THE HI-TECH ROBOTIC SYSTEMZ
EVOLUTION THROUGH INNOVATION

N—O—V—U—S CARRY

AUTONOMOUS MOBILE INDUSTRIAL ROBOT

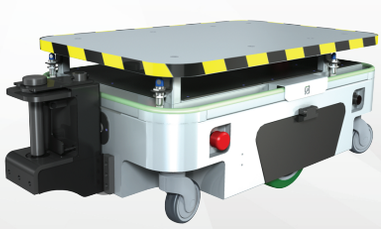
- INFRASTRUCTURE FREE NATURAL NAVIGATION
- MODULAR DESIGN FOR EXECUTING MULTIPLE APPLICATIONS
- FLEXIBLE & SAFE FOR COLLABORATIVE OPERATION
- MACHINE LEARNING ENABLED FOR TRULY AUTONOMOUS OPERATIONS
- CLOUD BASED ANALYTICS FOR REAL-TIME INSIGHTS
- QUICK RETURN ON INVESTMENT
- HANDLE LOADS IN ALL SHAPES & SIZES (PALLETS/RACKS/TOTES/TROLLEYS)
- APPLICABLE FOR GREENFIELD SITE AND BROWNFIELD SITE

Optimizing Your Intralogistics Operations

TROLLEY TUNNELING

SCISSOR LIFT

UNIT LOAD



TROLLEY TOWING

CONVEYOR BED

www.hitechroboticsystemz.com

PRODUCT SPECIFICATIONS

DESCRIPTION	AMIR 100	AMIR 500	AMIR 1500
Dimensions			
Length	850 mm	1100 mm	1740 mm
Width	550 mm	750 mm	1140 mm
Height	368 mm	410 mm	380mm
Height with Lifter	500mm	610 mm	550 mm
Ground clearance	55 mm	35 mm	25 mm
Weight (without load)	100 kg	250 kg	410 kg
Load surface	600 x 800 mm	600 x 830 mm	1270 mm x 770 mm
Wheel diameter	Drive wheel: 200 mm Castor wheel: 100 mm	Drive wheel: 210 mm Castor wheel: 100 mm	Drive wheel: 200 mm. Castor wheel: 150 mm
Payload			
Robot payload	100 KG	500 KG	1500 KG
Towing capacity	300 kg	750 kg	2000 Kg
Speed and Performance			
Battery Running time		8 Hours	
Maximum speed	forwards: 1.1 m/s (4 km/h) backwards: 1.1 m/s (4 km/h)	forwards: 1.25 m/s (4.5 km/h) backwards: 1.25 m/s (4.5 km/h)	forwards: 1.5 m/s (5.4 km/h) backwards: 1.5 m/s (5.4 km/h)
Acceleration		0.2 m/s^2 (full payload, flat surface)	
De-Acceleration		0.2 m/s^2 (full payload, flat surface)	
Maximum incline		5% Incline (with payload)	
Turning circle Dia (On the spot Turn)	1020 mm	1400 mm	2050 mm
Minimum width, door	1000 mm	1450 mm	1850 mm
Minimum width, passage	1000 mm	1450 mm	1850 mm
Minimum width, two robots passing	2200 mm	2500 mm	3500 mm
Precision docking	+/-20 mm	+/-30 mm	+/-30 mm
Stopping accuracy	+/-50 mm of position, +/-20 mm to docking marker	+/-50 mm of position, +/-30 mm to docking marker	+/-50 mm of position, +/-30 mm to docking marker
Power			
Battery	Li-ion 24 V , 54 Ah	LiFPo 24 V, 80 Ah	Li-ion, 48 V, 76.5 Ah
Charging Time	up to 3.5 hours (0-80%: 2.5 hours)	up to 4 hours (0-80%: 3 hours)	upto 5.5 hours, (0-80%: 4 hours)
External charger	Input: 200-240 V ac, 50-60 Hz / Output: 24 V, max 18 A	Input: 200-240 V ac, 50-60 Hz / Output: 24 V	Input: 100-230 V ac, 50-60 Hz / Output: 48 V
Battery Charging Cycle	Minimum 1200 cycles	Minimum 1500 cycles	Minimum 1200 cycles
Environment			
Ambient temperature range		+5°C to 50°C (humidity 10-95% non-condensing)	
IP class		IP 21	
Communication			
WiFi		Dual-band wireless AC/G/N/B	
I/Os		Ethernet and USB	
Safety			
Safety System	2D Laser Scanner, Ultrasonic Sensor, Optional Contact Type Safety sensor, 2 Emergency Stop Buttons	2D safety Laser Scanners, Contact Type Safety Bumper, Safety PLC, 2 Emergency Stop Buttons	2D Safety Laser Scanners, Contact Type Safety Bumper, Safety PLC ,4 Emergency Stop Buttons
Navigation			
Navigation Sensor		2D LiDAR (Natural Navigation)	

With Adaptable Design of Novus Carry any specific application requirement can be easily met by using different Auxiliary Attachments

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