

OPERATING INSTRUCTIONS FOR eTRIKE Plattform Scooter

Version 1.2, 10.06.2025
Translation into English



Follow these Operating instructions for correct and safe use.
Keep them in a safe place for future reference.



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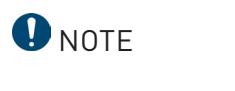
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Notation convention

Directives:

1. Do this.
2. Do that.
- ➡ This is the interim result.
3. Do the other.
- ✓ You have performed the action.

Danger classes:

	Resulting in fatal injury
	Fatal injury possible
	Injury possible
	Property damage possible
	Tips for use / useful information

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1 Safety

1.1 Intended use

The eTRIKE Plattform Scooter is used in the commercial sector.

The eTRIKE Plattform Scooter is suitable for transporting one person (driver) and goods on a level, firm surface up to a maximum incline of 15°.

The eTRIKE Plattform Scooter is an electric three-wheeled scooter.

1.2 Misuse

Any use of the eTRIKE Plattform Scooter other or beyond the use described in chapter "1.1 Intended use" on page 5 is considered improper and therefore inappropriate.

This applies in particular to:

- the transport of more than one person,
- driving by unauthorised persons:
 - persons under 15 years of age,
 - with limited mental perception,
 - physical limitations,
 - under the influence of drugs or medication.
- Moving loads that are heavier than specified in the technical data, see chapter "2.6 Technical data" on page 14,
- driving on inclines steeper than 15°,
- use on slippery or loose surfaces.

1.3 Warning signs

	General warning		Obstacles on the ground
	Corrosive substances		Heat
	Danger of falling		Crushing hazard
	Automatic start-up		Risk of slipping
	Fire hazard		Pointed objects
	Explosion hazard		Ejected parts
	Electricity hazard		

1.4 Mandatory sign

	Tips for use and other useful information		Wear protective glasses
	Refer to the instruction manual		Wear protective clothing
	Wear protective gloves		Wear protective footwear

1.5 Target group

The eTRIKE Plattform Scooter is used by instructed personnel.

Persons under the age of 15 years are not permitted to use the eTRIKE Plattform Scooter.

1.6 Qualification

These Operating Instructions address specialised personnel with the following qualifications:

USERS have read and understood these Operating Instructions. They know the possible dangers of improper behaviour.

QUALIFIED ELECTRICIANS are trained for the specific area of their work and are familiar with the relevant standards and regulations. They can perform work on electrical systems and recognise and independently avoid potential hazards due to their training and experience.

1.6.1 Qualification for individual tasks

Task	Who	Special qualification
Transport	FATH GmbH	Specialised personnel
Storage	Customer	Users
Packing and unpacking	Customer	Users
Commissioning	Customer	Users
Operation	Customer	Users
Troubleshooting	FATH GmbH, customer	Qualified electricians
Cleaning	Customer	Users
Servicing	Customer	Users
Repair and maintenance	FATH GmbH	Qualified electricians
Decommissioning	Customer	Users
Disposal	FATH GmbH, customer	Qualified electricians, users

Table 1 Who-makes-what-matrix

1.6.2 Personal protective equipment

Use the following personal protective equipment for all work with or on the eTRIKE Plattform Scooter:

- ▶ Protective footwear.



Additional personal protective equipment may be required for certain tasks. Safety instructions can be found in the respective chapters of these Operating Instructions.

1.7 Limited capabilities

Persons with reduced physical, sensory or mental capabilities or persons with a lack of experience or knowledge must **NOT** use the eTRIKE Plattform Scooter.

1.8 Basic safety regulations

Special safety regulations may apply to certain tasks. Safety instructions and warnings can be found in the respective chapters of these Operating Instructions.

Make sure to follow the safety instructions in these Operating Instructions. Before using the eTRIKE Plattform Scooter, users must have read and understood these Operating Instructions, especially the safety-related information.

Only persons who can be expected to use the eTRIKE Plattform Scooter reliably are authorised as users. Persons whose ability to react is affected, e.g. by drugs, alcohol or medication, are **NOT** authorised.

1.8.1 Hazard-conscious working

Perform all work with or on the eTRIKE Plattform Scooter carefully.

Use the eTRIKE Plattform Scooter only:

- ▶ as intended, observing the risks and in compliance with these Operating Instructions,
- ▶ if all safety equipment is installed, functional and active,
- ▶ if the eTRIKE Plattform Scooter is in perfect technical condition.

This also includes:

- ▶ Only carry out maintenance work when the eTRIKE Plattform Scooter is switched off and secured against reactivation.
- ▶ Clean the eTRIKE Plattform Scooter weekly to remove dirt and impurities.

1.8.2 Product modifications

Modifications on the eTRIKE Plattform Scooter are generally prohibited. If the eTRIKE Plattform Scooter is tampered with, there is a considerable risk of an accident with serious or fatal consequences.

Failure to observe the operating instructions and improperly performed maintenance work and, in particular, technical modifications and additions (attachments) without the written consent of FATH GmbH will invalidate both the warranty and product liability.

If further modifications are necessary, please consult FATH GmbH and obtain written authorisation in advance.

1.9 Risks and hazards

1.9.1 Automatic start-up



Danger to life due to uncontrolled activation.

- ▶ Secure the eTRIKE Plattform Scooter against accidental activation by always removing the key and applying the parking brake after the ride.
- ▶ Only turn the throttle grip if you intend to start driving.
- ▶ In case of maintenance work, call in a second person to press the handbrake of the eTRIKE Plattform Scooter in case of an emergency.

1.9.2 Drop or fall



Fatal injury possible due to falling.

- ▶ **DO NOT** climb on the luggage rack of the eTRIKE Plattform Scooter.
- ▶ **DO NOT** transport people with the eTRIKE Plattform Scooter.
- ▶ **DO NOT** ride standing up.
- ▶ Always hold the handlebars firmly with 2 hands.
- ▶ Keep both feet on the eTRIKE Plattform Scooter.

1.9.3 Slipping or tripping



Slight injuries possible due to riding on slippery surfaces.



- ▶ Drive carefully on roads that are slippery due to rain, ice or snow.
- ▶ Drive slowly and appropriately for the weather conditions.
- ▶ Brake early using cadence braking.

1.9.4 Electricity hazard



Electric shock due to live components.



- ▶ Work on the electrical lines and components must **ONLY** be performed by qualified electricians.
- ▶ Observe the 5 safety rules of electrical engineering for all work on electrical lines and components.
- ▶ **DO NOT** bridge the battery terminals.
- ▶ **DO NOT** use the eTRIKE Plattform Scooter, if electric lines or components have been found defective.

1.9.5 Ejected parts



Impact possible due to ejected parts..

- ▶ Always secure transport boxes on the eTRIKE Plattform Scooter so that they cannot fall off during the ride, e.g. with lashing straps, or screw the transport boxes to the platform.
- ▶ Do not transport loose parts or parts that protrude beyond the dimensions of the eTRIKE Plattform Scooter.

1.9.6 Heat

Skin irritation and burns possible due to components heated by sunlight.

- ▶ **DO NOT** expose the eTRIKE Plattform Scooter to direct sunlight.



1.9.7 Impact

Impact possible due to protruding parts.

- ▶ **DO NOT** transport parts that protrude beyond the dimensions of the eTRIKE Plattform Scooter.



1.9.8 Tipping over

Injuries possible due to tipping over

- ▶ Only ride on a solid and level road.
- ▶ Ride with both hands on the handlebars.
- ▶ Approach kerbs at an appropriate speed.
- ▶ **DO NOT** drive up or down kerbs that are higher than 10 cm.
- ▶ **DO NOT** drive up or down inclines steeper than 15%.
- ▶ **DO NOT** steer abruptly.
- ▶ If possible, avoid steering on inclines.
- ▶ Distribute the load of the transport boxes evenly on the eTRIKE Plattform Scooter.
- ▶ Secure all transport boxes.



1.9.9 Crushing

Crushing of fingers and limbs possible.

- ▶ **DO NOT** steer in such a way that your fingers are pinched by steering movements.
- ▶ **DO NOT** move limbs between the moving eTRIKE Plattform Scooter and other objects.
- ▶ **DO NOT** drive directly towards other people.



1.10 Behaviour in an emergency

Switch off the eTRIKE Plattform Scooter in case of:

- Risk of injury,
- Risk of damage to the eTRIKE Plattform Scooter or transported goods,
- Risk of damage to other vehicles.

In case of an accident, take immediate action and call the local emergency number.

1.10.1 Fire

Only extinguish the eTRIKE Plattform Scooter with a suitable CO₂ fire extinguisher.

In case of a fire due to charging the battery, disconnect the eTRIKE Plattform Scooter from the mains if this can be done safely.

Inform the local fire brigade if necessary.

1.10.2 Thunderstorm

DO NOT use the eTRIKE Plattform Scooter during thunderstorms and strong winds.

Switch off the eTRIKE Plattform Scooter and park it safely, see chapter "4.4 Switching off and parking" on page 22.

1.11 Road traffic

You may only ride your eTRIKE Plattform Scooter on public roads and in other areas where the country-specific road traffic laws apply if you have the version of eTRIKE Plattform Scooter that complies with the regulations of road approval.

2 Description

2.1 General functional description

Product name / designation	eTRIKE Plattform Scooter
Series or type designation	PLS 135 / PLS 175
Vehicle type	Transport vehicle / patient lift
Conformity with regulations and standards	2006/42/EC EN ISO 12100:2010 DIN EN 60204-1:2019-06; VDE 0113-1:2019-06
Product versions	▪ PLS 135: Total length 1,350 mm ▪ PLS 175: Total length 1,750 mm

Table 2 Identification features

The eTRIKE Plattform Scooter is intended for the transport of one person (driver) and goods.

The eTRIKE Plattform Scooter is generally operated using the controls on the handlebars:

- Ignition,
- Throttle grip,
- Handbrake,
- Function display and light switch,
- Direction switch and horn.

2.2 Type plate

See the following figure for an example of the type plate of the eTRIKE Plattform Scooter.

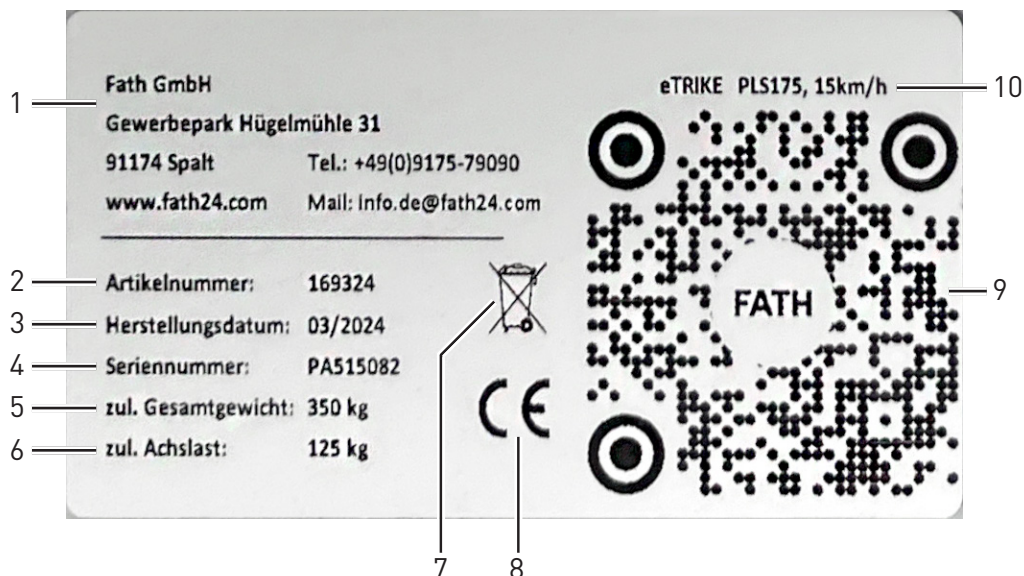


Figure 1 Type plate (example)

Pos.	Designation	Pos.	Designation
1	Manufacturer address	6	Axle load
2	Item number	7	Do not dispose of batteries and rechargeable batteries with the household waste!
3	Date of manufacture	8	CE conformity
4	Serial number	9	Website QR code
5	Permissible total weight	10	Product designation

2.3 Scope of delivery

Standard scope of delivery

Included with all variants:

- 1 eTRIKE Plattform Scooter (with the possible packaging),
- Operating instructions in the form of a QR code on the eTRIKE Plattform Scooter,
- Charger (accessory),
- Batteries (permanently installed).

2.4 Variants

The eTRIKE Plattform Scooter is available in 2 variants:

- PLS 135
- PLS 175

2.4.1 PLS 135

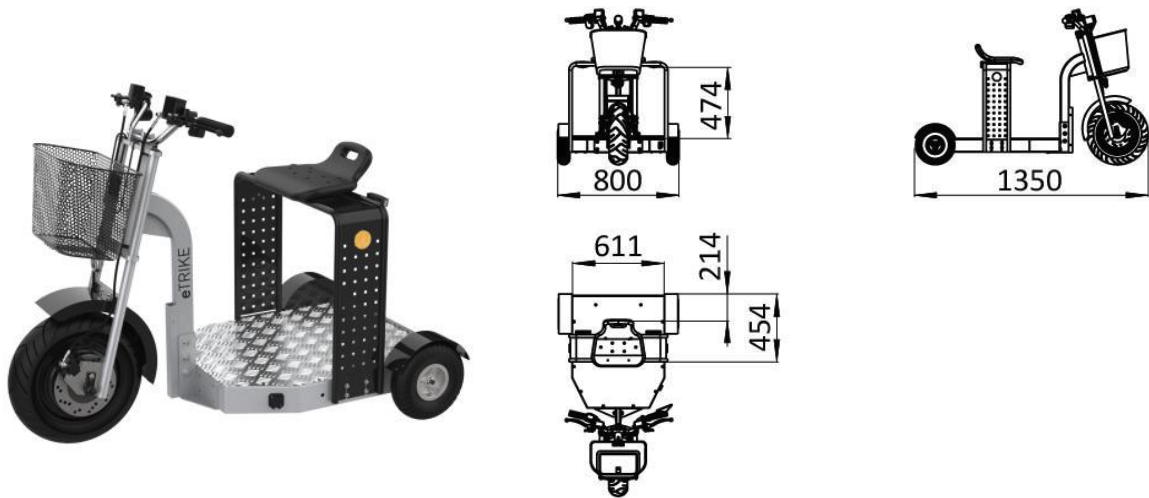


Figure 2 PLS 135

- Total length: 1,350 mm
- Load area: 214 mm

2.4.2 PLS 175

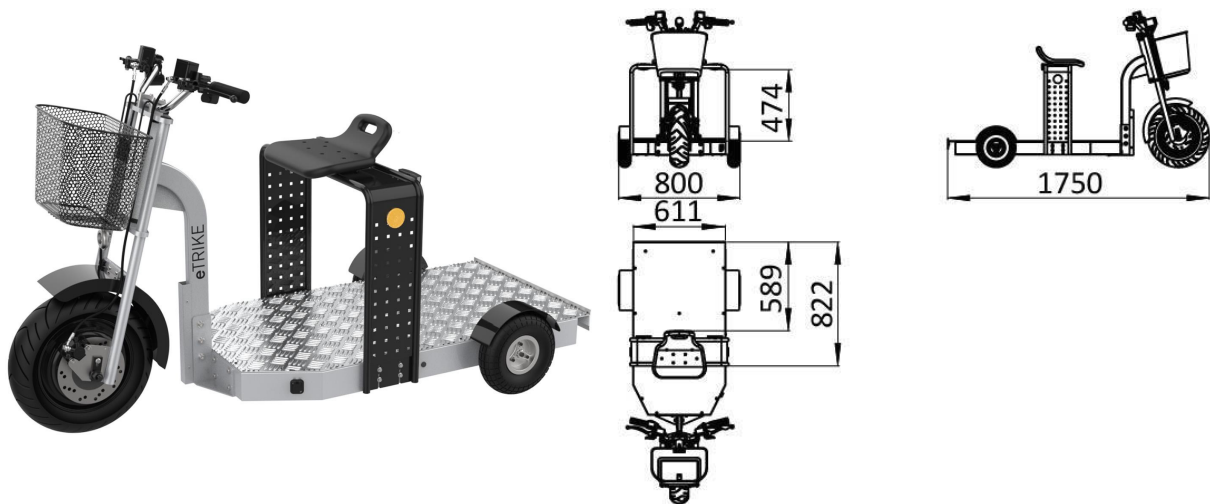


Figure 3 PLS 175

- Total length 1,750 mm
- Load area: 589 mm

2.5 Available spare parts

Only use authorised spare parts that are approved by the manufacturer.

Contact FATH GmbH for available spare parts.

2.6 Technical data

2.6.1 Ambient conditions

Ambient temperature	[°C]	-5 ... +40
Relative humidity	[%]	<80
Emitted noise level	[dB]	<70

Table 3 Ambient conditions

The conditions at the site of use of the eTRIKE Plattform Scooter must at least correspond to the permissible ambient conditions.

- Permissible are, for example, normal production environments without corrosive substances, flammable gases and flammable, vaporising liquids.
- It is intended for use in covered and enclosed spaces and non-public traffic routes.

Any use under other conditions must be agreed in writing with FATH GmbH.

2.6.2 Ride data

Maximum speed forwards	[km/h]	15
Maximum speed reverse	[km/h]	4
Range	[km]	40

Table 4 Ride data

2.6.3 Dimensions

		PLS 135	PLS 175
Length	[mm]	1,350	1,750
Width	[mm]	786	786
Height	[mm]	1,000	1,000
Load area	[mm]	214	589
Wheelbase	[mm]	1,013	1,548
Weight	[kg]	99.6	123.0
Approved total weight	[kg]	350	
Max. basket weight	[kg]	4	

Table 5 Dimensions

2.6.4 Battery data

Quantity		4
Type		Lead gel
Battery voltage	[V]	12
Operating current	[A]	20
Nominal capacity PLS 135	[Ah]	25
Nominal capacity PLS 175	[Ah]	38

Table 6 Battery data

2.6.5 Engine data

Engine voltage	[V]	48
Operating current	[A]	20
Power	[W]	1,000
Max. speed	[rpm]	195
Nominal speed	[Nm]	19.7

Table 7 Engine data

2.6.6 Electrical fuse data

Control fuse	[A/V]	2/80
Fuse protection Charging socket	[A/V]	7.5/80
Fuse protection Travel drive	[A/V]	30/80

Table 8 Electrical fuse data

2.6.7 Tyre data

Air pressure	[bar]	2.5
Front wheel type		130/60-10TL
Rear wheel type		4.10-3.50-4
Front wheel rim type		Wheel hub engine
Rear wheel rim type		Aluminium rims

Table 9 Tyre data

2.6.8 Service life

Year of manufacture		2025
Total	[years]	10

Table 10 Service life

The service life is planned with regular maintenance. If the maintenance intervals are too far apart, the service life is shortened..

2.7 Operating concept

2.7.1 Controls



Figure 4 Controls

Item	Description	Item	Description
1	Function display	6	Forward (F) and reverse gear (R)
2	Parking brake	7	Horn
3	Handbrake	8	Rear lights with light switch
4	Throttle grip	9	Front light with light switch
5	Ignition		

NOTE

- The light switch is located directly on the rear lights and the front light. The rear lights and the front light are separate components with their own batteries.
- The rear and front lights are switched on/off by pressing the light switch.
- Before every ride, make sure that the battery of the rear lights and front light is sufficiently charged.

2.7.2 Function display

You can see the battery charge level on the function display on the handlebars.

If the function display shows a low battery charge level, charge the battery, see chapter "5.3 Battery" on page 25.

3 Transporting, storing, unpacking

The eTRIKE Plattform Scooter is delivered in the eTRIKE transport box by a forwarding agent.

The eTRIKE Plattform Scooter is not intended for towing. Always transport the eTRIKE Plattform Scooter with the eTRIKE transport box, see chapter "3.1 Transportieren" on page 17.

The eTRIKE transport box is designed for transport by industrial trucks.

NOTE

► Keep the eTRIKE transport box for returns to FATH GmbH.

3.1 Transport

		PLS 135	PLS 175
Weight with Box and pallet	[kg]	130	150
Length	[mm]	1800	
Width	[mm]	900	
Height	[mm]	1400	

Table 11 Transport dimensions

Transport the eTRIKE transport box with an industrial truck as follows:

1. Secure the eTRIKE transport box on the transport pallet to prevent it from slipping.
 2. Move the forks of a suitable industrial truck, e.g. a pallet truck, below the lifting points of the transport pallet.
 3. Lift the transport pallet with the industrial truck.
 4. Move the transport pallet to the storage location.
 5. Place the transport pallet at the storage location.
- ✓ You have transported the eTRIKE transport box with an industrial truck.

3.2 Unpacking

Prerequisite:

- A ramp is available.

Unpack the eTRIKE Plattform Scooter as follows:

1. Remove the eTRIKE transport box by lifting it.
2. Remove the packaging.
3. Place a ramp in front of the transport pallet.
4. Carefully push the eTRIKE Plattform Scooter via the ramp from the transport pallet.
5. Check the eTRIKE Plattform Scooter for damage.

6. Contact FATH GmbH in case of damage.
- ✓ You have unpacked the eTRIKE Plattform Scooter.

! NOTE

- ▶ *Keep the eTRIKE transport box if you need to repack the eTRIKE Plattform Scooter, for example to send it to FATH GmbH for servicing, or for extended storage.*
-

The packaging material consists of plastic, cardboard and wood. Separate the packaging material according to material and recycle it in an environmentally friendly manner.

3.3 Storage

Store the eTRIKE Plattform Scooter in a covered, dry and swept clean room. Follow the information on storage temperature and humidity, see chapter "2.6.1 Ambient conditions" on page 14.

Charge the battery weekly, see chapter "5.3.1 Charging the battery" on page 25.

4 Operation preparation

4.1 Adjustment and inspection

Perform adjustments and inspections of the eTRIKE Plattform Scooter as follows:

1. **WARNING! Risk of chemical burns possible due to leaking battery acid.**

- Check that no liquids are leaking. In case of leaking liquids, contact FATH GmbH to send in the eTRIKE Plattform Scooter.
- Collect any leaking liquids and dispose of them properly.
- Have your eTRIKE Plattform Scooter inspected and, if necessary, cleaned by FATH GmbH before using it again.
- Use protective gloves, safety goggles and protective clothing.



2. Adjust the seat, see chapter "5.8 Checking the seat" on page 32.
 3. Adjust the handlebars, see chapter "5.5 Checking and adjusting the handlebars" on page 29.
 4. Check that the air pressure and tread depth of the tyres are OK, see chapter "5.6 Checking the tyres" on page 29.
 5. If necessary, release the parking brake by releasing the locking mechanism on both handbrakes.
 6. Check that the parking brake lock can be secured.
 7. Insert the ignition key into the ignition.
 8. Turn the ignition key to the right.
- ➔ The function display shows the battery charge level.
- ➔ The engine starts.

9. **WARNING! Injury and property damage possible due to collision.**



- Look over your shoulder to check that there are no people or vehicles next to you.
 - Check that there are no people or vehicles in front of or behind you.
 - Never engage reverse gear unintentionally
10. Check the reverse gear by briefly reversing.
 11. Check the forward gear by briefly driving forwards.
 12. Check the handbrake:
 - Drive forwards.
 - Brake.
 - If the brake does not engage, contact FATH GmbH.
 13. Switch off the eTRIKE Plattform Scooter and park it safely, see chapter "4.4 Switching off and parking" on page 22.
 14. If necessary, charge the battery if the charge level of the battery is low, see chapter "5.3 Battery" on page 25.

15. Check that the lighting is working.
 16. Remove the ignition key.
- ✓ You have performed adjustments and inspections.

4.2 Loading

WARNING



Falling possible due to transport of persons.

- ▶ **DO NOT** transport persons on the basket.
- ▶ **DO NOT** transport persons on the load area.

WARNING



Impact possible due to ejected parts.

- ▶ Always secure transport boxes on the eTRIKE Plattform Scooter so that they cannot fall off during the ride, e.g. with lashing straps.
- ▶ **DO NOT** transport loose parts or parts that protrude beyond the dimensions of the eTRIKE Plattform Scooter.

Prerequisite:

- The load and driver together do not exceed the permissible total weight.
- The permissible basket weight is not exceeded.

Load the eTRIKE Plattform Scooter as follows:

1. Distribute the weight of the transport boxes evenly over the load area.
2. Secure the transport boxes to the seat holder, e.g. with lashing straps.



3. WARNING! Injury and property damage possible due to poor visibility.

- **DO NOT** load the basket so that visibility is impaired.
 - Only load the basket so that no part protrudes over the edge of the basket.
 - Please note that the weight in the basket can influence the driving behaviour.
- ✓ You have loaded the eTRIKE Plattform Scooter.

4.3 Driving

WARNING

Collision possible due to careless driving.

- ▶ Observe your driving environment carefully.
- ▶ Ride with both hands on the handlebars.
- ▶ **DO NOT** drive at high speed in confusing situations.
- ▶ Look left and right before you turn.
- ▶ **DO NOT** steer abruptly.
- ▶ Choose an appropriate speed so that you can stop in good time in dangerous situations.
- ▶ Reduce the speed when travelling downhill as soon as you exceed 15 km/h.



NOTE

- ▶ *Gain driving experience with the eTRIKE Plattform Scooter by travelling around the usage environment carefully, slowly and without transport boxes loaded.*

Prerequisite:

- You have performed all adjustments and inspections before starting, see chapter "4.1 Adjustment and inspection" on page 19.

Proceed with the eTRIKE Plattform Scooter as follows:

1. Insert the ignition key into the ignition.
2. Turn the ignition key to the right.
 - ➡ The engine starts.
3. Switch on the lighting.
4. Release the parking brake by releasing the locking mechanism on both handbrakes.
 - ➡ The function display shows the battery charge level.
5. Engage forward gear if you want to drive forwards.
Engage reverse gear if you want to drive backwards

6. WARNING! Injury and property damage possible due to collision.

- Look over your shoulder to check that there are no people or vehicles next to you.
- Check that there are no people or vehicles in front of or behind you.
- Use the horn to warn people or other vehicles in good time to avoid a collision.





7. WARNING! Injury and property damage possible due to blocked eTRIKE Plattform Scooter

- If the eTRIKE Plattform Scooter is blocked, turn the ignition key to the left.
 - Remove the ignition key.
 - Contact FATH GmbH to have the blockage removed.
8. Ride the eTRIKE Plattform Scooter to your destination.
 9. Switch off the eTRIKE Plattform Scooter and park it safely, see chapter "4.4 Switching off and parking" on page 22.
- ✓ You rode the eTRIKE Plattform Scooter

4.4 Switching off and parking

Prerequisite:

- eTRIKE Plattform Scooter is active.
- A solid and level parking area is available.

After use, switch off the eTRIKE Plattform Scooter as follows:

1. Park the eTRIKE Plattform Scooter in the parking area.
 2. Release the throttle grip.
 3. Leave enough space around the handlebars so that the throttle and brake levers and handbrake lever are not operated accidentally.
 4. Press and hold the left handbrake.
 5. Attach the parking position locking mechanism to the left handbrake.
 6. Repeat steps 4 and 5 for the right-hand locking mechanism.
 7. Remove the ignition key.
 8. Keep the ignition key in a safe place.
- ✓ You have switched off the eTRIKE Plattform Scooter.

4.5 Faults, messages and errors

Correct faults as follows:

1. Ensure that there is no danger to persons or property. In case of danger, switch off the eTRIKE Plattform Scooter, see chapter "4.4 Switching off and parking" on page 22.
 2. Determine the cause of the fault.
 3. Check whether you can correct the fault by yourself or whether you need to assign authorised specialists by FATH GmbH.
 4. If necessary, please contact FATH GmbH.
- ✓ You have corrected the fault.

5 Maintenance and servicing

ATTENTION

Property damage possible due to incorrect maintenance.

- ▶ Only adequately trained persons may service the eTRIKE Plattform Scooter.
- ▶ **DO NOT** unscrew the chassis.
- ▶ Only use original parts and accessories by FATH GmbH

Prepare for maintenance and servicing as follows:

1. **WARNING! Injury and property damage possible due to unexpected movements.**

- Switch off the eTRIKE Plattform Scooter, see chapter "4.4 Switching off and parking" on page 22.
2. Remove the transport boxes that are still on the eTRIKE Plattform Scooter.
- ✓ You have prepared for maintenance and servicing.

5.1 Regular inspection

5.1.1 Entire vehicle

Interval	Inspection / task	Measures in case of faults
Before each use	Visual inspection	Contact FATH GmbH
Weekly	Cleaning	
Every 200 operating hours	Inspection, tighten all screws	Contact FATH GmbH
Quarterly		
Annually	UVV inspection	Contact FATH GmbH

5.1.2 Battery

Interval	Inspection / task	Measures in case of faults
Weekly	Charge battery	Contact FATH GmbH

5.1.3 Brake

Interval	Inspection / task	Measures in case of faults
Weekly	Checking the brake fluid level	Contact FATH GmbH
	Visual inspection of brake lines	Contact FATH GmbH
Quarterly	Checking the brake pads and discs	Contact FATH GmbH

5.1.4 Handlebars

Interval	Inspection / task	Measures in case of faults
Weekly	Checking the attachment	Tighten screw connections

5.1.5 Wheels

Interval	Inspection / task	Measures in case of faults
Weekly	Checking the air pressure	Inflate tyres
Quarterly	Checking attachments	Tighten screw connections

5.1.6 Seat

Interval	Inspection / task	Measures in case of faults
Weekly	Checking the attachment	Tighten screw connections

5.1.7 Labelling and/or engravings

Interval	Inspection / task	Measures in case of faults
Daily	Visual inspection	Cleaning, replacing

5.2 Cleaning

CAUTION



Injury and property damage possible due to incorrect cleaning.

- ▶ Only clean the eTRIKE Plattform Scooter while switched off.
- ▶ **DO NOT** use solvents or aggressive cleaning agents.
- ▶ **DO NOT** use high-pressure cleaners or steam cleaners.
- ▶ **DO NOT** use steel brushes.

Clean the eTRIKE Plattform Scooter as follows:

1. Check that the eTRIKE Plattform Scooter is switched off.
 2. Clean with a damp cloth and mild soap:
 - the seat,
 - the handles.
 3. Clean the outer surfaces of the eTRIKE Plattform Scooter with a damp, lint-free cloth.
 4. If necessary, use a mild cleaning agent for heavier soiling.
 5. Clean dirty wheels with a damp brush made of synthetic bristles
- ✓ You have cleaned the eTRIKE Plattform Scooter.

5.3 Battery

DANGER

Electric shock when opening the charger.

- ▶ Maintenance and repair work on the charger may only be carried out by authorised qualified electricians
- ▶ **DO NOT** open the charger yourself.
- ▶ Completely switch off the charger before opening it.
- ▶ Ensure that the charger is de-energised before performing any work on it.



5.3.1 Charging the battery

Charge the battery at the latest when the battery charge indicator reaches the last bar.

DANGER

Electric shock due to damaged charging cable.

- ▶ Check the charging cable for damage before use.
- ▶ **DO NOT** use a damaged charging cable.



WARNING

Explosion and fire possible due to incorrect charging of the battery.

- ▶ **DO NOT** charge the battery with a charger that is not intended for the battery.
- ▶ **DO NOT** use a charging current that is too high.
- ▶ Only use the intended battery type, see "2.6.4 Battery data" on page 15.
- ▶ Maintain the legal distance between industrial trucks when loading.
- ▶ **DO NOT** expose the eTRIKE Plattform Scooter to direct sunlight.
- ▶ **DO NOT** charge more than 1 eTRIKE Plattform Scooter per socket.



Prerequisite:

- The eTRIKE Plattform Scooter is switched off.
- The ignition key is removed.
- The battery should preferably be at room temperature.



Figure 5 Charging socket

Charge the battery as follows:

1. Open the cover of the charging socket.
 2. Connect the charging cable of the supplied charger to the charging socket.
 3. Rotate the charging plug by 45°.
 4. Insert the plug of the charger into an earthed power socket.
- ➔ The LED on the charger lights up red during the charging process.
5. Depending on the condition of the battery, the charging time is around 4 to 5 hours.



6. WARNING! Risk of injury and property damage possible due to the battery catching fire during the charging process.

- Disconnect the eTRIKE Plattform Scooter from the mains if this can be done safely.
 - Only extinguish the eTRIKE Plattform Scooter with a suitable CO₂ fire extinguisher.
- ➔ When the green LED on the charger lights up, the battery is fully charged.
7. Unplug the charger from the power socket.
 8. Unplug the charging plug of the batteries from the eTRIKE Plattform Scooter.
 9. Close the cover.
 10. If you can no longer charge the battery, contact FATH GmbH to send in the eTRIKE Plattform Scooter.
 11. When you receive the eTRIKE Plattform Scooter with a new battery, charge the new battery.
- ✓ You have charged the battery.

5.3.2 Changing the battery

 DANGER



Electric shock due to live components.

- ▶ Work on the electrical lines and components must **ONLY** be performed by qualified electricians.
- ▶ Observe the 5 safety rules of electrical engineering for all work on electrical lines and components.
- ▶ **DO NOT** bridge the battery terminals.

 NOTE

- *If you cannot replace the battery yourself, contact FATH GmbH to send in the eTRIKE Plattform Scooter.*
-

Prerequisite:

- Tools:
 - Cordless screwdriver,
 - Socket wrench.
- The eTRIKE Plattform Scooter is switched off.
- The ignition key is removed.

Change the battery as follows:

1. Loosen the 4 screws on both sides of the seat holder using the cordless screwdriver.
2. Pull off the seat holder.
3. Loosen all screws on the floor plate.
4. Pull off the floor plate.
5. Loosen the screws on the bracket using the socket wrench.
6. Pull off the bracket.
7. Disconnect the negative terminal from the battery.
8. Disconnect the positive terminal from the battery.

9. WARNING! Risk of chemical burns possible due to leaking battery acid.

- **DO NOT** tilt the battery.
- **DO NOT** open the battery.
- **DO NOT** use batteries from which liquid is leaking.
- Collect any leaking liquids and dispose of them properly.
- Use protective gloves, safety goggles and protective clothing.

10. Remove the battery.

➡ You have removed the battery.

11. Dispose of the old battery properly.
12. Place the new battery in the battery compartment.
13. Secure the battery bracket with the screws.
14. Connect the positive terminal to the battery.
15. Connect the negative terminal to the battery.
16. Repeat steps 5 to 14 for all other batteries.
17. Secure the floor plate with the screws.
18. Secure the seat holder with the screws.



19. Fully charge the battery, see chapter "5.3.1 Charging the battery" on page 25.

✓ You have changed the battery.

5.4 Checking the brakes

5.4.1 Checking the brake fluid level

Check the brake fluid level as follows:

1. Check the brake fluid level indicator on the brake fluid reservoir.
2. If the brake fluid is below the mark, loosen the screws on the cover of the brake fluid reservoir.
3. Remove the cover of the brake fluid reservoir.
4. Top up with brake fluid until the brake fluid level reaches the mark.
5. Secure the cover of the brake fluid reservoir with the screws.

✓ You have checked the brake fluid level.

5.4.2 Visual inspection of hydraulic lines

Check the hydraulic lines as follows:

1. Press the brake several times.
2. Visually inspect the hydraulic lines from the brake fluid reservoir to the brake.
3. If brake fluid is leaking from the hydraulic lines or the brake, contact FATH GmbH to send in the eTRIKE Plattform Scooter.

✓ You have checked the hydraulic lines

5.4.3 Checking the brake pads

Prerequisite:

- Tools: Caliper.

Check the brake pads as follows:

1. Check whether the brakes have lost braking force.
2. Use a caliper to measure whether the brake pads are still at least 1 mm thick.
3. If the brake pads are too worn, contact FATH GmbH to send in the eTRIKE Plattform Scooter.

✓ You have checked the brake pads.

✓

5.5 Checking and adjusting the handlebars



Figure 6 Handlebar blocks

Check the handlebars as follows:

1. Loosen the bolts of the handlebar blocks on the handlebar.
 2. Turn the handlebars to a height at which you can grip them comfortably.
 3. Fasten the screws of the handlebar blocks.
 4. Check that the handlebars move smoothly.
 5. If the handlebars do not move smoothly or are worn out, contact FATH GmbH to have the eTRIKE Plattform Scooter sent in.
- ✓ You have checked the handlebars.

5.6 Checking the tyres

5.6.1 Checking the air pressure

NOTE

► For the correct tyre pressure, see chapter "2.6.7 Tyre data" on page 15

Check the tyre pressure as follows:

1. Switch off the eTRIKE Plattform Scooter and park it safely, see chapter "4.4 Switching off and parking" on page 22.
 2. Open the valve of the front tyre.
 3. Connect an air pump with indicator.
 4. Pump until the correct amount of air is in the front tyre.
 5. If the air pressure is too high, let some air out of the tyre until the correct amount of air is in the front tyre.
 6. Close the valve.
 7. Repeat steps 2 to 6 with the two rear tyres.
- ✓ You have checked the tyre pressure.

5.6.2 Checking the tyre tread

Prerequisite:

- Tools: Caliper.

Check the depth of the tyre tread as follows:

1. Switch off the eTRIKE Plattform Scooter and park it safely, see chapter "4.4 Switching off and parking" on page 22.
 2. Measure whether the tread depth of all tyres is still at least 1 mm.
 3. If the tread depth of a tyre is < 1 mm, contact FATH GmbH to send in the eTRIKE Plattform Scooter.
- ✓ You have checked the depth of the tyre tread.

5.7 Changing the throttle grip

NOTE

- For a video visualising the procedure for changing the throttle grip visit here:
<https://www.etrrike-scooter.de/plattform-scooter/bedienung-wartung>
-

Prerequisite:

- Tools:
 - Cordless screwdriver,
 - Socket wrench,
 - Hexagon socket wrench,
 - Wedge.

Change the throttle grip as follows:

1. Switch off the eTRIKE Plattform Scooter, see chapter "4.4 Switching off and parking" on page 22.
2. Loosen the 4 screws on both sides of the seat holder using the cordless screwdriver.
3. Pull off the seat holder.
4. Loosen all screws on the floor plate.
5. Pull off the floor plate.
6. Use the socket wrench to loosen all screws on the battery bracket that lead directly to the handlebars.
7. Pull off the bracket.
8. Lift the battery with a wedge.
9. Detach the positive terminal of the battery using a hexagon socket wrench.
10. Attach a plastic protector to the positive cable.
11. Press the horn to discharge the residual voltage.
12. Disconnect the throttle grip plug.
13. Unplug the green, yellow, brown and red cables.

14. Carefully remove the pins from the throttle grip plug using a pointed object.
15. Unscrew the cable guide cover.
16. Pull off the cable guide cover.
17. Guide the cables out of the frame.
18. Unwind the cable sheathing.
19. Remove the cable ties from the handlebars.
20. Loosen the cable gland on the handlebars.
21. Pull out the cable harness.
22. Loosen the fastening screw of the throttle grip using a hexagon socket wrench.
23. Pull off the throttle grip.
24. Place the new throttle grip.
25. Fasten the new throttle grip to the fastening screw using a hexagon socket wrench.
26. Thread the cable harness of the new throttle grip through the frame to the battery.
27. Secure the cable harness to the handlebars with cable ties.
28. Wind the cable sheathing onto the cable harness.
29. Fasten the cable guide cover with the screws.

**30. WARNING! Electric shock
and property damage possible due to incorrect installation.**

- Make sure that you only connect the pins opposite to cables of the same colour.
- Carefully insert the pins into the plug of the throttle grip.



31. Plug in the green, yellow, brown and red cables.
 32. Fasten the positive terminal with a hexagon socket wrench.
 33. Apply pole grease.
 34. Remove the wedge.
 35. Fasten the bracket with all screws and the socket wrench.
 36. Secure the floor plate with the screws.
 37. Secure the seat holder with the screws.
- ✓ You have changed the throttle grip.

5.8 Checking the seat

Check the seat as follows:

1. Switch off the eTRIKE Plattform Scooter and park it safely, see chapter "4.4 Switching off and parking" on page 22.
 2. Check the seat for damage.
 3. Loosen the 4 screws on both sides of the seat holder.
 4. Slide the seat holder to a height at which your knees are at a 90° angle.
 5. If you cannot produce a suitable height, please contact FATH GmbH.
 6. Fasten the 4 screws on each side of the seat holder.
 7. If the seat is damaged, contact FATH GmbH to send in the eTRIKE Plattform Scooter.
- ✓ You have checked the seat.

5.9 Repair and replacement of parts

Only qualified personnel from FATH GmbH may perform repairs on the eTRIKE Plattform Scooter or replace parts.

If you perform repairs or change parts on the eTRIKE Plattform Scooter yourself:

- Guarantee and warranty claims are invalidated.
- You are liable for any damage that may occur.

Contact FATH GmbH if repairs need to be carried out on the eTRIKE Plattform Scooter or parts need to be replaced.

5.10 Inspection

Carry out an inspection as follows:

1. Check the seat, see chapter "5.7 Changing the throttle grip" on page 30.
 2. Check the handlebars, see chapter "5.5 Checking and adjusting the handlebars" on page 29.
 3. Check the brakes, see chapter "5.4 Checking the brakes" on page 28.
 4. Check that the tyre pressure is set correctly, see chapter "5.6.1 Checking the air pressure" on page 29.
 5. Charge the battery, see chapter "5.3 Battery" on page 25.
 6. If parts are damaged or worn, contact FATH GmbH to send in the eTRIKE Plattform Scooter.
- ✓ You have carried out an inspection.

5.11 UVV inspection

Contact FATH GmbH annually to have an UVV inspection performed on the eTRIKE Plattform Scooter.

5.12 Preparing to send in

Prerequisite:

- A ramp is available.

Prepare to send in the eTRIKE Plattform Scooter as follows:

1. Place a ramp in front of the transport pallet.
 2. Carefully push the eTRIKE Plattform Scooter via the ramp onto the transport pallet.
 3. Place the packaging.
 4. Lift the eTRIKE transport box onto the eTRIKE Plattform Scooter.
 5. Transport the eTRIKE Plattform Scooter to the storage location, see chapter "3.1 Transportieren" on page 17
- ✓ You have prepared to send in the eTRIKE Plattform Scooter.

6 Decommissioning and disposal

6.1 Decommissioning

Decommission the eTRIKE Plattform Scooter as follows:

1. Switch off the eTRIKE Plattform Scooter and park it safely, see chapter "4.4 Switching off and parking" on page 22.
- ✓ You have decommissioned the eTRIKE Plattform Scooter.

6.2 Disposal and recycling

Ensure safe and proper disposal by qualified personnel, especially of parts or substances that are harmful to the environment.



The disposal of the eTRIKE Plattform Scooter including operating materials and any cleaning fluids is governed by local disposal regulations and environmental laws.

Commission FATH GmbH or an authorised specialist company with the disposal in order to avoid risks to the environment. The local municipal authority can provide you with information on this.

Ensure the correct disposal of materials that can be recycled in an environmentally friendly manner.

The packaging material consists of plastic, cardboard and wood. Separate the packaging material according to material and recycle it in an environmentally friendly manner.

7 Appendix

7.1 EU/EC Declaration of Conformity

DE

FATH

**EG KONFORMITÄTSERKLÄRUNG NACH MASCHINENRICHTLINIE
2006/42/EG, ANHANG II 1.A**

Der Hersteller FATH GmbH Gewerbepark
Hügelmühle 31
D-91174 Spalt

erklärt hiermit, dass folgendes Produkt

Produktbezeichnung: *eTRIKE Plattform Scooter*
Typen: eTRIKE Plattform Scooter PLS 135 / Art.-Nr. 169323
eTRIKE Plattform Scooter PLS 175 / Art.-Nr. 169324

Seriennummer:

den Bestimmungen der oben gekennzeichneten Richtlinien – einschließlich deren zum Zeitpunkt der Erklärung geltenden Änderungen entspricht.

Folgende harmonisierte Normen wurden angewandt:

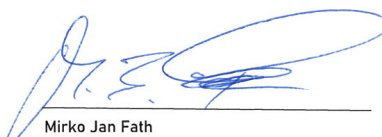
EN ISO 12100:2010 Sicherheit von Maschinen – Allgemeine Gestaltungsgrundsätze Risikobeurteilung und Risikominderung

DIN EN 60204-1:2019-06; VDE 0113-1:2019-06 Sicherheit von Maschinen – Elektrische Ausrüstung von Maschinen – Teil 1: Allgemeine Anforderungen

Die technische Dokumentation für diese Maschine wurde nach Anhang VII Teil A erstellt. Der Hersteller verpflichtet sich, diese technischen Unterlagen einzelstaatlichen Stellen auf Verlangen elektronisch zu übermitteln.

Bevollmächtigter für die Zusammenstellung der technischen Unterlagen ist: Herr Mirko Jan Fath

Ort, Datum: Spalt, 05. August 2024


Mirko Jan Fath

10

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Figure 7 Declaration of Conformity

7.2 Road approval



GTÜ mbH
Technischer Dienst
Vor dem Lauch 25
70567 Stuttgart

Bericht-Nr.: **1LNL01249** FIN: **WEGTDP00077R00218** Datum: 03.04.2024 Seite 1 von 1

Gutachten zur Erlangung einer Einzelbetriebserlaubnis gemäß § 21 StVZO

Daten für Fahrzeugbeschreibung (gültig nur mit zugehörigem Untersuchungsbericht)

B	-	2.1	0901	2.2	00000000	-	L	2	9	1	P2/P4	1/195	T	15
J	21	4	0100				18	1750				19	800	
E	WEGTDP00077R00218						3	0	20	1030		G	123	
D.1	Fath						12	-		13	-	Q	-	
D.2	ES135						V.7	-		F.1	350	F.2	350	
	-						7.1	175		7.2	175	7.3	-	
	-						8.1	175		8.2	175	8.3	-	
	-						U.1	-		U.2	-	U.3	-	
D.3	eTRIKE Plattform Scooter						0.1	-		0.2	-	S.1	1	S.2 -
2	Fath GmbH						15.1	130/60-15	52J					
5	SO.KFZ KRANKENFAHRSTUHL						15.2	4.10/3.10	4PR					
	-						15.3	-						
V.9	-						R	-					11	-
14	-						K	-						
P.3	Elektro						6	-			17	-	16	-
10	0004	14.1	-	P.1	-		21							
22	Elektromotor: QSMOTOR 48V100WC40* 4.0... Energie TNE12-25 Batterie, Ub=48V DC* hydr. Doppelscheibenbremse an Achse... Durchm. 190mm, davon 1 feststellbar* zu 15.1: a. MT 2.15x10* Radstand 12... Abw. v. § 58 StVZO: Anzahl Geschwindigk eitsschilder nicht ausreichend: Ausg. gem. § 70 StVZO erf.**													

Zusätzliche Bemerkungen zur Fahrzeugbeschreibung:

Motornummer: 21064407010015045

Dieses Gutachten ist nur gültig mit Originalstempel und Unterschrift sowie in Verbindung mit der Aufstellung der technischen Vorschriften, auf deren Grundlage die Betriebserlaubnis für das Fahrzeug erteilt werden soll. Es wird bescheinigt, dass die vorstehend aufgeführten Angaben zur Fahrzeugbeschreibung zutreffen und das Fahrzeug - ausgenommen der ggf. gemäß Feld 22 erforderlichen Ausnahmen - den geltenden Vorschriften entspricht.

Unterschriftsberechtigte(r): B.Eng. Jürgen Scholz
Ort und Datum: Neuendettelsau, 03.04.2024

Kontakt: Ingenieur und Sachverständigenbüro DEMAS, Gewerbering 7b, 91564 Neuendettelsau
Telefon: 09874504810



Stempel/Unterschrift

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 Benannter Technischer Dienst · Reg.-Nr.: KBA-P 00077-09 · Geschäftsführung: Thomas Emmert, Gabriele Schmidt-Rauße, Dr. Frederik Schmidt
 Sitz der Gesellschaft/Registergericht: Stuttgart HRB Nr. 9610 · USt.-IdNr.: DE 147841514 · Bitte beachten Sie die Rückseite

Figure 8 Road approval (Demas test report)

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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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FATH

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