

Körber Supply Chain

# Attabotics

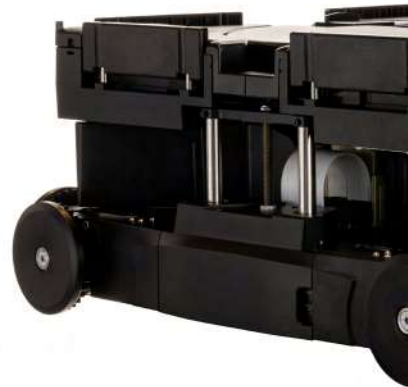
The 3D cube storage solution  
combining highest density  
and performance

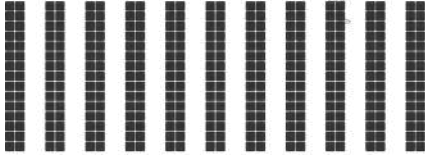
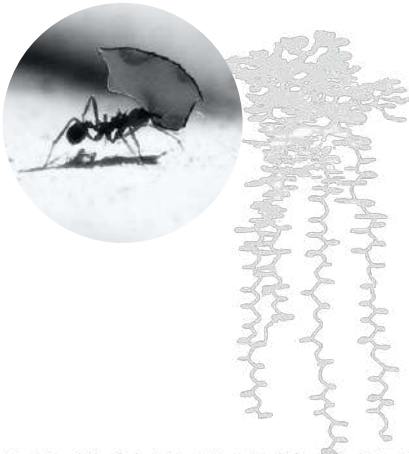


# A highest density and performance 3D solution to overcome supply chain challenges

Companies with fulfillment operations face increasingly complex challenges. As businesses rapidly grow, customers' requirements are also getting more and more difficult to match. On top of that, there is a prevalent labor shortage, common to most industries.

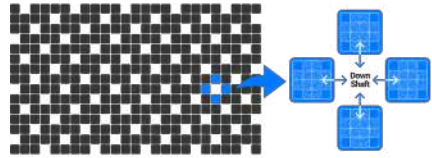
**Körber Supply Chain Automation has partnered with Attabotics to provide a cutting-edge order fulfillment solution for your operations.**





## Inspired by Nature

The Attabotics solution is based on a unique vertical Grid structure inspired by nature. “I had this crazy idea of reconfiguring warehouse space after watching a documentary about how leaf cutter ants access their colonies vertically. A 3D system just makes sense”, says Scott Gravelle, CEO and founder of Attabotics.



## Attabot Blade – the Robot

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Attabots Blades can travel the Grid in all **3 dimensions**

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Each Robot has **access to every Bin** and to **every workstation**

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Speed is up to **2.7 m/s**

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Payload max is **45.5 kg** per Bin

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The Robots are **powered by long-life ultra capacitors** and are **charged** at each cycle, **whilst climbing**



# A truly unique solution for single-item order fulfillment

**The innovative vertical Grid structure has allowed Attabotics to create a solution that is the perfect fit for single-item fulfillment.**

Attabotics' Robots can travel in all 3 dimensions through the Grid - horizontally on top of it, vertically through the storage levels, and again horizontally on the transport level below to the workstations. Robots have direct access to each Bin without the need for reshuffling, making the system's performance independent of the order structure. There is also no dependency on a specific ABC curve in your assortment as with other cube storage solutions.

Furthermore, the Attabotics solution can handle rush orders and short order-lead times with ease, since bins arrive at the workstation within 90 seconds of the request.

The unique combination of highest storage density and performance makes the Attabotics system the ideal core system of Micro Fulfillment Centers (MFC's).

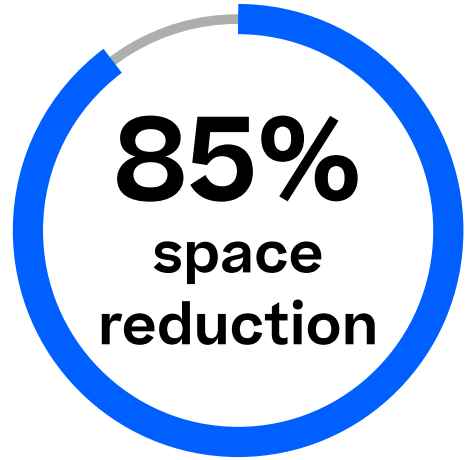
Sequencing is a task often required in fulfillment operations, whenever orders are small or items need to be packed into cartons in a specific sequence to prevent damage. The Attabotics solution provides sequencing by leveraging on short retrieval times in combination with intelligent use of the space below the storage area.



## Class-leading storage density

With growing assortments, warehouse space can definitely be an issue. The Attabotics Grid can be built up to 9 m high, optimally utilizing the available space in the warehouse. And whilst the solution allows direct access to every Bin, the vertical structure ensures a class-leading storage density.

Compared to a manual pick-from-shelf solution, it represents a reduction in space of up to 85%.



## Efficient order picking

With labor shortages being a persisting challenge in the industry, there is an increasing demand for efficient and ergonomic order picking. The new standard Attabotics workstation NodeX can present up to 400 Bins per hour to the operator. With the new dual-bin Node this can be even more.

All processes are integrated into the Grid structure and workstations can be placed anywhere on the perimeter of the system. No conveyors are required to bring Bins to workstations, and each station can be reached by every Robot, providing ultimate flexibility.



As each operation is unique and faces specific challenges, Körber specialists analyze each process and design the best configuration for ergonomic work at the Attabotics Nodes. Options include put-walls equipped with put-to-light operator guidance, automated empty cartons supply, and conveying picked cartons to packing, shipping or other warehouse areas.



# A solution adapted to your needs

**Now more than ever consumers' demands and supply chains change at a lightning speed and in unexpected ways. Warehouses need to be flexible to adapt to these changes in a timely manner.**

The Attabotics solution offers optimal flexibility and scalability. If more storage is needed, the Grid can be expanded in any direction. At the same time, if more throughput is required, more Robots and/or workstations can simply be added. All without significantly disrupting operations.

Due to the integrated workstations and sequencing capabilities, the Attabotics solution needs significantly fewer conveyors, making it easier to adapt. As an experienced integrator with a complete portfolio, Körber can also combine the Attabotics system with Autonomous Mobile Robots (AMR's) for an even more scalable solution.

## Key benefits



### **Direct access to every Bin**

No digging, no reshuffling



### **Integrated Nodes**

No need for conveyors to connect workstations



### **Integrated sequencing**

By using the space below the storage levels



### **Flexible and scalable**

Add Robots and/or Nodes, or extend the Grid



### **No single point of failure**

Every Robot can reach every Bin and every Node



### **High storage density**

Market leading density when between 10 and 12 meters high

# Wherever your business takes you, the Attabotics solution can make it possible.

## 2 Bin dimensions available

Outer dimensions (l x b x h)	Medium High	614 x 614 x 275 mm 614 x 614 x 435 mm
Inner dimensions (l x b x h)	Medium High	571 x 571 x 259 mm 571 x 571 x 417 mm
Empty weight		Approx. 5.7 kg ( medium bin)
Maximum payload		45.5 kg (excluding bin weight)
Material		Polypropylene, UNIPOL 2135
Dividers		Multiple configurations possible with removable dividers; up to 16 compartments per bin



## Innovative yet proven

Attabotics has successfully deployed its system in Canada and the USA - from systems with less than 5,000 Bins, to high end solutions with over 190,000 Bins stored.

**See it moving**



**“Flexibility, responsiveness and performance are essential for today’s fulfillment operations. We believe that the Attabotics solution offers an especially strong combination of characteristics that was not yet available on the European market. With Attabotics technology, Körber can now offer our customers the next step in automation”**

Michiel Veenman, Vice President  
K. Fulfillment Solutions

# Partnership

**The Körber Business Area Supply Chain Automation is not only a technological pioneer itself, but it is also permanently on the lookout for innovative partners. One of these was found with Attabotics, a Canadian company founded in 2016.**

Both parties look to jointly support e-commerce companies to overcome the challenges of order fulfillment.

Körber will be the reseller, integrator, and implementation partner for the Attabotics solution in most of Europe, as well as in other selected countries.

With our strong expertise, we can assess whether the Attabotics solution is the right one for your operation. And, if necessary, Körber offers and integrates a complete range of other technologies to complement the solution, such as conveyor systems, Autonomous Mobile Robots (AMR's) or packing machines.

With Körber, you get a trusted partner for design, implementation, and support.



## About Körber Business Area Supply Chain

Körber Supply Chain is a Business Area of Körber, an international technology group with around 10,000 employees and more than 100 locations worldwide. At Körber Supply Chain, we have a broad range of proven supply chain solutions that fit our customers' size, business strategies and appetite for growth.

Our customers conquer supply chain complexity thanks to our portfolio that includes software, automation, voice solutions, robotics, and material handling - plus the system integration expertise to tie it all together. Körber helps customers to manage supply chains as a competitive advantage.

We are a global partner not just for today, but also for tomorrow as the needs of supply chains continue to evolve.

Conquer supply chain complexity with Körber!

The Business Area Supply Chain is part of the global technology group Körber.

**Find out more at  
[www.koerber-supplychain.com](http://www.koerber-supplychain.com)**

**Find out more**

## About Attabotics

Attabotics is the world's first 3D robotics supply chain system for modern commerce. Inspired by the framework of ant colonies, Attabotics replaces the rows and aisles of traditional fulfillment centers with a patented storage structure and robotic shuttles that utilize both horizontal and vertical space, reducing companies' warehouse needs by up to 85%.

By empowering retailers to place fulfillment centers near high-density urban areas, Attabotics helps to create jobs and decrease carbon emissions by closing the last-mile delivery gap.

Attabotics has been adopted by major retail brands across apparel, food & beverage, and home goods.

Attabotics is based in Calgary, Alberta, Canada with fulfillment centers across the United States and Canada.

**For more information visit  
[www.atabotics.com](http://www.atabotics.com)**

**Visit us**

# Want to know more?

**Contact us**

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