



PRODUCT DATASHEET / STORAGE AND RACKING

ST-1430

AGV stacker

ST-1430 automatically picks up and deposits open pallets on low and medium rack levels. The configuration shown has a lifting height of 3000 mm.



Load capacity / payload

1400 kg

Lifting height

3000 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.



ST-1430 / PRODUCT DATASHEET

Technical specifications

Load and operation

Specification	Value
Product name	Autonomous forklift
Operating mode	Autonomous / manual
Pallet type	Open pallet
Maximum load capacity	1400 kg
Load centre distance	600 mm
Standard lifting height	3000 mm
Travel speed (laden / unladen)	1.3 / 1.5 m/s
Cage storage	Optional
Pallet storage	Optional

Dimensions and site conditions

Specification	Value
Weight (without / with battery)	680 / 740 kg
Forklift dimensions (L x W x H) (1416/1430)	1722 x 951 x 2064/2234 mm
Fork dimensions (L x W x H)	1220 x 180 x 70 mm
Outer fork width	555 / 570 / 680 mm
Ambient temperature range	0°C to 50°C
Ambient humidity range	10% to 90%, normal pressure, non-condensing
Floor conditions (gradient / step / gap)	<5% / 5 mm / 15 mm



Technical specifications

Navigation and safety

Specification	Value
Navigation type	Laser SLAM
Navigation positioning accuracy	±10 mm
Navigation angle accuracy	±0.5°
Number of lidars	1x P+F + 3 (2x SICK, 1x OLEI)
Wi-Fi roaming	Standard
3D obstacle avoidance	Optional
Pallet recognition	Optional
Pallet recognition in racking	Optional
HMI display	Standard
Emergency stop button (E-stop)	Standard
Audible and visual signals	Standard
Braking distance (1 m/s / 1.5 m/s)	0.3 m / 0.5 m
360° laser protection	Standard
Fork height protection	Standard
ISO 3691-4	Standard
EMC / ESD	Standard
UN38.3	Standard

Battery and charging

Specification	Value
Battery specification	24 V / 180 Ah (LiFePO4)
Battery runtime	Up to 10 h
Charging time (10% to 80%)	2 h
Charging method	Manual / Automatic

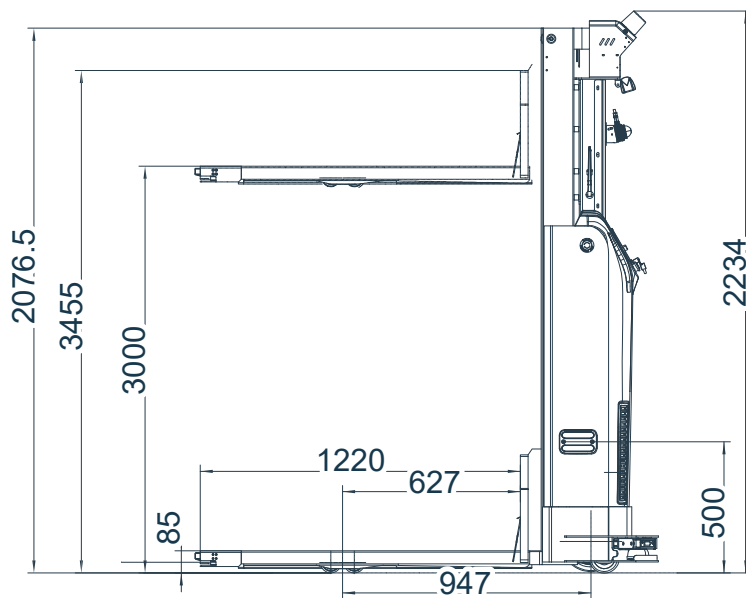


ST-1430 / PRODUCT DATASHEET

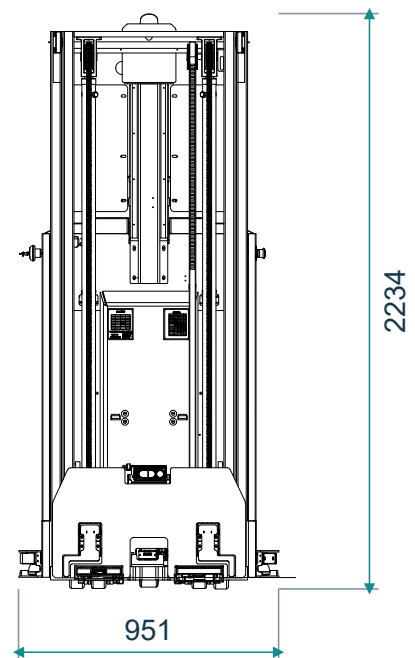
Robot dimensions

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

The drawing shows the 3000 mm lift version. Symbol W_a denotes the turning radius, which must be confirmed for the ordered configuration.

Side**Front - 3000 mm version**

3000 mm lift version



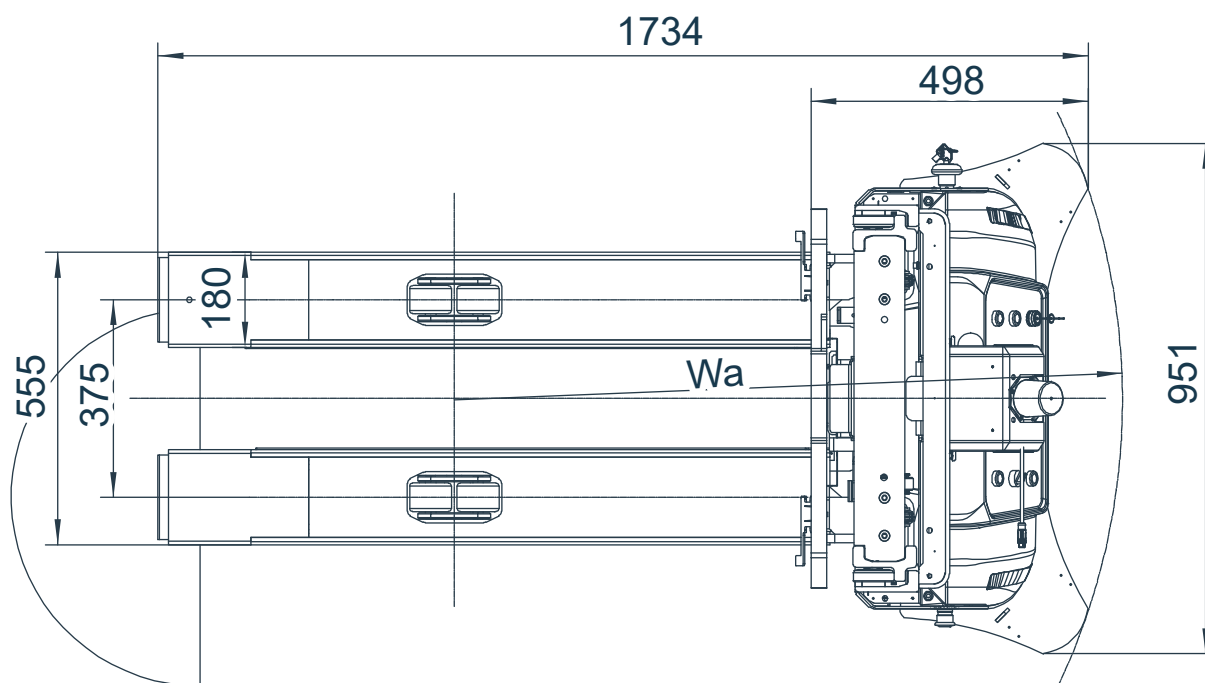


ST-1430 / PRODUCT DATASHEET

Robot dimensions

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

Top



Front



Top

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

ST-1430 | Product datasheet

5 / 5