



PRODUCT DATASHEET / HORIZONTAL TRANSPORT

TU-4

AMR platform

TU-4 is a compact AMR platform for regular workstation supply and transport of dedicated load carriers between process points. Its maximum payload is 400 kg.



Load capacity / payload

400 kg

Travel speed

≤1.5 m/s

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	Autonomous mobile robot (AMR) platform
Weight (including battery)	100 kg
Maximum payload	400 kg
Ground clearance	20 mm
Travel speed	≤1.5 m/s
Speaker	Standard
Basic functions	Standard
Automatic charging	Standard
Precision positioning using QR codes	Optional

Dimensions and site conditions

Specification	Value
Dimensions (L × W × H)	958.20 × 631.4 × 182 mm
Temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, non-condensing
Floor conditions (gradient / step / gap)	Not specified
Minimum aisle width	771.4 mm



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Technical specifications

Navigation and safety

Specification	Value
Navigation type	Laser SLAM
Turning diameter	1004 mm
Navigation laser scanning height	196.5 mm
Navigation positioning accuracy	±5 mm
Navigation angle accuracy	±0.5°
Number of lidars	2 (SICK HV)
Emergency stop button (E-stop)	Standard
Signal light	Standard
Wi-Fi roaming	Standard
Shelf / rack recognition	Standard
Laser reflector navigation	Optional
3D obstacle avoidance	Standard
ISO 3691-4	Standard
EMC	Standard
UN38.3	Standard

Battery and charging

Specification	Value
Battery specification	48 V / 23 Ah (lithium iron phosphate)
Battery runtime	8 h
Charging time (10% to 80%)	≤1 h
Charging method	Manual / Automatic



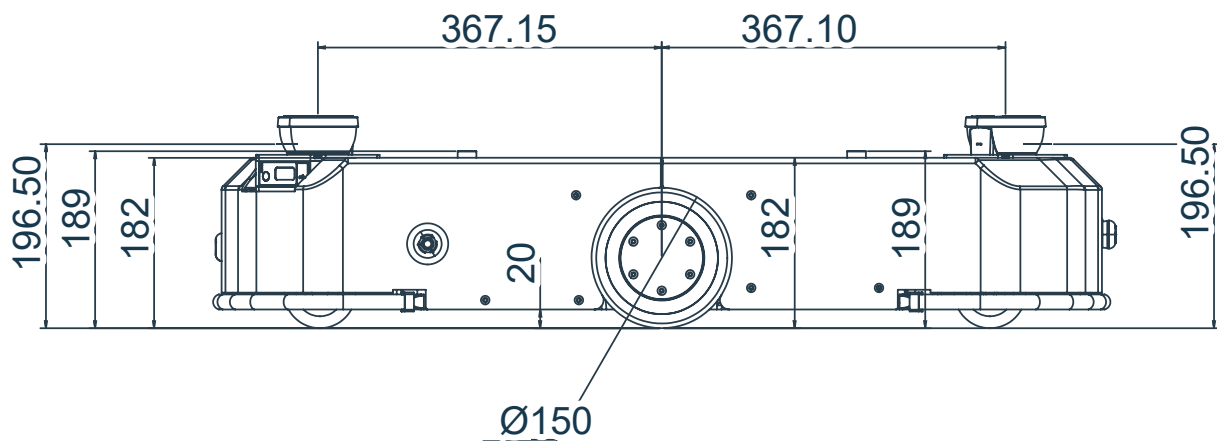
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Robot dimensions

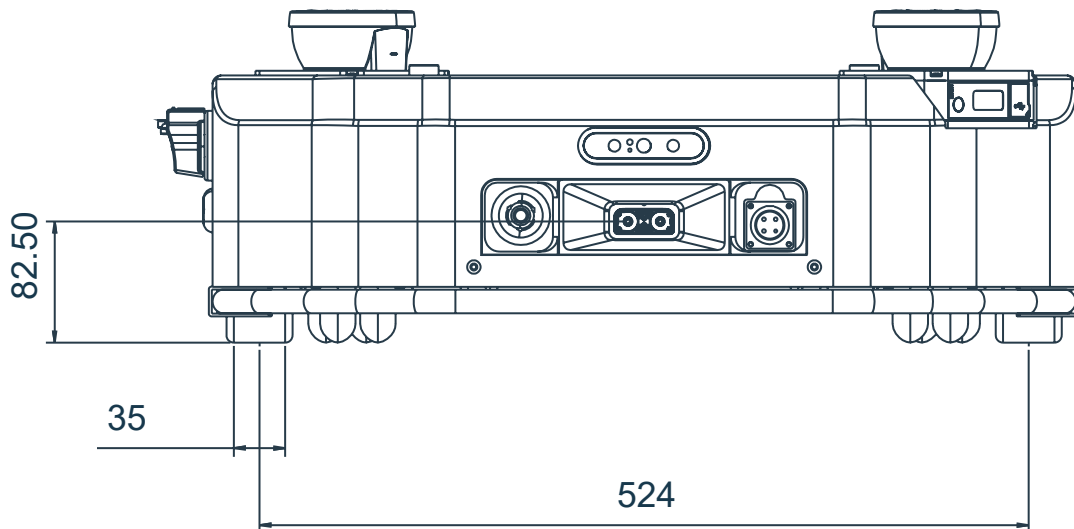
Dimensions in mm. Read the drawings according to their numerical labels.

Overall width is 631.4 mm. The 588 and 593 mm labels refer to the outlines indicated in the drawing.

Side



Front



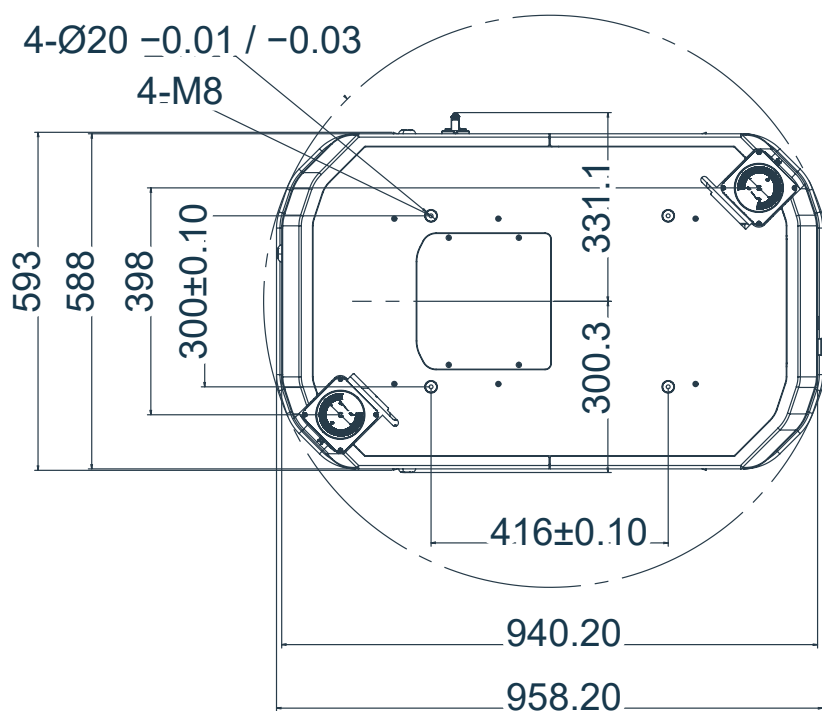


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Robot dimensions

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

Top and mounting holes



Front



Side

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

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