



PRODUCT DATASHEET / HORIZONTAL TRANSPORT

TU-6

AMR platform

TU-6 is an AMR platform for transporting dedicated load carriers in areas with limited space. Its lifting mechanism picks up and deposits the carrier at prepared process points.



Rated load capacity

600 kg

Lifting height

60 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.



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Technical specifications

Load and operation

Specification	Value
Product name	TU-6 AMR
Certifications	CE / UL
Rated load capacity	600 kg
Wheelbase	781.5 mm
Standard lifting height	60 mm
Brake type	Electromagnetic brake
Drive control mode	Servo control
Travel speed (laden / unladen)	1.5 m/s
Lifting / lowering speed	6 / 6 mm/s
Vehicle hardware fault diagnosis	Standard
Safety bumper	Standard

Dimensions and site conditions

Specification	Value
Weight (including battery)	260 kg
Robot dimensions (L × W × H)	1120 × 720 × 250 mm
Minimum turning radius	630 mm
Temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, non-condensing
Floor conditions (gradient / step / gap)	<5% / 5 mm / 30 mm



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Technical specifications

Navigation and safety

Specification	Value
Navigation type	Laser SLAM
Navigation laser scanning height	186 mm
Protection rating	IP20
Navigation positioning accuracy	±5 mm
Navigation angle accuracy	±1°
Number of lidars	2 (SICK HV)
Wi-Fi roaming	Standard
3D obstacle avoidance	Optional
Pallet recognition	Optional
Remote E-stop	Optional
Emergency stop button (E-stop)	Standard
Braking distance (1 m/s / 1.5 m/s)	≤30 cm / ≤50 cm
360° laser protection	Standard

Battery and charging

Specification	Value
Battery specification	24 V / 45 Ah x2
Battery runtime	8 h
Charging time (10% to 80%)	1 h

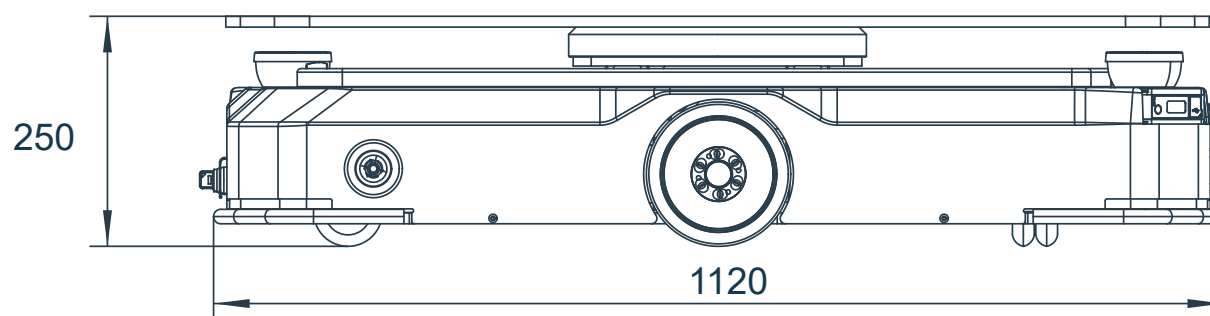


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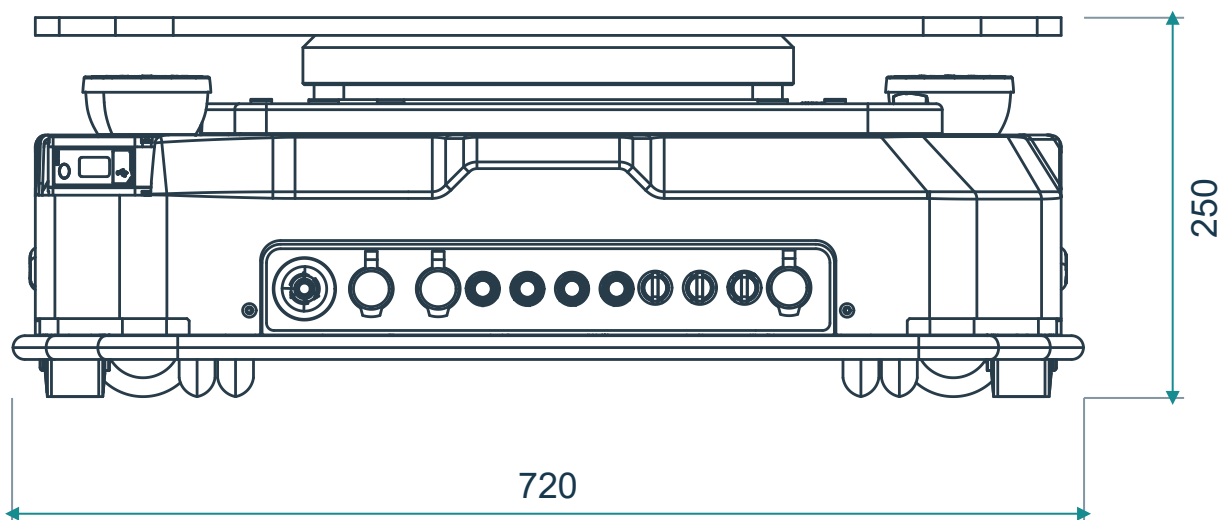
Robot dimensions

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

Side



Front



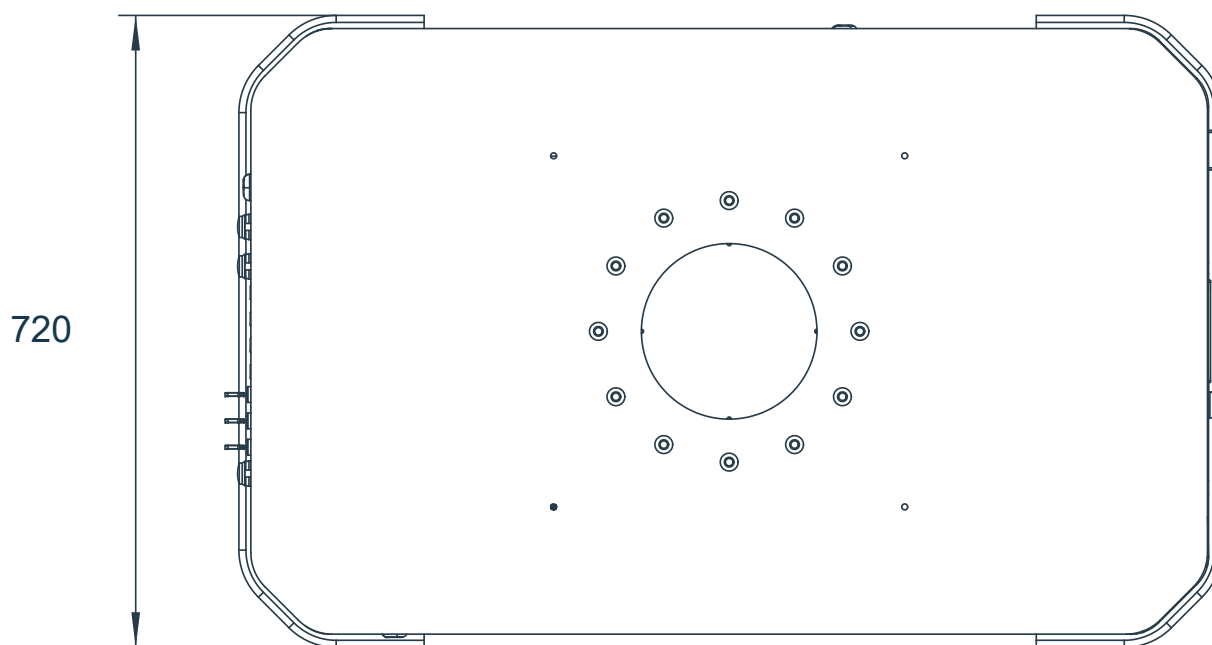


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Robot dimensions

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

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

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