NOVUS HI-TECH

NOVUS CARRY SERIES

Autonomous Mobile Robots (AMRs) for
Smart Assembly Lines & Smart Intralogistics

"Built In-House – From Software to Hardware,
Driving the Future of Autonomous Workflows"

Industries

Automobile | Pharma | Paint | Chemical | FMCG | Retail | E.Com | 3PL | Semiconductor | Solar

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Who We Are

A Global Deep Tech Leader

End-to-End Autonomous Solutions From Software to Hardware

Part of
$250 M
The Hi-Tech Group

20+ years
of innovation in AI, Robotics, and ADAS

100+
global enterprise clients

1200+
autonomous solutions deployed

120,000+
ADAS Systems in use

150+
patents

Designed and built completely in-house, from autonomous software stacks to hardware platforms

Pioneer in AGV & AMR technologies, delivering flexible, scalable, and safe autonomous workflows worldwide

Served industries across Automotive, FMCG, Pharma, E-Commerce, 3PL, Paint & Chemical, Electronics, Semiconductor, Solar, and Retail

Novus Hi-Tech

Started by building autonomous solutions for various Defence projects in India, gaining expertise in high-precision robotics and complex autonomous systems. Over the years, we pivoted into industrial automation, delivering plug-and-play solutions for smart assembly lines and intralogistics operations across the globe.

Novus Hi-Tech stands among the select global leaders delivering truly end-to-end autonomous solutions — from manufacturing shopfloors to warehouse operations and even road logistics — creating value across the entire supply chain. Our 150+ patents reflect our commitment to innovation and leadership in autonomous technologies.

Today, Novus enables enterprises to automate material movement, optimize workflows, enhance safety, and gain real-time analytics and fleet intelligence — all with products built entirely in-house.

Our Journey From Defence Autonomy to Global Industrial Leader

Milestones That Define Innovation

Novus Hi-Tech's journey reflects a continuous evolution of autonomy. Starting from mission-critical Defence projects, we leveraged our deep-tech expertise to transform industrial workflows, and today, we are recognized globally for enabling enterprises to automate, optimize, and secure operations across the entire supply chain.

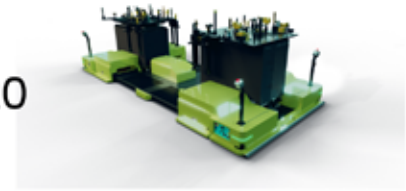
100+ Customers
1200+ Mobile Robots Deployed

2020–2023

Scaled globally with 120,000+ ADAS kits in use; strengthened end-to-end supply chain automation capabilities

2018–2020

Successfully deployed **1000+** autonomous solutions across automotive, FMCG, pharma, and chemical industries



2015–2018

Introduced AMR & AGV solutions for warehouse and intralogistics operations, pioneering plug-and-play mobility platforms

2010–2015

Expanded into industrial automation, creating autonomous workflows for smart manufacturing shopfloors

2005–2010

Developed autonomous solutions for various Indian Defence projects, mastering complex robotics, computer vision, and autonomous navigation

NOVUS CARRY AMR – Autonomous Mobile Robots for Smart Manufacturing & Warehousing

Transforming Material Handling for Modern Factories & Warehouses

What is Novus Carry?

Novus Carry is a series of Autonomous Mobile Robots (AMRs), built to make factories and warehouses smarter, safer, and more flexible. It replaces traditional conveyor lines and manual handling with a modular, software-defined automation system. Acting as the backbone of both Smart Assembly Lines and Smart Intralogistics, Novus Carry ensures smooth and efficient material movement across the entire shopfloor and warehouse

Key Capabilities

Material Handling Redefined
Moves pallets, trolleys, kits, and frames with precision

Multi-Task Functionality
Tugging, lifting, tunneling, conveyor transfers, and pick-assist

Adaptable to Any Layout
Works in dynamic, crowded environments with natural navigation

Plug & Play Attachments
Swap modules to match operational needs in minutes

Software-Defined Control
Configure workflows, routes, and fleet operations through Novus Flow™

Human-Centric Safety
360° sensors, alarms, and compliance with global safety standards

Why It Matters

Unlike rigid conveyor lines or labor-intensive handling, Novus Carry eliminates downtime, adapts to multiple product variants, and scales instantly with demand. It's not just a robot; it's a future-ready automation platform built to keep factories and warehouses agile, safe, and efficient.

The Modern Industrial Challenges

Why Automation is Critical for Efficiency, Safety, and Material Handling & Operations

Traditional assembly lines and warehouse workflows are often rigid, prone to downtime, and hard to scale. Enterprises need intelligent, flexible, and fully integrated automation solutions to improve efficiency, safety, and throughput.

Factory / Assembly Line Challenges

Traditional Conveyor-Based Lines

Rigid and sequential layouts cause downtime from line stoppages and changeovers

Limited flexibility for multiple product variants on a single line

High maintenance and operational costs due to fixed infrastructure

Scalability issues — difficult to expand or reconfigure without major investments

Complex Manual Handling Labor-intensive and error-prone tasks reduce efficiency

Workplace Safety Risks Operators face hazards while moving heavy parts or trolleys

Warehouse / Intralogistics Challenges

Inefficient Material Movement Bottlenecks in storage, retrieval, and transport

Workplace Safety Risks Human operators face hazards when interacting with forklifts, trolleys, or heavy loads

Scalability Constraints Limited capacity to ramp up operations without additional headcount

Real-Time Visibility Gaps Lack of data for workflow optimization and predictive maintenance

Integration Issues Existing systems often fail to communicate across warehouse workflows

Novus Hi-Tech Solutions

Driving Smart Assembly Lines & Smart Intralogistics

End-to-End Industrial Automation Powered by Novus Carry AMRs

Smart Assembly Line Solutions

Key Highlights

Flexible & Modular Production Lines
Replace traditional conveyor-based lines with grid-based mobile robots

Multi-Variant Handling
Supports diverse SKUs on a single production line with minimal downtime

Plug-and-Play Attachments
Lifting, tugging, conveyor interfacing, trolley unhitching powered by Novus Carry

Software-Defined Workflows
Configure production sequences, optimize material flow, & reroute dynamically via Novus Flow™

Human-Centric & Safe
Operates alongside human operators with advanced sensors and intelligent obstacle detection

Real-Time Analytics
Performance monitoring, production efficiency, & bottleneck detection via Novus Analytics™

Novus Hi-Tech transforms traditional conveyor-based assembly lines into Smart Assembly Lines, enabling enterprises to handle multiple product variants, reduce downtime, scale rapidly, and improve overall efficiency. Novus Carry AMRs act as the backbone, providing flexible, modular, and fully software-driven automation while ensuring human-centric safety and operational intelligence.

Smart Intralogistics Solutions

Key Highlights

Autonomous Material Transport
AMRs handle pallets, trolleys, and kits efficiently across warehouse floors

Adaptive Navigation
Intelligent routing for dynamic warehouse environments

Safety-Centric Design
360° sensors, e-stops, and collision avoidance for human-robot collaboration

Scalable Operations
Expandable fleet to meet increasing throughput demands

Integration & Tracking
Interoperable with WMS, ERP, and factory systems; ensures inventory accuracy

Multi-Task Workflows
AMRs perform lifting, tugging, conveyor loading/unloading, and frame transport

In warehouses, Novus Hi-Tech enables Smart Intralogistics, improving throughput, accuracy, and safety. Novus Carry AMRs form the core, automating material handling tasks while providing real-time visibility and seamless human-robot collaboration

Novus Carry Across Industries

End-to-End Automation

From Assembly Lines to Intralogistics

One AMR, Multiple Applications

Automotive Industry

Smart Assembly Line Applications

Engine & Transmission Assembly
AMRs deliver sub-assemblies, fixtures, & components between stations with precise synchronization.

Battery & Axle Assembly
Safely transport heavy modules like battery packs, front/rear axles, & motor units between process zones.

Cockpit / IP Assembly
Support modular cockpit and dashboard assembly lines with just-in-sequence deliveries.

Chassis-Body Marriage
Ensure timed delivery of chassis frames and sub-assemblies for final vehicle assembly.

AMR Capabilities: Tugging • Lifting • Frame Transport • Conveyor-to-Conveyor Transfer • Tunneling

Outcome

- Reduced downtime
- Modular production flow
- Flexible line reconfiguration

Smart Intralogistics Applications

Inbound Material Handling
Transfer of raw materials and parts from receiving dock to staging zones.

Line Feeding
Continuous supply of parts, kits, and sub-assemblies to the line-side buffer.

Kitting & Kit Delivery
AMRs transport kitted components to designated assembly workstations.

End-of-Line (EOL) Movement
Transfer of finished vehicles, frames, or pallets to warehouse or dispatch areas.

AMR Capabilities: Tugging • Automated Hitch/Unhitch • Multi-Trolley Transfer • Lifting

Outcome

- Lean intralogistics
- Higher throughput
- Safer operations

Proof That Moves the Needle

- >98% — Fleet Uptime
- 40–60 Pallets/hr throughput
- ROI 18–24 months (OEM Business Case)

Deployed across ICE/EV, greenfield & brownfield plants.

Electronics / Semiconductor / Solar

Assembly Line Applications:
Fragile component handling • Variant-based kitting
• Inter-process PCB/module transfer

Intralogistics Applications:
Material flow between cleanroom/storage
• Finished panel/module dispatch

Outcome

Reduced product damage | Workflow optimization | Scalable automation flexibility

Pharma / FMCG

Intralogistics Applications
Warehouse-to-line transfer • Kitting & order fulfillment
• EOL pallet dispatch

Outcome

- Enhanced safety
- Faster throughput
- Scalable warehouse operations

3PL / Retail

Intralogistics Applications
Inbound/outbound logistics • Kitting & pick-assist
• Cross-docking operations

Outcome

Faster order fulfillment | Labor optimization | 100% safety compliance

Faster Material Transfer

Productivity Boost

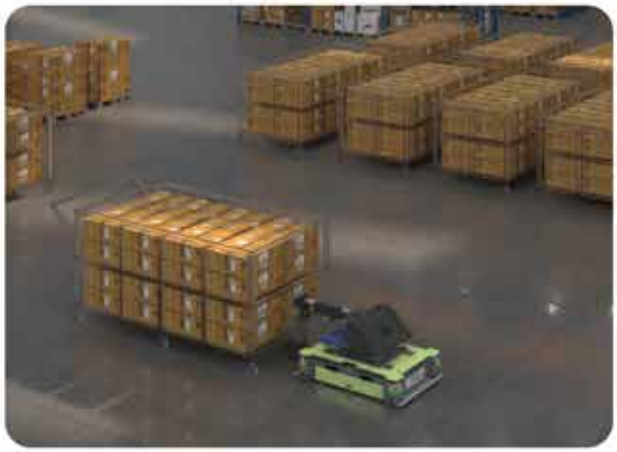
Safety Compliance

Novus Carry Features & Technology Highlights

Intelligent, Safe, and Fully In-House Developed AMRs for Smart Assembly Lines & Intralogistics

Navigation & Intelligence

- Natural Navigation Technology: Moves seamlessly in dynamic environments, no markers required
- Dynamic Path Planning: Optimizes routes in real-time based on obstacles and traffic
- 3D LiDAR-Based Localization: Accurate positioning and navigation for complex layouts
- VDA 5050 Compliant: Interoperable with other fleets and factory systems

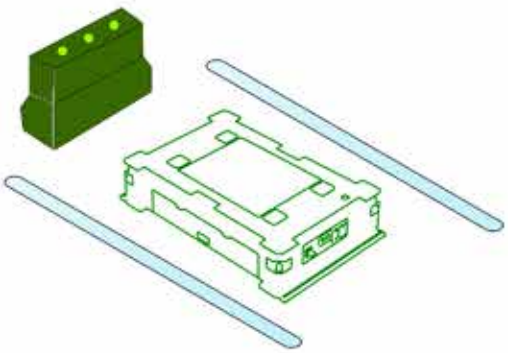


Payload & Attachments

- Multiple Payload Options: 100kg, 200kg, 500kg, 1000kg, 1500kg
- Modular Attachments: Lifter, Tugger, Conveyor, Frame Transport – all plug-and-play
- Multi-Task Capability: Single robot can perform multiple operations across workflows

Runtime & Power

- Battery: Lithium-Ion, 24–48V, 6–10 hours active operation
- Fast Charging: 120–150 min, 2000–3000 cycles
- Auto-Docking: Eliminates manual battery handling



Safety & Human-Centric Design

- 360° Laser Sensors & Cameras
- Audio & Visual Alarms
- E-Stops on All Sides
- ISO & EN Safety Compliance (ISO 3691-4, EN 1525, ISO 13849)

Software & Analytics

- Novus Flow™: Software-defined fleet management and workflow control
- Novus Analytics™: Real-time insights, KPIs, and optimization dashboards
- Remote Monitoring & Control: From anywhere via web interface

Variants & Specifications-Novus Carry Series

AUTONOMOUS MOBILE ROBOT - AMR

DESCRIPTIONS	AMR 100	AMR 500	AMR 1500
Payload			
Maximum payload	100kg(220lbs)	500kg(1100lbs)	1500kg(3300lbs)
Dimensions/chassis			
Length	850mm(33.4in)	1170mm(46.1in)	1740mm(68.5in)
Width	550mm(21.6in)	750mm(29.5in)	1140mm(44.9in)
Height	368mm(14.4in)	425mm(16.7in)	380mm(15.0in)
Ground clearance	35mm	35mm	35mm
Weight	240kg	260kg	420kg
Capability			
Maximum speed	1m/s(2.2mph)		.83m/s(1.8mph)
Required aisle width (one way traffic)	1050mm or as per standard	1250mm or as per standard	2150mm or as per standard
Required aisle width (two way traffic)	2100mm or as per standard	2500mm or as per standard	4300mm or as per standard
Positioning accuracy (moving to position)	±50mm		
Positioning accuracy (docking)	±10mm	±10mm	±10mm
Maximum incline/decline	2% pass over	2% pass over	2% pass over
Energy System			
Battery type	Lithium Ion		
Voltage	24V DC		48V DC
Battery capacity	54Ah	100Ah	76.5Ah
Active operation time with maximum payload	6 hours	6 hours	6 hours
Active operation time with no payload	10 hours	10 hours	10 hours
Charging current	30A CCCV	40A CCCV	40A CCCV
Charge Time	~120 minutes	~150 minutes	~120 minutes
Battery Life	2000 cycles standard	2000 cycles standard	2000 cycles standard
	3000 cycles optional	3000 cycles optional	3000 cycles optional
Charging Options	Charging Options		

Variants & Specifications-Novus Carry Series

AUTONOMOUS MOBILE ROBOT - AMR

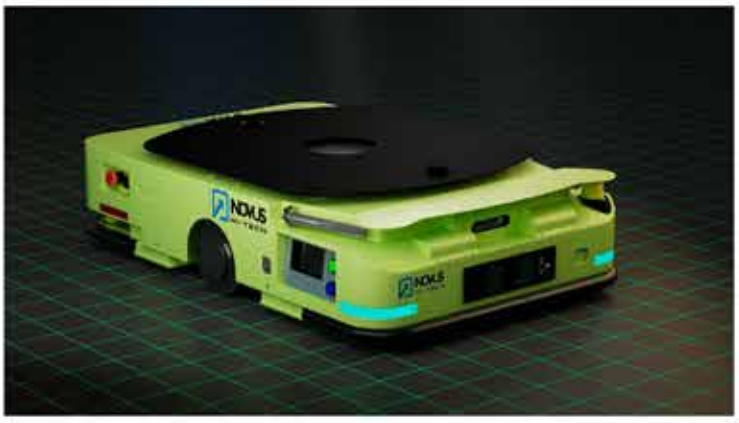
DESCRIPTIONS	AMR 100	AMR 500	AMR 1500
Environment			
Ambient temperature range, operation	5 to 50 °C	5 to 50 °C	5 to 50 °C
Humidity	10 to 90% non-condensing	10 to 90% non-condensing	10 to 90% non-condensing
IP rating	IP-21	IP-21	IP-21
Floor conditions	1.5% evenness		
Technology			
Wi-Fi	2.4 GHz 802.11 g/n, 5 GHz 802.11 a/n/ac		
Interfaces	USB, Ethernet, WiFi, LTE		
Navigation	Natural		
Localization	3D LiDar		
Safety System			
Safety sensors	360° safety coverage with multiple laser area sensors		
E-Stops	Available, four sides		
Signal and status lights	Available, for audio & visual alarms		
Design Standards			
International standards	ISO 3691-4, EN-1525, ISO 13849	ISO 3691-4, EN-1525, ISO 13849	ISO 3691-4, EN-1525, ISO 13849

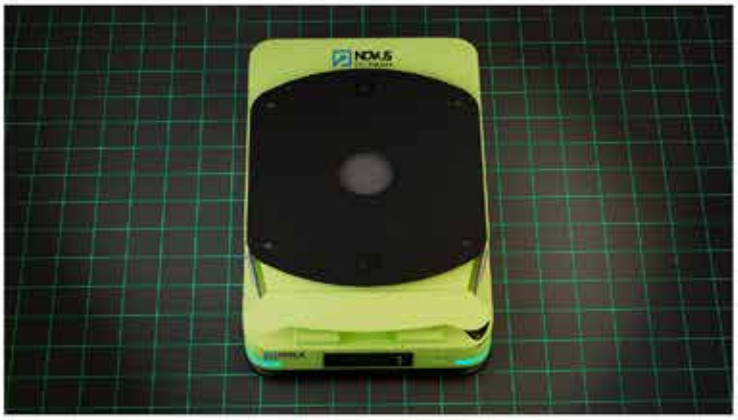
*all specifications can be customized as per use case

Variants & Specifications-Novus Carry Series

LOW HEIGHT AUTONOMOUS MOBILE ROBOT - LHT AMR

DESCRIPTIONS	LHT 250	LHT 500	LHT 1000
Payload capacity	250 Kg Max	500Kg Max	1000 Kg Max
LHT Guidance Technology	Natural Navigation (LIDAR)	Hybrid(LIDAR + QR)	Hybrid (LIDAR + QR)
Attachment	Electric Lifter	Electric Lifter	Electric Lifter
Max. Speed on Flat Surface	1 m/s	1 m/s	1 m/s
Lifting Stroke	90 mm	55 mm	55 mm
LHT Movement	Bi-directional	Bi-directional	Bi-directional
Power Source	48 V DC Supply	48 V DC Supply	48 V DC Supply
Battery Charging System	Opportunity Charging	Front Dock Charging (Online Charging)	Front Dock Charging (Online Charging)/Manual Swapping
Battery Type	Li-ion Battery	Li-ion Battery	Li-ion Battery
Traction Drive	Differential Drive System	Differential Drive System	Differential Drive System
LHT Weight	200 kg	210 kg	400 kg
Dimension (L X W X H)	880 × 620 × 300 mm	1095 X 700 X 270 mm	1260 x 825 x 300 mm
IP Rating	IP 20	IP 20	IP 20





Variants & Specifications-Novus Carry Series

FORKLIFT AUTONOMOUS MOBILE ROBOT - AMR

DESCRIPTIONS	ABOPT	STACKER
Payload capacity	1000 Kg Max	1500 Kg Max
Navigation Technology	Natural Navigation	Natural Navigation
Localization Technology	Li Dar Based	Li Dar Based
No load maximum speed	90 m/min	60 m/min
Motor Type	BLDC	BLDC
Stacker Movement	Bi-directional	Bi-directional
Pallet Safety	Fork tip non contact bumper	Fork tip non contact bumper
Obstacle detecting	Safety Class area scanner	Safety Class area scanner
Stopping Accuracy	+/-50 mm	+/-50 mm
Power Source	48 V DC Lithium-ion	24 V DC Lithium-ion
Battery Charging System	Opportunity Charging	Offline (Battery Swapping)
Battery on Single charge	8 hours (Single Charge)	8 hours (Single Charge
Communication	Wifi 6,5G	Wifi 6,5G
Front Castor Wheels	Swivel Castor (PU)	Swivel Castor (PU)
Lifting Type	Electric Lifting	Hydraulic (Single Acting)
Lifting Height	Ground to 80 mm	Ground to 1000 mm
Floor Gradient	0.5 Degree with derated load	1.5 Degree with derated load
Dimension	1650 (L) X 950 (W) X 1850 (H)	1750 (L) X 1000 (W) X 2100 (H)
Stacker Weight (Kg)	350 kg	850 kg

Novus Carry AGV Series

Automated Guided Vehicle (AGV)

Customized Solutions for Smart Assembly & Material Handling

Precision, Safety, and Efficiency in Every Move

What is an Automated Guided Vehicle (AGV)?

An Automated Guided Vehicle (AGV) is an advanced, driverless material-handling robot designed to transport heavy or delicate loads safely and efficiently within industrial environments. Guided by sensors, vision systems, LiDAR, or magnetic/QR navigation, AGVs automate repetitive movement tasks, reduce manual labor, and ensure consistent operational flow.

The Novus Carry AGV Series delivers high-performance intralogistics and assembly automation across multiple industries — with a strong focus on the automotive sector, where precision, payload capacity, and operational safety are critical for success.

Key Features of Novus Carry AGV Series

- Heavy-Duty Payload Handling
- Flexible Navigation Options
- Precision Docking
- Scalable & Modular
- Safety-First Design
- Low Maintenance, High Uptime

Industries We Serve

- Automotive
- Heavy Engineering
- Farm Equipmemt
- Electronics & Appliances
- Manufacturing & FMCG
- Aerospace

Use Cases of AGVs in the Automotive Industry

- Engine Assembly & Transfer
- Transmission Assembly
- Axle Assembly
- Instrument Panel/Digital Cluster Assembly
- Vehicle Marriage (body-to-chassis joining
- Final Vehicle Assembly Line
- Trolley Transfer for component kits and sub-assemblies

Impact of Novus Carry AGV Series

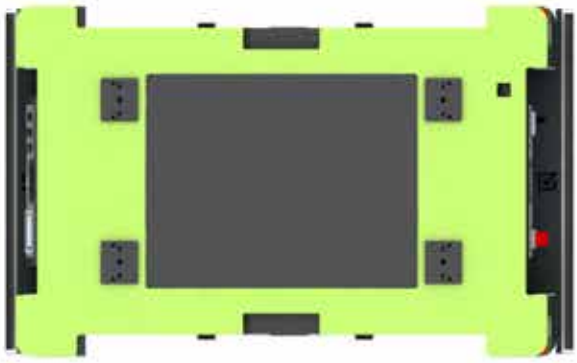
- Up to 30% Faster Assembly Line Efficiency
- Reduced Manual Labor & Lower Operational Costs
- Enhanced Workplace Safety with zero-accident movement
- Industry 4.0 Integration for smart factory automation
- Optimized Space Utilization without reliance on conveyors

Product Parameter

Navigation Type	Magnetic Tape/QR Code/SLAM(2D/3D)
Run direction	Uni/Bi/Omni
Load capacity	500 kg to 20 Ton (Custom Robot)
Travel speed	1 m/min to 30 m/min (Programmable as per JPH/Throughput)
Drive method.	Single Wheel / Differential / Ackermann (Steering) / Omnidirectional
Battery charging method	Manual Swapping / Opportunity Charging (Contact Type/Contactless Type) Induction Charging

Novus Carry Attachments & Capabilities

Modular AMRs Designed for Flexible Material Handling



Attachments & Their Functions

Lifter
Safely lifts trolleys, frames, and pallets to different heights

Tugger
Auto, semi-auto, and manual hitching & unhitching for towing trolleys or carts

Tunneling
Move safely under low-clearance obstacles, optimizing space in compact factories or warehouses

Conveyor Loader / Unloader
Automates conveyor-to-conveyor material transfer, mainly pallets & frames

Frame Transport / Custom Attachments
Handles specialized industrial tasks

Pick Assist
Supports kitting & order picking, reducing manual effort and improving efficiency

Novus Analytics & Fleet Management System (FMS)

Real-Time Monitoring, Predictive Insights, and Intelligent Control for Smarter, Safer Operations

Fleet Management System (FMS)

- Real-time tracking of AMR fleet across multiple plants and warehouses
- Automatic dispatching & task allocation based on priority and availability
- Dynamic routing to avoid congestion and optimize travel time
- Remote monitoring & control for operational managers
- Enables scalable multi-AMR operations without additional manpower
- VDA 5050 compliant: seamless integration with other AMR fleets and systems

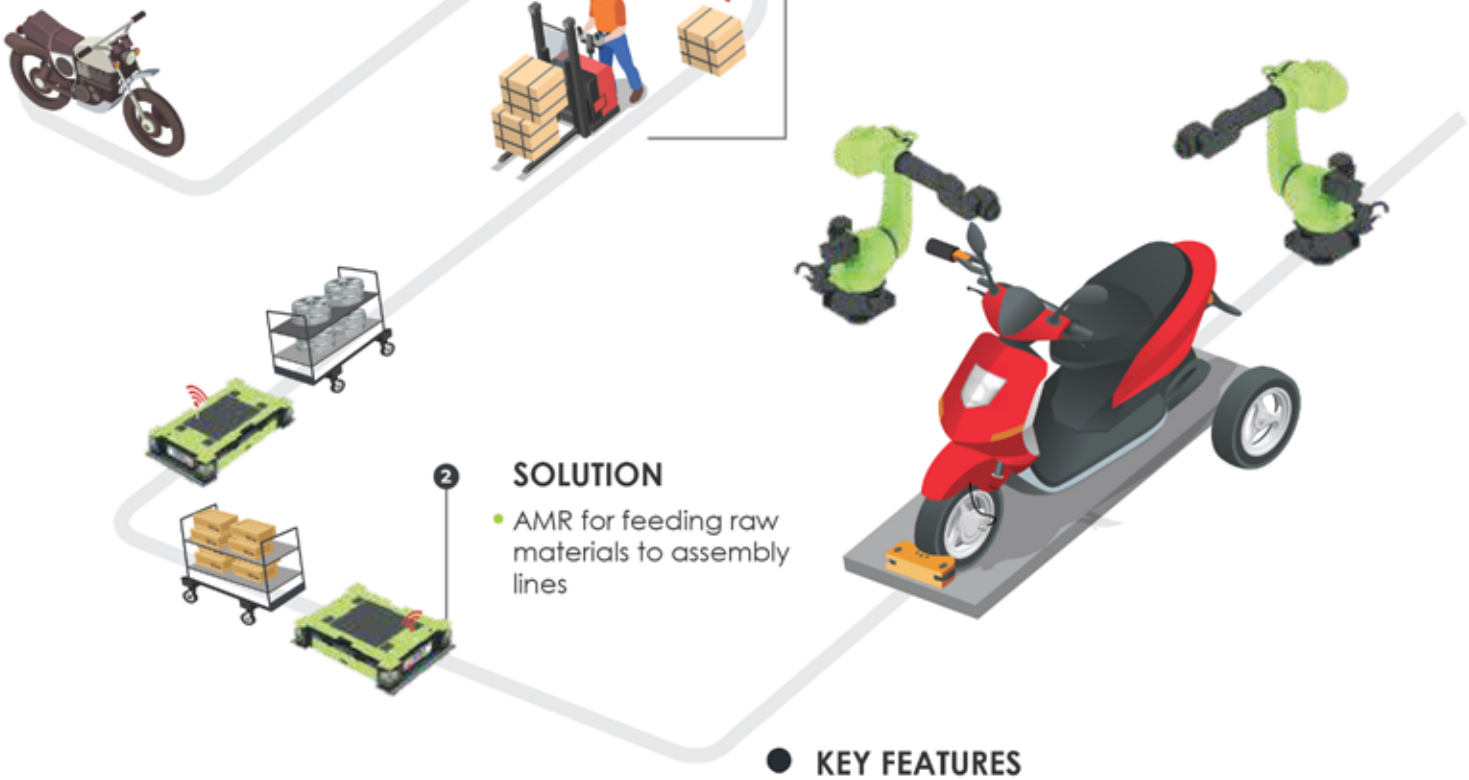
Novus Analytics Web Based Suite

- Monitors the entire Novus family of self-driving vehicles including AMR, ABOPT, & AGV in real time
- Performance tracking: uptime, efficiency, and task completion metrics
- Predictive maintenance: alerts before issues occur, reducing downtime
- Workflow optimization: identifies bottlenecks and improves throughput
- Custom dashboards: key metrics at a glance for plant managers, logistics heads, and CXOs
- Data-driven insights: empowers strategic decisions across the enterprise
- Industry X.O (Compact Mention)
- Part of Novus' software-defined ecosystem connecting AMRs, ABOPT, and AGVs for autonomous, connected, and modular operations across factories and warehouses

Case Study AMR for Automation of Assembly Line Processes

Improve productivity & optimize manpower in factory

World's Largest Two-wheeler Manufacturer



CHALLENGE WITH AUTOMATION OF MATERIAL MOVEMENT TO ASSEMBLY AREA

- Objective was to increase plant throughput with reduced manpower
- Improve safety on shopfloor

2 SOLUTION

- AMR for feeding raw materials to assembly lines

KEY FEATURES

- Integration of AMR system with plant MES
- Novus Analytics for analysis of AMR performance
- Automatic unhitching of trolley

RESULTS

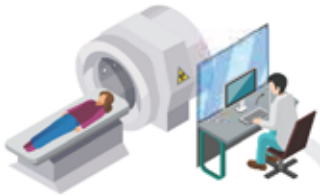
- Process aligned with Industry 4.0
- No restriction on floor movement of MHE and people
- Optimization of manpower
- Higher safety and AMR FOR AUTOMATION elimination of accidents

Case Study American Multinational Conglomerate

AMRs enable safety & automation as per global processess

CHALLENGE WITH AUTOMATION OF MATERIAL MOVEMENT

- Objective was to increase plant throughput with reduced manpower
- Real time tracking required for material movement
- Existing process not compliant with Industry 4.0



SOLUTION

- AMR for automating material movement for assembly operations
- Existing trolley used without any design modification

KEY FEATURES

- Auto-docking charging system to eliminate battery handling by operator
- AMR interface with line side machines for automatic dispatching & sequencing
- On-board safety interlocks

RESULTS

- Head count optimized by 75%
- ROI of 26 months
- Higher safety at work area
- Real time tracking of material movement

Case Study Global Specialist in Energy Management & Automation

Automated Material Transfer

AMRs enable workforce optimiztion and increase shop-floor safety

CHALLENGE WITH IMPLEMENTATION OF GLOBAL SAFETY DRIVE

- Client needed to reduce operators required for material transportation without impacting productivity
- Crowding of aisle spaces caused accidents and damage to material

SOLUTION

- Introduction of AMRs for material transport
- AMRs used for moving raw material from warehouse to assembly area
- Same AMR used for transportation of finished goods to warehouse

KEY FEATURES

- AMR carrying upto 10 trolleys in single trip
- Automatic unhitching of trolley

RESULTS

- More floor space available for man movement
- Elimination of accidents arising from transportation
- Manpower optimization
- ROI of under 18 months

Case Study Intralogistics Material Movement

CHALLENGE

Industry 4.0
build future ready, smart factory
Powerup intralogistic movement
across production

From the store, kits once prepared are **transported as unit load** by mobile robots to respective sub-assembly stations

FRAME WELDING LINE
ILR moves parts from welding stations to assembly line in a tug trolley setup. Worker calls the robot once parts are ready to be moved.

BATTERY FACILITY
Fully charged batteries are trolley tugged to assembly line for installation in the vehicle

KITTING, SUPER STORE AREA

WIP MATERIAL MOVEMENT
WIP material transfer across the warehouse through either unit load or trolley tugging is carried out on demand by the robots

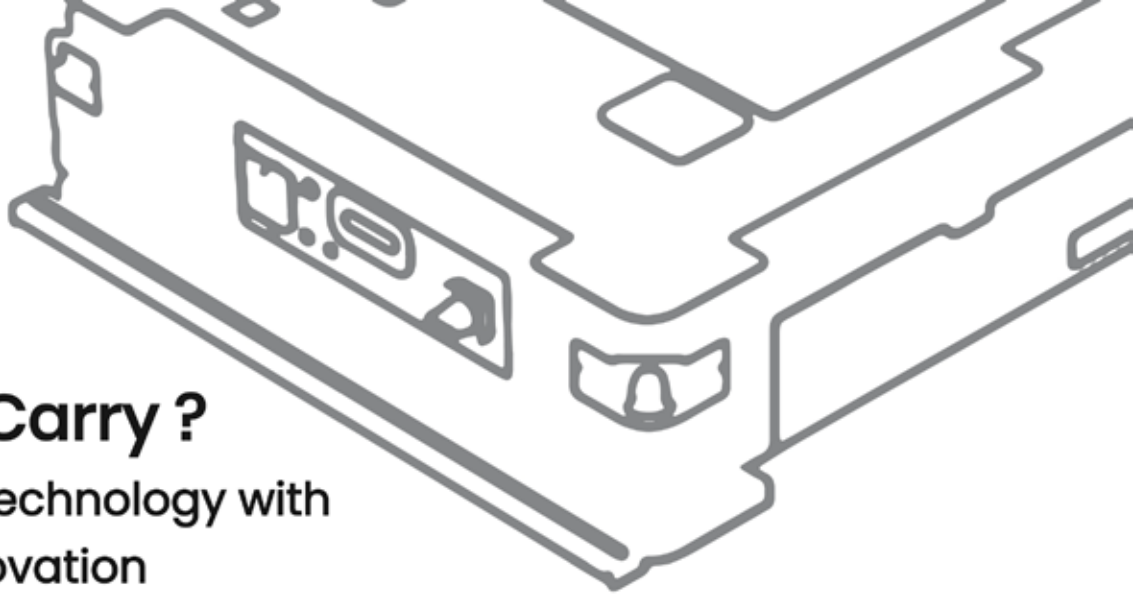
PAINT SHOP
Trolley tugging of paint finished parts from subassembly to main assembly for final commissioning

RESULTS

WIP MATERIAL MOVEMENT
efficiency increased. Post deployment the customer achieved higher speed and flexibility

SCALABILITY
Ability to ramp up production volume on demand by adding more AMR

MAN-MATERIAL-ENVIRONMENT SAFETY
Deployed solution provides ANSI standards of safe to work humanmachine environment



Why Novus Carry ?

Pioneering AMR Technology with Full In-House Innovation

Novus Carry Advantage – Why We Outperform Other AMRs

Feature	Novus Carry	Other AMRs
End-to-End In-House Development	Software, hardware, AI, fleet management fully designed & built by Novus	Mostly hardware-focused or software licensed from third parties
Multi-Industry Deployment	Automotive, FMCG, Pharma, Electronics, Semiconductor, Solar, 3PL, Retail	Limited industry focus
Flexible Modular Platform	Supports Lifter, Tugger, Tunneling, Conveyor, Frame Transport, Pick Assist	Limited modularity, fewe attachments
Human-Centric Design	Safety-first, seamless human-robot collaboration	Basic safety sensors
Advanced Navigation	Dynamic path planning, obstacle detection, adaptive routing	Fixed-path or less intelligent navigation
*Scalable & Customizable	Easily expands fleet and adapts to new workflows	Limited scalability
Proven Global Deployment	**100+** enterprise clients, **1200+ AMRs**, **120k+ ADAS** kits in use	Smaller footprint, mostly regional
Patents & Innovation	**150+** patents filed across robotics, AI, and autonomous systems	Few patents, limited proprietary tech

PLC
- Brand Agnostic
- Single PLC can Manage Multiple Processes

VDA 5050
- AGV/AMR/AGV+AMR+3rd Party

Movement Requirement
- For Guided Navigation (AGV/QR)
- For SLAM no need of QR & Magnetic Tape

Speeds
- Process AGV: 0.5-2m/sec
- ILR: 0.5-2 m/sec

Communication Protocols
- Modbus | Profinet | Ethernet IP
- PLC open | OPC UA

Global Presence
- Americas, APAC, EU, Africa

Novus USP

FMS & Software
- Hardware Agnostic, Software Defined
- Workflows

Sensor Positioning & Need
- Modular Architecture. Use Case Defined

Payload Ranges
- Process AGV: 500kg-20 Ton
- ILR: 100-2500 kg

Indoor/outdoors Applicability
- Yes for both

Charging Tech
- Contact (opportunity/inline)
- Contactless (opportunity/inline/continuous)

Compliance
- ISO 3691-4, UL, CE

Over 100+ Customers

NOVUS HI-TECH

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