



TractEasy Datasheet



Operational characteristics

Item	Description
Trademark	TractEasy
Type of vehicle	Electric automated Tow Tractor
Vehicle driving automation	Level 4-5 – High Automation (According to SAE J3016)
Driving modes	Autonomous mode, Assisted Manual mode, Manual mode and Inching mode.
Driving directions	Forward only in Autonomous mode Both directions in manual mode (rear speed reduced)
Service operation modes	Non-stop on loop, Scheduled or On-demand
Supervisory Control System for fleet	Available with EZ Maestro, EasyMile Fleet Manager System
Scalability	Cloud based architecture ready to scale up a large fleet of vehicles
IT integration	Existing APIs to interact with third-party systems (e.g. WMS)
Infrastructure segregation requirements	None, can operate on shared road in mixed traffic conditions
Times of Operation	Up to 24h/24 Battery swap time or opportunity charging time to be considered
Track Length	No limitations
Energy Management	Battery swap with Lead-Acid technology Opportunity charging with Li-ion technology
Temperature constraints	Temperature in operations: -20°C / +45°C Temperature in storage: 0°C / 35°C



Technical characteristics

Item	Description
Chassis & Frame	Steel
Net Vehicle Weight	Without battery: 2 060 kg With Lead/Acid battery 80V / 620Ah: 3 640 kg With Lead/Acid battery 80V / 620Ah and ballast: 3 900 kg
Max. Tow Capacity	25 000 kg
Drawbar Pull	Option: 2000 daN (4500 lbf)
Length	3 200 mm
Width	1 840 mm
Height	2050 mm
Minimum Turning Radius without trailer	Between sidewalks: 3 070 mm Between walls: 4000 m
Wheelbase	2,480 mm
Wheel space	1,160 mm
Ground clearance	Approx. 150 mm
Energy	Electric
Battery type	Lead/Acid or Li-ion by default, other types possible Dimensions: 1015 x 680 x 805 mm
Battery Capacity	Lead-Acid: 50 kWh Li-ion: from 22kWh to 66 kWh
Charging time	Depend on battery capacity, technology and charger. Usually: - 8 hours for Lead/Acid battery 50kWh (40% to 100%) - 1.5 to 2 hours for Li-ion (10% to 100%)
Power	27 kW nominal



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Transmission 2 wheel drive

Direction 2 steering wheels (electro hydraulic)

Max. speed 25 km/h

Service brake Redundant electrical (regenerative) and hydraulic (on disc)

brakes with independent circuits (front/rear) for maximum

safety

Parking brake Calipers electrically piloted (one per wheel)

Emergency brake Fail-safe brake

Wheel rims Front: 6.50 R10 wheels

Rear: 7.00 R12 wheels

Lights Projectors, indicators, daytime running light, stop lights,

retro-reflectors, backwark lights and rear working light.

Connectivity GSM / EDGE / UMTS / LTE modem

2.4 Ghz Wi-Fi modem V2I module (optional)

User Interfaces 1 x Interactive touchscreen tablet 7"

1 x Destination panel

5 x Emergency stop buttons Audio & visual warning alarms

Video with supervision

Rear inching buttons for manual approach



Embedded technology

Item	Description
Components for Localization	Hybrid localization technology combining odometry, inertial measurement unit, LIDAR, radar, GNSS and cameras
Components for safety functions	Safety LIDARs matching european regulations requirements Detection LiDARs and cameras Emergency stops Audio & visual warning alarms
Communication Features	Permanent 3G or 4G connection to EasyMile cloud infrastructure High speed WiFi connection for large upload/downloads Vehicle to Infrastructure communication
Operator information systems	Operator interface display

Options

Item	Description
Equipment	Tool kit for vehicle setup Several hitches available to match the existing trailers
Communication with Infrastructure	V2I communication module to enable communication between the TractEasy and the infrastructure (traffic lights, doors, barriers etc)
Design	Custom painting, stickers
Battery	Lead-Acid Battery 50 kWh Li-ion Battery: 22 kWh, 44 kWh, 66 kWh

