

EJE 110 / 116 / 118 / 120

04.07 -

Operating instructions



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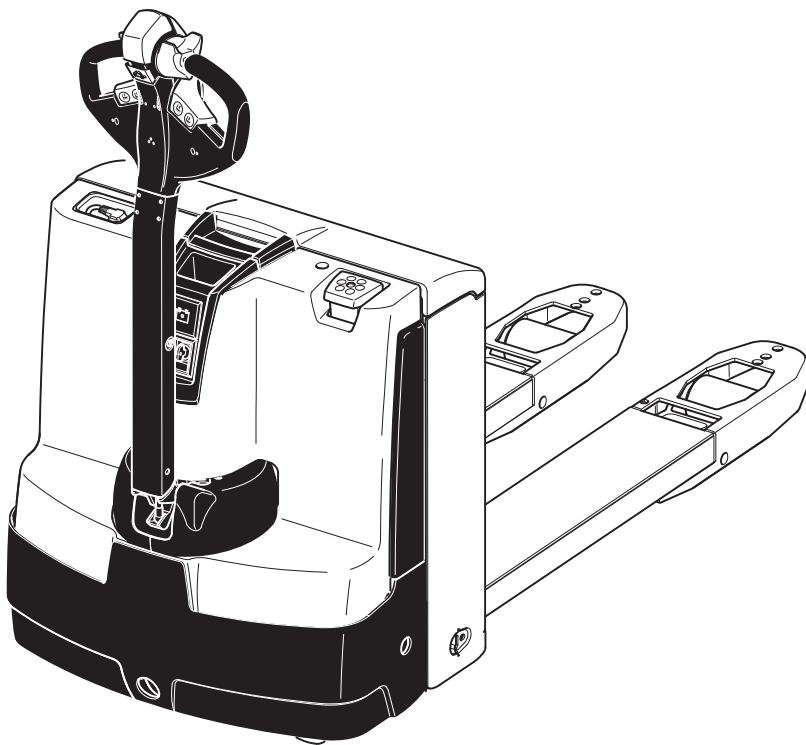
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EJE 110

EJE 116

EJE 118

EJE 120



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B Truck Description

1 Application

The EJE 110 / 116 / 118 / 120 is designed to transport goods on level surfaces. It can lift open bottom or diagonal board pallets as well as roll cages beyond the area of the load wheels. The capacity is shown on the capacity plate, Qmax.

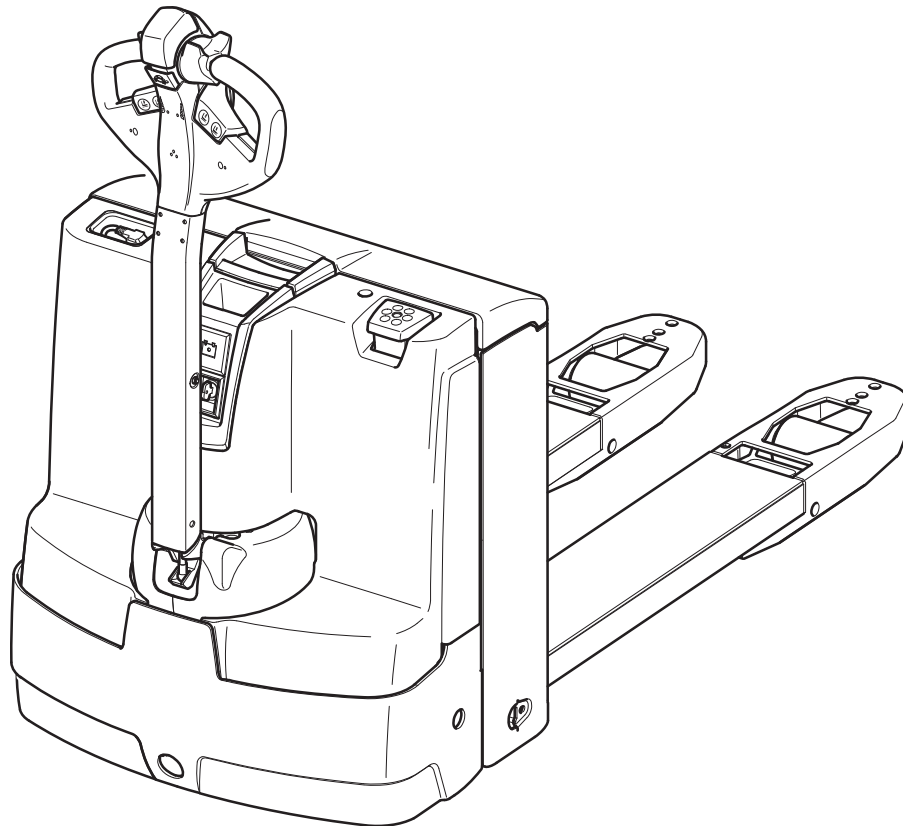
1.1 Truck models and rated capacity

The rated capacity depends on the model. The rated capacity can be derived from the model description.

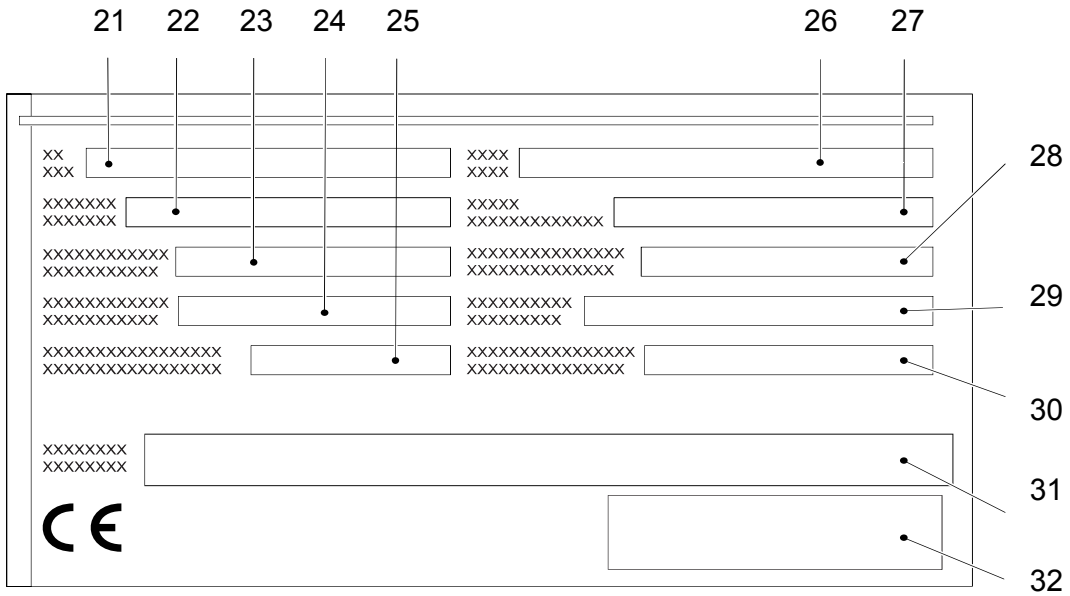
EJE110

EJE	Model name
1	Series
10	Rated capacity x 100 kg

The rated capacity does not generally match the permissible capacity. The capacity can be found on the load chart attached to the rack.



4.1 Data plate



Item	Description	Item	Description
21	Type	27	Year of manufacture
22	Serial number	28	Load centre (mm)
23	Rated capacity (kg)	29	Output
24	Battery voltage (V)	30	Min./max. battery weight (kg)
25	Net weight w.o. battery (kg)	31	Manufacturer
26	Option	32	Manufacturer's logo



For queries regarding the truck or ordering spare parts always quote the truck serial number (22).

4 Charging the battery

WARNING!

The gases produced during charging can cause explosions

The battery produces a mixture of nitrogen and hydrogen (electrolytic gas) during charging. Gassing is a chemical process. This gas mixture is highly explosive and must not be ignited.

- ▶ Switch the charging station and truck off first before connecting/disconnecting the charging cable of the battery charging station to/from the battery connector.
 - ▶ The charger must be adapted to the battery in terms of voltage and charge capacity.
 - ▶ Before charging, check all cables and plug connections for visible signs of damage.
 - ▶ Ventilate the room in which the truck is being charged.
 - ▶ The battery cover must be open and the battery cell surfaces must be exposed during charging to ensure adequate ventilation.
 - ▶ Do not smoke and avoid naked flames when handling batteries.
 - ▶ Wherever an industrial truck is parked for charging there shall be no inflammable material or lubricants capable of creating sparks within 2 m around the truck.
 - ▶ Fire protection equipment must be on hand.
 - ▶ Do not lay any metallic objects on battery.
 - ▶ It is essential to follow the safety regulations of the battery and charger station manufacturers.
-

E Operation

1 Safety Regulations for the Operation of the Forklift Truck

Driver authorisation

The truck may only be used by suitably trained personnel, who have demonstrated to the proprietor or his representative that they can drive and handle loads and have been authorised to operate the truck by the proprietor or his representative.

Driver's rights, obligations and responsibilities

The driver must be informed of his duties and responsibilities and be instructed in the operation of the truck and shall be familiar with the operating instructions. The driver shall be afforded all due rights. Safety shoes must be worn for pedestrian operated trucks.

Unauthorised use of truck

The driver is responsible for the truck during the time it is in use. The driver must prevent unauthorised persons from driving or operating the truck. Do not carry passengers or lift other people.

Damage and faults

The supervisor must be immediately informed of any damage or faults to the truck or attachment. Trucks which are unsafe for operation (e.g. wheel or brake problems) must not be used until they have been rectified.

Repairs

The driver must not carry out any repairs or alterations to the truck without the necessary training and authorisation to do so. The driver must never disable or adjust safety mechanisms or switches.

Hazardous area



Risk of accidents / injury in the hazardous area of the truck

The hazardous area is defined as the area in which a person is at risk due to truck movement, lifting operations, the load handler (e.g. forks or attachments) or the load itself. This also includes areas which can be reached by falling loads or lowering operating equipment.

- ▶ Instruct unauthorised people to leave the hazardous area.
- ▶ Give a warning signal with plenty of time for people to leave.
- ▶ If unauthorised personnel are still within the hazardous area stop the truck immediately.

Safety devices and warning labels

Safety devices, warning signs ((see "Identification points and data plates" on page 20)) and warning instructions in the present operating instructions must be strictly observed.

4.2 Emergency Disconnect, Travel, Steering, Braking

4.2.1 Emergency Disconnect


Applying the Emergency Disconnect

Procedure

CAUTION!

Accident risk

The operation of the Emergency Disconnect switch must not be affected by any objects placed in its way.

-  Do not use the Emergency Disconnect (6) as a service brake.
- Press the Emergency Disconnect (6).

All electrical functions are deactivated. The truck brakes to a halt.

Release the Emergency Disconnect


Procedure

- Pull the Emergency Disconnect (6) to unlock it.

All electrical functions are enabled and the truck is operational again (assuming the truck was not operational before the Emergency Disconnect was pressed).

For CanCode and ISM the truck remains switched off.

4.2.2 Automatic braking

-  When the tiller is released it automatically sets itself to the upper brake zone (B) and automatic braking ensues.

WARNING!

- If the tiller moves slowly or not at all to the upper brake zone, the truck must be taken out of service until the cause of this fault is be rectified. Replace the gas pressure spring if necessary.
-

7 Optional equipment

7.1 Emergency operation with service key GF60

WARNING!

The truck can move accidentally when the brake is released

- ▶ The GF60 service key must not remain on the truck during normal operation.
- ▶ The service key should only be used by an authorised person (e.g. warehouse manager).
- ▶ Extreme caution is required on a ramp or incline as the truck could roll away when the brake is released.
- ▶ When the key switch is set to position 2 (brake released), the truck cannot brake through inversion braking or the tiller switch.

Operating the truck without its own drive system.


Requirements

- Truck prevented from rolling away.
- Charged battery in truck.

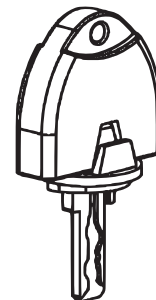
Tools and Material Required

- GF60 service key with lock bar

Procedure

- Insert the GF60 service key in the key switch.
-  The service key GF60 with a lock bar can only be inserted and turned on one side. If inserted in the wrong direction the key will not turn.
- Turn service key to position 1.
 - Move the lock bar on the head of the key.
 - Turn service key to position 2.

GF 60



CAUTION!

The brake is now released

- ▶ The truck can only brake by turning the service key to position 1 or pressing the Emergency Disconnect.

The truck can be operated without its own drive system.

Battery parameters

No.	Function	Setting range	Standard setting	Comments
1377	Battery type (normal / high performance / dry)	0 - 2	1	0 = Normal (wet) 1 = High performance (wet) 2 = Dry (maintenance-free)
1389	Discharge monitor function	0 / 1	1	0 = Not active 1 = Active

4.2 Customer Service

4.2.1 Standard equipment

Brakes		W	A	B	C
1	Test brakes.			●	
2	Check magnetic brake air gap.			●	

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	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 wheel suspension and attachment.			●	
3	Check wheels for wear and damage.			●	
4	Checking bedding and attachment of the drive system.			●	
5	Note: Replace transmission oil after 10000 service hours.				

Chassis and Superstructure		W	A	B	C
1	Check doors and/or covers.			●	
2	Check labels are legible and complete.			●	
3	Check chassis and screw connections for damage.			●	

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