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Nex-Gen

Ready to take your manufacturing
to the next level?

2024



"Empowering Industries with Autonomous Mobility"

+91 93638 08281

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sales@goat-robotics.com



About Us

GOAT ROBOTICS Is More Than Just A Company; It's A Beacon Of Innovation And Automation In India. Our Team Is Driven By A Passion To Revolutionize Industries, From Education To Heavy Industries, Through Our Powerful Mobile Robots. These Robots Can Handle Payloads Of Up To Several Tons, Making Them A Cornerstone Of The Make In India Initiative.

What Sets Us Apart Is Our Strong And Energetic Team. We're Not Just Colleagues; We're A Family, United By A Common Goal To Elevate The Future Of Robotics In India And Beyond. Each Member Brings Unique Skills And Expertise To The Table, Creating A Dynamic Environment Where Innovation Thrives.

What makes AMRs significant for the business?

Industrial Robots Have Helped To Boost Productivity, Safety, And Time Savings. Robots Can Produce Incredibly Accurate, Consistent, And High-Quality Work Without Needing Breaks Or Holidays Off. Industrial Robots Also Help To Remove Workers From The Hazardous Environments And Back Breaking Labor.

Improve accuracy

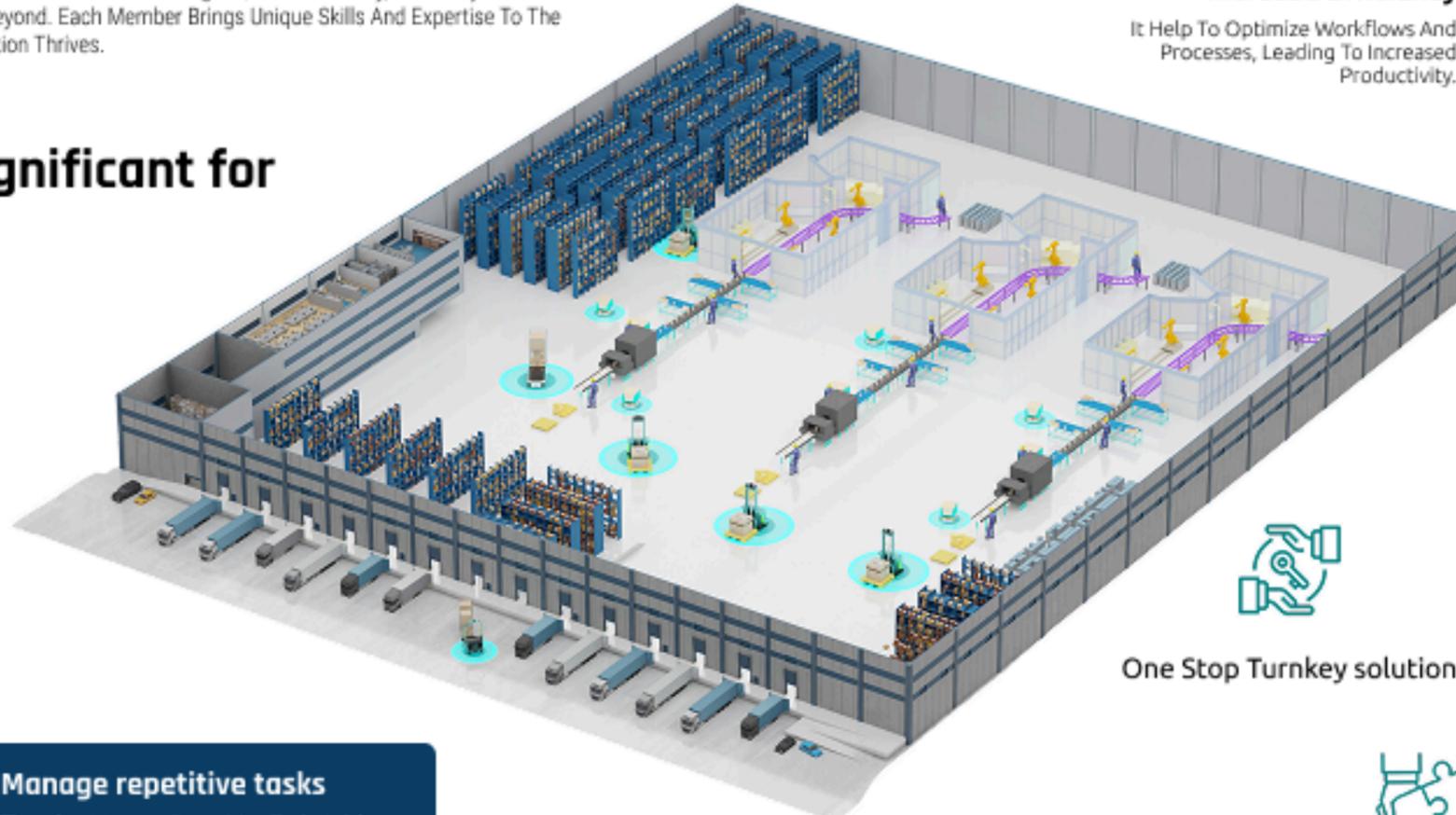
Robots Can Be Used To Automate Tasks That Are Prone To Human Error, Which Will Result In A More Consistent Product

Multi-staged application

A Single Robot Can Be Used To Handle Multiple Stages Of A Process In Sectors. This Will Save Time And Money

Manage repetitive tasks

They Can Manage Repetitive Tasks With Precision And Speed, Freeing Up Human Workers For More Complex Tasks



How can AMRs solve unique business problems?

Robots Are Typically Used In Manufacturing And Automotive Industries To Automate Welding, Painting, And Assembling Tasks. They Can Help Increase Efficiency And Accuracy And Reduce The Time And Labor Required To Complete Tasks.

Increase Efficiency

It Help To Optimize Workflows And Processes, Leading To Increased Productivity.



Provide Data

It Can Be Used To Monitor & Analyse Data And Provide 24/7 Customer Support.



Reduce Cost

Automating The System Enables Saving Time And Money And Maintaining High Quality.



How we Unique from other AMR Provider?



One Stop Turnkey solution



Tailor-made approach



Cost effective



Supports Wide variety of Integration



Cloud control & Fleet Management



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SLAM Based Autonomous Mobile Robot

GT 100/250/400



Conveyor



Towing



Cobot



Shelf



Lifting

A 100/250/400kg Payload Industrial Robot For Material Management, Adaptable To Any Application Layer, Features Robust Construction And Modular Design. It Accommodates Heavy Loads Using Powerful Motors And Actuators (If Lifting Operation Is Required). The Robot Supports Various End Effectors, Facilitating Diverse Tasks. Equipped With A Sophisticated Control System. It Can Be Used For Seamless Integration With External Devices And Systems If Needed. Safety Measures Include Obstacle Avoidance And Emergency Stop Functionalities. Connectivity With Wi-Fi Enable Seamless Communication With Manufacturing Environments. Designed For Scalability And Flexibility, It Effortlessly Integrates Into Evolving Industrial Setups, Enhancing Efficiency And Adaptability Across Sectors.

SLAM Capability
Dynamic Path Planning

Precise Localization
± 5 Cm

Robust Construction
Designed For Industry Use

Obstacle Avoidance
15 Cm

No Need Of New Alteration
During Deployment

Carrying Capacity Options
100/250/400 Kg

Manufacturing: Streamlines material handling tasks on assembly lines, aiding in loading and unloading heavy components.

Automotive: Assists in vehicle assembly processes, handling large components and sub-assemblies.

Pharmaceuticals: Enhances efficiency in pharmaceutical manufacturing by automating material handling and product packaging.

Warehousing: Optimizes inventory management by efficiently moving and organizing pallets and containers.

E-commerce: Improves order fulfillment processes in e-commerce warehouses by automating picking, packing, and shipping tasks.

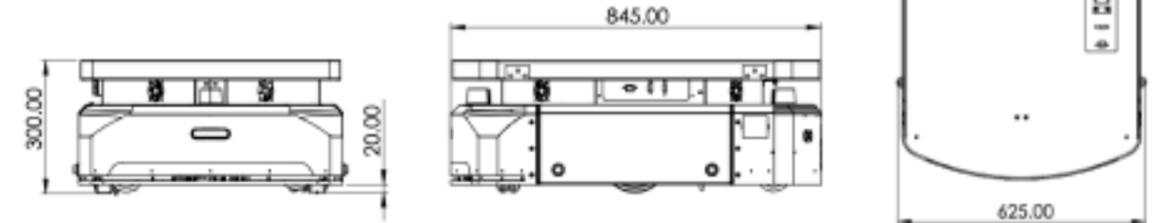
Food and Beverage: Facilitates packaging, palletizing, and sorting tasks in food processing plants and beverage distribution centers.

Aerospace: Supports manufacturing processes by transporting aircraft parts & materials within production facilities.

Logistics: Enhances distribution processes by automating order picking, packing, and sorting operations.

goat.
Robotics

TECHNICAL SPECIFICATION GT 100/250/400



ROBOT DIMENSION & WEIGHT

LENGTH X BREADTH X HEIGHT (L X B X H)	845 * 625 * 300 (mm)
SELF WEIGHT	80 kg / 120 kg / 140kg
GROUND CLEARANCE	20 mm
TURNING RADIUS	Zero degree In-place rotation
SUSPENSION	Passive traction rocker

PERFORMANCE & BATTERY

MAX. PAYLOAD	100 Kg / 250 Kg / 400KG
MAX SPEED	1.2 / 1 meter per second
MAX TURNING SPEED	45 Degree per second
POSITIONING ACCURACY	*±/-5 cm
MINAISLE WIDTH	950 mm

POWER SUPPLY

BATTERY TYPE / CAPACITY	LiFePO4 / 48Volt DC /35 Ah 40Ah 40 Ah
RUNNING TIME	8 HRS
CHARGING TIME & TYPE	4 Hrs / Manual or Autonomous

CONTROL SYSTEM AND SENSOR

PROCESSOR	Intel chipset
OPERATING SYSTEM	UBUNTU
CONTROL MODES	Autonomous / manual / Guided
COMMUNICATION	WIFI - 802.11 a/b/g/n/ac, 2.4 Ghz & 5 Ghz with antenna and Bluetooth
SENSORS	1X Lidar, 1X IMU, 2X Encoder, 1 X depth camera, optional ultrasonic sensors, optional bumper sensor
STANDARD LEAD OUTS	USB, External Emergency Port, ON/Off and Reset switch

ACCESSORIES

MANUAL CHARGER	Default
AUTONOMOUS CHARGER DOCKER	Optional
LIFTING/ CONVEYOR/TOWING/ SHELF STRUCTURE SYSTEMS	Optional

NAVIGATION

AUTONOMOUS MODE	SLAM + Visual
OBSTACLE AVOIDANCE	Pause play mode / Avoidance mode
PATH PLANNING	Defined path or natural navigation

SAFETY

OBSTACLE AVOIDANCE	Laser scanner / Depth camera / ultrasonic sensor
EMERGENCY SAFETY	Bumper sensor / Emergency stop button

ENVIRONMENT

OPERATING TEMPERATURE	5 to 40 Deg celcius
HUMIDITY	95% Non Condensing
AMBIENT TEMPERATURE	Near level (3%)
IP RATING	IP 21

SLAM Based Autonomous Mobile Robot

GTX 500/1000/1500



The 500/1000/1500 Kg Payload Industrial Robot Embodies Unparalleled Strength And Adaptability In Material Handling. With Robust Construction And Modular Design, It Seamlessly Integrates Into Diverse Industrial Applications. Powered By Potent Motors And Actuators, It Manages Heavy Loads With Precision And Reliability. Adaptable End Effectors Cater To A Broad Range Of Tasks, While Advanced Navigation Ensures Obstacle Avoidance For Smooth Movement. Safety Features, Including Collision Detection, Prioritize Workplace Security. Wi-Fi Connectivity Enables Seamless Communication Within Manufacturing Environments, Enhancing Operational Efficiency. Scalable And Flexible, It Effortlessly Adapts To Evolving Industrial Needs, Ensuring Optimized Productivity And Performance Across Sectors.

 **SLAM Capability**
Dynamic Path Planning

 **Precise Localization**
±5 Cm

 **Robust Construction**
Designed For Industry Use

 **Obstacle Avoidance**
15 Cm

 **No Need Of New Alteration**
During Deployment

 **Carrying Capacity Options**
500/1000/1500 Kg

Manufacturing: Streamlines material handling tasks on assembly lines, aiding in loading and unloading heavy components.

Warehousing: Optimizes inventory management by efficiently moving and organizing pallets and containers.

Aerospace: Supports manufacturing processes by transporting aircraft parts & materials within production facilities.

Automotive: Assists in vehicle assembly processes, handling large components and sub-assemblies.

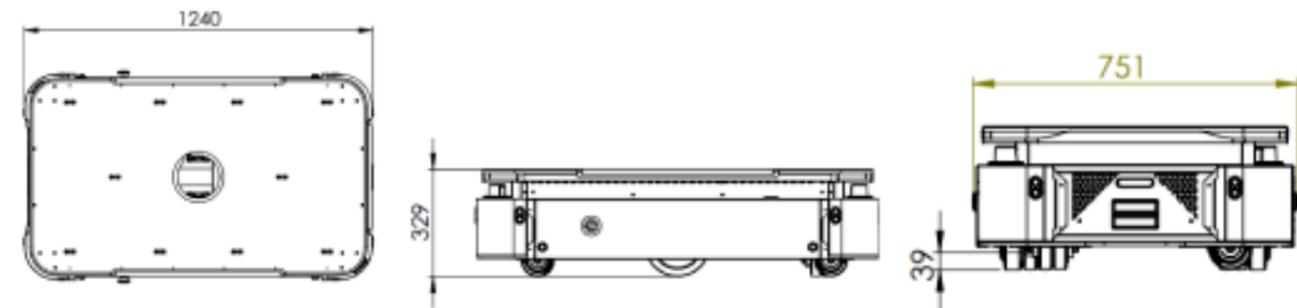
E-commerce: Improves order fulfillment processes in e-commerce warehouses by automating picking, packing, and shipping tasks.

Logistics: Enhances distribution processes by automating order picking, packing, and sorting operations.

Pharmaceuticals: Enhances efficiency in pharmaceutical manufacturing by automating material handling and product packaging.

Food and Beverage: Facilitates packaging, palletizing, and sorting tasks in food processing plants and beverage distribution centers.

TECHNICAL SPECIFICATION GTX 500/1000/1500



ROBOT DIMENSION & WEIGHT

LENGTH X BREADTH X HEIGHT (L X B X H)	1240 * 750 * 329 (mm)
SELF WEIGHT	170 Kg / 185Kg / 200Kg
GROUND CLEARANCE	39 MM
TURNING RADIUS	Zero degree in place
SUSPENSION	Passive traction rocker

PERFORMANCE & BATTERY

MAX. PAYLOAD	500 Kg / 1000Kg / 1500kg
MAX TURNING SPEED	45 / 30 Degree per second
MAX SPEED	1.2 / 1 meter per second
BATTERY TYPE	Lithium-Ion Battery
POSITIONING ACCURACY	*± 5CM
MIN AISLE WIDTH	1100 mm

POWER SUPPLY

BATTERY TYPE / CAPACITY	LiFePO4 / 48Volt DC / 50Ah
RUNNING TIME	8 Hr
CHARGING TIME & TYPE	4 Hrs / Manual or Autonomous

CONTROL SYSTEM AND SENSOR

PROCESSOR	Intel chipset
OPERATING SYSTEM	UBUNTU
CONTROL MODES	Autonomous / manual / Guided
COMMUNICATION	WIFI - 802.11 a/b/g/n/ac, 2.4 Ghz & 5 Ghz with antenna and Bluetooth
SENSORS	2X Lidar, 1X IMU, 2X Encoder, 2 X depth camera, optional ultrasonic sensors, optional bumper sensor
STANDARD LEADOUTS	USB, External Emergency Port, ON/Off and Reset switch

ACCESSORIES

MANUAL CHARGER	Default
AUTONOMOUS CHARGER DOCKER	Optional
LIFTING/ CONVEYOR/TOWING/ SHELF STRUCTURE SYSTEMS	Optional

NAVIGATION

AUTONOMOUS MODE	SLAM + Visual
OBSTACLE AVOIDANCE	Pause play mode / Avoidance mode
PATH PLANNING	Defined path or natural navigation

SAFETY

OBSTACLE AVOIDANCE	Laser scanner / Depth camera / ultrasonic sensor
EMERGENCY SAFETY	Bumper sensor / Emergency stop button

ENVIRONMENT

OPERATING TEMPERATURE	5 to 40 Deg celcius
HUMIDITY	95% Non condensing
ALLOWABLE SLOP	Near level (3%)
IP Rating	IP21

SLAM Based Autonomous Forklift

GT-XP 1000



Load Type

The GTXP 1000 is an indoor robot designed for robust material handling within industrial settings. With an impressive carrying capacity of up to 1 ton, it efficiently manages heavy loads, enhancing productivity in various manufacturing environments. Specifically engineered to lift pallets for material movement, it streamlines operations and optimizes workflow efficiency. The GTXP 1000 combines strength and precision, ensuring reliable performance in demanding industrial applications. Its compact design and indoor capabilities make it well-suited for navigating confined spaces and crowded production floors. With the GTXP 1000, industries can achieve heightened efficiency and streamline material handling processes with ease.

 **SLAM Capability**
Dynamic Path Planning

 **Precise Localization**
±5 Cm

 **Robust Construction**
Designed For Industry Use

 **Obstacle Avoidance**
15 Cm

 **No Need Of New Alteration**
During Deployment

 **Carrying Capacity Options**
Handles Up To 1 Tons

Manufacturing: Streamlines material handling tasks on assembly lines, aiding in loading and unloading heavy components.

Warehousing: Optimizes inventory management by efficiently moving and organizing pallets and containers.

Logistics: Enhances distribution processes by automating order picking, packing, and sorting operations.

Automotive: Assists in vehicle assembly processes, handling large components and sub-assemblies.

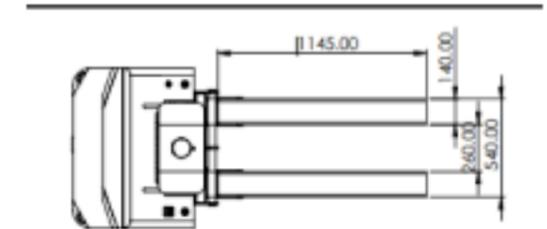
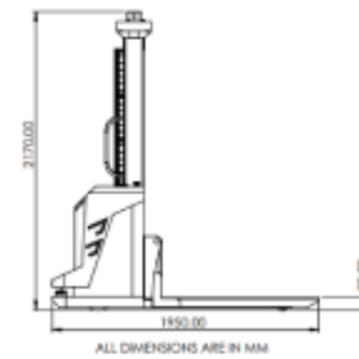
Aerospace: Supports manufacturing processes by transporting aircraft parts & materials within production facilities.

Food and Beverage: Facilitates packaging, palletizing, and sorting tasks in food processing plants and beverage distribution centers.

Pharmaceuticals: Enhances efficiency in pharmaceutical manufacturing by automating material handling and product packaging.

E-commerce: Improves order fulfillment processes in e-commerce warehouses by automating picking, packing, and shipping tasks.

TECHNICAL SPECIFICATION GT-XP1000



ROBOT DIMENSION & WEIGHT

LENGTH X BREADTH X HEIGHT (L X B X H)	1940 * 880 * 2170 (mm)
SELF WEIGHT	850 Kg
GROUND CLEARANCE	20 mm
TURNING RADIUS	1200 mm Radius
SUSPENSION	Passive

PERFORMANCE & BATTERY

MAX. PAYLOAD	1000 kg
MAX SPEED	1 meter per second
MAX TURNING SPEED	30 degree per sec
POSITIONING ACCURACY	*±/ 5CM
MIN AISLE WIDTH	1300 mm

POWER SUPPLY

BATTERY TYPE / CAPACITY	LiFePO4 / 48Volt DC / 60Ah
RUNNING TIME	6 Hr
CHARGING TIME & TYPE	3 Hrs / Manual or Autonomous

CONTROL SYSTEM AND SENSOR

PROCESSOR	Intel chipset
OPERATING SYSTEM	UBUNTU
CONTROL MODES	Autonomous / manual / Guided
COMMUNICATION	WiFi - 802.11 a/b/g/n/ac, 2.4 Ghz & 5 Ghz with antenna and Bluetooth
SENSORS	1X 3D Lidar, 2X2D Lidar 1X IMU, 2X Encoder, 2 X depth camera, optional ultrasonic sensors, optional bumper sensor
STANDARD LEADOUTS	USB, External Emergency Port, ON/Off and Reset switch

ACCESSORIES

MANUAL CHARGER	Default
AUTONOMOUS CHARGER DOCKER	Optional
LIFTING/ CONVEYOR/TOWING/ SHELF STRUCTURE SYSTEMS	Optional

NAVIGATION

AUTONOMOUS MODE	SLAM + Visual
OBSTACLE AVOIDANCE	Pause play mode / Avoidance mode
PATH PLANNING	Defined path or natural navigation

SAFETY

OBSTACLE AVOIDANCE	Laser scanner / Depth camera / ultrasonic sensor
EMERGENCY SAFETY	Bumper sensor / Emergency stop button

ENVIRONMENT

OPERATING TEMPERATURE	5 to 40 Deg celcius
HUMIDITY	95% Non condensing
ALLOWABLE SLOP	Near level (3%)
IP Rating	IP21

SLAM Based Autonomous Outdoor logistics

GT-XT 1000



Load Type

The GTT 1000 is a versatile robot engineered for material movement across industrial settings. With a remarkable towing capacity of up to 1 ton, it efficiently transports heavy loads, offering enhanced productivity. Designed to seamlessly attach to any trailer, it streamlines material movement processes within industries. Its adaptability extends to both indoor and outdoor environments, offering flexibility across various operational landscapes. The GTT 1000 embodies reliability and efficiency, providing seamless integration into diverse industrial workflows. Whether navigating tight indoor spaces or outdoor terrains, this robot optimizes material handling operations, ensuring smooth and efficient logistics management.



SLAM Capability
Dynamic Path Planning



Precise Localization
± 5 Cm



Robust Construction
Designed For Industry Use



Obstacle Avoidance
15 Cm



No Need Of New Alteration
During Deployment



Carrying Capacity Options
Handles Up To 1 Tons

Manufacturing: Streamlines material handling tasks on assembly lines, aiding in loading and unloading heavy components.

Warehousing: Optimizes inventory management by efficiently moving and organizing pallets and containers.

Logistics: Enhances distribution processes by automating order picking, packing, and sorting operations.

Automotive: Assists in vehicle assembly processes, handling large components and sub-assemblies.

Aerospace: Supports manufacturing processes by transporting aircraft parts & materials within production facilities.

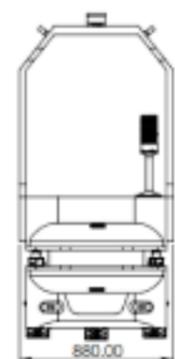
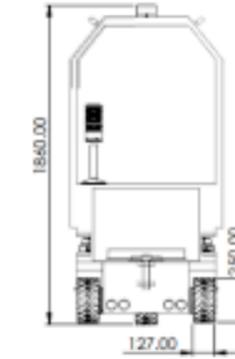
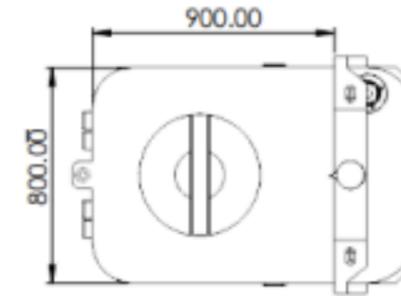
Food and Beverage: Facilitates packaging, palletizing, and sorting tasks in food processing plants and beverage distribution centers.

Pharmaceuticals: Enhances efficiency in pharmaceutical manufacturing by automating material handling and product packaging.

E-commerce: Improves order fulfillment processes in e-commerce warehouses by automating picking, packing, and shipping tasks.

TECHNICAL SPECIFICATION GT-XT1000

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Robotics



ROBOT DIMENSION & WEIGHT

LENGTH X BREADTH X HEIGHT (L X B X H)	1275 * 800 * 1900 (mm)
SELF WEIGHT	350 Kg
GROUND CLEARANCE	120 mm
TURNING RADIUS	800 mm Radius
SUSPENSION	Passive

PERFORMANCE & BATTERY

MAX. PAYLOAD	1000 kg
MAX SPEED	1.5 meter per second
MAX TURNING SPEED	30 degree per sec
POSITIONING ACCURACY	*±/- 5CM
MIN AISLE WIDTH	1200 mm

POWER SUPPLY

BATTERY TYPE / CAPACITY	LiFePO4 / 48Volt DC / 80Ah
RUNNING TIME	8 Hr
CHARGING TIME & TYPE	4 Hrs / Manual or Autonomous

CONTROL SYSTEM AND SENSOR

PROCESSOR	Intel chipset
OPERATING SYSTEM	UBUNTU
CONTROL MODES	Autonomous / manual / Guided
COMMUNICATION	WiFi - 802.11 a/b/g/n/ac, 2.4 Ghz & 5 Ghz with antenna and Bluetooth
SENSORS	1X 3D Lidar, 2X2D Lidar 1X IMU, 2X Encoder, 1 X depth camera, optional ultrasonic sensors, optional bumper sensor
STANDARD LEADOUTS	USB, External Emergency Port, ON/Off and Reset switch

ACCESSORIES

MANUAL CHARGER	Default
AUTONOMOUS CHARGER DOCKER	Optional
LIFTING/ CONVEYOR/TOWING/ SHELF STRUCTURE SYSTEMS	Optional

NAVIGATION

AUTONOMOUS MODE	SLAM + Visual
OBSTACLE AVOIDANCE	Pause play mode / Avoidance mode
PATH PLANNING	Defined path or natural navigation

SAFETY

OBSTACLE AVOIDANCE	Laser scanner / Depth camera / ultrasonic sensor
EMERGENCY SAFETY	Bumper sensor / Emergency stop button

ENVIRONMENT

OPERATING TEMPERATURE	5 to 40 Deg celcius
HUMIDITY	95% Non condensing
ALLOWABLE SLOP	Near level (3%)
IP Rating	IP21