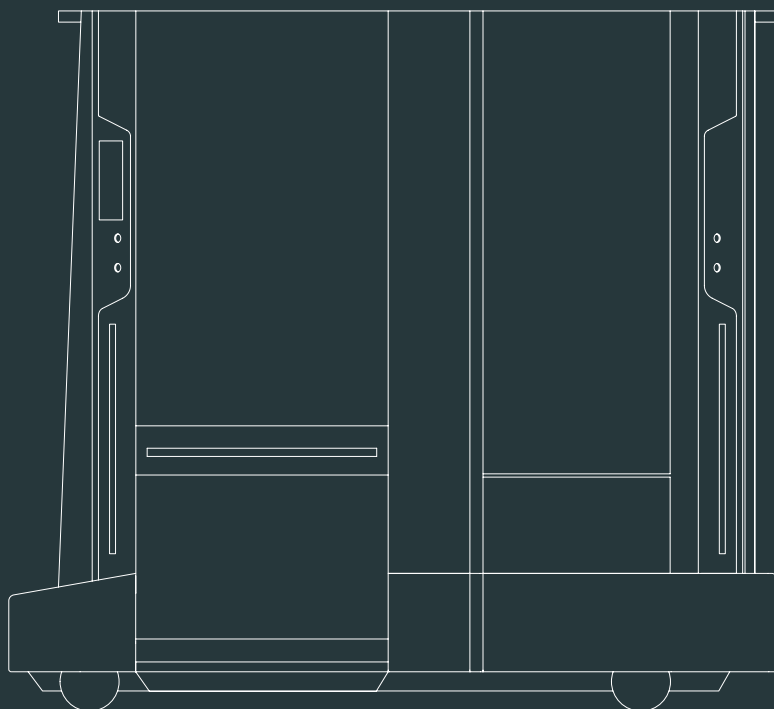


MAGAZINO



SOTO

A mobile robot for industrial intralogistics:
SOTO takes over the intelligent handling and
transport of totes in your warehouse and
production environment.

DATA SHEET



Robot data



Footprint physical (L x W)
Footprint virtual (L x W)
Height (in operation)
Height (pushable on attachment wheels)
Navigation speed
Drive system
Max. battery run time
16 hrs operation (2 shifts)
24 hrs operation (3 shifts)
Curb weigh
Max. Payload

2230 x 1060 mm
2500 x 1310 mm
2160 mm
2200 mm
up to 1.5 m/s
omnidirectional
10 hrs
feasible with 1 h interim charging
feasible with 4 h interim charging
650 kg
360 kg

Robot operation space



Min. width to drive slow
Min. width to drive fast
Min. gripping height - frontal
Min. gripping height - lateral
Max. gripping height
Rotation of objects
Picking & putting

For more details see environment and handover solution data sheets

1650 mm
2510 mm
500 mm
400 mm
1600 mm
+/-90° and +/- 180° feasible
frontal, right and left side of the robot

Compatible objects



Min. object footprint (L x W)
Max. object footprint (L x W)
Object height
Max. object weight
Supported standards
Center of gravity of payload
Rotation of boxes inside the robot

300 mm x 200 mm
600 mm x 400 mm
80 - 320 mm (no protruding objects)
20 kg
VDA 4500 (R-KLT, RL-KLT) & similar sizes
max 2/3 to one side
+/- 180° & +/- 90 °

Barcodes



Types of box identification codes on KLT
Min. line thickness of 1D barcodes
Min. module thickness of 2D barcodes
Tolerated twist of 1D codes
Tolerated twist of 2D codes

QR, DataMatrix and Code128
0.33 mm
0.33 mm x 0.33 mm
0° / 90° +/- 10°
+/- 180°

Onboard storage (backpack)



Capacity
Adaptability
Accessibility

8 - 24 items, depending on object dimensions and weight
flexible, depending on object dimensions
manual retrieval of objects feasible

Miscellaneous



Safety features
Interface
Cameras
User interface

safely-limited speed, laser scanner, emergency stop, light curtains
connection to ERP/WMS via standardized REST-Interface
2D and 3D for object recognition, obstacle avoidance
2 Displays at the robot, LEDs for direction and status indication

