



PRODUCT DATASHEET / HORIZONTAL TRANSPORT

DOLLY-30

dolly transport

DOLLY-30 automates dolly transport and returnable packaging handling. The robot picks up and transports a matched load carrier in repetitive production and warehouse flows.



Rated load capacity

300 kg

Lifting height

150±5 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	DOLLY-30 AGV
Operating mode	Automatic navigation
Load carrier type	Dolly / rack
Rated load capacity	300 kg
Load centre distance	415 mm
Standard lifting height	150±5 mm (default 70 mm)
Travel speed (laden / unladen)	0.8 / 1.4 m/s
Safety bumper	Standard

Dimensions and site conditions

Specification	Value
Weight (including battery)	230 kg
Robot dimensions (L × W × H)	1044 × 500 × 1722 mm
Gripper dimensions (L × W)	610 × 300 mm
Minimum turning radius	800 mm
Temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, non-condensing
Floor conditions (gradient / step / gap)	<3% / 2 mm / 5 mm



Technical specifications

Navigation and safety

Specification	Value
Navigation type	Laser SLAM
Navigation positioning accuracy	±10 mm
Navigation angle accuracy	±1°
Number of lidars	1 (P+F R2000) + 2 (SICK / nanoScan3 HV)
Wi-Fi roaming	Standard
3D obstacle avoidance	Optional
Pallet recognition	Optional
HMI display	Standard
Emergency stop button (E-stop)	Standard
Audible and visual signals	Standard
Braking distance (1 m/s / 1.5 m/s)	≤30 cm / ≤50 cm
360° laser protection	Standard
Gripper height protection	Standard
ISO 3691-4	Standard
EMC	Standard
UN38.3	Standard
RED	Standard

Battery and charging

Specification	Value
Battery specification	48 V / 23 Ah (lithium iron phosphate)
Battery runtime	6 h
Charging time (10% to 80%)	1 h
Charging method	Manual / Automatic

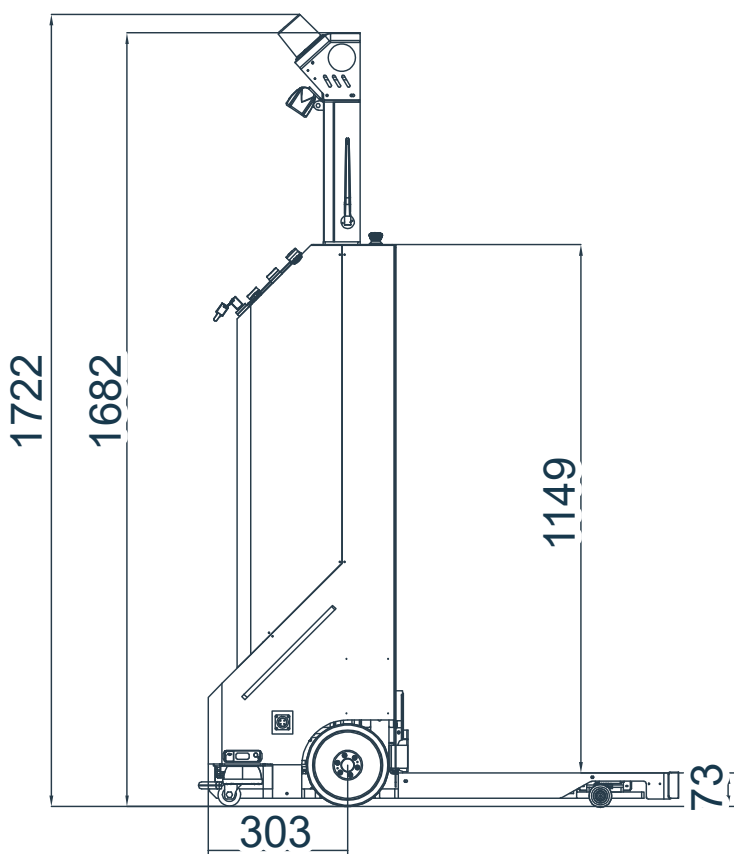
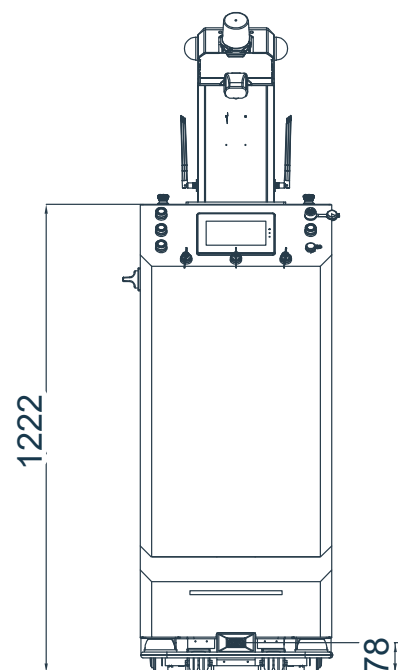


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Robot dimensions

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

Lift: 150±5 mm; default setting 70 mm.

Side**Front**

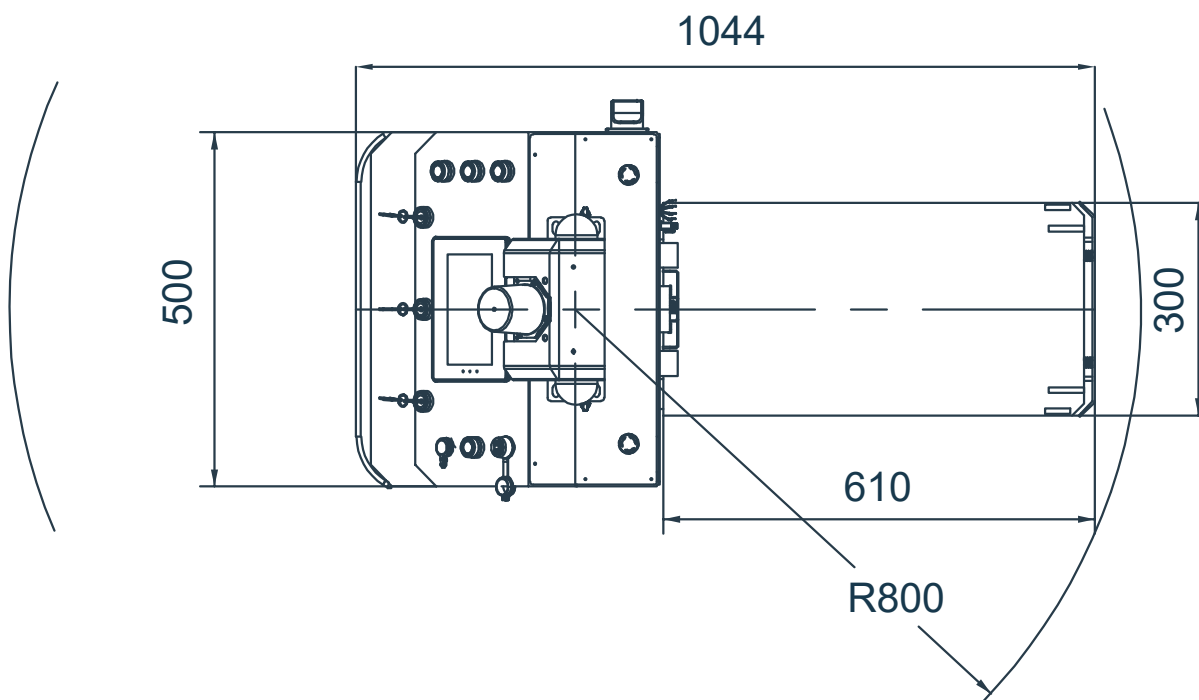


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Robot dimensions

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

Top



Front



Side

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

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