-tray-sorter

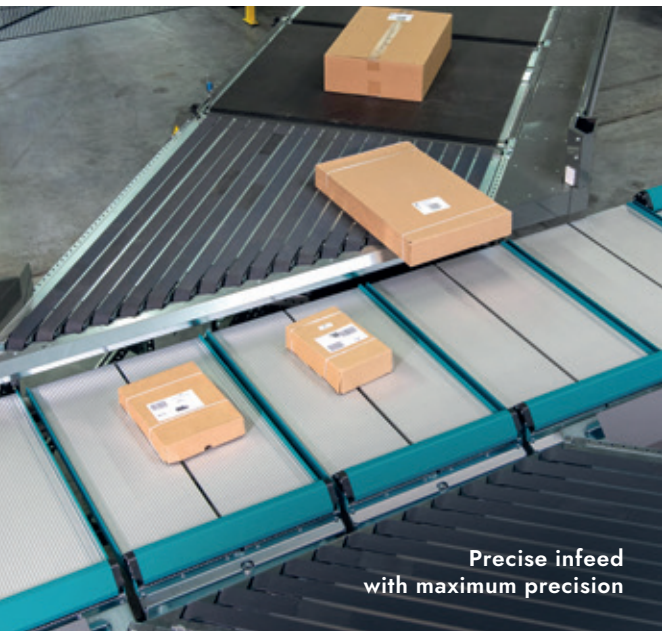
FLEXIBLE

ROBUST

EASY TO MAINTAIN



Modular design for flexible layout



Precise infeed with maximum precision



Gentle product unloading

Push Tray Sorter horizontal

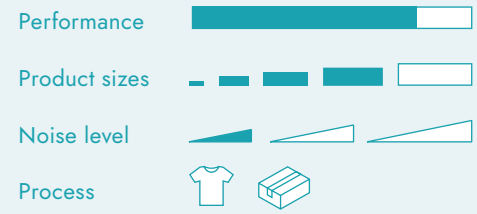
Flexibility at the Highest Level

The horizontal Push Tray Sorter is the ideal solution for efficient and gentle sorting of a wide range of products. It seamlessly handles small to large and light to heavy items of various shapes. Thanks to the innovative push technology, items are sorted safely and reliable. The use of inclines and declines allows nearly any layout.

The modular design enables short implementation times as well as simple, fast and reliable adaptation or expansion of the system as requirements change. For maximum flexibility, three different tray sizes are available, so that the perfect solution can be designed for each project. Sort destinations are available in a wide variety of shapes, which can be added on both sides of the sorter.

Thanks to its drive concept, the Push Tray Sorter has a low energy consumption. The holistic development strategy results in minimal maintenance requirements and reduced operating costs. These features make the horizontal Push Tray Sorter a future-proof investment for a wide range of distribution applications.

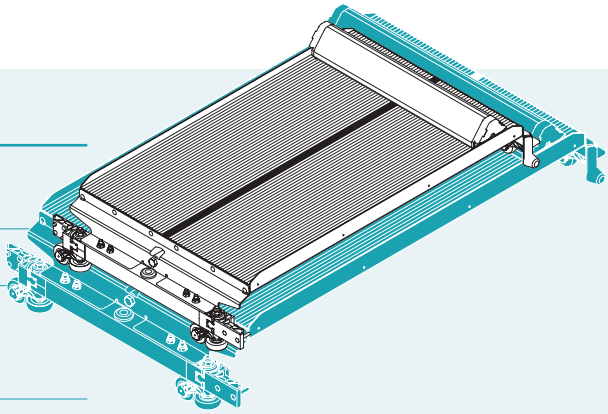
AT A GLANCE



TECHNICAL DATA

Capacity	9,640 trays/h 1 Loading area 19,280 trays/h* 2 Loading areas
Speed	up to 1.2 m/s
Max. product size (L × W)	645 × 335 mm / 25.3 × 13.1 inch** S-Tray 635 × 445 mm / 25 × 17.5 inch** M-Tray 625 × 635 mm / 24.6 × 25 inch** L-Tray
Weight	Min. 0.1 kg / 0.2 lbs | Max. 31.5 kg / 69.4 lbs
Tray size (L × W)	670 × 420 mm / 26.3 × 16.5 inch S-Tray 670 × 530 mm / 26.3 × 20.8 inch M-Tray 670 × 716 mm / 26.3 × 28.1 inch L-Tray
Product infeed	semi-automatic, fully automatic or manual

* Configured as 2 virtual sorters at maximum speed, performance may vary due to system configuration
** Maximum height for automatic scanning 450 mm / 17,7 inch



Link to website:
www.duerkopp.com/en/push-tray-sorter-horizontal

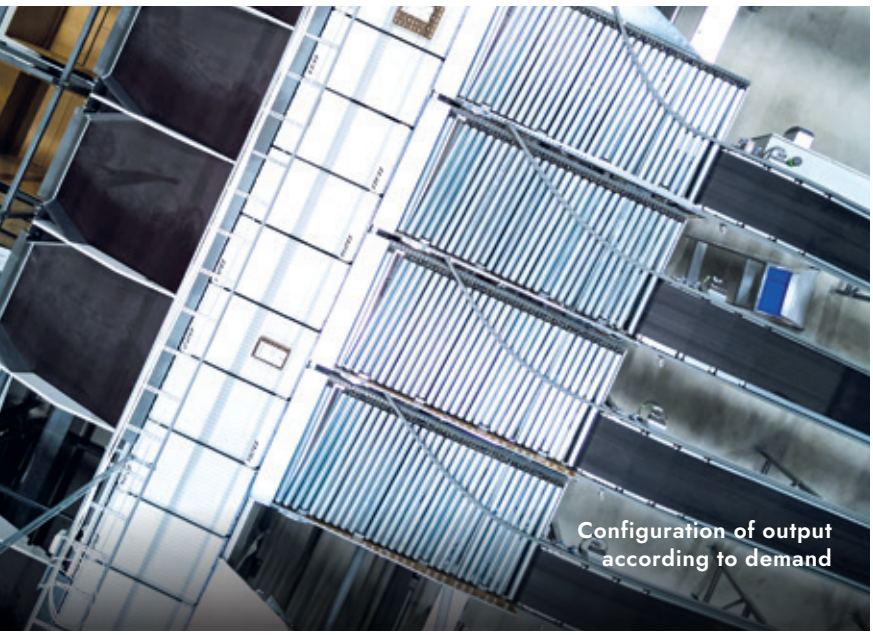
RELIABLE

ECONOMICAL

MODULAR



Space-saving
high-performance sorting



Configuration of output
according to demand



Precise
product infeed

Push Tray Sorter vertical

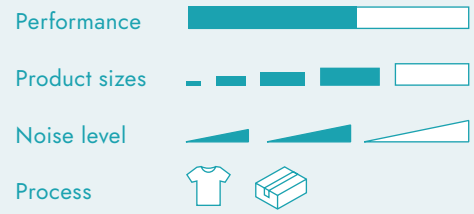
Maximum performance in Limited Space

The vertical design of the Push Tray Sorter enables the best sorting results in a limited space with the ability to sort to both sides. Items with different weights and characteristics can be sorted simultaneously across all destinations in a single process step. It effortlessly handles small to large and light to heavy items of various shapes. Thanks to the innovative push technology, items are sorted safely and reliable.

The close technological similarities to the horizontal push tray allow the use of the same components. This, along with its modular design, was a central focus during development. This approach ensures that, regardless of the shape, the technological standard of the product is guaranteed at all times and allows quick, easy and cost-effective maintenance.

These advantages make the vertical Push Tray Sorter an ideal solution for companies seeking an efficient and flexible sorting solution where space is limited.

AT A GLANCE



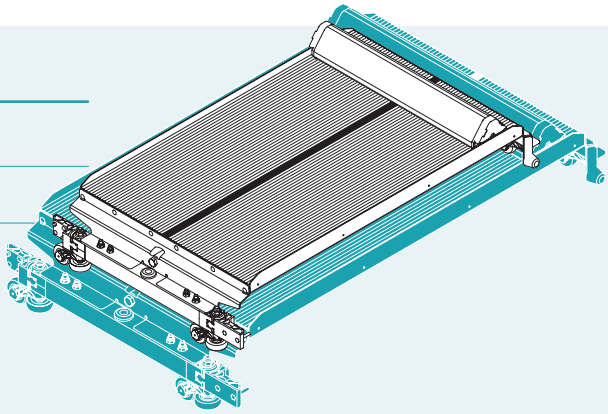
Item sorting

Outgoing goods sorting

TECHNICAL DATA

Capacity	9,640 trays/h
Speed	up to 1.2 m/s
Max. product size (L × W)	**Single Tray** 635 × 315 mm / 25 × 12.4 inch* **S-Tray** 625 × 425 mm / 24.6 × 16.7 inch* **M-Tray** **Double Tray** 620 × 790 mm / 24.4 × 31.1 inch* **S-Tray** 620 × 800 mm / 24.4 × 31.4 inch* **M-Tray**
Weight	Min. 0.1 kg / 0.2 lbs | Max. 31.5 kg / 69.4 lbs
Tray size (L × W)	670 × 420 mm / 26.3 × 16.5 inch **S-Tray** 670 × 530 mm / 26.3 × 20.8 inch **M-Tray**
Product infeed	automatic

* Maximum height for automatic scanning 450 mm / 17.7 inch



Link to website:
www.duerkopp.com/en/push-tray-sorter-vertical

POWERFUL
VERSATILE
INTEGRABLE



The configuration
for maximum performance



Standard components for
maximum availability



Precise product transport

Cross Belt Sorter

Maximum Reliability for Complex Requirements

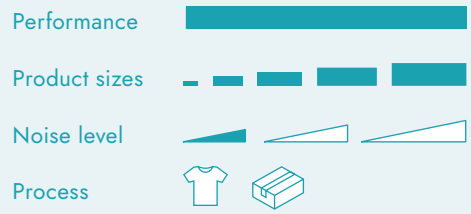
At a time when the quantity and variety of products in distribution centers is increasing and the demand for the fastest possible sorting of these products is growing, our Cross Belt Sorter is the ideal solution to meet these challenges.

The system is based on proven components delivered by DFT. The design with inclines and declines and curves on both sides allows an extremely flexible, three-dimensional configuration of the Cross Belt Sorter.

The belts, positioned at right angles to the transport direction, are used to pick up and unload a wide variety of items with different surfaces, sizes and weights - from clothing in plastic bags to heavy parcels. This Cross Belt technology ensures gentle transport and precise infeed and outfeed of the items, minimizing damage and maintaining the quality of the sorted products.

Equipped with a patented intelligent energy management and communication system, the sorter offers a high level of reliability in combination with minimal downtimes, even during maintenance, and is characterized by its economical use of resources.

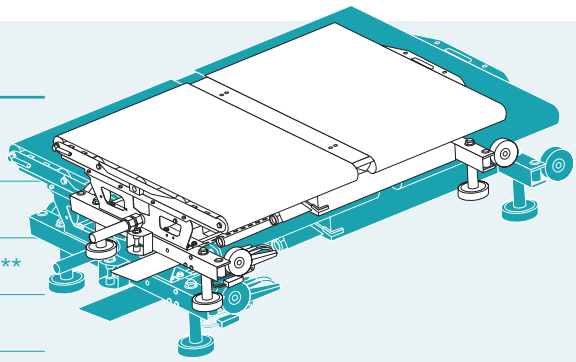
AT A GLANCE



TECHNICAL DATA

Capacity	15,650 carrier/h **1** Loading area 31,300 carrier/h* **2** Loading areas
Speed	up to 2.5 m/s
Max. product size (L × W × H)	950 × 650 × 650 mm / 37.4 × 25.5 × 25.5 inch**
Weight	min. 0.1 kg / 0.2 lbs | max. 50 kg / 110.2 lbs**
Single Cross Belt Size (L × W)	450 × 750 mm / 17.7 × 29.5 inch*** 600 × 1000 mm / 23.6 × 39.4 inch*** 450 x 1300 mm / 17.7 x 51.1 inch***
Product infeed	semi-automatic or fully automatic

* Configuration as 2 virtual sorters at maximum speed, performance may vary due to system configuration
** when double carriers are used *** 2 Cross Belt per carrier

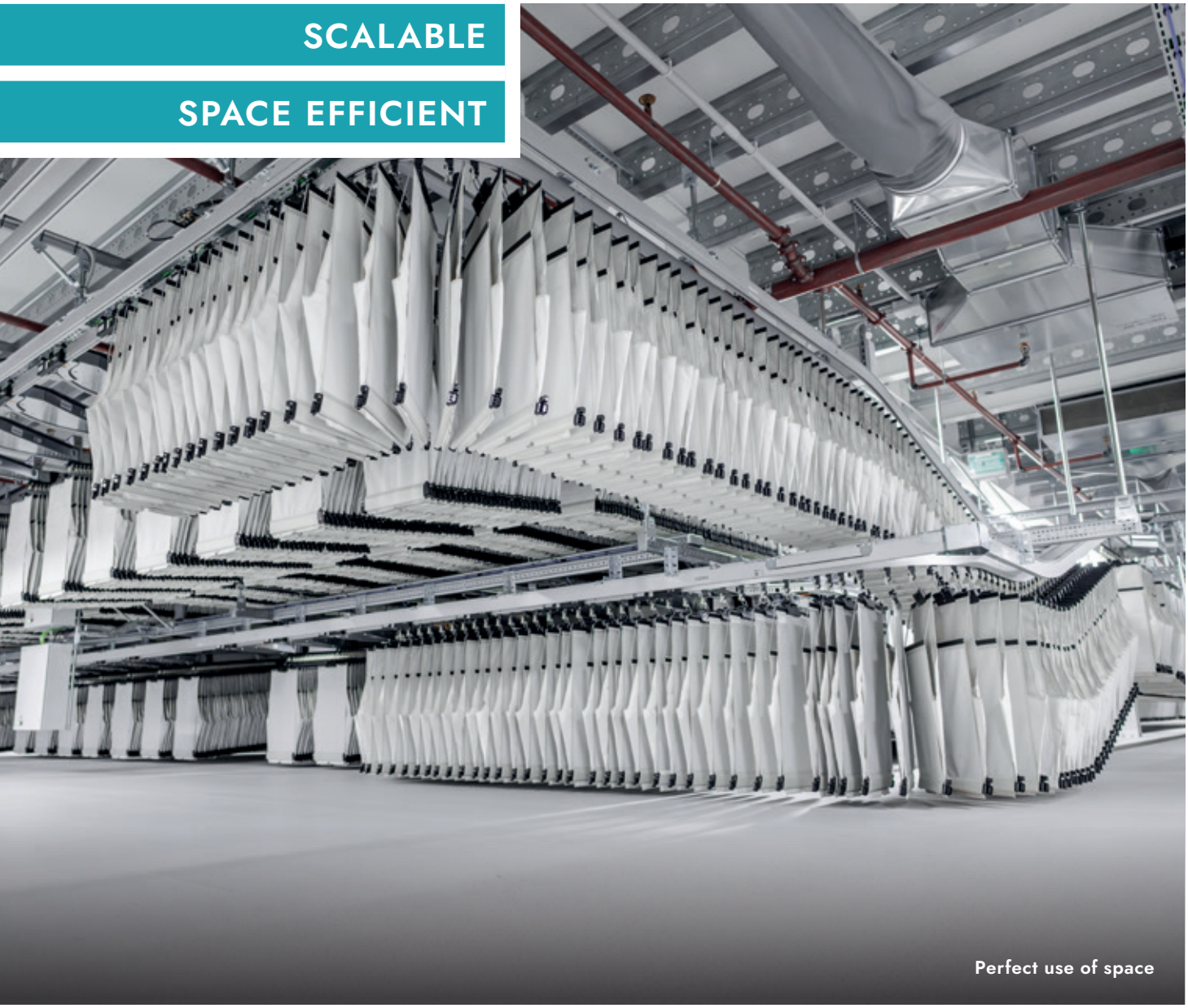


Link to website:
www.duerkopp.com/en/cross-belt-sorter

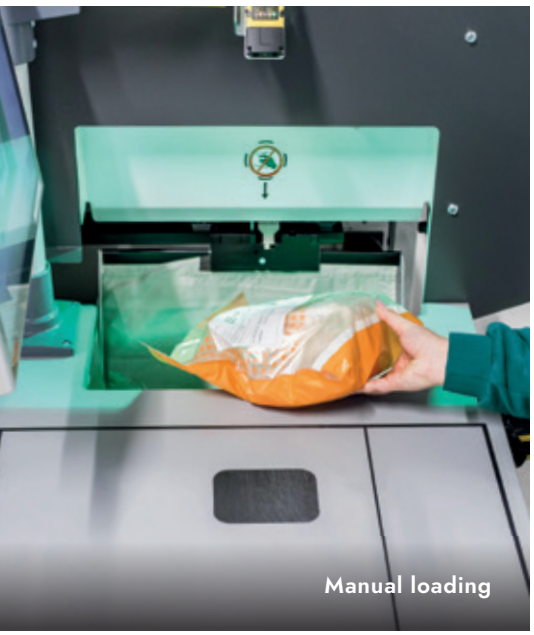
EXPANDABLE

SCALABLE

SPACE EFFICIENT



Perfect use of space



Manual loading



Automatic unloading



Gentle product unloading

AutoPocket®

High-Performance Sorting with optional Buffer

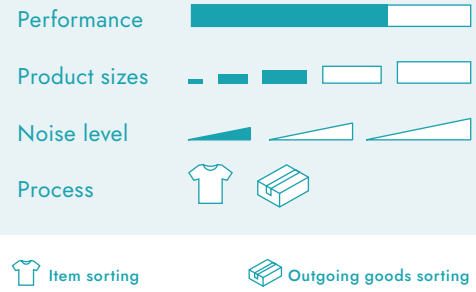
The innovative AutoPocket® system from DFT automates sorting and sequencing processes for a wide range of applications.

Whether inbound goods sortation, e-Commerce processing, store delivery or outbound sortation, all these processes can be performed by the AutoPocket®. With modular components, the AutoPocket® system enables flexible automation of distribution processes tailored to the application.

The option of automatic or manual loading and automatic unloading of items minimizes manual effort throughout the entire process. The ability to open and unload the AutoPocket® while moving at full speed opens up completely new possibilities for automation.

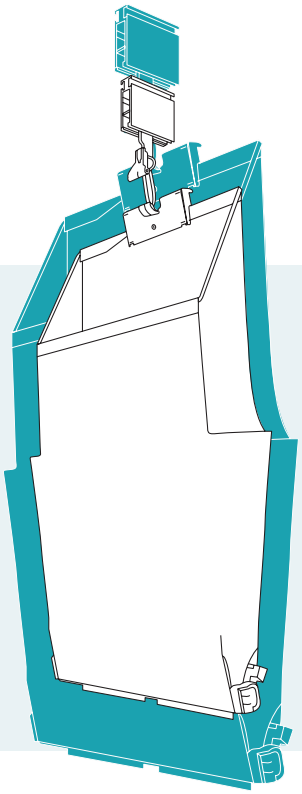
The optional dynamic buffer enhances efficiency of returns handling and enables predictive picking. These items can be loaded directly into the AutoPocket® and remain in the buffer until they are needed so that they can then be automatically married with the rest of the order.

AT A GLANCE

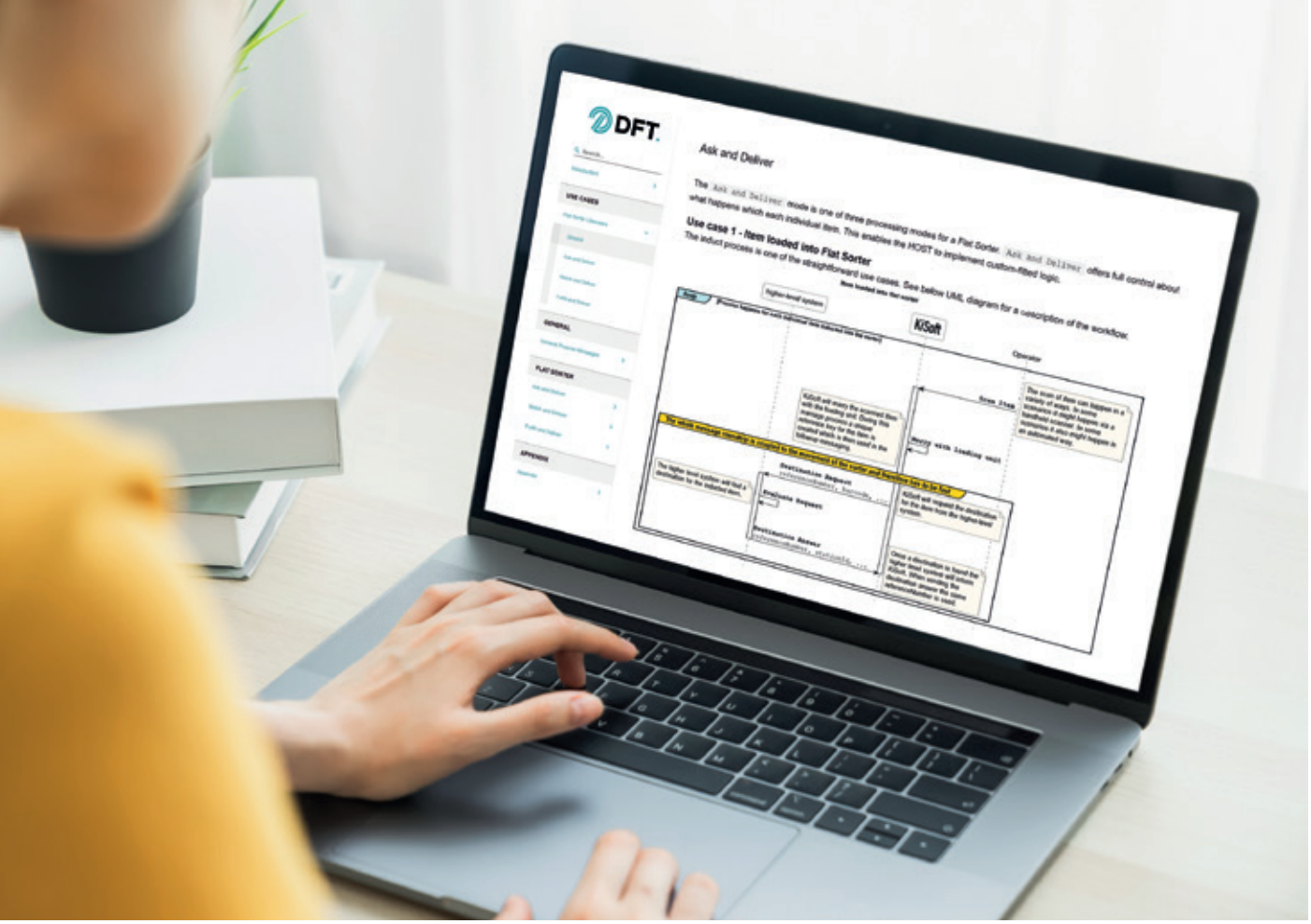


TECHNICAL DATA

Capacity	7,500–12,000 pockets/h system rate 10,000–15,000 pockets/h component rate
Speed	0.5 m/s
Max. product size (L × W × H)	600 × 400 × 150 mm / 23.6 × 15.7 × 5.9 inch
Weight	min. 0.005 kg / 0.01 lbs | max. 3 kg / 6.6 lbs
Size AutoPocket® (L × W)	700 × 620 mm / 27.5 × 24.4 inch
Product infeed	manual or automatic



Link to website:
www.duerkopp.com/en/autopocket-sorter



API Interface

Simple and Fast Integration

Efficient project planning and the seamless integration of DFT sorters are key factors for the fast implementation of a successful distribution projects for our customers.

The sorters are supplied with an API interface in the OpenAPI standard, enabling customers to easily connect their software environment with our products. This interface forms the bridge between a description that can be understood by humans and the standard that can be read by machines. Thanks to clear and detailed documentation, integration can be completed quickly, so that minimal time is required to complete the core processes.

Our API interface is the ideal solution for anyone who wants to optimize their distribution processes and make them more efficient. With low integration requirements, full documentation with numerous examples and visual support through flowcharts, the required result can be achieved in a short time. Thanks to the option of direct code generation and support for JSON and XML, implementation is easy and fast.

Detailed documentation and examples
The API interface contains numerous examples and flowcharts to help our customers get started. These examples show step by step how it can be used to efficiently control the sorter.

An interface that grows with your warehouse
With our API interface, you can not only control your sorter, you can also plan the future expansion of your warehouse. Our interface grows with your requirements.

API Interface Download:
www.duerkopp.com/flat-sorter-api

Customized Branding

Our Product becomes your Solution

We provide the option to personalize your sorter system with your brand color and logo. This ensures that your system perfectly matches your corporate identity and that your brand is presented in the best possible way.

Choose your specific corporate color for your system when you place your order. Individual components of the system will then be finished in that color during production.

Add your logo to the system design. It is possible to add your logo to the system. Using advanced laser technology, we apply your logo onto selected components during production. This unique customization connects the system to your brand, enhancing both visibility and brand identity.

Individualize your system with your brand details, whether as a company or integrator, and increase the visibility in a sorting system with a life span of over 20 years.



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