



gridbots

AUTONOMOUS INDOOR TRANSPORT ROBOTS

A D A P T I V E | F A S T | P R E C I S E





NO.1

AMR Supplier from India

50+

Projects Completed

100+

Robots Delivered

15

Components Per AMR





INDUSTRY 4.0 SYSTEMS

State of art health monitoring and control in real time



Gridbots autoBOTS are equipped with state of art health monitoring sensors control hardware and connectivity infrastructure. These systems can provide all the information about the critical parts of the robot while they are executing tasks on the floor.

These critical data points are available on the touch on a finger to the user who can control any aspect of the system and add versatility.

VDA - 5050

State of art inter operability

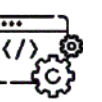
All of Gridbots AMR Solutions come with the advanced and robust interface for the outside world using the open communication protocols.

We support many custom and standard data sharing communication interface vide our platform which makes it easy to share data with other systems



FLEXIBLE TRAFFIC MANAGMENT

Control up to 1000 AMR Devices with one software



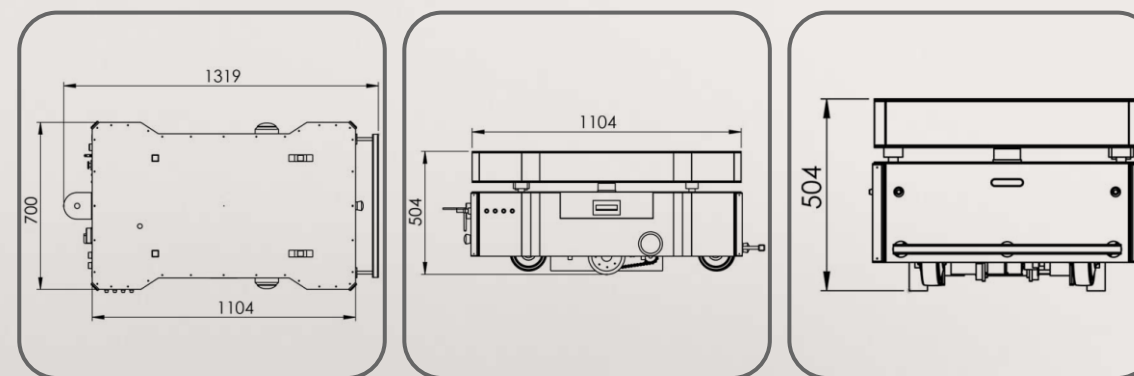
With our robust and modular software we provide the capability to control up to 1000 AMR's of various configurations using a single software interface

The control and monitoring interfaces provide the user a flexibility to have a realistic control over the material flow in the production environment and tangible results which match the real world requirements.

TROLLEY-MATIK

SELF DRIVING TROLLEY TRANSPORTER

- 3.0t** LOAD CAPACITY
- 1.5m/sec** MAX SPEED
- 0.3m** LIFTING HEIGHT
- 8.0h** RUNTIME



PERFORMANCE

Payload Capacity	500/1000/2000/3000 Kg
Runtime	8 Hours
Lifting Height	0.3 Meters
Turning Speed	50 Degrees/Sec
Turning Radius	0 mm
Max Speed	1.5 M/Sec

CHASSIS

Dimensions [LxBxH]	1200x800x350 mm
Vehicle Weight	300 Kgs
Suspension	Passive
Ground Clearance	40 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

POWER SYSTEM

Battery Charging	Auto
Battery Swap	Optional
Battery Chemistry	LiFePO4
Fuses	All Power Sockets
Charging Time	3 Hours
Power Monitoring	Active [IOT Based]

SAFETY

Ultrasonic Sensors	4x
3D Camera	1x
Bumper	Front
Safety Lidar	1x[SICK or Equivalent]
E-Stop	2x
Impact Sensor	1x

NAVIGATION

Navigation	Fully Autonomous [Visual SLAM]
Location Accuracy	20 mm [100x100 Meter Map]
Traffic Controller	Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser
Slam Mode	Visual + Natural Features

ENVIRONMENTAL

IP Rating	21
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

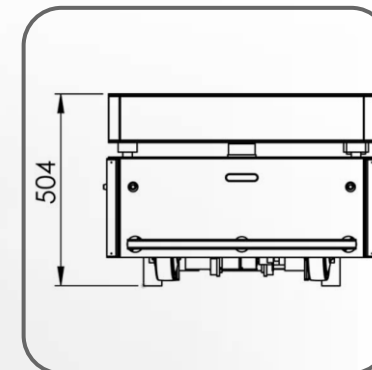
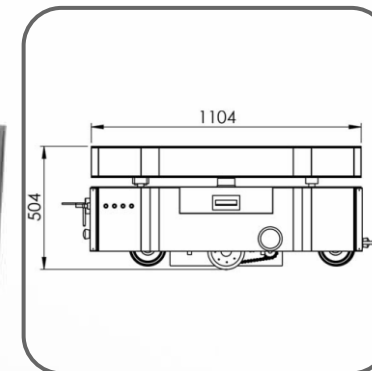
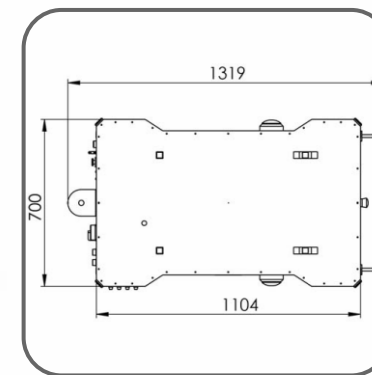
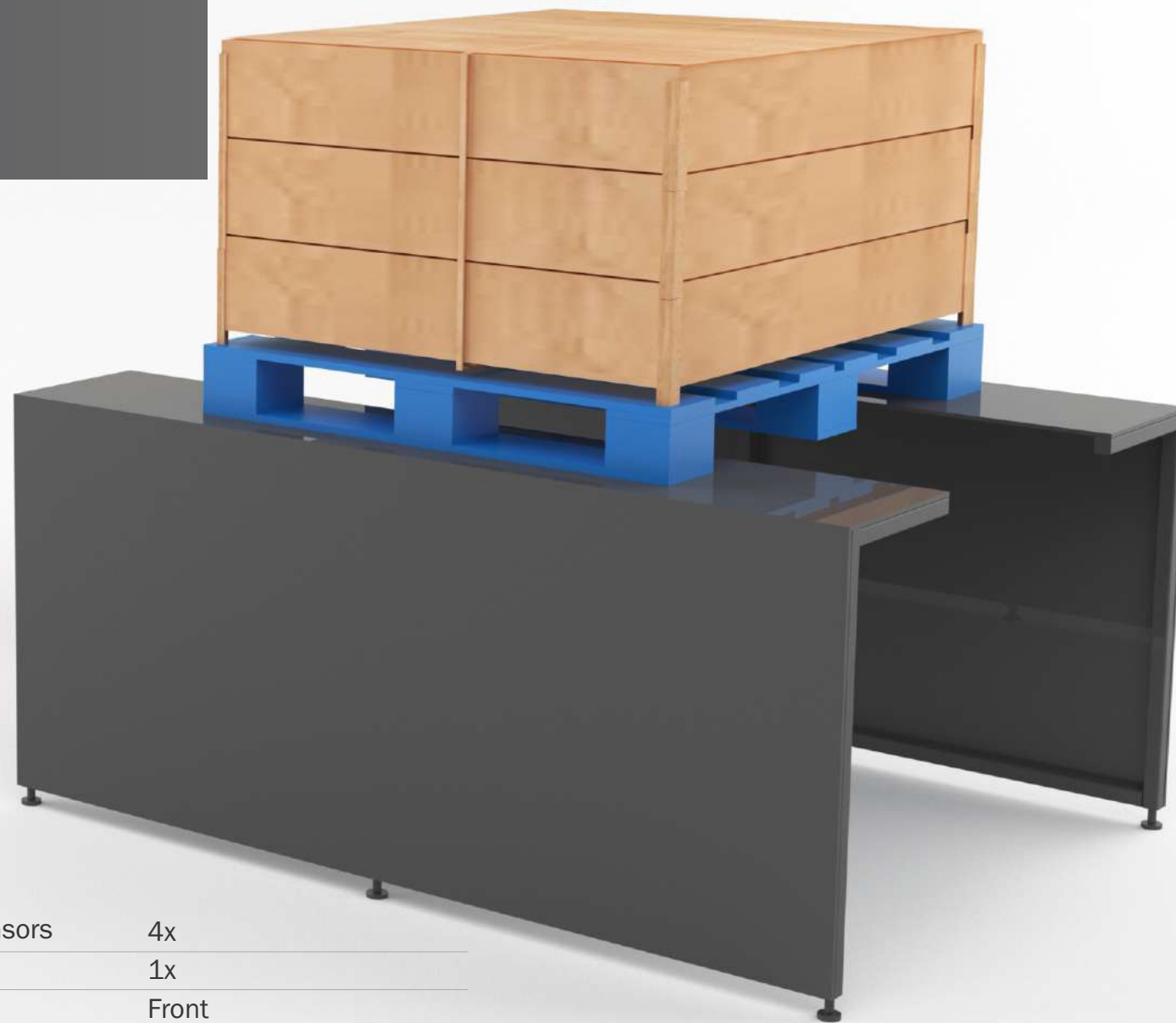
COMPUTER





On Board Computer	i7 [11'th Gen]
GPU	nvidia - 1080
RAM	16 GB
Aux Controller	ARM-32 Bit

- Automatic Charging
- 3D Path Navigation
- IP 21 Weather Proof
- 360 Degree Panoramic View
- Fully Autonomous Navigation
- Full Range Safety Protections

LIFT-MATIK

SELF DRIVING LIFT TRANSPORTER



-  **3.0t**
LOAD CAPACITY
-  **1.5m/sec**
MAX SPEED
-  **1.5m**
LIFTING HEIGHT
-  **8.0h**
RUNTIME

PERFORMANCE

Payload Capacity	500/1000/2000/3000 Kg
Runtime	8 Hours
Lifting Height	Upto 1.5 Meters
Turning Speed	50 Degrees/Sec
Turning Radius	0 mm
Max Speed	1.5 M/Sec

CHASSIS

Dimensions [LxBxH]	1200x800x350 mm
Vehicle Weight	300 Kgs
Suspension	Passive
Ground Clearance	40 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

POWER SYSTEM

Battery Charging	Auto
Battery Swap	Optional
Battery Chemistry	LiFePO4
Fuses	All Power Sockets
Charging Time	3 Hours
Power Monitoring	Active [IOT Based]

SAFETY

Ultrasonic Sensors	4x
3D Camera	1x
Bumper	Front
Safety Lidar	1x[SICK or Equivalent]
E-Stop	2x
Impact Sensor	1x

NAVIGATION







Navigation	Fully Autonomous [Visual SLAM]
Location Accuracy	20 mm [100x100 Meter Map]
Traffic Controller	Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser
Slam Mode	Visual + Natural Features

ENVIRONMENTAL

IP Rating	21
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

COMPUTER

On Board Computer	i7 [11'th Gen]
GPU	nvidia - 1080
RAM	16 GB
Aux Controller	ARM-32 Bit

-  Automatic Charging
-  3D Path Navigation
-  IP 21 Weather Proof
-  360 Degree Panoramic View
-  Fully Autonomous Navigation
-  Full Range Safety Protections

LATCH-MATIK

SELF DRIVING TROLLEY TRANSPORTER



3.0t
LOAD CAPACITY



1.5m/sec
MAX SPEED



0.3m
LIFTING HEIGHT



8.0h
RUNTIME



PERFORMANCE

Payload Capacity	500/1000/2000/3000 Kg
Runtime	8 Hours
Lifting Height	Upto 1.5 Meters
Turning Speed	50 Degrees/Sec
Turning Radius	0 mm
Max Speed	1.5 M/Sec

CHASSIS

Dimensions [LxBxH]	1200x800x350 mm
Vehicle Weight	300 Kgs
Suspension	Passive
Ground Clearance	40 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

POWER SYSTEM

Battery Charging	Auto
Battery Swap	Optional
Battery Chemistry	LiFePO4
Fuses	All Power Sockets
Charging Time	3 Hours
Power Monitoring	Active [IOT Based]

SAFETY

Ultrasonic Sensors	4x
3D Camera	1x
Bumper	Front
Safety Lidar	1x[SICK or Equivalent]
E-Stop	2x
Impact Sensor	1x

NAVIGATION

Navigation	Fully Autonomous [Visual SLAM]
Location Accuracy	20 mm [100x100 Meter Map]
Traffic Controller	Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser
Slam Mode	Visual + Natural Features

ENVIRONMENTAL

IP Rating	21
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

COMPUTER

On Board Computer	i7 [11'th Gen]
GPU	nvidia - 1080
RAM	16 GB
Aux Controller	ARM-32 Bit



Automatic Charging



3D Path Navigation



IP 21 Weather Proof



360 Degree Panoramic View



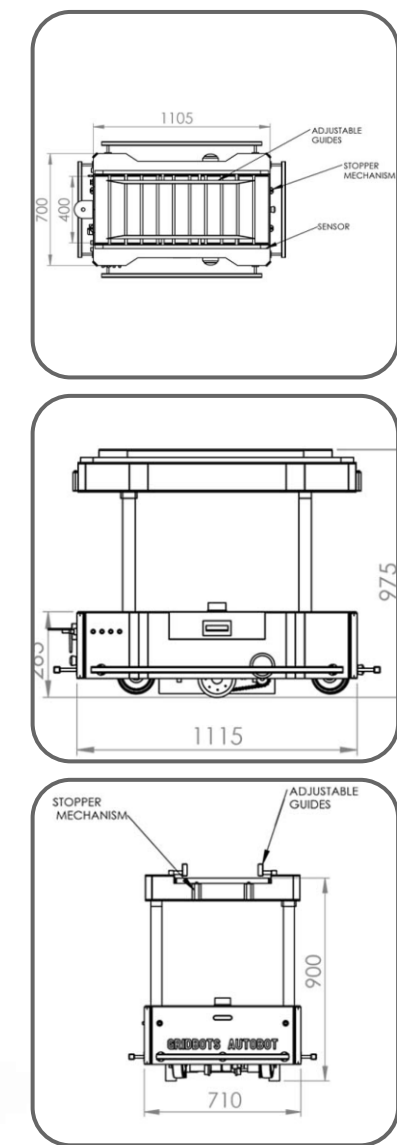
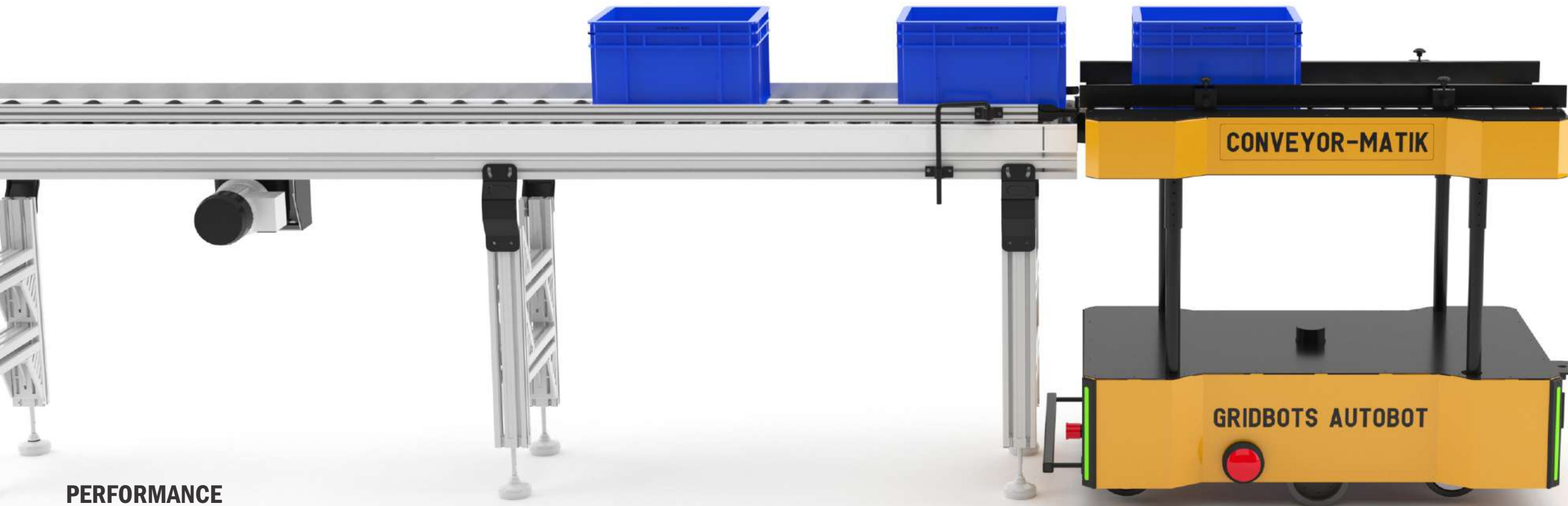
Fully Autonomous Navigation



Full Range Safety Protections

CONVEYOR-MATIK

SELF DRIVING CONVEYOR TRANSPORTER



PERFORMANCE


Payload Capacity	100/500/1000/2500 Kg
Runtime	8 Hours
Roller Bed Dimension	1100x500 mm
Turning Speed	50 Degrees/Sec
Turning Radius	0 mm
Max Speed	1.5 M/Sec


CHASSIS


Dimensions [LxBxH]	1200x700x480 mm
Vehicle Weight	300 Kgs
Suspension	Passive
Ground Clearance	40 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

POWER SYSTEM

Battery Charging	Auto
Battery Swap	Optional
Battery Chemistry	LiFePO4
Fuses	All Power Sockets
Charging Time	3 Hours
Power Monitoring	Active [IOT Based]

 **3.0t**
LOAD CAPACITY

 **1.5m/sec**
MAX SPEED

 **1.5m**
LIFTING HEIGHT

 **8.0h**
RUNTIME

SAFETY

Ultrasonic Sensors	4x
3D Camera	1x
Bumper	Front
Safety Lidar	1x[SICK or Equivalent]
E-Stop	2x
Impact Sensor	1x

NAVIGATION

Navigation	Fully Autonomous [Visual SLAM]
Location Accuracy	20 mm [100x100 Meter Map]
Traffic Controller	Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser
Slam Mode	Visual + Natural Features

ENVIRONMENTAL

IP Rating	21
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

COMPUTER

On Board Computer	i7 [11'th Gen]
GPU	nvidia - 1080
RAM	16 GB
Aux Controller	ARM-32 Bit

 Automatic Charging

 3D Path Navigation

 IP 21 Weather Proof





 360 Degree Panoramic View

 Fully Autonomous Navigation

 Full Range Safety Protections

LIFT-MATIK-X

SCISSORS LIFT AMR

	3.0t LOAD CAPACITY		1.5m/sec MAX SPEED
	1.0m LIFTING HEIGHT		8.0h RUNTIME

PERFORMANCE

Payload Capacity	1000/2000/3000 Kg
Runtime	8 Hours
Lifting Height	Upto 1.0 Meters
Turning Speed	50 Degrees/Sec
Turning Radius	0 mm
Max Speed	1.5 M/Sec

CHASSIS

Dimensions [LxBxH]	1100x700x480 mm
Vehicle Weight	300 Kgs
Suspension	Passive
Ground Clearance	40 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

POWER SYSTEM

Battery Charging	Auto
Battery Swap	Optional
Battery Chemistry	LiFePO4
Fuses	All Power Sockets
Charging Time	3 Hours

SAFETY

Ultrasonic Sensors	4x
3D Camera	1x
Bumper	Front
Safety Lidar	2x[SICK or Equivalent]
E-Stop	2x
Impact Sensor	1x



NAVIGATION

Navigation	Fully Autonomous [Visual SLAM]
Location Accuracy	20 mm [100x100 Meter Map]
Traffic Controller	Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser
Slam Mode	Visual + Natural Features

ENVIRONMENTAL

IP Rating	21
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

COMPUTER

On Board Computer	i7 [11'th Gen]
GPU	nvidia - 1080
RAM	16 GB
Aux Controller	ARM-32 Bit



Automatic Charging



3D Path Navigation



IP 21 Weather Proof



360 Degree Panoramic View







Fully Autonomous Navigation



Full Range Safety Protections

ASSEMBLY-MATIK

FLEXIBLE ASSEMBLY STATIONS AMR

 3.0t LOAD CAPACITY	 1.5m/sec MAX SPEED
 1.0m LIFTING HEIGHT	 8.0h RUNTIME

PERFORMANCE

Payload Capacity	1000/2000/3000 Kg
Runtime	8 Hours
Lifting Height	Upto 1.0 Meters
Turning Speed	50 Degrees/Sec
Turning Radius	0 mm
Max Speed	1.5 M/Sec

CHASSIS

Dimensions [LxBxH]	1100x700x480 mm
Vehicle Weight	300 Kgs
Suspension	Passive
Ground Clearance	40 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

POWER SYSTEM

Battery Charging	Auto
Battery Swap	Optional
Battery Chemistry	LiFePO4
Fuses	All Power Sockets
Charging Time	3 Hours

SAFETY

Ultrasonic Sensors	4x
3D Camera	1x
Bumper	Front
Safety Lidar	2x[SICK or Equivalent]
E-Stop	2x
Impact Sensor	1x



NAVIGATION

Navigation	Fully Autonomous [Visual SLAM]
Location Accuracy	20 mm [100x100 Meter Map]
Traffic Controller	Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser
Slam Modo	Visual + Natural Features

ENVIRONMENTAL

IP Rating	21
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

COMPUTER

On Board Computer	i7 [11'th Gen]
GPU	nvidia - 1080
RAM	16 GB
Aux Controller	ARM-32 Bit



Automatic Charging



3D Path Navigation



IP 21 Weather Proof



360 Degree Panoramic View







Fully Autonomous Navigation



Full Range Safety Protections

WELD-MATIK

SELF DRIVING AMR FOR WELDING ASSEMBLY

 20.0t LOAD CAPACITY	 0.5m LIFTING HEIGHT
 1.5m/sec MAX SPEED	 8.0h RUNTIME

PERFORMANCE

Payload Capacity	1-20 Tonne
Runtime	8 Hours
Lifting Height	Upto 0.5 Meters
Turning Speed	50 Degrees/Sec
Turning Radius	0 mm
Max Speed	1.5 M/Sec

CHASSIS

Dimensions [LxBxH]	1100x700x480 mm
Vehicle Weight	300 Kgs
Suspension	Passive
Ground Clearance	40 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

POWER SYSTEM

Battery Charging	Auto
Battery Swap	Optional
Battery Chemistry	LiFePO4
Fuses	All Power Sockets
Charging Time	3 Hours

SAFETY

Ultrasonic Sensors	4x
3D Camera	1x
Bumper	Front
Safety Lidar	2x[SICK or Equivalent]
E-Stop	2x
Impact Sensor	1x



NAVIGATION

Navigation	Fully Autonomous [Visual SLAM]
Location Accuracy	20 mm [100x100 Meter Map]
Traffic Controller	Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser
Slam Modo	Visual + Natural Features

ENVIRONMENTAL

IP Rating	21
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

COMPUTER

On Board Computer	i7 [11'th Gen]
GPU	nvidia - 1080
RAM	16 GB
Aux Controller	ARM-32 Bit



Automatic Charging



3D Path Navigation



IP 21 Weather Proof



360 Degree Panoramic View



Fully Autonomous Navigation



Full Range Safety Protections

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