



Industry 4.0
solutions by WAMECH

AGV S3

Automated Guided Vehicle



AGV S3

- Forward drive
- Differential drive allows turning on the spot
- Turning with a track width of 1 m
- Wear-free charging during operation due to inductive charging system
- LiFePO4 battery
- Flat design with only 220 mm height - perfect for driving underneath trolleys
- 7" touch user interface for easy interaction
- Agent-based system that enables communication between the AGVs and their environment
- Electric lifting pin for towing trolleys up to 500 kg
- Driving speeds from 0.02 m/s up to 1.6 m/s
- Navigation: track guided - magnetic or virtual track
- Hybrid localization: contour detection, camera, RFID, odometry and magnetic track
- Safety laser scanner in the direction of driving

Technical information

ELECTRIC DATA

Operating voltage AGV [V]	24 DC
Charging time with inductive charger (min)	30*
Nominal voltage (V)	24
Capacity (Ah)	21

OPERATIONAL DATA

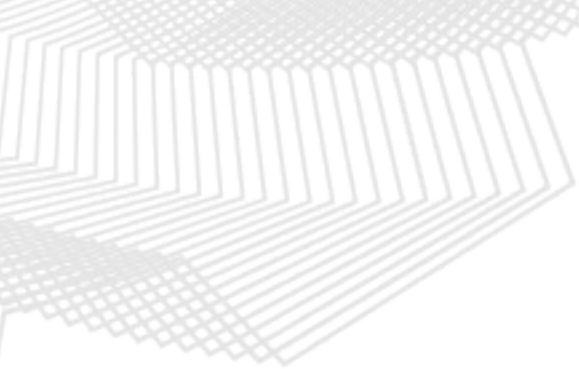
Temperature range (°C)	+5 to +35
Positioning accuracy (mm)	+/- 5*
Min. turning radius (m)	0.7
Max. speed with/without payload (m/s)	1.0 1.6*
Continuous driving without payload (h)	4*

MECHANICAL DATA

Casing material	Steel
Dimensions L W H (mm)	770 450 220
Weight AGV (kg)	150
Max. topload AGV (kg)	150*
Max. tow weight AGV (trolley) (kg)	500*

*environment-dependent





CONTROL PANEL

ON | OFF

E-INK DISPLAY

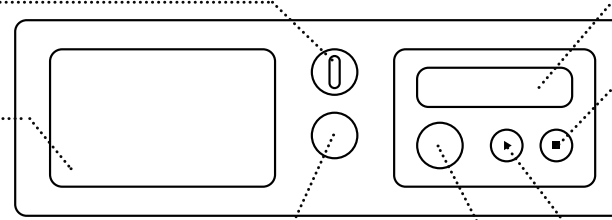
7" TOUCH INTERFACE INTELLIAGENT

STOP

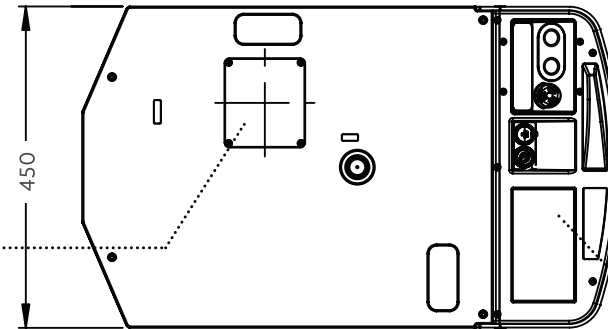
MAINTENANCE PORT

START

EMERGENCY-STOP



TOP VIEW



BLUE FLASH

RFID READER

CONTROL PANEL

450

SIDE VIEW

CHARGING PORT

LIFTING PIN

ANTENNA

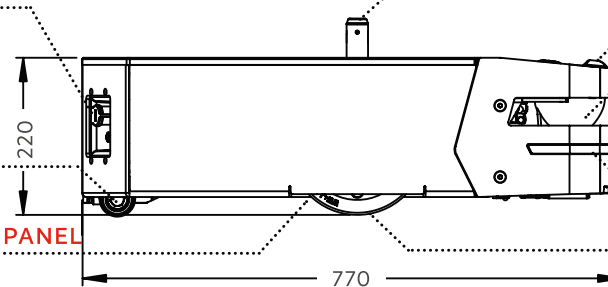
SAFETY SENSOR

STEERING

LED

INDUCTIVE CHARGING PANEL

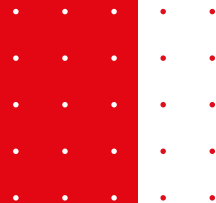
DRIVE WHEEL



220

770

Dimensions



Dimensions in millimeters



 **REDGE**

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