



PRODUCT DATASHEET / STORAGE AND RACKING

CB-2030/2040

counterbalance AGV

CB-2030/2040 is a counterbalance AGV for handling open and closed pallets in warehouse and production processes. The versions have different lifting heights: 3000 or 4000 mm.



Rated load capacity

2000 kg

Lifting height

3000 / 4000 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	CB-2030/2040 counterbalance AGV
Operating mode	Automatic navigation / manual control device
Pallet type	Open pallet / closed pallet
Rated load capacity	2000 kg
Load centre distance	500 mm
Standard lifting height	3000 / 4000 mm
Travel speed	1.5 m/s
Cage storage	Optional
Pallet storage	Optional
Safety bumper	Standard

Dimensions and site conditions

Specification	Value
Truck dimensions (L x W x H)	2767 x 1180 x 2234 mm
Fork dimensions (L x W x H)	1070 x 122 x 40 mm
Outer fork width	400 mm to 700 mm
Minimum turning radius	1577 mm
Temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, non-condensing
Floor conditions (gradient / step / gap)	<5% / 10 mm / 30 mm
Right-angle stacking aisle width, 1000 x 1200 pallet (1200 along forks)	2850 + 200 mm
Right-angle stacking aisle width, 800 x 1200 pallet (1200 along forks)	2957 + 300 mm
Right-angle stacking aisle width, 1000 x 1000 pallet (1000 along forks)	2805 + 300 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 (FREE H1 / P+F R2000) + 3 (FREE C2)
Wi-Fi roaming	Standard
3D obstacle avoidance	Optional
Pallet recognition	Standard
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
Fork height protection	Standard
ISO 3691-4	Standard
EMC	Standard
UN38.3	Standard
RED	Standard
High-bay pallet recognition	Optional

Battery and charging

Specification	Value
Battery specification	24 V / 200 Ah (lithium iron phosphate)
Battery runtime	6 to 8 h
Charging time (10% to 80%)	2 h
Charging method	Manual / Automatic

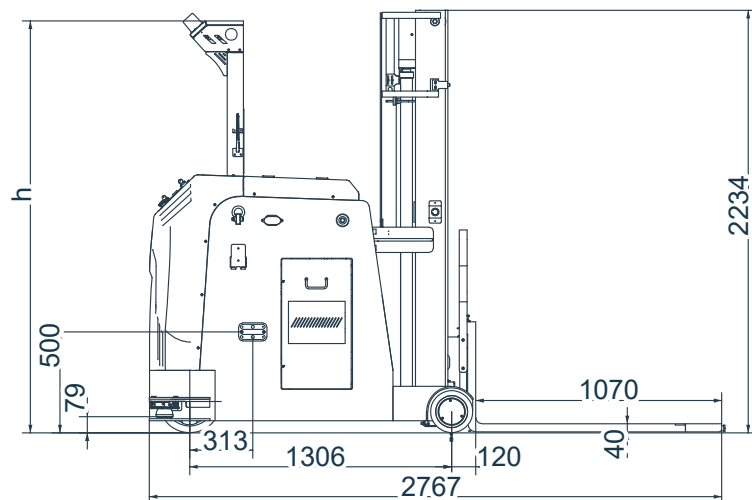
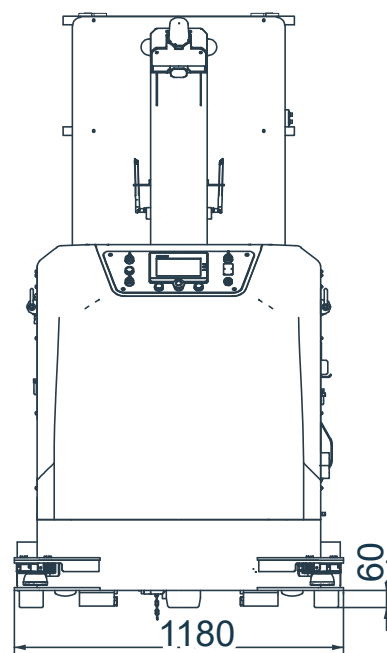


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Robot dimensions

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

CB-2030: 3000 mm lift. CB-2040: 4000 mm lift. Nominal dimensions of $2767 \times 1180 \times 2234$ mm apply to the 3000 mm version. Symbol h denotes the sensor assembly height, which depends on equipment. Confirm the dimensions and weight of the 4000 mm version during selection.

Side**Front**

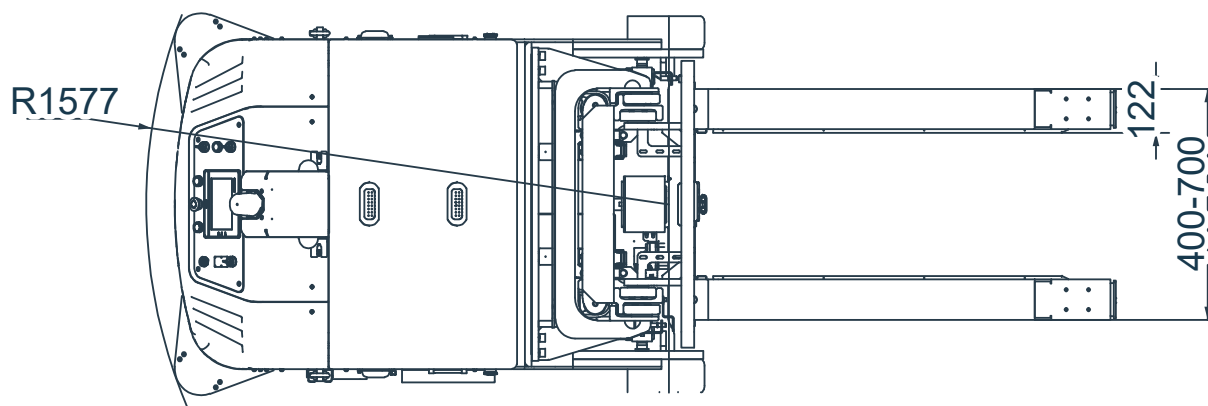


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Robot dimensions

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

Top



Front



Left side

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

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