



PRODUCT DATASHEET / HIGH-BAY AGVS

RT-20100

high-bay AGV

RT-20100 handles pallet storage and retrieval in high-bay warehouses. Mast configuration and permissible load must be selected for the rack height and load centre.



Rated load capacity

1600 kg

Lifting height

10000 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	RT-20100 high-bay AGV
Pallet type	Open pallet / closed pallet
Rated load capacity	1600 kg
Load centre distance	500 mm
Standard lifting height	10000 mm
Travel speed (laden / unladen)	1.3 / 1.3 m/s
Cage storage	Optional
Pallet storage	Optional

Dimensions and site conditions

Specification	Value
Weight (including battery)	4650 kg
Truck dimensions (L × W × H)	2635 x 1720 x 4154 mm
Fork dimensions (L × W × H)	1070 x 100 x 45 mm
Outer fork width	400 - 725 mm
Minimum turning radius	1960 mm
Floor conditions (gradient / step / gap)	<5% / 20 mm / 30 mm
Right-angle stacking aisle width, 1676 × 1219 pallet (1676 along forks)	3350 mm



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Technical specifications

Navigation and safety

Specification	Value
Navigation type	Laser SLAM
Navigation positioning accuracy	±10 mm
Navigation angle accuracy	±0.5°
Number of lidars	1 (P+F R2000) + 3 (nanoScan3 HV)
Wi-Fi roaming	Standard
3D obstacle avoidance	Optional
Pallet recognition	Optional
HMI display	Standard
Braking distance (1 m/s / 1.5 m/s)	≤30 cm / ≤50 cm
Fork height protection	Standard
High-bay pallet recognition	Optional

Battery and charging

Specification	Value
Battery specification	48 V / 460 Ah
Battery runtime	6 - 8 h
Charging time (10% to 80%)	4 - 5 h



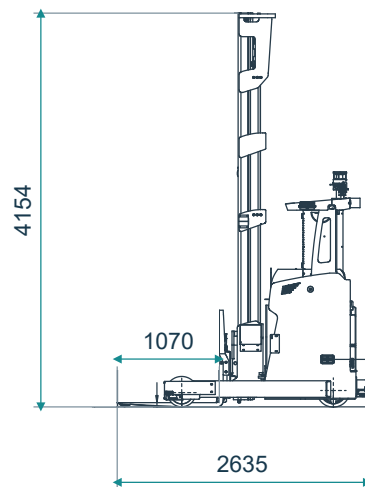
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Robot dimensions

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

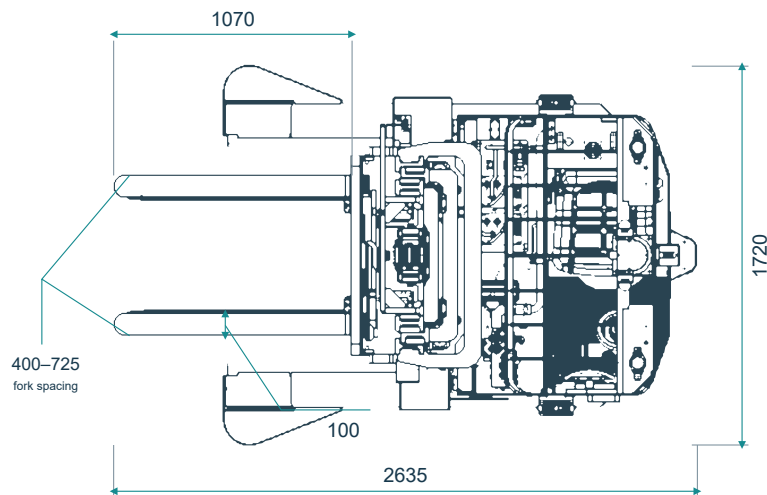
The drawing shows overall dimensions with the forks lowered. Fork spacing: 400-725 mm. Confirm the ordered mast specifications before designing the workstation.

Side



Forks 1070 × 100 × 45 mm · lift 10000 mm

Top



Turning radius R1960 mm