

*gridbots*



# AUTO-DUMPER

SELF DRIVING DUMPER

# 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

## 50+

Projects Completed

## 100+

Robots Delivered

## 15

Components Per AMR



# AUTO-DUMPER

## SELF DRIVING DUMPER

### SELF DRIVING DOZERS

Load Capacity

0.5t

Tilt Angle

40degrees

Max Speed

20Km/h

Runtime

8.0h



Automatic Charging



3D Path Navigation



Fully Autonomous Navigation



IP 21 Weather Proof



360 Degree Panoramic View



Full Range Safety Protections



### PERFORMANCE

Payload Capacity	500 Kg
Runtime	Upto 8 Hours
Load Tilt	40 Degrees
Vehicle Speed	20 km/h
Turning Radius	2000 mm
Max Speed	20 km/h

### CHASSIS

Dimensions	900x600x1000 mm [LxBxH]
Vehicle Weight	300 Kgs
Suspension	Passive
Ground Clearance	300 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

### POWER SYSTEM

Battery Charging	Auto
Battery Swap	Optional
Battery Chemistry	LiFePO4
Lift Mechanism	Hydraulic
Charging Time	4 Hours

### SAFETY

TOF Sensors	6x
3D Camera	2x
Impact Bumpers	Front + Back
Safety Lidar	2x [SICK or Equivalent]
E-Stop	2x
6 DOF Tracker	1x

### NAVIGATION

Navigation	Fully Autonomous [3D Lidar+GPS+ Visual SLAM]
Location Accuracy	Less than 0.1 %
Traffic Controller	Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser
Slam Mode	Hybrid Auto Adaptive

### ENVIRONMENTAL

IP Rating	56
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

### COMPUTER

On Board Computer	Multi Processor Batch
GPU	nvidia - 1080
Off Board	i9 - intel
Aux Controller	ARM-32 Bit

## **GRIDBOTS TECHNOLOGIES PVT. LTD.**

### **Main Office Address**

Office #306, Maharana Pratap Complex,  
Behind V.S. Hospital, Ashram Road,  
Ahmedabad - 380006,  
Gujarat, India.

### **Factory Address**

Survey No. 157, Fatehwadi,  
Kismat Estate, Near Alwish Motors,  
Sanathal-Bakroal Ring Road,  
Ahmedabad-382210.

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