



AGV X1

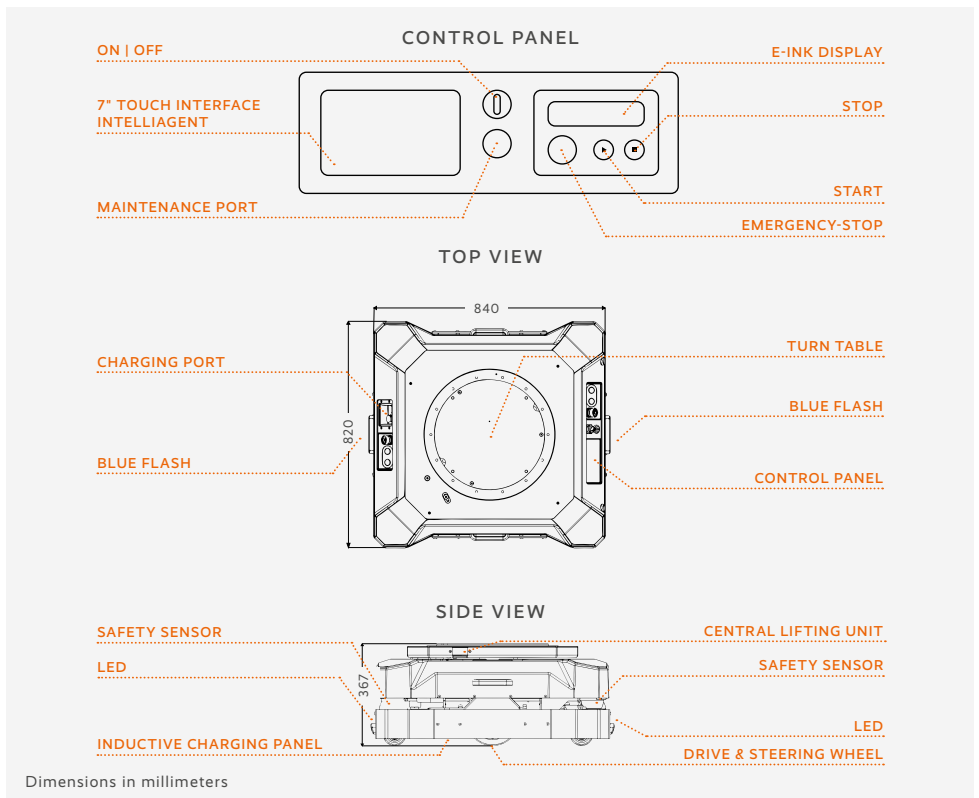
MOBILE TRANSPORT ROBOT

DATASHEET AGV X1 TT (PRELIMINARY)

SAFELOG

GENERAL INFORMATION

- Differential drive enables turning on the spot as well as driving forward and backward
- Central lifting unit with 80 mm lifting height lifts loads up to 1200 kg*
- Turning unit enables independent rotations of AGV and load
- Wear-free charging during operation due to inductive charging system
- Scalable battery capacity with LiFePO4 batteries to adapt to process requirements
- Agent-based system that enables communication between the AGVs and their environment
- Driving speeds from 0.02 m/s up to 1.6 m/s
- Navigation: track guided (magnetic track or virtual track) as well as free navigation in space
- Hybrid localization: grid-sensor, contour detection, camera, RFID, odometry and magnetic track
- Safety laser scanner in each direction of travel
- Project-specific superstructures for individual load carriers available



TECHNICAL INFORMATION (PRELIMINARY)

PRODUCT

Product name	SAFELOG AGV X1 tt
Article number	107246

ELECTRIC DATA

Operating voltage AGV (V)	24 DC
Charging time with inductive charger (for 1/2 batteries) (min)	30 40*
Capacity (for 1/2 batteries) (Ah)	21 42

OPERATION DATA

Temperature range (°C)	+5 to +35
Positioning accuracy (mm)	+/- 5*
Min. turning radius (m)	1
Max. speed with/without payload (m/s)	1.0 1.6*
Continuous driving without payload (for 1/2 batteries) (h)	4 8*

MECHANICAL DATA

Casing material	Steel/technopolymers
Dimensions L W H (mm)	840 820 367**
Weight AGV (kg)	232
Max. topload AGV (kg)	1200*
Max. lifting height (central lifting unit) (mm)	80

*environment-dependent

**without optional accessories

