



PRODUCT DATASHEET / HORIZONTAL TRANSPORT

TU-10

AMR platform

TU-10 transports supported platforms and load assemblies along routes inside the facility. Load capacity depends on configuration and is 500 or 1000 kg.



Load capacity / payload

500 / 1000 kg

Lifting height

60±1 mm

Navigation

Laser SLAM

Matched to your process

We select the robot for the load carrier, load weight, route geometry and operating schedule. Nominal specifications, working capacity and equipment are confirmed for the selected configuration.



Technical specifications

Load and operation

Specification	Value
Product name	Autonomous mobile robot
Operating mode	Autonomous
Load carrier type	Platform on supports
Maximum load capacity	500 / 1000 kg
Ground clearance	30.5 mm
Maximum lifting height	60±1 mm
Travel speed	Up to 1.5 m/s
Basic functions	Standard
Safety bumper	Standard
MD	Standard

Dimensions and site conditions

Specification	Value
Weight (including battery)	265 kg
Mobile robot dimensions (L × W × H)	1330 × 952 × 290.5 mm
Platform dimensions (L × W)	1300 × 920 mm
Minimum aisle width	1092 mm
Ambient temperature range	0°C to 50°C
Ambient humidity range	10% to 90%, normal pressure, non-condensing
Floor conditions (gradient / step / gap)	Not specified



Technical specifications

Navigation and safety

Specification	Value
Navigation type	Laser SLAM
Navigation laser scanning height	185 mm
Turning diameter	1457.4 mm
Navigation positioning accuracy	±5 mm
Navigation angle accuracy	±1°
Number of lidars	2x SICK
Wi-Fi roaming	Standard
Load carrier platform recognition	Standard
Pallet recognition in racking	Standard
Reflector navigation	Optional
Emergency stop button (E-stop)	Standard
Audible signalling	Standard
Visual signalling	Standard
EMC / ESD	Standard
UN38.3	Standard
RED	Standard

Battery and charging

Specification	Value
Battery specification	48 V / 40 Ah (LiFePO4)
Battery runtime	Up to 7 h
Charging time (10% to 80%)	≤2 h
Charging method	Manual / Automatic
Automatic charging support	Standard



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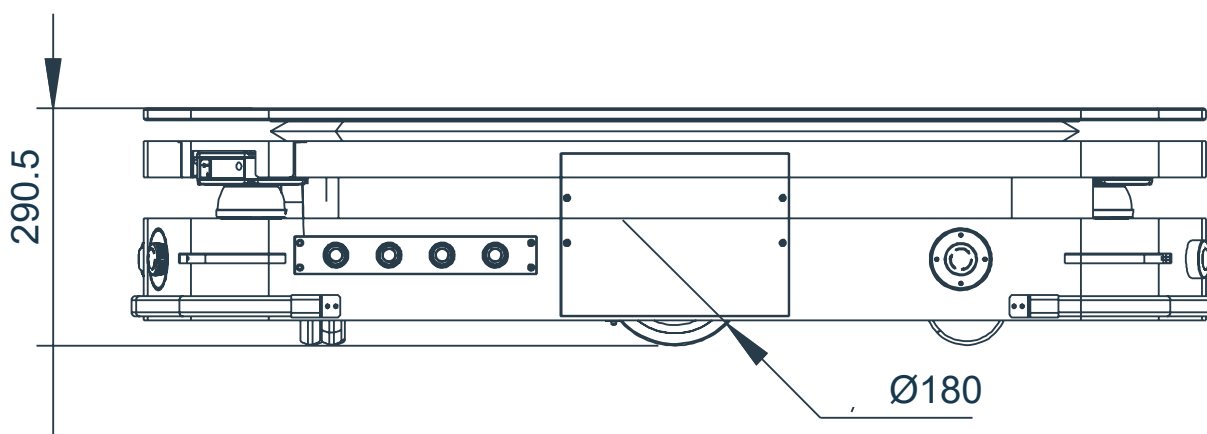
Robot dimensions

Dimensions in mm. Read the drawings according to their numerical labels.

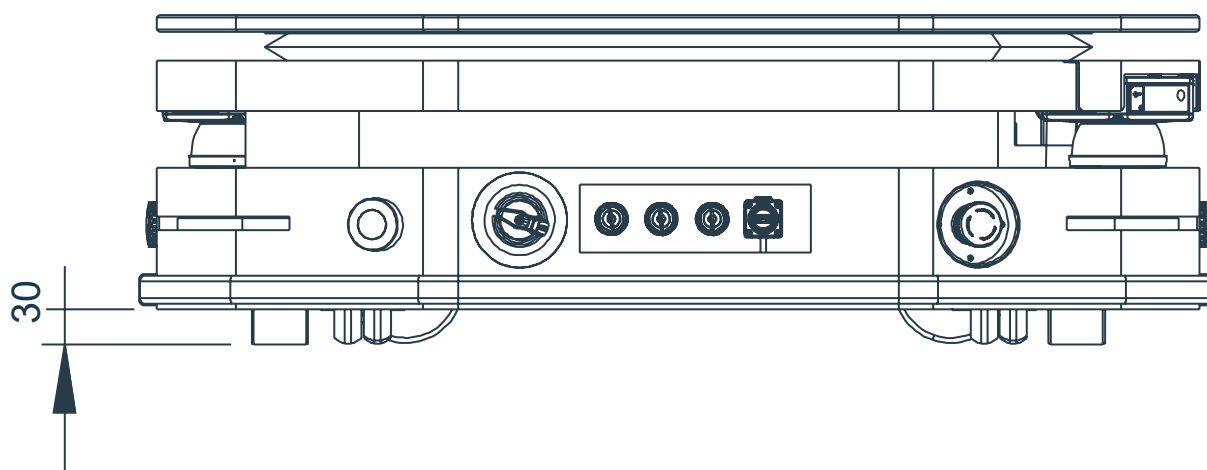
Load capacity depends on configuration: 500 or 1000 kg.

Nominal ground clearance: 30.5 mm; the drawing label is rounded to 30 mm.

Side



Front



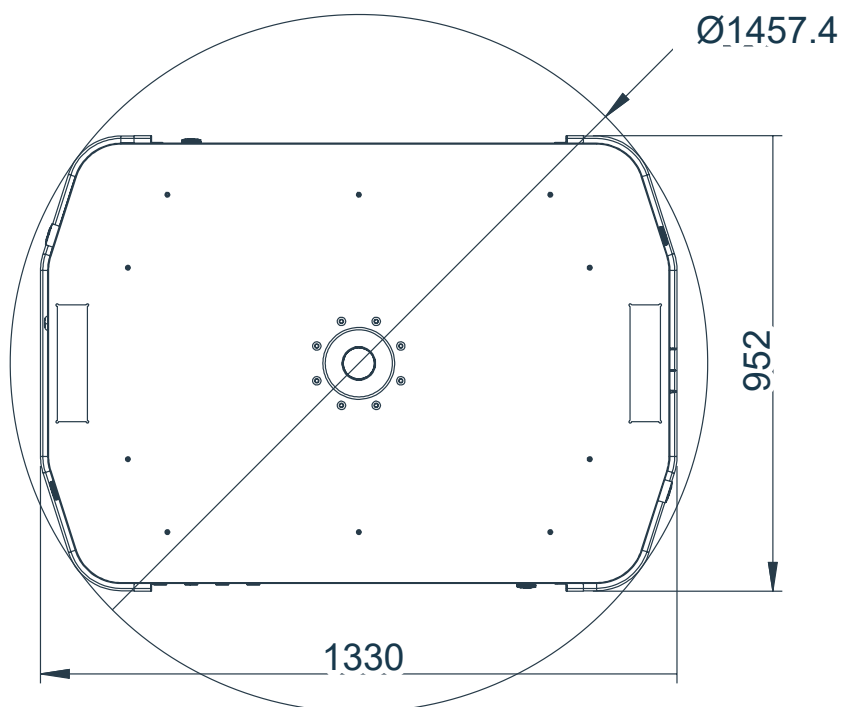


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Robot dimensions

Dimensions in mm. Read the drawings according to their numerical labels.

Top and turning diameter



Front



Left side

View the model and available materials at agv.inovatica.com.

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