

*gridbots*



- | ADAPTIVE
- | FAST
- | PRECISE

# AUTO-HAULER

SELF DRIVING OFF ROAD TRUCK



**NO.1**

Robot Manufacturer in India

**50+**

Projects Completed

**100+**

Robots Delivered

**3**

Manufacturing Units



# AUTO-HAULER

SELF DRIVING OFF ROAD TRUCK

Gridbots AUTO-HAULER is an autonomous self driving L5 capable truck which can transport 5/10 tonne of payload on construction sites, factories fully autonomously and safely. It is ideally suited for material transport applications within mines, construction sites or factories.

The truck is capable of moving on roads and off-roading.

The tilt bucket is hydraulically controlled and comes with a load sensor to calculate the load dynamically during transit. AUTO-HAULER is capable of running for a complete shift of 8 hours.



 **5/10t**  
LOAD CAPACITY

 **20km/h**  
MAX SPEED

 **40d**  
LIFTING HEIGHT

 **8.0h**  
RUNTIME

# AUTO-DUMPER

SELF DRIVING OFF ROAD TRUCK

autoDumper Series of Robots are the technological marvel in the 3D Vision and visual positioning system.

This material dumper can transport payloads in 500 kg options in offroad and onroad driving conditions.

It features 3D camera, TOF and Ultrasonic safety sensors with AI enabled classification system to understand the surroundings based on visual clues and navigate safely in an environment.

The Robot can move with a precision of  $\pm 20$  mm on the route and provides realtime notifications to the base units. It features self routing, path planning, intelligent obstacles avoidance and load sensing capabilities.



 **500kg**  
LOAD CAPACITY

 **20km/h**  
MAX SPEED

 **40d**  
LIFTING HEIGHT

 **8.0h**  
RUNTIME

 Automatic Charging

 3D Path Navigation

 Fully Autonomous Navigation

 IP 56 Weather Proof

 360 Degree Panoramic View

 Full Range Safety Protections

# AUTO-HAULER

SELF DRIVING OFF ROAD TRUCK

## PERFORMANCE

Payload Capacity	5000/10000 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 [LxBxH]	3500x1500x3000 mm
Vehicle Weight	2500 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



# AUTO-DUMPER

SELF DRIVING OFF ROAD TRUCK

## PERFORMANCE

Payload Capacity	5000/10000 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 [LxBxH]	3500x1500x3000 mm
Vehicle Weight	2500 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.

### **Contact**

M. : +919924826584  
Email Id : [contact@gridbots.com](mailto:contact@gridbots.com)  
Website : [www.gridbots.com](http://www.gridbots.com)