autoJACK

GRIDBOTS AUTOJACK - 2000

AUTONOMOUS PALLET JACK

SELF DRIVING PALLET JACK

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
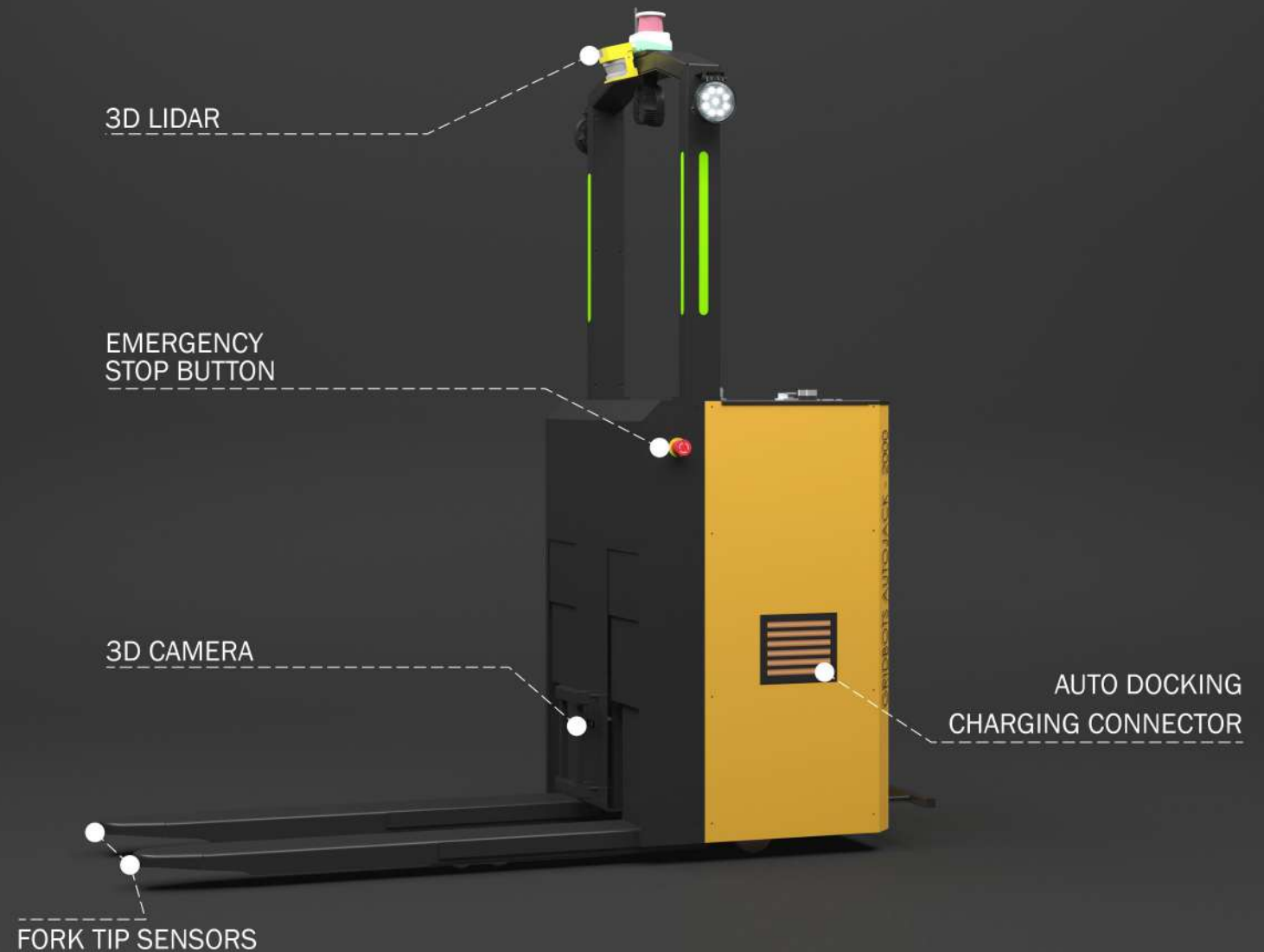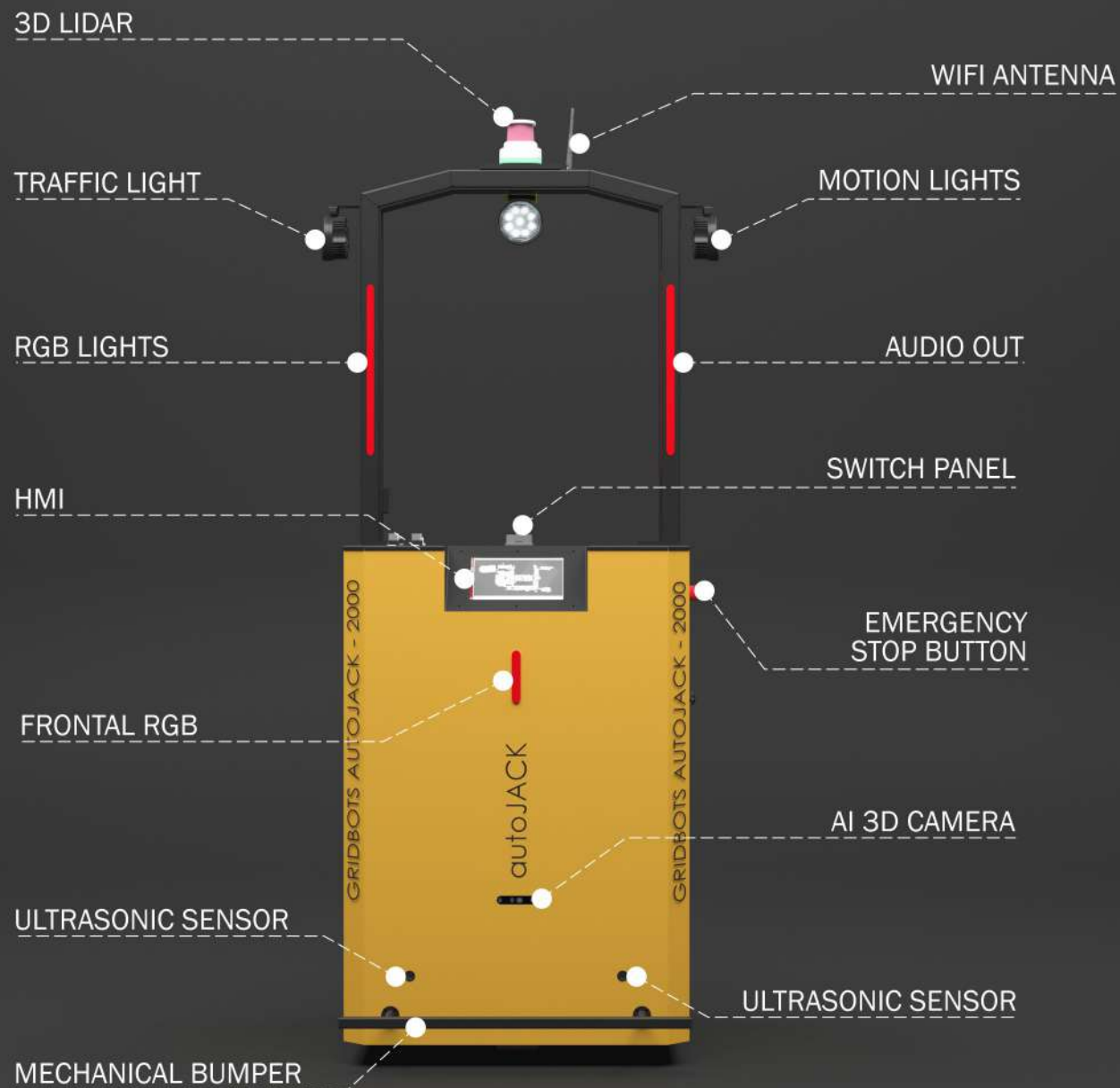AMR Suplier from India

95+
Projects Completed

100+
Robots Delivered

2000+
Components Per AMR

Labels (left diagram):
- 3D LIDAR
- WIFI ANTENNA
- TRAFFIC LIGHT
- MOTION LIGHTS
- RGB LIGHTS
- AUDIO OUT
- HMI
- SWITCH PANEL
- FRONTAL RGB
- EMERGENCY STOP BUTTON
- AI 3D CAMERA
- ULTRASONIC SENSOR
- ULTRASONIC SENSOR
- MECHANICAL BUMPER

Labels (right diagram):
- 3D LIDAR
- EMERGENCY STOP BUTTON
- 3D CAMERA
- AUTO DOCKING CHARGING CONNECTOR
- FORK TIP SENSORS

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 operatibility

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.

AUTONOMOUS PALLET JACK
SELF DRIVING PALLET JACK

INDOOR PALLET SHIFTING AMR

Load Capacity	Lifting Height	Max Speed	Runtime
3.0t	**1.0**m	**1.5**m/sec	**8.0**h

⚡ **Automatic Charging**

📍 **3D Path Navigation**

📍 **Fully Autonomous Navigation**

☂ **IP 21 Weather Proof**

360° **360 Degree Panoramic View**

🛡 **Full Range Safety Protections**

Industrial pallet   Euro pallet   Euro half pallet

PERFORMANCE

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

CHASSIS

Dimensions	1800x1200x1500 mm [LxBxH]
Vehicle Weight	600 Kgs
Suspension	Passive
Ground Clearance	40 mm
Built Material	Mild Steel
Paint/Coating	Powder Coating

POWER SYSTEM

Battery Charging	Auto/Hot Swap
Battery Rating	2 Kwh
Battery Chemistry	LiFePO4
Fuses	All Power Sockets
Charging Time	3 Hours
Power Monitoring	Active [IOT Based]

SAFETY

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

NAVIGATION

Navigation	Hybrid SLAM [Natural + Visual]
Location Accuracy	20 mm [100x100 Meter Map]
Traffic Controller	Centralized - Optional Package
Docking Accuracy	15 mm
Docking Sensor	Laser / 2D Markers
Outdoor Option	Yes

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

GRIDBOTS TECHNOLOGIES PVT. LTD.

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

Factory Address
59, MahaGujarat Industrial Estate,
Behind Surbhi Dining Hall,Sarkhej Bavla Road,
Moraiya, Ahmedabad - 382213, Gujarat, India.

Contact
M. :+919924826584
Email Id : contact@gridbots.com
Website : www.gridbots.com