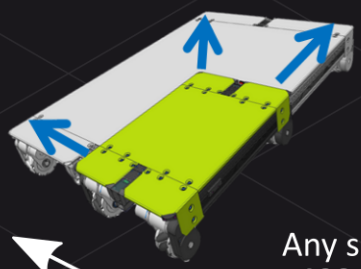
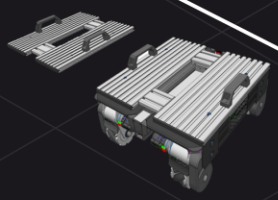
EvoRobot



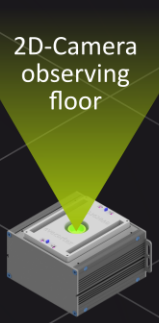
Any size from
400 x 480 to
800 x 1200 mm

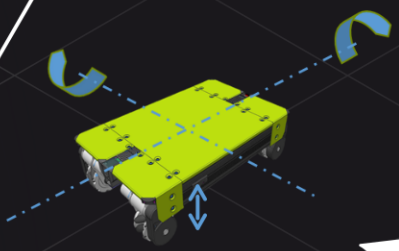


Versatile mounting
platform on top

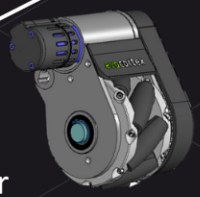
Highly accurate
and markerless
positioning system

Positioning
deviation
< 1 mm

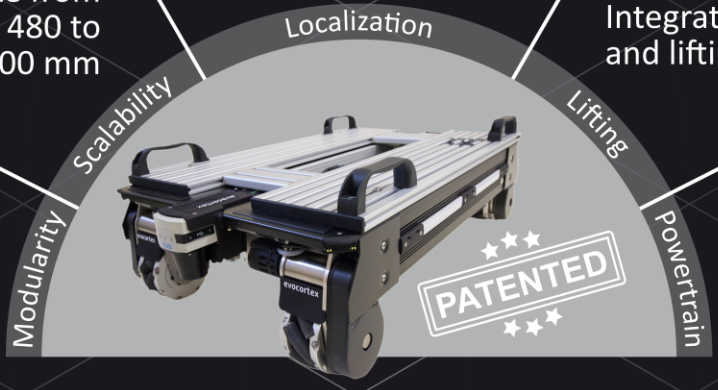


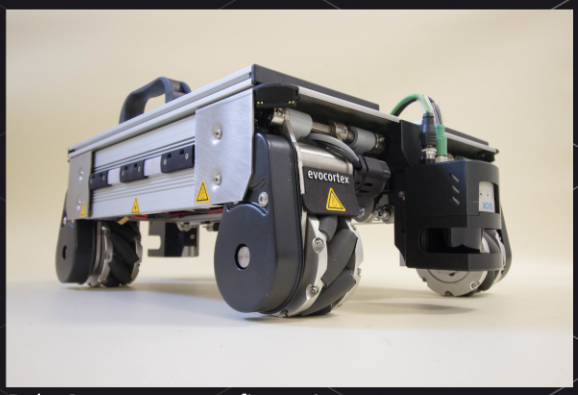


Integrated leveling
and lifting system



Modular
omnidirectional
drive





RoboCup contest configuration
400 x 480 mm and 2 x LIDAR

Basic Features:	
Speed:	1 m/s
Powertrain:	4 x FAULHABER DC-Motor 60W
Sensors:	High Resolution Incremental Encoders
Payload:	Up to 120 kg (depends on configuration)
Battery Type:	LiFePo4
Endurance:	About 8 h (depends on configuration)
Material:	Stainless Steel & Aluminium Frame
Variable Size:	From 400 x 480 to 800 x 1200 mm
Weight:	About 35 kg (depends on configuration)
SW Interface:	ROS (Robot Operating System)
Data Interfaces:	USB3.0, Ethernet, HDMI

Optional Features:	
Lifting:	2 or 4 Lifting Cylinders with Encoders
Positioning:	Evocortex Localisation Module (ELM) for localization and highly accurate positioning with a deviation of less than 1 mm over an area of 1 km² without any requirements to the environment like markers or lines
1 - 2 x LIDAR:	SICK || Hokuyo || RPLIDAR || Custom
Mounting Platform:	Groove Profile || Aluminium Cover || Custom
Processing Unit:	NVIDIA® Jetson™ TX2 || Siemens Safety PLC
Motorcontroller:	evoDC-Motorshields || Siemens SIMATIC MICRO DRIVE
Add. Software:	evoLocalizer || evoSLAM || evoELM

CoBot configuration with space for
manipulator -> 455 x 700 mm

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evocortex
ROBOT ENGINEERING
& SENSOR FUSION