

ERE K20

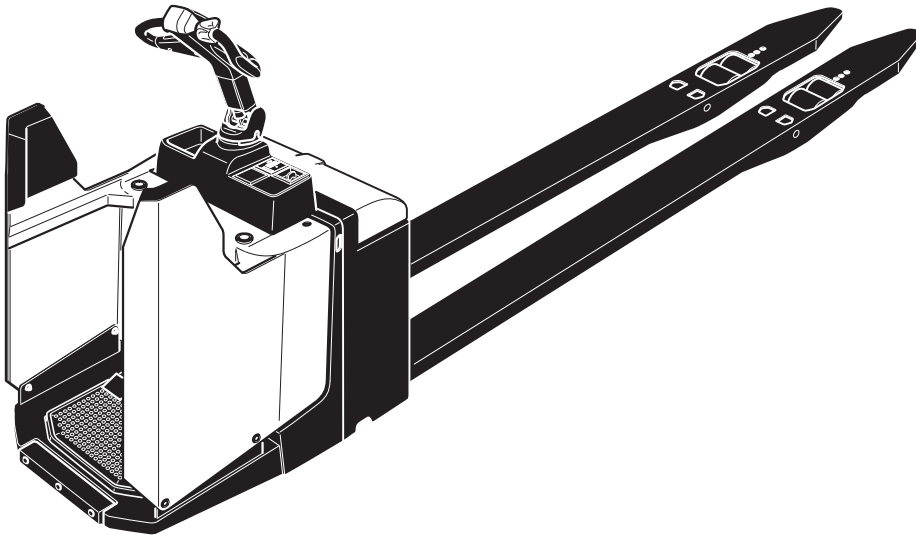
03.05 -

Operating instructions



50468919

02.11



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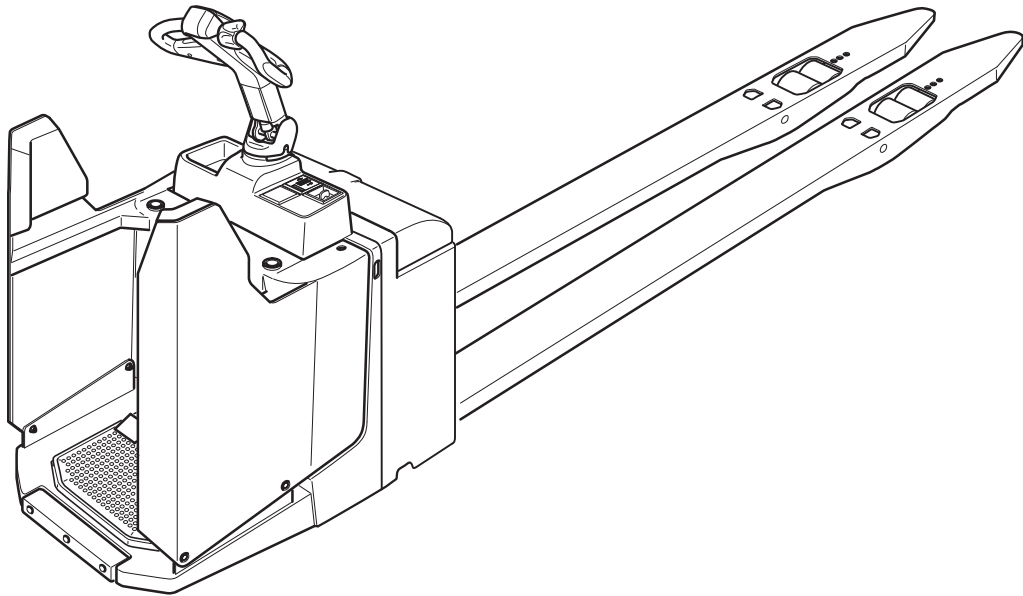
B Truck Description

1 Application

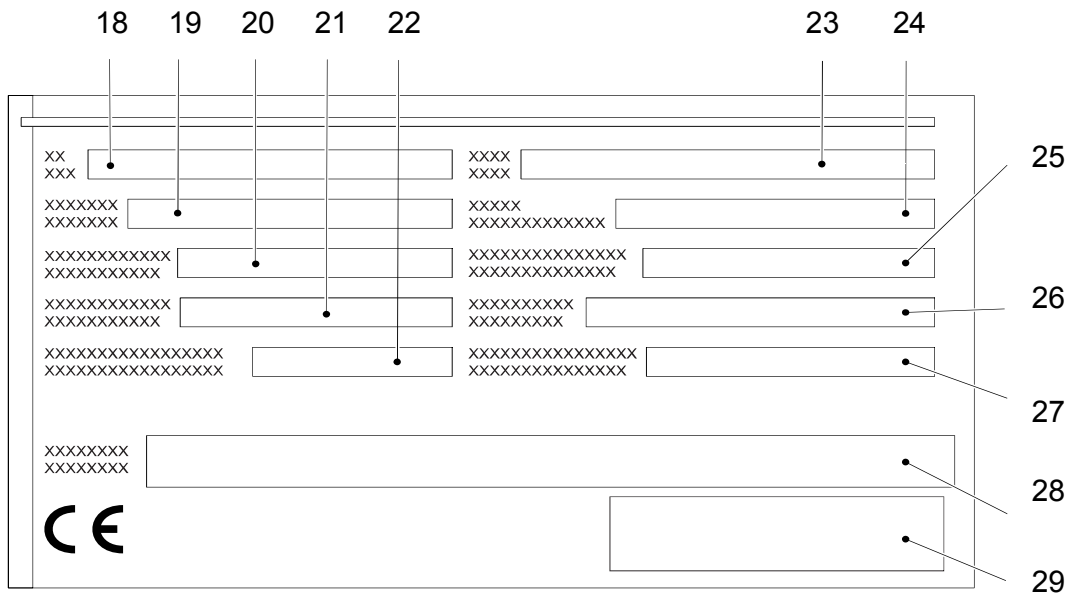
The forklift truck is a three-wheel, tiller operated electric pallet truck with a fixed operator platform.

It is designed for lifting and transporting goods on level surfaces. Open bottom pallets or pallets with transverse boards (provided that the boards are outside the range of the load wheels) can be lifted.

The rated capacity of the truck is shown on the data plate or capacity plate Qmax.



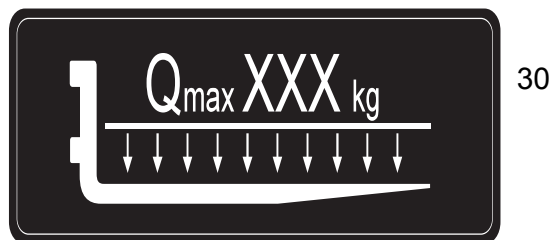
3.9.1 Data plate



Item	Description	Item	Description
18	Type	24	Year of manufacture
19	Serial number	25	Load centre (mm)
20	Rated capacity (kg)	26	Output
21	Battery voltage (V)	27	Min./max. battery weight (kg)
22	Net weight w.o. battery (kg)	28	Manufacturer
23	Option	29	Manufacturer's logo

→ For queries regarding the truck or ordering spare parts always quote the truck serial number (19).

3.9.2 Truck load chart



The load chart (30) gives the capacity (Q) of the truck in kg assuming the load on the load handler is evenly distributed.

3 Exposing the battery

CAUTION!

Trapping hazard

- ▶ Make sure there is nothing between the battery cover and the truck when you fit the battery cover.

WARNING!

An unsecured truck can cause accidents

Parking the truck on an incline or with a raised load handler is dangerous and is strictly prohibited.

- ▶ Always park the truck on a level surface. In special cases the truck may need to be secured with wedges.
- ▶ Always fully lower the mast and forks.
- ▶ Select a place to park where no other people are at risk of injury from lowering forks.

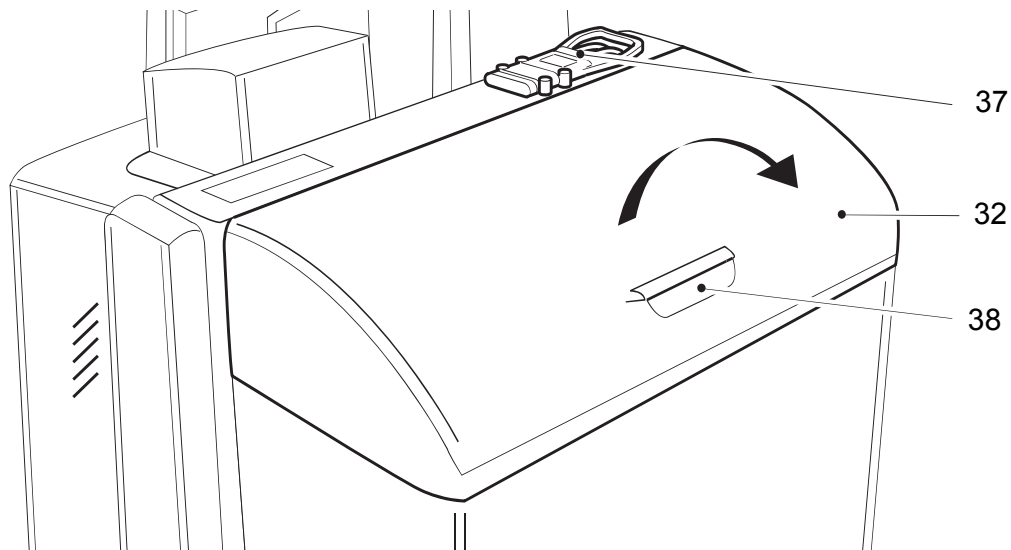
Requirements

- Park the truck on a level surface.
- Park the truck securely, (see "Parking the truck securely" on page 44).

Procedure

- Pull out the Emergency Disconnect switch (4).
- Lift up the battery cover (32) using the grip mould (38) and fold it back.

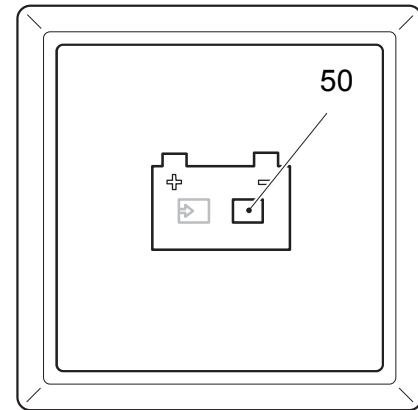
The battery connector (37) and battery retainer (40) can be accessed



2.1 Battery discharge indicator

When the truck has been released via the key switch, code lock or ISM, the battery charge status is displayed. The LED (50) colours represent the following conditions:

LED colour	Residual capacity
Green	40 - 100 %
Orange	30 - 40 %
Flashing green/orange 1Hz	20 - 30 %
Red	0 - 20 %



If the LED is red, load units can no longer be lifted. Lifting is only enabled again when the battery connected is at least 70% charged.

If the LED flashes red and the truck is not ready for operation, inform the manufacturer's service department. Red flashing is a truck controller code. The flashing sequence indicates the type of fault.

4.2.4 Brakes

The brake pattern of the truck depends largely on the travel route conditions. The driver must take this into account when travelling.

The truck can brake in three different ways:

- With the service brake
- by regenerative braking (coasting)
- By inversion braking (controller)

CAUTION!


- ▶ Use the service brake in emergencies
-


Braking with the service brake

Procedure

- Set the tiller (2) to one of the brake zones (B).

The motor brake is applied mechanically to the drive motor.

 *When the truck is parked, the service brake acts as a parking brake.*

 Braking with the service brake for trucks with rigid tiller (○) and cushioned operator platform (○):

Procedure

- Press the brake button (46) in the tiller head.

The motor brake is applied mechanically to the drive motor.

Regenerative braking

Procedure

- Release the travel switch (1) - the travel switch (1) reverts to neutral.


The truck brakes to a halt regeneratively via the coasting brake. The service brake then applies.

Inversion braking

Procedure

- When travelling, set the travel switch (1) to the opposite direction.

The truck brakes regeneratively until it starts to move in the opposite direction.

 The brake force can be set by the manufacturer's service department.

Parameter list

No.	Function	Setting range	Standard setting	Procedure
000	Change master code: The length (4-6 digits) of the master code also determines the length of the operator code (4-6 digits). Provided the operator codes are programmed, only new codes of the same length can be entered. If you wish to change the code length, you must first delete all the operator codes.	0000 - 9999 or 00000 - 99999 or 000000 - 999999	7295	<ul style="list-style-type: none"> - (LED 71 flashes) Enter current code - (Set 75) - (LED 72 flashes) Confirm new code entry - (Set 75) - (LED 73 flashes) repeat new code - (Set 75)
001	Add code (max. 250)	0000 - 9999 or 00000 - 99999 or 000000 - 999999	2580	<ul style="list-style-type: none"> - (LED 72 flashes) Confirm code entry - (Set 75) - (LED 73 flashes) repeat code entry - (Set 75)
002	Delete code	0000 - 9999 or 00000 - 99999 or 000000 - 999999		<ul style="list-style-type: none"> - (LED 71 flashes) Confirm current code entry - (Set 75) - (LED 72 flashes) Confirm new code entry - (Set 75) - (LED 73 flashes) Confirm code re-entry - (Set 75)
LEDs 71-73 are located in keypads 1-3.				

4.2 Customer Service

4.2.1 Standard equipment

Brakes		W	A	B	C
1	Check magnetic brake air gap, adjust if necessary.			●	
2	Test brakes.			●	
3	Check brake mechanism, adjust and lubricate if necessary.			●	

Electrical System		W	A	B	C
1	Test displays and controls.			●	
2	Test warning and safety devices in accordance with operating instructions.			●	
3	Check fuse ratings.			●	
4	Check electric wiring for damage [insulation damage, connections]. Make sure wire connections are secure.			●	
5	Test micro switch and adjust if necessary.			●	
6	Check contactors and/or relays.			●	
7	Carry out a frame leakage test.			●	
8	Test cable and motor attachments.			●	
9	Check carbon brushes and replace if necessary. Note: when replacing the carbon brushes apply compressed air to the motor.			●	
10	Test Emergency Disconnect switch.			●	

Power Supply		W	A	B	C
1	Check battery and battery components.			●	
2	Check battery cable connections are secure, grease terminals if necessary.			●	
3	Check acid density and battery voltage.			●	
4	Check battery connector for damage, test it and make sure it is secure.			●	

Travel		W	A	B	C
1	Check transmission for noise and leakage.			●	
2	Check transmission oil level or grease filling of the transmission and top up if necessary.			●	
3	Check wheel suspension and attachment.			●	
4	Check wheels for wear and damage.			●	
5	Replace transmission oil.			*	●
6	Test deadman switch.			●	
7	Checking bedding and attachment of the drive system.			●	

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