

# ROBOTIC SOLUTIONS



**Hy-Tek**  
INTRALOGISTICS



# ULTIMATE AUTOMATED SOLUTION

Goods-to-person systems are an alternative to traditional methods of picking. SKU proliferation, demanding SLAs, increasing volumes, shrinking labor pool, and a host of other impacts are driving this process as a preferred method of picking orders.

EXOTEC  
SOLUTIONS





**THE  
FUTURE  
IS  
MOTION.**

# About the Hy-Tek Emerging Technologies Team



Our business model has been to create strategic partnerships in order to provide the best solution for our customers. In an ever-changing environment in the supply chain, we see the value and potential of automation. As a company, we believe the future is in optimizing space and time while keeping quality high. We are excited to partner with companies that share this vision and creating exciting new products and possibilities that will move into the next generation of warehousing and distribution.

In the Hy-Tek Innovation Lab, humans can collaboratively work with mobile robotics and robot arms. With an emphasis on high productivity and safety, our lab currently houses four different robots, each unique in the task they are performing. Through many hours of research, development, and testing, we have created an optimized space to show the new age of picking, transporting, and storing of goods and equipment. In our lab, we are able to present the future in motion.



# Maximizing ROI

Whether your growth initiatives include building a new distribution facility, re-designing an existing facility or simply updating equipment, Hy-Tek can assist you in maximizing the return on investment.







# OUR SOLUTIONS:

## TRANSPORTATION

### Autoguide

The Max N10 Pallet Stacker is an automated counterbalanced lift truck with a payload capacity of 1,770 lbs and a high capacity version for up to 2,650 lbs.





## TRANSPORTATION



### TransportBoT

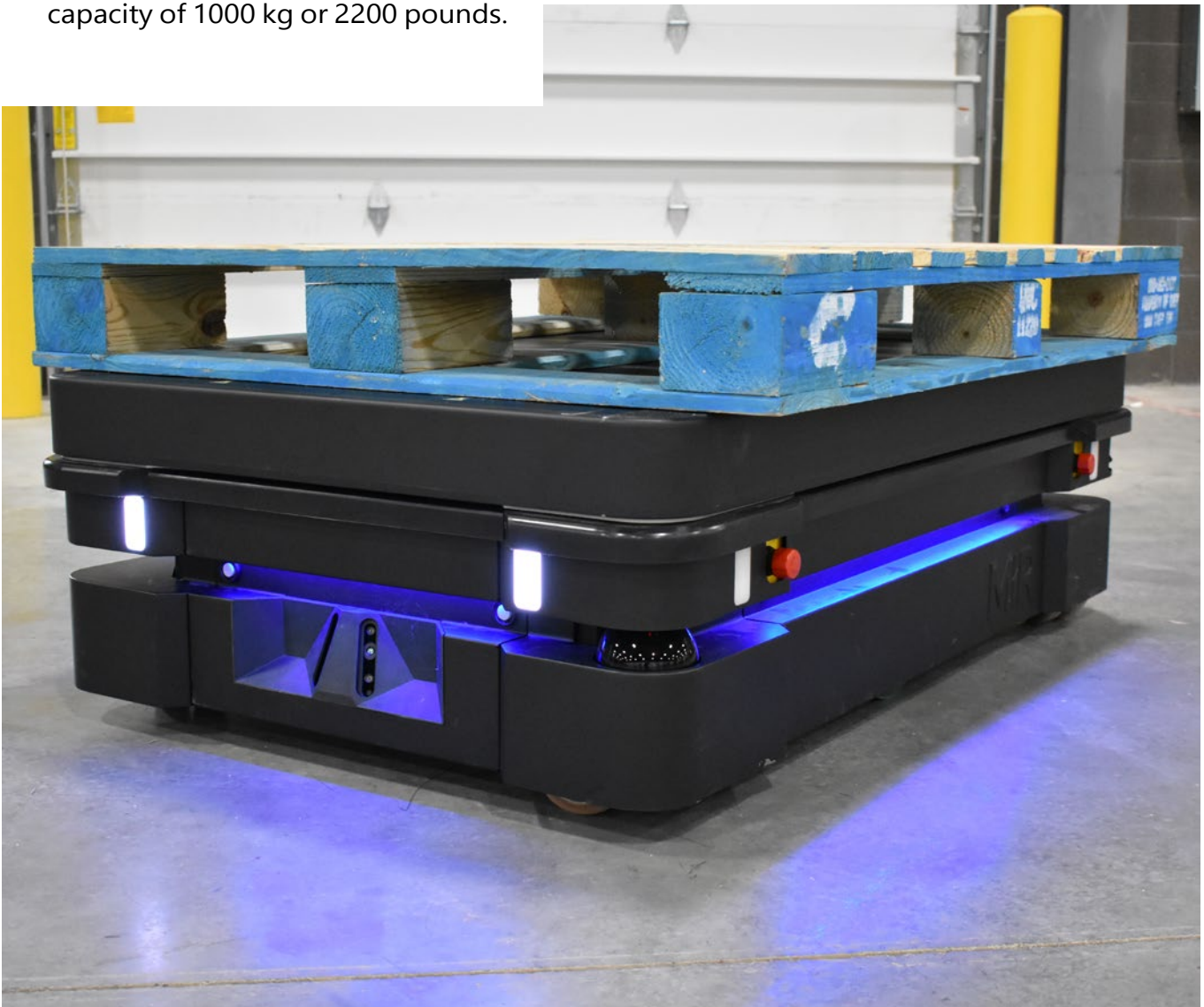
Utilized to move carts of all sizes or even up to 1,100 lb pallets. Allows operators to focus on value added operations instead of moving carts/pallets from position to position.

# OUR SOLUTIONS:

## TRANSPORTATION

### TransportBoT1000

This is MiR's most powerful robot, designed to automate and optimize the internal transportation of heavy payloads and pallets, with a payload capacity of 1000 kg or 2200 pounds.





## TRANSPORTATION

### TransportBoT500

Designed to automate and optimize the internal transportation of heavy payloads and pallets, with a payload capacity of 500 kg or 1100 pounds.



# OUR SOLUTIONS:

## TRANSPORTATION

### HaulBoT

Utilized to tow carts within a facility. Servo operated hook allows for docking and un-docking of carts for transport. Tow up to 1,100 lbs.





## TRANSPORTATION

### ConveyBoT

Allows for cases, totes or other materials to be conveyed onto or off of a MiR robot. Will dynamically replace fixed conveyor solutions or utilized for sortation.

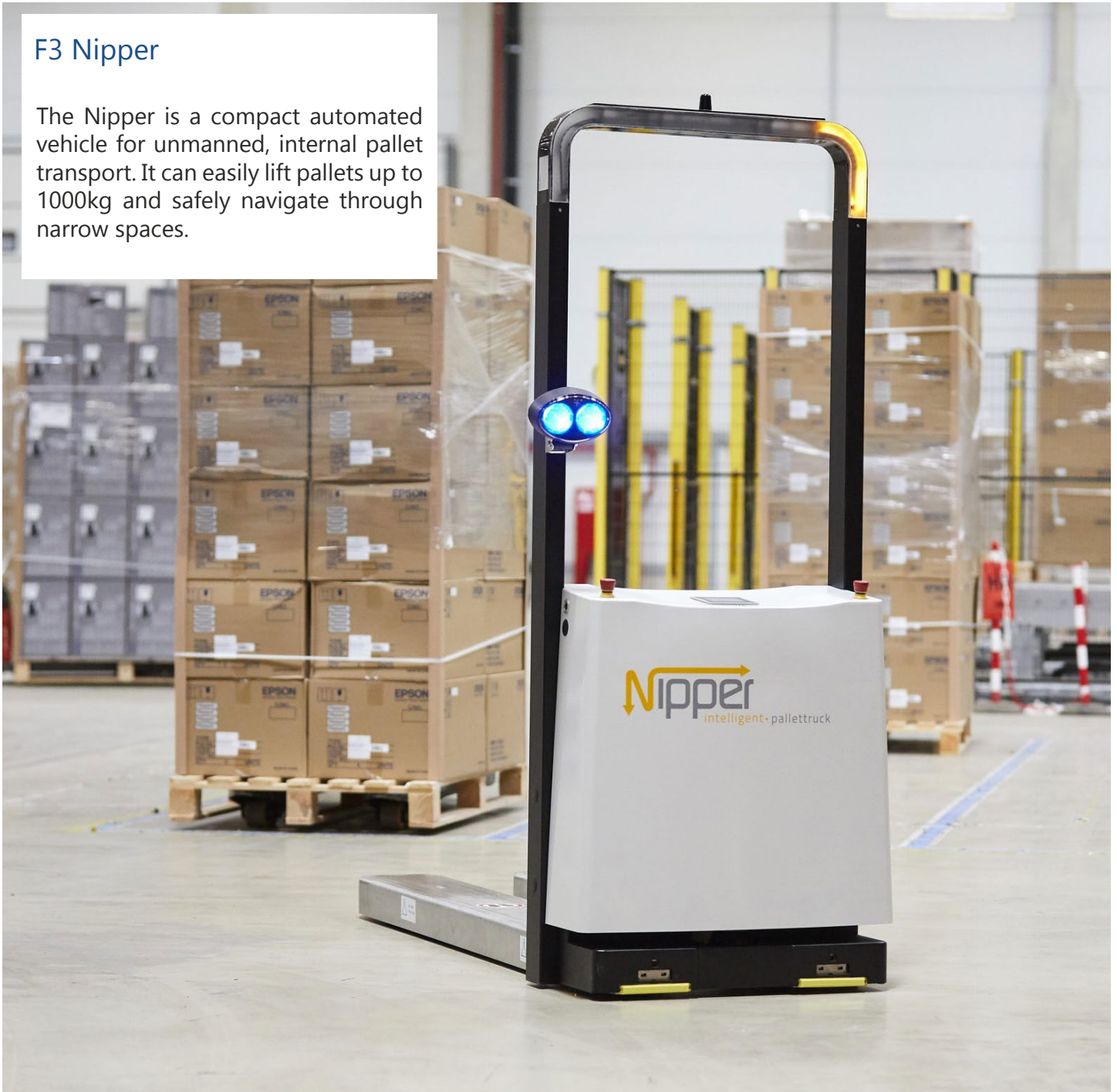


# OUR SOLUTIONS:

## TRANSPORTATION

### F3 Nipper

The Nipper is a compact automated vehicle for unmanned, internal pallet transport. It can easily lift pallets up to 1000kg and safely navigate through narrow spaces.





## PICKING TECHNOLOGY



### Berkshire Grey

Berkshire Grey's piece picking robots feature industrial robotic arms with smooth and natural 6-DOF optimized motions for maximum efficiency.

# OUR SOLUTIONS:

## PICKING TECHNOLOGY

### Exotec Skypicker

The Skypicker is a fully automated warehouse picking module that completes the Skypod order preparation solution. It is equipped with an articulated arm and order mover that allows simultaneous preparation of four orders.



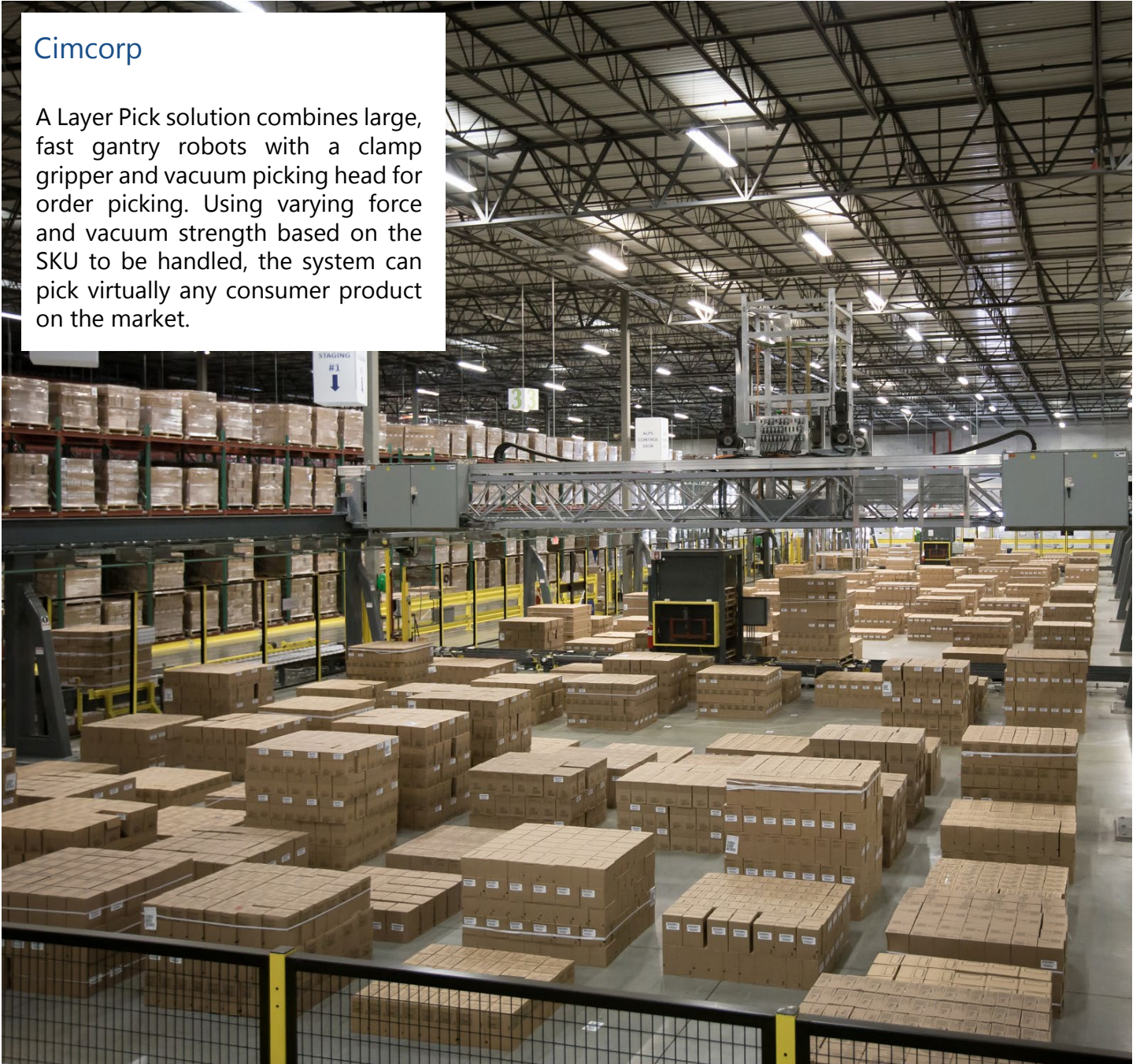


# OUR SOLUTIONS:

## PICKING TECHNOLOGY

### Cimcorp

A Layer Pick solution combines large, fast gantry robots with a clamp gripper and vacuum picking head for order picking. Using varying force and vacuum strength based on the SKU to be handled, the system can pick virtually any consumer product on the market.



# OUR SOLUTIONS:

## PICKING TECHNOLOGY

### UR Robot

Universal Robots (UR Robots) are light-weight industrial collaborative robots built for medium-duty applications (up to 16 kg).





# GOODS to PERSON

ROVI



# EXOTEC

## Case / Tote Level: High Bay

The Exotec Skypod System individually stores cases or totes on shelving units or a full height rack solution. AMR solutions in this group climb the rack and bring the case/tote to a picker.

Shelves with product in cases, totes, trays, etc. are moved into position for picking from with an operator. High bay solutions allow for best cube utilization out of any supply chain automation.

## Benefits

- ▶ Ensure solution capacity and productivity performance
- ▶ Scalability without interrupting production
- ▶ Flexibility of adapting to multiple order profiles
- ▶ Higher throughput/less pickers compared to pick assisted
- ▶ Allows for dynamic or random slotting
- ▶ Multiple order profiles can be represented on a shelf





# CAJA ROBOTICS

## Case/ Tote Level: Low Bay

Caja offers a robotic mini-load ASRS for Goods-to-Person order fulfillment. Caja's solution is comprised of two types of robots: a lift robot for storage optimization and replenishment and a cart robot for picking and fast transportation of boxes. Cases or Totes are individually stored on shelving or racking less than 15' tall.

The System is powered by a cutting-edge cloud based software that uses advanced algorithms, artificial intelligence and machine learning for fleet management, inventory optimization and simulation.

## Benefits

- ▶ Adapts to the warehouse and the existing infrastructure
- ▶ Flexibility of adapting to multiple warehouse layouts
- ▶ Responds to sudden and unexpected challenges
- ▶ Saves 60% of the picker's time
- ▶ Storage capacity increased by 50%
- ▶ Order throughput increased by 40%

# ABOUT US

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The Innovative Technology Division of Hy-Tek Intralogistics was developed in 1963. We have best-in-class industry partners, including manufacturers of industrial equipment, conveyor systems, automated storage and retrieval systems, and rack and shelving, and together, we have provided customers with turn-key solutions. From customized storage systems to pre-assembled buildings and off-the-shelf products, Hy-Tek's experienced team of consulting, engineering, sales, operations, installation, and project management professionals partner with you to enhance productivity, streamline processes and boost profitability.

With more than 55 years of business success, Hy-Tek designs to your objectives and goals for material handling equipment, inventory storage, building throughput capacity/accuracy, labor/handling and material/process flow. Whether we create a concept from scratch or enhance your current facility, Hy-Tek establishes a thorough understanding of your operation to determine your unique application and needs. Motivated by high expectations, it is Hy-Tek's goal to provide cost-effective, efficient solutions that exceed your expectations.

## CONTACT US

Would you like to learn more about what our Emerging Technologies team is developing in our Innovations Lab? Give us a call at **800-891-5504**, send us an email at **info@hy-tek.com**, or stay up-to-date at **www.hy-tek.com**.

