



ROVR AMR

Innovation in Motion, Future in Action



www.bectochem.com

www.kyronautomation.com

Key Highlights

The **ROVR** series is engineered for pharmaceutical and FMCG intralogistics, combining precision, safety, and compliance. Whether it's the heavy-duty **ROVR F-series**, the versatile **ROVR P-series** or efficient **ROVR T-Series**, each AMR deliver reliable, traceable, and contamination-free material transport — ensuring seamless integration into GMP-regulated environments.



PRECISE NAVIGATION

SLAM + QR code tracking with ± 5 mm accuracy



SAFE & GMP-COMPLIANT

360° Lidar + Ultrasonic perimeter sensors + cameras for obstacle detection, Emergency Stop Operation



SMART LOAD HANDLING

Lift system (upto 1.5 ton capacity) with load identification



LIGHTS OUT OPERATION

Automated docking, 4 hrs charging for up to 10 hrs runtime. Supports lights-out operation for continuous, unmanned productivity



SOFTWARE INTEGRATION

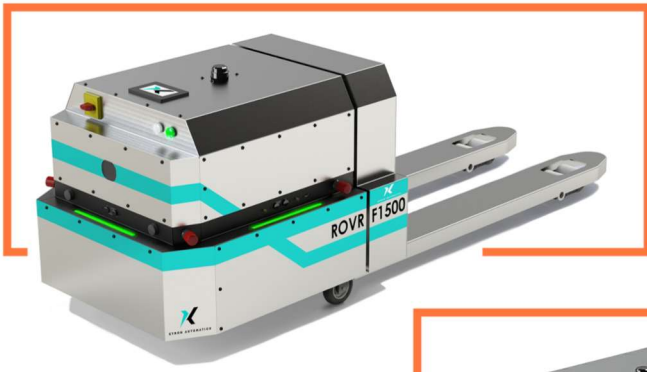
Easy User Interface for Robot handling and Fleet management

Industrial Use Cases:

- **Batch Production Support** – Automates pallet movement to cleanrooms.
- **Aseptic Line Feeding** – Ensures sterile and traceable transport of containers and pallets
- **Warehouse to Production Flow** – Bridges storage areas with GMP zones seamlessly
- **FMCG Material Handling** - Streamlines movement of cartons, packaged goods, and raw materials across high-throughput factory floors.



- AMR Control & Management
- Fleet Planning & Management
- Effective Mapping of Floor Area
- Easy Integration of Endpoints
- Scheduling of AMRs
- Logs & Error Handling
- Real Time Monitoring



ROVR F Series



ROVR T Series



ROVR P Series

Technical Specifications

Category	ROVR F Series (500/1000/1500)	ROVR T Series (500/1000/1500)	ROVR P Series (500/750)
Load Capacity	0.5 Ton / 1 Ton / 1.5 Ton	0.5 Ton / 1 Ton / 1.5 Ton	0.5 Ton / 0.75 Ton
Lifting Height	80 mm + 120 mm	Automated Tug Joint	330 mm + 100 mm
Load Size	1m * 1.2m	1m * 1.2m	1m * 1m
Speed	1.5 m/s (unloaded), 1.2 m/s (loaded)	1.5 m/s (unloaded), 1.2 m/s (loaded)	1.2 m/s (unloaded), 1.0 m/s (loaded)
Slope Gradient	15°	15°	5°
Positioning Accuracy	± 5 mm (with QR code & SLAM)	± 5 mm (with QR code & SLAM)	± 5 mm (with QR code & SLAM)
Navigation	SLAM + Floor QR Code Camera	SLAM + Floor QR Code Camera	SLAM + Floor QR Code Camera
Dimensions (mm)	2050 (l) x 670 (w) x 720 (h)	850 (l) x 670 (w) x 720 (h)	1250 (l) x 800 (w) x 330 (h)
Battery Runtime	10 hours continuous operation	10 hours continuous operation	10 hours continuous operation
Charging Time	4 hours (automated docking)	4 hours (automated docking)	4 hours (automated docking)
Safety Features	360° Lidar, Vision Camera, Ultrasonic, E-Stop, Visual & Acoustic Alerts	360° Lidar, Vision Camera, Ultrasonic, E-Stop, Visual & Acoustic Alerts	360° Lidar, Vision Camera, Ultrasonic, E-Stop, Visual & Acoustic Alerts
Material	Mildsteel / SS 304	Mildsteel / SS 304	Mildsteel / SS 304

About ROVR AMRs

The **ROVR** series of **Autonomous Mobile Robots (AMRs)** is engineered to transform pharma and FMCG intralogistics with **safe, precise, and contamination-free** material handling. Designed for **GMP-compliant** cleanroom environments as well as high-throughput FMCG production floors, ROVR AMRs deliver **traceability, speed, and reliability** across the entire supply chain.

The **ROVR F-Series (Forklift AMR)** is purpose-built for handling heavy payloads and palletized loads, the **ROVR P-Series (Platform AMR)** offers flexible transport for bins, totes, cartons, and sterile containers, while the **ROVR T-Series (Tugger AMR)** efficiently tows multiple trolleys and trailers in a single trip for streamlined bulk movement. Together, they adapt seamlessly to dynamic workflows — from feeding aseptic pharma lines to high-volume FMCG batch production — reducing manual effort and operational risks.

Our automation systems are designed for continuous operation including **lights-out manufacturing** and warehousing. That means the process keeps running safely and reliably even without human presence, ensuring **24/7 productivity** and faster ROI.

Developed by **Kyron Automation** and delivered in partnership with **Bector Automation RML**, the ROVR series combines cutting-edge automation technology with local expertise and support — keeping both pharma and FMCG operations efficient, safe, and future-ready.



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Get In Touch



info@kyronautomation.com
sales.support@bectorrml.com



www.bectochem.com
www.kyronautomation.com



Pune India

