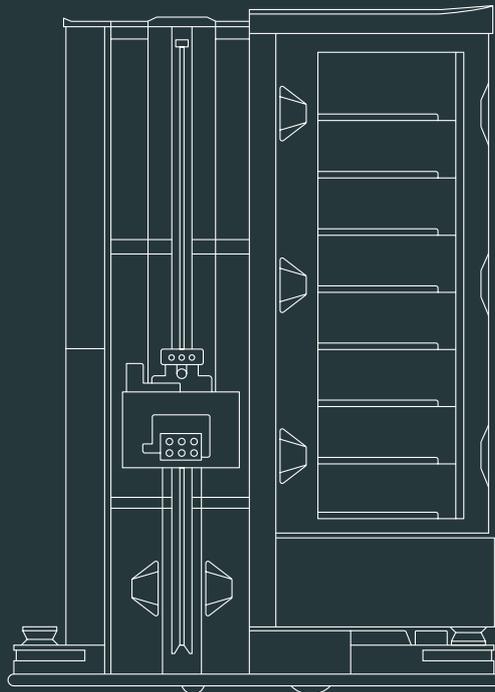


MAGAZINO



TORU

A mobile robot that interacts with its environment: TORU can pick small boxes with complete autonomy.

DATA SHEET

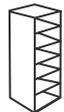


MAGAZINO

Compatible objects

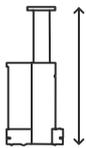


Min. object dimensions (L x W)	50 mm x 100 mm
Max. object dimensions (L x W)	390 mm x 290 mm
Object height	80 mm – 145 mm
Object weight	0.25 kg – 5.80 kg
Stack height	max. 3 items
Stack weight	max. 5.80 kg



Onboard storage (backpack)

Capacity	8 – 16 items, depending on object dimensions and weight
Storage shelves	8 compartments, adjustable in 20 mm increments
Payload	max. 40 kg



Robot operation space

Max. gripping height above ground	2500 mm
Min. gripping height above ground	79 mm
Max. distance object to edge of shelf	110 mm

Robot specifications



Base area (L x W)	1375 mm x 685 mm
Robot height	1930 mm
Robot height, extended	2912 mm
Curb weight	235 kg
Surface load	295 kg/m ²
Max. navigation speed	1.5 m/s
Battery run time	max. 8 hours
Operating time	max. 18 hours per day
Battery	lithium iron battery

Miscellaneous



Control	autonomous robots, central fleet management
Navigation & Localization	perception driven navigation based on simultaneous localization and mapping (SLAM)
Safety features	laser scanner, bumper, distance sensors, emergency stop
Interface	connection to enterprise resource planning system via wifi
Cameras	2D and 3D cameras for object recognition

