

Moving You Forward

## Material Transport Robots from Trilogy NextGen

Inside manufacturing, distribution and retail facilities, rising consumer demand is creating disruptive change. Managers at every level are under pressure to increase productivity while containing costs. They're looking to next-generation material transport robotics for help.

Material handling robots are utilized to move, pack and select products and automate the transfer of parts from one piece of equipment to another. As a result, facility managers can reduce direct labor costs and eliminate the tedious and sometimes hazardous activities traditionally performed by workers.

## Fast-track your growth with materials handling robots from Trilogy NextGen

Trilogy NextGen is proud to partner with Peer Robotics, a leading developer of collaborative robotics. With Peer's advanced robotic technology and a future-ready network customized and integrated by Trilogy, you're ready. Improve workflow productivity by up to 50% and reduce worker fatigue and injuries while upskilling your employees for a more meaningful and satisfying work experience.

## RM250/RM500 automated trolley and bin movement solutions

Trilogy NextGen offers two compact and powerful trolley and bin robots. The RM250 carries payloads of up to 550 lbs, while the RM500 can handle up to 1100 lbs. Both solutions provide the same robust design and range of features. They travel at 2.5 miles per hour continuously for up to 12 hours. On-board object detection and avoidance keep your payloads safe and your employees even safer. The RM250 and RM500 are ideal for moving trolleys and bins in any indoor environment.

## What's holding you back?

### Labor shortage

**3.8 million**

Net new manufacturing employees needed by 2033, only half of which are expected to be filled.

### Sluggish productivity

**.03%**

Business productivity growth in Q1 2024, more than 10x lower than previous 3 quarters

### Safety issues

**\$12.84 billion**

Overexertion is the #1 cause of workplace injuries, accounting for more than 1 in 5 injuries and costing employers \$12.84 billion in 2023.





## Features:

**Collaborative:** Using Person2Peer technology, the RM250 and RM500 quickly learn your processes, needs and expectations. Quickly customize tasks or change applications on the fly; no coding is required.

**Intelligent and aware:** Equipped with two 360-degree Lidars and four 3D cameras, the RM250 and RM500 use natural navigation to avoid obstacles even in congested or cluttered environments.

**Plug and Play:** Quickly and easily integrates with your physical and IT infrastructure without needing specialized technical personnel or “handlers.”

**Versatile:** Compatible with a wide variety of bins and trolleys for seamless delivery on demand. Define pick and drop points with ease without making any changes to your infrastructure.

**Complete Package:** Both solutions include a power charging station, swappable battery, end-to-end support and 1-year warranty.

## The Human/Robot Collaboration

Endowed with Person2Peer collaborative technology, RM250 and RM500 robots seamlessly integrate your processes, preferences and patterns into their operating algorithms. This intelligence, plus a compact, highly functional and flexible design, enables you to support various applications and workflow optimizations.

### Warehouse-to-shop floor (Water Spider/Kanban Replenishment)

The RM250 and RM500 transport filled bins from the warehouse to the shop, ensuring all workstations have the materials needed when they are needed.

### Kitting/Delivery

A kitting solution enables direct delivery of materials and finished goods to their destination.

### Continuous Flow

Ensures pieces continue to flow through the process instead of piling up as they wait for the batch to complete.



## Powered by Trilogy NextGen Connectivity

Intelligent, aware and capable, robots like the RM250 and RM500 generate and consume massive amounts of data. They also rely on ubiquitous wireless coverage and low-latency performance. Because every facility environment is unique, a one-size-fits-all network solution won't work.

Trilogy NextGen specializes in designing, integrating and managing customized networks that take advantage of the wide range of technologies: private LTE/5G, fixed wireless, Wi-Fi, wired connectivity and more. Together, Trilogy's network expertise and Peer's best-in-class material transport robots offer a single-source solution that keeps your business moving forward. Now and in the future.

To learn more about material transport robots from Peer and Trilogy NextGen, contact your Trilogy NextGen representative.