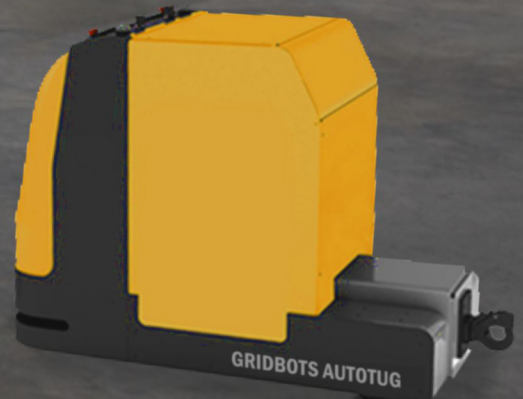


# GRIDBOTS AUTOBOTS

AUTONOMOUS MOBILE ROBOTS



ADAPTIVE

FAST

PRECISE

**gridbots**  
www.gridbots.com

# TROLLEY-MATIK

## TROLLEY SHIFTING ROBOT

### INDOOR TROLLEY SHIFTING ROBOT SELF DRIVING ROBOTS



#### PERFORMANCE

**Payload Capacity**  
500/1000/1500/2500 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

#### ENVIRONMENTAL

**IP Rating**  
21

**Temperature**  
0-60 Degrees

**Humidity**  
95%, Non- Condensing

#### CHASSIS

**Dimensions**  
1200/800/350 mm [LxBxH]

**Vehicle Weight**  
300 Kgs

**Suspension**  
Passive

**Ground Clearance**  
40 mm

**Built Material**  
Mild Steel

**Paint/Coating**  
Powder Coating

#### COMPUTER

**On Board Computer**  
i7 [ 11'th Gen]

**GPU**  
nvidia - 1080

**RAM**  
16 GB

**Aux Controller**  
ARM-32 Bit

#### POWER SYSTEM

**Battery Charging**  
Auto

**Battery Swap**  
Optional

**Battery Chemistry**  
Lifeo4

**Fuses**  
All Power Sockets

**Charging Time**  
3 Hours

#### 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



-  Automatic Charging
-  Automatic Target Tracking
-  2 Ways Audio Communication
-  Fully Autonomous Navigation
-  3D Path Navigation
-  Thermal Camera
-  IP 65 Weather Proof
-  360 Degree Panoramic View



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