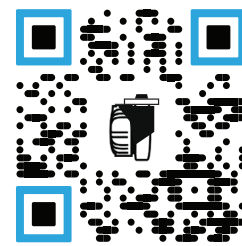




STEERED-TRACTION UNIT

for Omnidirectional
Mobile Robots



SCAN to see the product in
3D with augmented reality.

SYSTEM DESCRIPTION

Steered-Traction Unit is designed for highly maneuverable Autonomous Mobile Robots operating in the indoor industrial areas. The unit has combined traction and steering functionality, which is ensured by a traction unit and a steering actuator with integrated motor control electronics. The unit takes care of all control and safety requirements in a typical PLd certified mobile robotic application.

// MOBILE ROBOTIC TECHNOLOGIES //

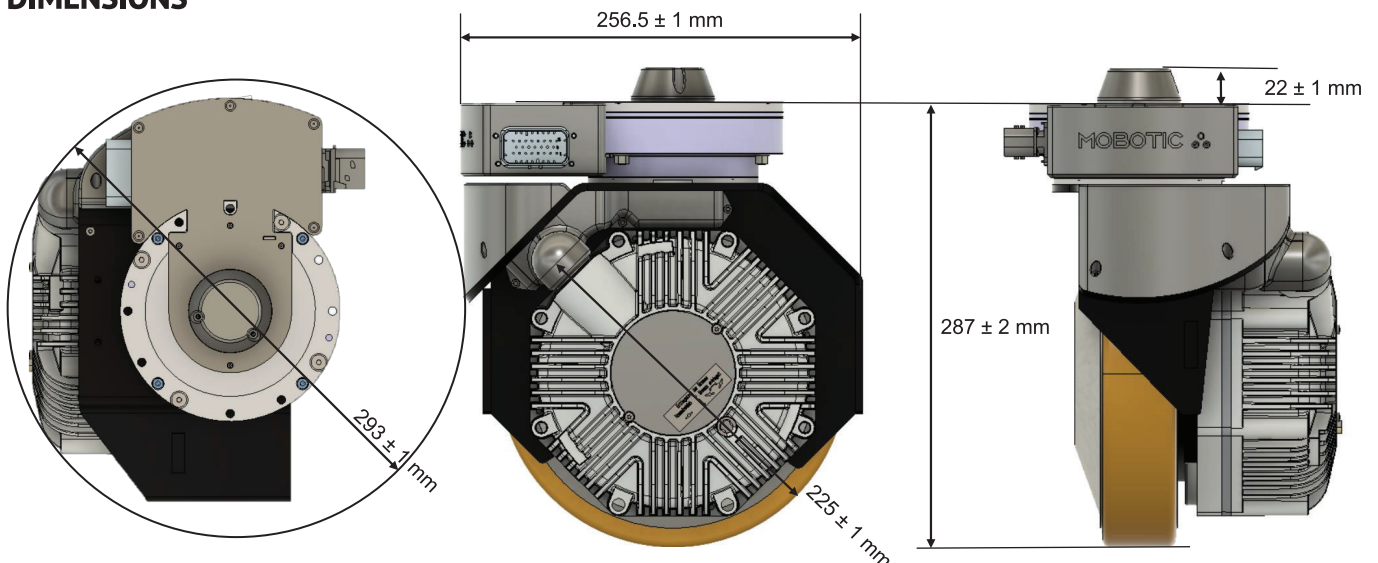
HIGHLIGHTS

- Highly integrated and compact design
- Motor control electronics integrated
- Field bus communication options: CAN, EtherCAT, ProfiNET
- Turning diameter only 268mm
- Steering torque max. 250Nm
- Integrated slip ring system for endless rotation
- Integrated multiple and redundant encoder systems for control and safety supervision

VERSIONS AND BASIC SPECIFICATIONS

	ST-500-225-54-48	ST-800-225-54-48	ST-500-200-44-48
Continuous power traction Unit	1.000W	1.000W	800W
Continuous traction wheel torque	54Nm	54Nm	44Nm
Max. power traction Unit (S2 1min)	1.800W	1.800W	1.500W
Max. traction wheel torque (S2 1min)	120Nm	120Nm	100Nm
Max. Traction wheel speed	200rpm	200rpm	200rpm
Max. steering torque	250Nm	250Nm	250Nm
Permissible static tilting moment on the steering unit	2.500Nm	2.500Nm	2.500Nm
Unit mounting Height	287mm	287mm	262mm
Unit turning diameter	268mm	293mm	268mm
Load capacity	500kg	800kg	500kg

DIMENSIONS



*Dimensions for version: ST-800-225-54-48