

TIAGo[®] OMNI BASE

TECHNICAL SPECIFICATIONS

GENERAL FEATURES

Payload

70kg

Dimensions

50 x 72 x 31 cm

Max. speed

1,5 m/s

Traversable gap

150mm

Wheels

4 mecanum motor

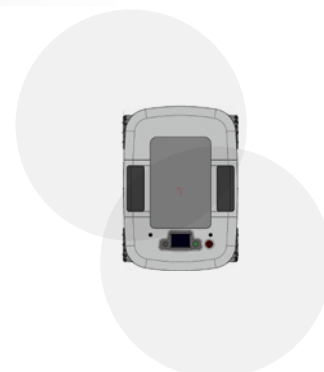
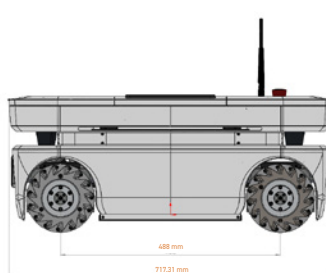
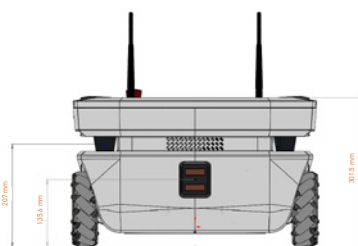
Shock absorber

4

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



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

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

COMPUTER	CPU	Intel i5
	SSD	250 GB

ELECTRICAL FEATURES	Battery	1x 36 V 20 Ah Li-Ion
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INTEGRATED	LiDAR	2x Laser SICK TiM561 360-degree LIDAR FoV 10m
	IMU	6DoF
	Omnidirectional platform	✓
	Speaker	✓
	User panel	✓
	Indication lights	✓
	Power connector	✓
	On/Off button	✓
	Emergency stop	✓
	Electric switch	✓
	Power charger	✓
	Tactile control display	✓
	Ubuntu LTS + ROS	✓
	Navigation software	✓
	Encoders on wheels	✓

OPTIONALS	CPU	i7
	RAM	16 GB
	SSD	500 GB
	Additional battery	36V 20Ah Li-Ion
	2x channel CAN Board	✓
	Dock station	✓
	LiDAR	2x Laser SICK TiM571 360-degree LIDAR FoV 25m

