

# TIAGo<sup>®</sup> OMNI BASE

## TECHNICAL SPECIFICATIONS

### GENERAL FEATURES

**Payload**

150kg

**Dimensions**

50 x 72 x 31 cm

**Max. speed**

1,5 m/s

**Traversable gap**

150mm

**Wheels**

4 mecanum motor

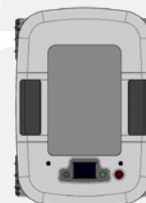
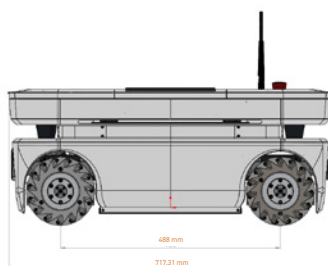
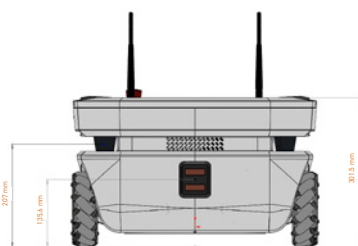
**Shock absorber**

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## TIAGo OMNI Base

### Mobile base with omnidirectional mecanum wheels

Two LIDAR sensors for an unobstructed 360° FOV secure movement, including autonomous navigation, obstacle detection and path planning. Move and navigate the omnidirectional base with ease thanks to its precision positioning in constrained environments.



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## TECHNICAL SPECIFICATIONS



<b>USER PANEL</b>	<b>Audio</b>	1x 5 W audio speaker
	<b>Expansion</b>	10x GPIO (5x IN / 5x OUT)
	<b>Power</b>	Battery / +12V / 5V / +5V / 5A

<b>CONNECTIVITY</b>	<b>Wi-Fi</b>	802.11ax Wi-Fi 6
	<b>Bluetooth</b>	Smart 4.0 Smart Ready
	<b>Ethernet</b>	2x Gigabit
	<b>USB</b>	2x USB 3.0 / 4x USB 2.0

<b>COMPUTER</b>	<b>CPU</b>	Intel i5
	<b>SSD</b>	250 GB

<b>ELECTRICAL FEATURES</b>	<b>Battery</b>	1x 36 V 20 Ah Li-Ion
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<b>INTEGRATED</b>	<b>LiDAR</b>	2x Laser 360-degree LIDAR FoV 10m
	<b>IMU</b>	6DoF
	<b>Omnidirectional platform</b>	✓
	<b>Speaker</b>	✓
	<b>User panel</b>	✓
	<b>Indication lights</b>	✓
	<b>Power connector</b>	✓
	<b>On/Off button</b>	✓
	<b>Emergency stop</b>	✓
	<b>Electric switch</b>	✓
	<b>Power charger</b>	✓
	<b>Tactile control display</b>	✓
	<b>Ubuntu LTS + ROS</b>	✓
	<b>Navigation software</b>	✓
	<b>Motor wheels odometry</b>	✓

<b>OPTIONALS</b>	<b>CPU</b>	i7
	<b>RAM</b>	16 GB
	<b>SSD</b>	500 GB
	<b>Additional battery</b>	36V 20Ah Li-Ion
	<b>2x channel CAN Board</b>	✓
	<b>Dock station</b>	✓
	<b>LiDAR</b>	2x Laser 360-degree LIDAR FoV 25m

