

# AUTONOMOUS TROLLEY TRANSPORT

SELF DRIVING TROLLEY TRANSPORTER AMR

# ABOUT GRIDBOTS

We are a Technology company from India and work in the field of Robotics - Artificial Intelligence and Machine Vision. Founded in August 2007 by young and passionate innovator Mr. Pulkit Gaur [TED Fellow and MIT Young Innovator of the year]. We today are a team of more than 50 people- Head quartered in Ahmedabad and having offices in Pune and Delhi.

We design and develop ultra high performance systems which are used in the industry for defect detection - dimension measurement - sorting applications - grading application and many other ways. With our machine vision and robotic solutions we are helping our clients achieve digital factory goals in a time bound manner.

We would be glad to hear about your industry 4.0 adaptation strategy and would love to get in touch with you to explore the synergies in working together !

## NO.1

AMR Supplier from India

## 95+

Projects Completed

## 100+

Robots Delivered

## 2000+

Components Per AMR









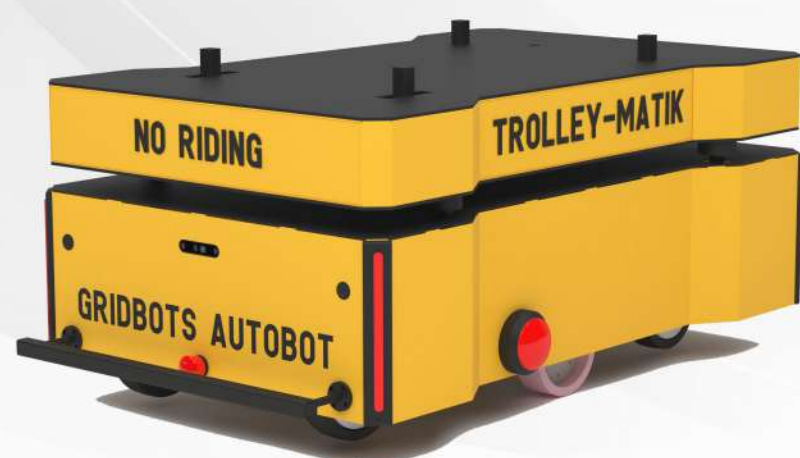
# TROLLEY-MATIK

## SELF DRIVING TROLLEY TRANSPORTER

### INDOOR TROLLEY SHIFTING AMR

Load Capacity	Lifting Height	Max Speed	Runtime
<b>3.0<sub>t</sub></b>	<b>0.3<sub>m</sub></b>	<b>1.5<sub>m/sec</sub></b>	<b>8.0<sub>h</sub></b>

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



#### PERFORMANCE

Payload Capacity	500/1000/1500/2000/3000 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	1200x800x350 mm [LxBxH]
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



**GRIDBOTS TECHNOLOGIES PVT. LTD.**

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