DEMATIC

AutoStore

Cube storage Empowered by Dematic

The future is today

It's not future technology any more. It's here today. We live in an exciting and constantly changing world. Technological evolution has clearly affected our way of living, working and consuming. And in this context, needs have changed, as have the demands of consumers. Because we want it all and we want it now.

So, welcome to the age of immediacy. Consciously or not, we expect to get the products or services we order in the shortest possible time. And in this, as in almost everything, being first is an advantage. That is why, now more than ever, transforming warehousing and logistics systems is a key factor in adapting to the reality of a faster and more impatient market.

Being efficient in terms of time, space, resources and energy is possible. AutoStore™ offers you a new way of imagining storage that goes beyond what you have known so far. And you no longer have to wait for tomorrow to access this technology. Because the future is today. Are you ready to be part of it?

AutoStore is an ultra-compact Goods-to-Person warehousing and order-preparation system that can increase picking efficiency with maximum flexibility and scalability.

Ideal for:

· High volume of SKUs
· Small parts and items
· Orders of a few units
· High-value products
· Limited or obstructed space
· Businesses with high growth rates

Main Applications:

· E-Commerce
· Fashion and sporting goods
· Electronic components
· Spares and parts
· Health and beauty products

Optimisation of your warehouse space

AutoStore optimises storage density to its maximum capacity, enabling the inventory to be quadrupled in the same space compared to conventional systems, or even doubled in the case of other Goods-to-Person systems.

Grows with your business

The AutoStore system and configuration provides ample flexibility to adapt to your business needs, allowing you to easily increase performance by adding more robots, increasing storage locations or adding new workstations, all without having to bring the system to a standstill.

Maximum security

Thanks to its ultra-compact system, products stored in AutoStore are completely secure, making them inaccessible until the order is placed, thereby minimising losses of stock. System security can be increased through procedures such as third-party encryption or fingerprint scanners.
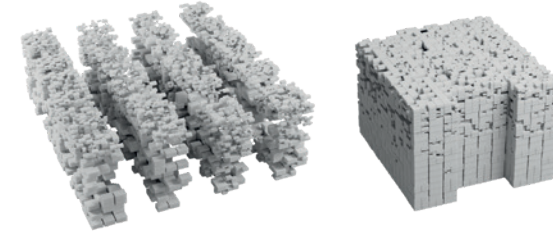
Low energy consumption

AutoStorerobots are so energy-efficient that the power consumed by 10 robots is equivalent to that of a conventional vacuum cleaner. They have onboard energy regeneration systems and only recharge at optimal times, to prevent overcharging or slowing the operation.

Ultra-Compact

Thanks to its simple modular and compact design, AutoStore optimises your space to allow for up to four times as much inventory in the same available space.

Automatic Reorganisation

The system automatically relocates references based on demand. In this way, products with the highest demand are located at the top, speeding up the order preparation process.

Flexibility

AutoStore is the most flexible automated solution on the market as it can be adapted to the needs of your business without having to bring the system to a standstill.
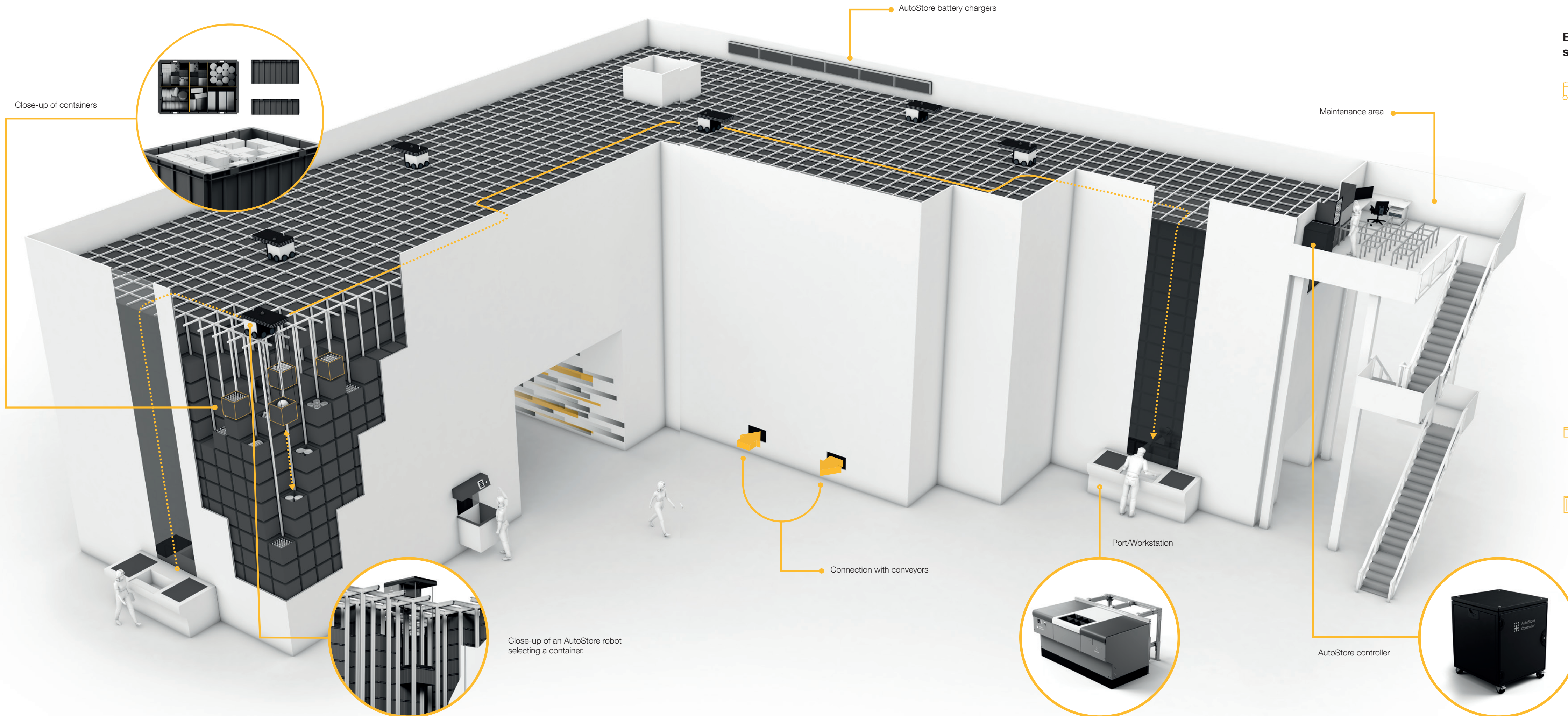
Simplicity

Its modular system is based on standardised components that provide high reliability and easy maintenance.

Eficiencia

Operators receive the correct products all together at a single workstation without having to move themselves. Instead, all the containers move around freely throughout the system.

Energy saving

AutoStore robots require very little power to operate, providing energy savings and high durability.

Speed

Its innovative technology means that orders can be prepared quickly and efficiently, allowing robots to access up to four containers in one minute.

Reliability

Because of its modular nature, AutoStore provides redundancy: the failure of one element does not affect the availability of the system, which has a global average of 99.6%.

Close-up of containers

AutoStore battery chargers

Maintenance area

Port/Workstation

Connection with conveyors

Close-up of an AutoStore robot selecting a container.

AutoStore controller

Efficiency, safety, and space-saving in just five modules.

AutoStore robots move throughout the grid, relocating and managing the transportation of containers to workstations. Each robot has a battery and communicates wirelessly. Charging is done by opportunity, using the chargers distributed on the walls of the structure.

The grid is the aluminum structure divided into rectangular cells where the containers are stored. The robots move around on its surface.

It can adapt to any shape or obstacle, such as columns, and to different heights. The maximum height of the structure is 5.4 metres.

The controller keeps track of everything that happens in the system. This module is the control centre and manages both traffic and the AutoStoredatabase.

Located in the maintenance area where there are work areas to check the robots and where there is controlled access to the interior of the grid. Robots perform preventive self-diagnosis and move automatically to the maintenance area as required.

Operators perform intake of the products or receive them for preparation at workstations (ports). There are several types of workstations with different configurations or connections, with custom modules depending on each need.

AutoStore stores products in specific heavy-duty containers (up to 30 kg per container) that can be stacked up to 24 units high. In addition, different references can be stored in up to 32 compartments to increase the number of SKUs and the inventory density.

The base of the containers measures 650 x 450 mm and there are various heights.

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Power the Future of Commerce

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