



# iNcaart

Versatile Autonomous Mobile Conveyor

**Efficient and adaptable payload transfer from conveyor to conveyor, conveyor to tote/carton lift, vehicle to vehicle and more.**

Based on our industry proven troNnik AMR base, our mobile conveyor vehicle is supported by our engineering teams who have 25+ years' experience in pioneering autonomous vehicle guidance technologies. Our team will seamlessly integrate vehicles into existing processes ensuring immediate benefit for your operation.

## **BENEFITS:**

Our collaborative AMRs can easily be deployed to enhance existing operations without disruption or reconfiguration and contribute an immediate and significant improvement in throughput efficiency and error reduction.

- REDUCE time operatives spend DRIVING/WALKING
- REDUCE pick/place ERRORS
- OPTIMIZE throughput with INTELLIGENT task ordering/route selection
- FOCUS operatives on VALUE-ADD work
- ADAPT to fluctuating demand/seasonal peaks
- No need to change your working environment



**Optimize your material handling processes with Guidance Automation's Autonomous Mobile Robots.**

<b>Uses</b>	
Typical applications:	Piece pick and place autonomous transport within logistics, industrial and healthcare industries
<b>Dimensions Base Unit</b>	
Length x Width x Height	950 x 630 x 315mm (461 Wi-Fi antenna vertical)
Ground clearance	Body work: 40mm, Charging contacts:16.3mm
Wheel Diameter	200mm
Weight (without modules)	40kg
Drive type	Differential
<b>Payload</b>	
Capacity	110kg
<b>iNcaart Module Options</b>	
Design: Conveyor Top	780mm x 410mm MDR Conveyor top with 24V DC Powered Drive Roller
Max/Min height	1103mm (rollers) / 803mm (rollers)
Lift Capability/Height	50kg/300mm
<b>Power</b>	
Battery	Lithium Ion 24V, 20Ah.
Charge type	Floor plate allows for self-docking and charging (not included).
Run time	6hrs / 60% duty cycle – (dependant on load).
External charging options:	Charging station.
<b>Speed and Performance</b>	
Max speed	Up to 2m/s
Max acceleration/deceleration	0.5m/s/s
Positional Accuracy (Travel)	+/- 10mm
Positional Accuracy (Docking)	+/- 10mm
Turning circle	0mm radius (turn on the spot)
<b>Environment</b>	
Temp Range	Operating Temperature: 0°C to 40°C
<b>Communications</b>	
Wi-Fi	Router: 2.4 GHz and 5 GHz, 2 external antennas
<b>Navigation</b>	
	Natural Feature Navigation
<b>Safety</b>	
	Integrated safety features, emergency stop buttons and obstacle detection sensors
<b>Construction</b>	
Chassis	Aluminium
<b>Certification</b>	
	CE

*An award-winning pioneer in guidance, navigation and control technologies, Guidance Automation has over 25 years' experience in developing advanced solutions for the global robotic vehicle market and has thousands of systems in service.*

*Our aim is to consistently meet our clients' needs by offering automated guided vehicle technologies which serve the market need and improve operational performance and efficiency.*

*We are proud to have enabled our clients to automate robotic vehicles, fork lift trucks, floor cleaning equipment and all types of mobile moving systems. These solutions have been applied in a broad range of autonomous transport applications such as airports, warehousing, healthcare, production, bottling plants, printing, retail, marine and more.*

*We are committed to the continuous advancement of innovative and optimal vehicle automation.*



Unit 2 Meridian South  
Meridian Business Park  
Leicester LE19 1WY  
United Kingdom

Tel: +44 116 243 6250

[enquiries@guidanceautomation.com](mailto:enquiries@guidanceautomation.com)  
[guidanceautomation.com](http://guidanceautomation.com)



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