

# ERE 120

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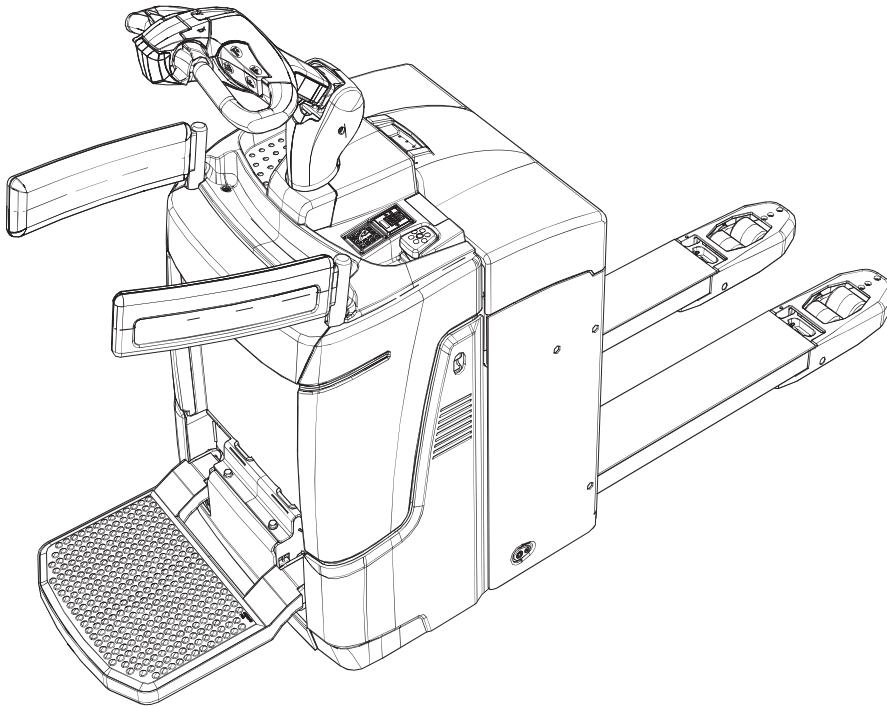
Operating instructions



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ERE 120  
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# A Correct Use and Application

## 1 General

The truck must be used, operated and serviced in accordance with the present instructions. All other types of use are beyond its scope of application and may result in damage to personnel, the industrial truck or property.

## 2 Correct application

### **NOTE**

The maximum load and load distance are indicated on the capacity plate and must not be exceeded.

The load must rest on the load handler or be lifted by an attachment approved by the manufacturer.

The load must be fully raised, see "Lifting, transporting and depositing loads" on page 81.

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The following operations are in accordance with regulations and are permitted:

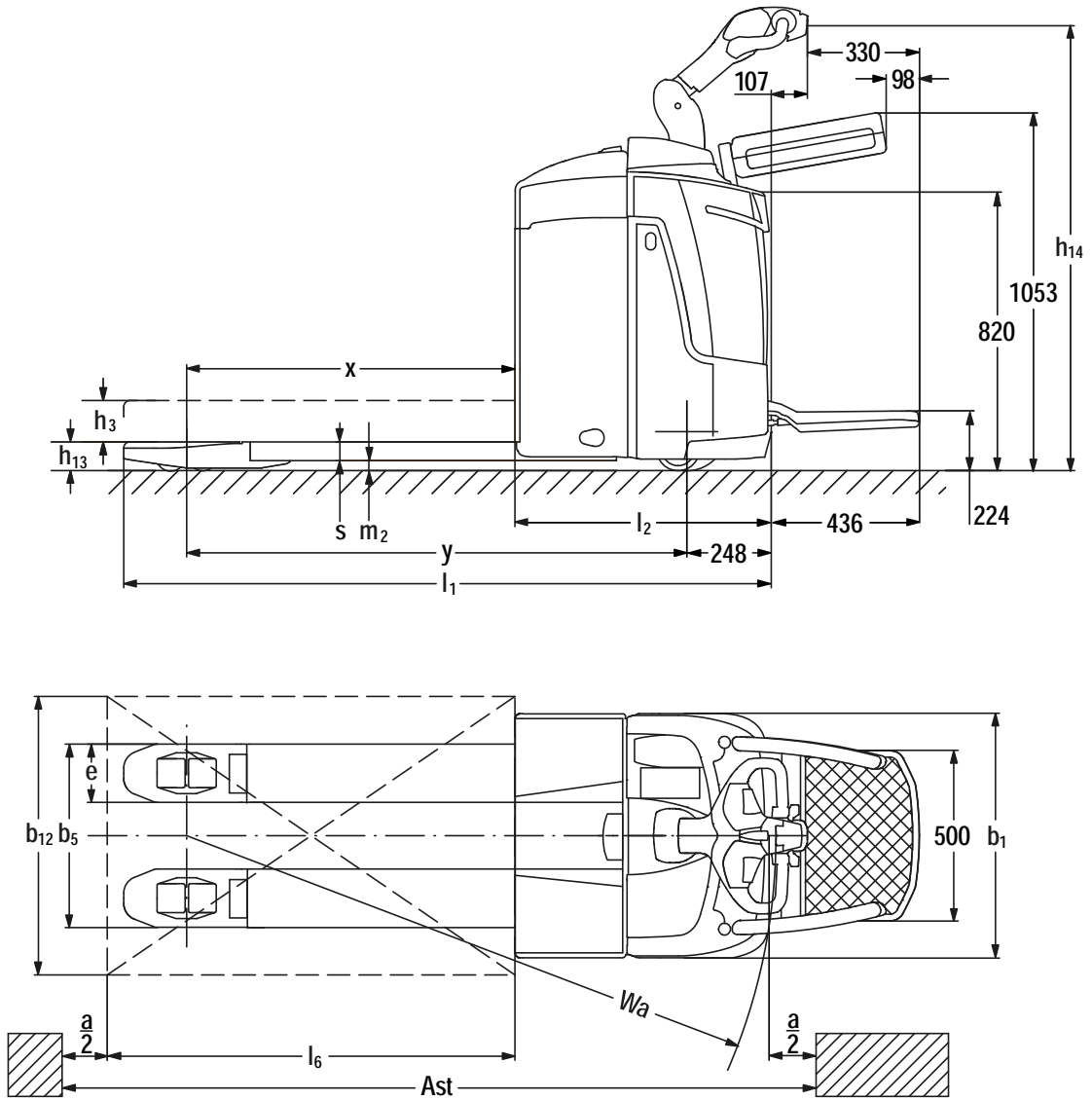
- Lifting and lowering of loads.
- Stacking and retrieving loads.
- Transporting lowered loads.

The following operations are prohibited:

- Travelling with a raised load (>500 mm).
- Carrying and lifting passengers.
- Pushing or pulling loads.

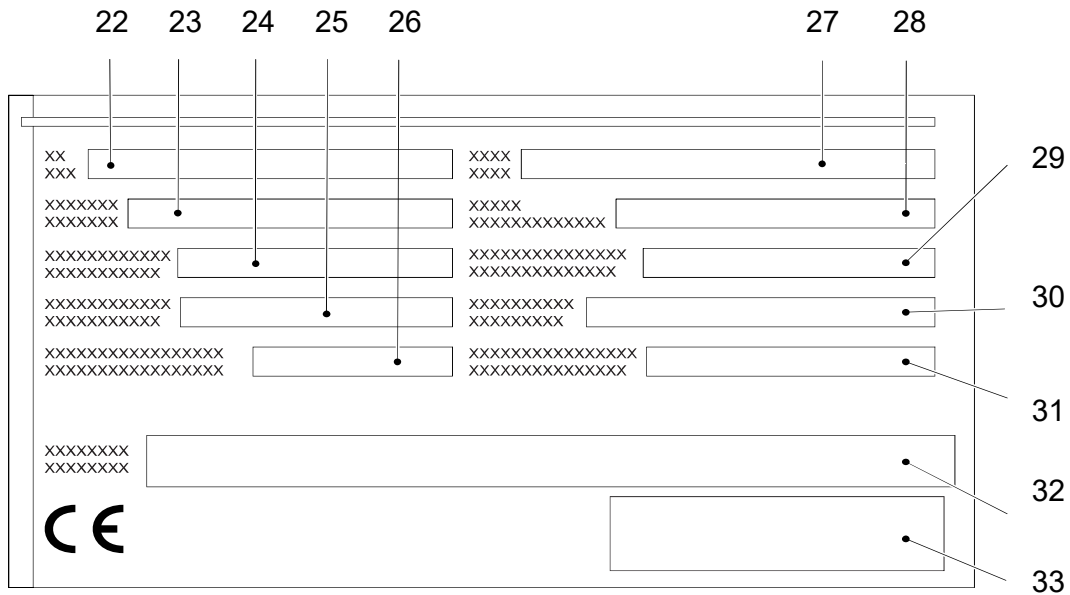
## 4.2 Dimensions

### ERE 120



## 5.2 Data plate

- The illustration shows the standard version for EU member states. The data plate may differ in other countries.



Item	Description	Item	Description
22	Type	28	Year of manufacture
23	Serial number	29	Load centre (mm)
24	Rated capacity (kg)	30	Output
25	Battery voltage (V)	31	Min./max. battery weight (kg)
26	Net weight w.o. battery (kg)	32	Manufacturer
27	Option	33	Manufacturer's logo

- For queries regarding the truck or ordering spare parts always quote the truck serial number (23).

## 2 Battery types

Depending on the model, the truck will be supplied with different battery types. The following table shows which combinations are included as standard:

The battery weights can be taken from the battery data plate. Batteries with non insulated terminals must be covered with a non slip insulating mat.

### ERE 120 Battery tray M

Battery type	Capacity (Ah)	Min. weight (kg)	Max. dimensions (mm)
24 volt battery	2PzV 200	204	624X212X628
24 volt battery	2PzW 230	204	624X212X628
24 volt battery	2PzS 250	204	624X212X628
24 volt battery	2PzS 250 Lib.Silver	204	624X212X628
24 volt battery	2PzM 250	204	624X212X628
24 volt battery	2PzV 220 Hawk	204	624X212X628
24 volt battery	XFC 158	204	624X212X628

### ERE 120 Battery tray L

Battery type	Capacity (Ah)	Min. weight (kg)	Max. dimensions (mm)
24 volt battery	3PzV 300	273	624X284X628
24 volt battery	3PzW 330	273	624X284X628
24 volt battery	3PzS 375	273	624X284X628
24 volt battery	3PzS 345 Lib.Silver	273	624X284X628
24 volt battery	3PzS 375 Lib.Silver	273	624X284X628
24 volt battery	3PzM 375	273	624X284X628
24 volt battery	3PzV 330 Hawk	273	624X284X628
24 volt battery	XFC 316	273	624X284X628

## 5 Battery removal and installation

### **WARNING!**

#### **Accident risk during battery removal and installation**

Due to the battery weight and acid there is a risk of trapping or scalding when the battery is removed and installed.

- ▶ Note the "Safety regulations for handling acid batteries" section in this chapter.
  - ▶ Wear safety shoes when removing and installing the battery.
  - ▶ Use only batteries with insulated cells and terminal connectors.
  - ▶ Park the truck on a level surface to prevent the battery from sliding out.
  - ▶ Make sure the crane slings have sufficient capacity to replace the battery.
  - ▶ Use only approved battery replacement devices (battery roller stand, replacement trolley etc.).
  - ▶ Make sure the battery is securely located in the truck's battery compartment.
- 

### **CAUTION!**

#### **Trapping hazard**

There is a risk of trapping when you close the battery cover.

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

## 3 Starting up the truck

### 3.1 Checks and Operations to Be Performed Before Starting Daily Work

 **WARNING!**

**Damage and other truck or attachment (optional equipment) defects can result in accidents.**

If damage or other truck or attachment (optional equipment) defects are discovered during the following checks, the truck must be taken out of service until it has been repaired.

- ▶ Report any defects immediately to your supervisor.
- ▶ Mark defective truck and take out of service.
- ▶ Do not return the industrial truck to service until you have identified and rectified the fault.

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#### ***Inspection before daily operation***

##### *Procedure*

- Check the whole of the outside of the truck for signs of damage and leaks. Damaged hoses must be replaced immediately.
- Check the battery attachment and wire connections for damage and make sure they are secure.
- Check the battery connectors are secure.
- Check the load handler for visible signs of damage such as cracks, bent or severely worn forks.
- Check the drive wheel and load wheels for damage.
- Check that the markings and labels are present, clean and legible, see "Identification Points and Data Plates" on page 29.
- Check the protective mesh (○) and the attachment are secure and damage-free.
- Make sure the drive panels and covers are secure and check for damage.
- With the load handler lowered, check the mast chains are tensioned and secured correctly.
- Check the tiller (damper) is restored to its normal position.
- Check the controls are automatically restored to zero after being applied.

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## 4.4 Automatic braking

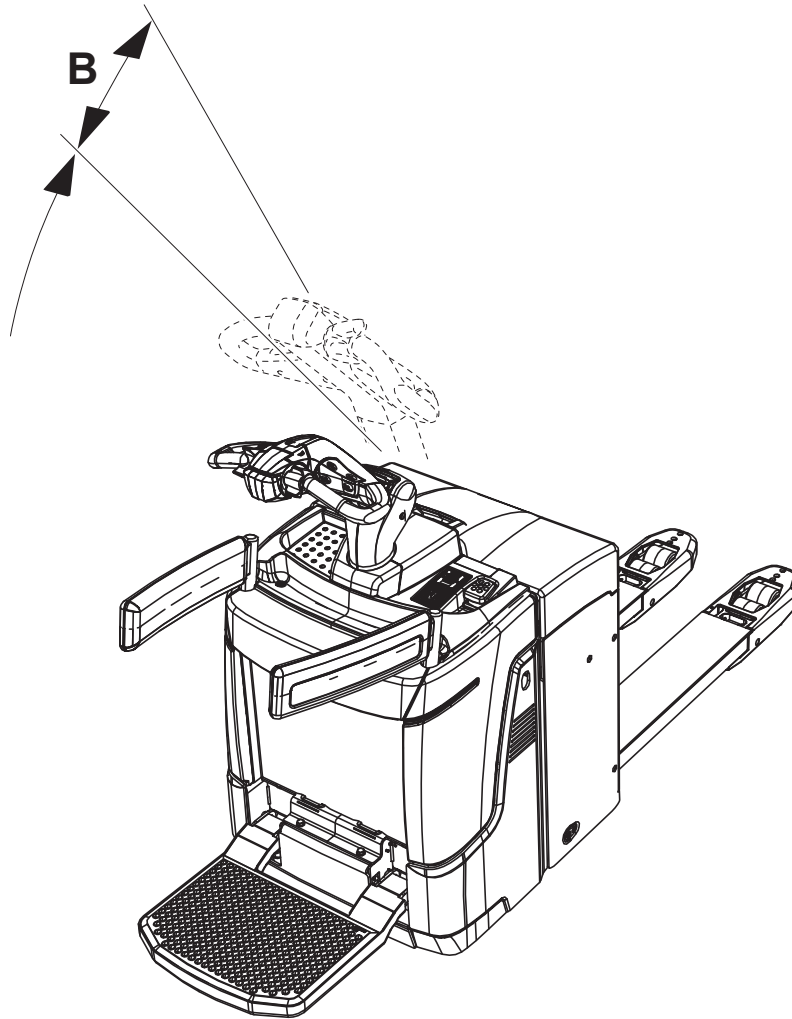
- When the tiller is released, it returns automatically to the upper brake zone (B) and the brakes are applied automatically.

### **WARNING!**

#### **Risk of collision due to a defective tiller**

Operating the truck with a defective tiller can lead to collisions with persons or objects.

- ▶ If the tiller returns to the brake position slowly or not at all, the truck must be taken out of service until the cause of this fault is rectified.
- ▶ Contact the manufacturer's customer service department.



## 4.9 Lifting, transporting and depositing loads

### **WARNING!**

#### **Unsecured and incorrectly positioned loads can cause accidents.**

Before lifting a load unit, the driver must make sure that it has been correctly palletised and does not exceed the truck's capacity.

- ▶ Instruct other people to move out of the hazardous area of the truck. Stop working with the truck if people do not leave the hazardous area.
  - ▶ Only carry loads that have been correctly secured and positioned. Use suitable precautions to prevent parts of the load from tipping over or falling off the truck.
  - ▶ Damaged loads must not be transported.
  - ▶ Never exceed the maximum loads specified on the load diagram.
  - ▶ Never stand underneath a raised load handler.
  - ▶ Do not stand on the load handler.
  - ▶ Do not lift other people on the load handler.
  - ▶ Insert the load handler as far as possible underneath the load.
- 

### **CAUTION!**

- ▶ Do not lift long loads at an angle.
- 

### **NOTE**

Adapt a slower speed when stacking and retrieving.

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## 6 Operating the truck without its own drive system



With the right optional equipment (○) it is possible to switch the truck to emergency operation via the GF60 service key: The brakes are released electrically and the truck can move without its own drive system, see "Emergency operation with service key GF60" on page 93.

### 6.1 Release and activate the drive wheel brake



#### **WARNING!**

##### **Accidental truck movement**

When the brakes are de-activated the truck must be parked on a level surface, since the brakes are no longer effective.

- ▶ Do not release the brake on slopes or inclines.
- ▶ Do not park the truck with the brake released.
- ▶ Apply the brake again when you reach your destination.



#### **CAUTION!**

##### **Open covers can cause injury and accidents**

- ▶ The covers (side panels, drive compartment cover etc.) must be closed during operation.

##### ***Releasing the brake***

###### *Tools and Material Required*

- Two M5X16 screws
- Spanner wrench

###### *Procedure*

- Turn of the key switch, CanCode (○).
- Pull the Emergency Disconnect switch.
- Prevent the truck from rolling away.
- Lift up the front cover (70) and put it to one side, see "Front cover disassembly" on page 137.
- Insert two M5X16 screws as far as the stop and lift up the anchor plate (57).

*The brake is now released and the truck can be moved.*

##### ***Applying the brake***

###### *Procedure*

- Unscrew the two M5X16 screws again.
- Refit the front panel.

*Braking is now restored again.*

## Error displays adding a user code

For the following events the LED (62) flashes red:

<b>Cause</b>	<b>Remedy</b>
– The user code entered is not the same length as the master code	– Switch off the truck, see "Switching off the truck with the keypad (CanCode)" on page 97. – Repeat the entry, making sure that the master code is the same length as the user code.
– New user code is already occupied by a master code	– Switch off the truck, see "Switching off the truck with the keypad (CanCode)" on page 97. – Choose a different user code, see "Add operator code" on page 100.
– The newly entered user codes do not match	– Switch off the truck, see "Switching off the truck with the keypad (CanCode)" on page 97. – Add the user code again, see "Add operator code" on page 100.
– Code log full.	– Switch off the truck, see "Switching off the truck with the keypad (CanCode)" on page 97. – Delete individual user codes, see "Delete individual user codes" on page 104. – Delete all user codes, see "Delete all user codes," on page 106.

## Specifying a configuration code:

	Setting	Description
1st digit	0	– Travel program 1 is blocked for the user code selected
	1	– Travel program 1 is enabled for the user code selected
2nd digit	0	– Travel program 2 is blocked for the user code selected
	1	– Travel program 2 is enabled for the user code selected
3rd digit	0	– Travel program 3 is blocked for the user code selected
	1	– Travel program 3 is enabled for the user code selected
4th digit	0	– When the truck has been switched on with the selected user code, no travel program is activated
	1	– When the truck has been switched on with the selected user code, travel program 1 is activated
	2	– When the truck has been switched on with the selected user code, travel program 2 is activated
	3	– When the truck has been switched on with the selected user code, travel program 3 is activated



The default setting for the travel program configuration code is:  
1-1-1-2.

**Meaning:**

Travel programs 1, 2 and 3 are enabled.

When the truck has been switched on with the selected user code, travel program 2 is activated

## 7.5 Setting the Battery Parameters with CanCode

### **WARNING!**

#### **Altering parameters can cause accidents**

- ▶ Altering the settings can cause accidents.
- ▶ This requires greater attention on the part of the operator

The following example shows the parameter setting for the battery type (parameter 1377) to "dry - maintenance-free".

#### *Requirements*

- CanCode and CanDis are available.

#### *Procedure*

- Press the O key (63).
- Enter the master code.
- Enter the four-digit parameter number "1377" and confirm with the Set key.
- Enter sub index "2" and confirm with the Set key.


The parameter with subindex are displayed alternately with the current reading. E.g. (1377-2<->0000-1--corresponds to battery type „high-performance (wet)“.

- Enter parameter "2" according to the parameter list and confirm with the Set key. The LED of the O key switches briefly to continuous light and starts flashing again after approx. 2 seconds.

If the entry is incorrect, the LED of the O key turns red. Enter the parameter number again to repeat the setting.

The parameter and subindex are displayed alternately with the current reading (1377-2<->0000-2).

*The "dry maintenance-free" battery type is set.*

 *Travel is disabled while the parameters are being entered.*

#### **Storing the parameter**

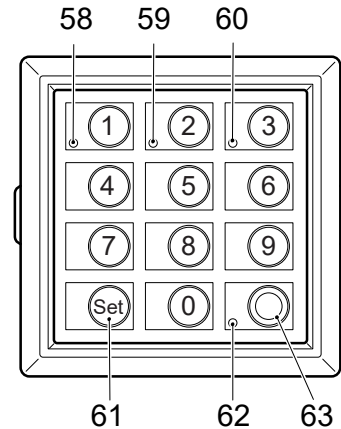
#### *Requirements*

- The parameter is now entered.

#### *Procedure*

- Run "SaveParameters" by pressing 1-2-3-Set.
- Press the O key.

*The parameter is now saved.*



## 2.5 Lift Chains

### **WARNING!**

#### **Non-lubricated and incorrectly cleaned lift chains can cause accidents**

Lift chains are safety-critical parts. They must not contain any serious contamination. Lift chains and pivot pins must always be clean and well lubricated.

- ▶ Lift chains should only be cleaned with paraffin derivatives e.g. petroleum or diesel fuels.
  - ▶ Do not clean lift chains with high pressure jets or chemical cleaning agents.
  - ▶ Immediately after cleaning, dry the lift chain with compressed air and apply a chain spray.
  - ▶ Always lubricate a chain when it is discharged.
  - ▶ Lubricate a lift chain with particular care around the pulleys.
-

## 4.4.2 Cleaning the electrical system assemblies

### CAUTION!

#### **Risk of electrical system damage**

Cleaning the assemblies (controllers, sensors, motors etc.) of the electronic system with water can damage the electrical system.

- ▶ Do not clean the electrical system with water.
  - ▶ Clean the electrical system with weak suction or compressed air (use a compressor with a water trap) and not a conductive, anti-static brush.
- 

#### ***Cleaning the electrical system assemblies***

##### *Requirements*

- Prepare the truck for maintenance and repairs (see "Prepare the truck for maintenance and repairs" on page 136).

##### *Tools and Material Required*

- Compressor with water separator
- Non-conductive, antistatic brush

##### *Procedure*

- Expose the electrical system, see "Front cover disassembly" on page 137.
- Clean the electrical system assemblies with weak suction or compressed air (use a compressor with a water trap) and not a conductive, anti-static brush.
- Fit the electrical system panel, see "Front cover disassembly" on page 137.
- Carry out all the tasks in the section "Recommissioning the truck after cleaning or maintenance work" (see "Restoring the truck to service after maintenance and repairs" on page 145).

*The electrical system assemblies are now clean.*

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