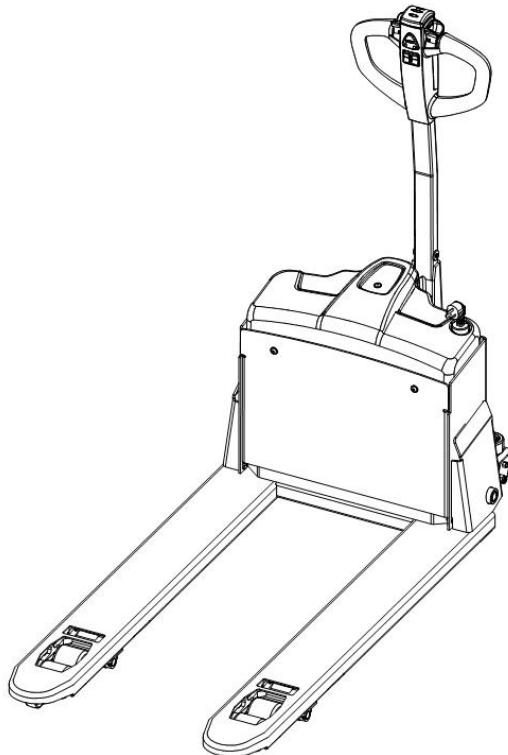


## INSTRUCTION MANUAL Electric Pallet Truck EPT20Q



### WARNING

Do not use the pallet truck before reading and understanding these operating instructions.

### NOTE:

- Please check the designation of your present type at the last page of this document as well as on the ID-plate.
- Keep for future reference.

Version 06/2022

EPT20Q-SMS-001-EN

# **FOREWORD**

Before operating the truck, read this ORIGINAL INSTRUCTION MANUAL carefully and understand the usage of the truck completely. Improper operation could create danger.

This manual describes the usage of different electric pallet trucks. When operating and servicing the truck, make sure, that it applies to your type.

Keep this manual for future reference. If this or the warning/ caution labels are damaged or get lost, please contact your local dealer for replacement.

This truck complies with the requirements according to EN 12895 (Industrial trucks- electromagnetic compatibility), EN 12053 (Safety of industrial trucks- test methods for measuring noise emissions), assumed the truck is used according to the described purpose.

## **ATTENTION:**

- Environmentally hazardous waste, such as batteries, oil and electronics, will have a negative effect on the environment, or health, if handled incorrectly.
- The waste packages should be sorted and put into solid dustbins according to the materials and be collected disposal by local special environment protection bureau. To avoid pollution, it's forbidden to throw away the wastes randomly.
- To avoid leaking during the use of the products, the user should prepare some absorbable materials (scraps of wooden or dry duster cloth) to absorb the leaking oil in time. To avoid second pollution to the environment, the used absorbable materials should be handed in to special departments in terms of local authorities.
- Our products are subject to ongoing developments. Because this manual is only for the purpose of operating /servicing the pallet truck, therefore please have understanding, that there is no guarantee out of particular features out of this manual.



NOTE: In this manual, the left symbol indicates warning and danger, which may lead to death or serious injury if not followed.

## **Copyright**

The copyright remains with the company, mentioned on the CE- certificate at the end of this document or, if sold within the USA, with the company, mentioned on the company sticker.

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# 1. CORRECT APPLICATION

It is only allowed to use this electric pallet truck according to this instruction handbook.

The trucks described in this handbook are self-propelled electric power pallet trucks. The trucks are designed to lift, lower and transport palletized loads.

A wrong usage can cause human injuries or can damage equipment.

The operator/ the operating company has to ensure the correct usage and has to ensure, that this pallet truck is used only by staff, which is trained and authorized to use this truck.

The pallet truck has to be used on substantially firm, smooth, prepared, level and adequate surfaces. The truck is intended to be used for indoor applications with ambient temperatures between +5°C and + 40°C and for various transportation applications without crossing permanent obstacles or potholes. The work on ramps is allowed if ramp is not exceeding the allowed angle. While operating, the load must be placed approximately on the longitudinal center plane of the truck.

Lifting or transporting people is forbidden.

If used on tail lifts or loading ramps, please ensure that these are used correctly according to the operating instructions.

The capacity is marked on capacity sticker as well on the Identification plate. The operator has to consider the warnings and safety instructions.

Operating lighting must be minimum 50 Lux.

## Modification

No modifications or alterations to this pallet truck which may affect, for example, capacity, stability or safety requirements of the truck, shall be made without the prior written approval of the original truck manufacturer, its authorized representative, or a successor thereof. This includes changes affecting, for example braking, steering, visibility and the addition of removable attachments. When the manufacturer or its successor approve a modification or alteration, they shall also make and approve appropriate changes to capacity plate, decals, tags and operation and maintenance handbooks.

By not observing these instructions, the warranty becomes void.

## 2. DESCRIPTION OF THE PALLET TRUCK

### a. Overview of the main components

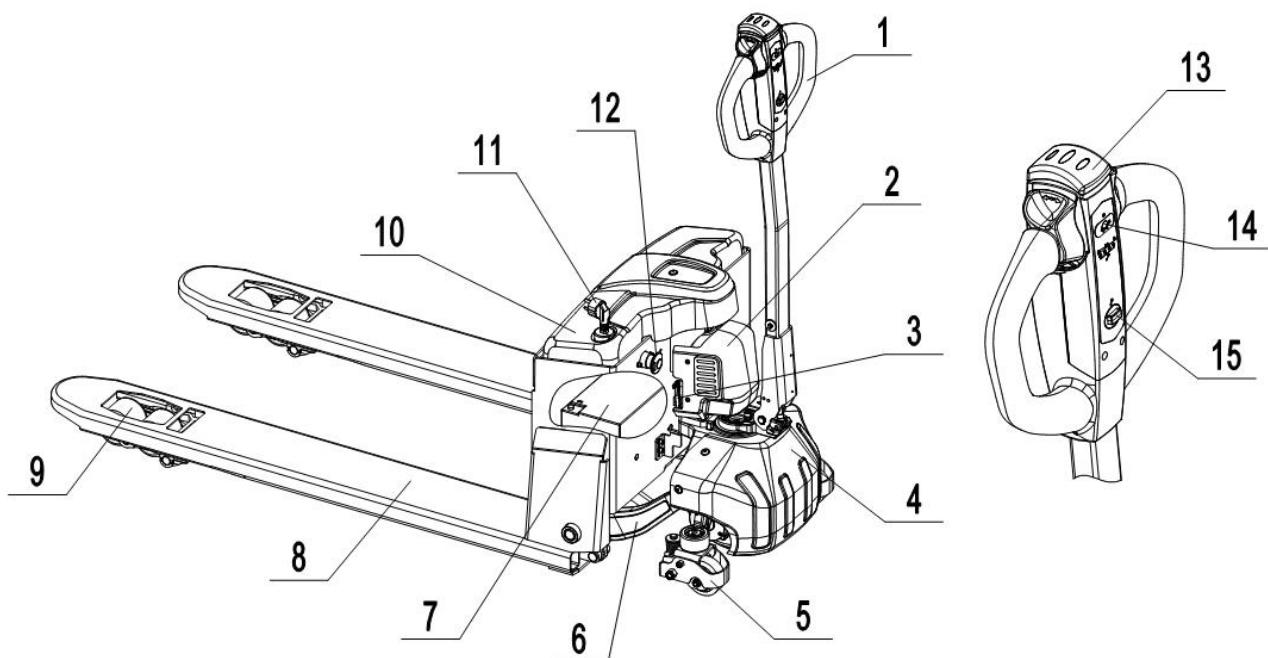


Fig. 1: Overview of the main components

No.	Component	No.	Component
1	● Tiller	10	● Top panel
2	● Controller cover	11	● Charging power cord
3	● Microswitch	12	● Emergency button
4	● Apron	13	● Safety (belly) button
5	○ Side wheel	14	● Crawl speed switch
6	● Rock arm	15	● Key
7	● Battery		
8	● Fork		
9	● Load roller (tandem rollers)		
	○ Load roller (single roller)		
● Standard configuration		○ Optional configuration	

## b. Technical data

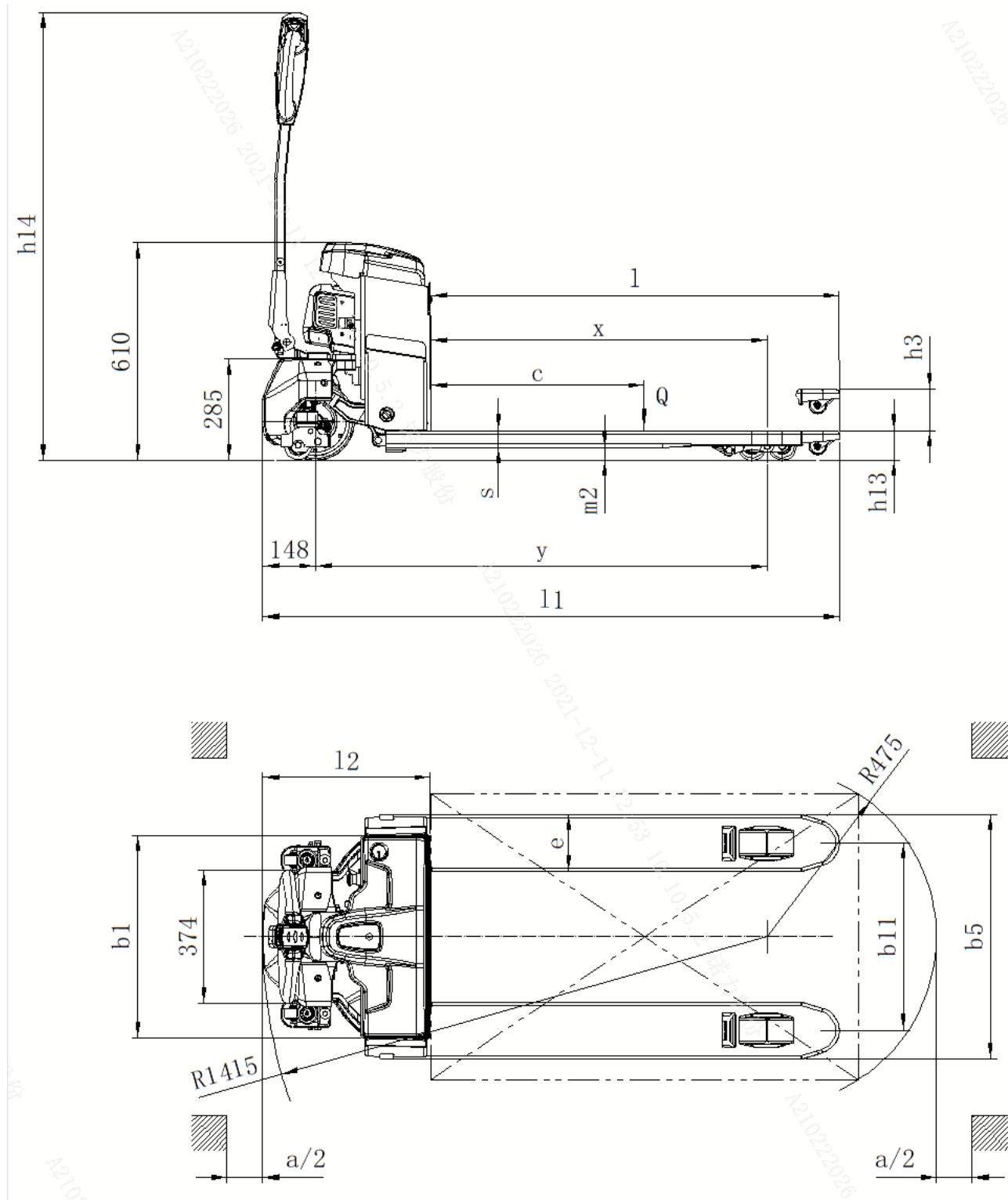


Fig. 2: Technical data

Table 1: Main technical data for standard version

Type sheet for industrial truck acc. to VDI 2198				
Distinguishing mark	1.2	Manufacturer's type designation		EPT20Q
	1.3	Drive		Electric
	1.4	Operator type		Pedestrian
	1.5	Load Capacity / rated load	Q (t)	2000
	1.6	Load centre distance	c (mm)	600
	1.8	Load distance ,centre of drive axle to fork	x (mm)	878 <sup>1)</sup>
	1.9	Wheelbase	y (mm)	1203 <sup>1)</sup>
Weight	2.1	Service weight	kg	140      146
	2.2	Axle loading, laden front/rear	kg	637/1537      641/1539
	2.3	Axle loading, unladen front/rear	kg	133/41      137/43
Tyres, chassis	3.1	Tires		Polyurethane (PU)
	3.2	Tire size,front	Ø x w (mm)	Ø 220x70
	3.3	Tire size,rear	Ø x w (mm)	Ø 80x70(Ø 80x93)
	3.4	Additional wheels(dimensions)	Ø x w (mm)	-/Ø 80x30
	3.5	Wheels,number front/rear(x=driven wheels)		1x/ 2(1x/ 4) or 1x +2/ 2(1x +2/ 4)
	3.6	Tread, front	b <sub>10</sub> (mm)	-/430
	3.7	Tread, rear	b <sub>11</sub> (mm)	380      525
Dimensions	4.4	Lift	h <sub>3</sub> (mm)	115
	4.9	Height of tiller in drive position min./ max.	h <sub>14</sub> (mm)	700 / 1160
	4.15	Height, lowered	h <sub>13</sub> (mm)	80
	4.19	Overall length	l <sub>1</sub> (mm)	1618
	4.20	Length to face of forks	l <sub>2</sub> (mm)	470
	4.21	Overall width	b <sub>1</sub> (mm)	570
	4.22	Fork dimensions	s/e/l (mm)	48 / 160 / 1150
	4.25	Width Across Forks	b <sub>5</sub> (mm)	540      685
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	32
	4.34	Aisle width for pallets800X1200 lengthways (200mm safe distance)	A <sub>st</sub> (mm)	2067 <sup>2)</sup>
Performance	4.35	Turning radius	Wa (mm)	1353 <sup>2)</sup>
	5.1	Travel speed, laden/ unladen	km/h	4.7/4.8
	5.2	Lift speed, laden/ unladen	m/s	25/38
	5.3	Lowering speed, laden/ unladen	m/s	63/41
	5.8	Max. gradeability, laden/ unladen	%	6 / 16
	5.10	Service brake		Electromagnetic

<b>Electric- engine</b>	6.1	Drive motor rating S2 60min	kW	1.0
	6.2	Lift motor rating at S3 10%	kW	0.8
	6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C, no		No
	6.4	Battery voltage, nominal capacity K5	V / Ah	48 / 30
	6.5	Battery weight	kg	8.5x4
	6.6	Energy consumption acc. to VDI cycle	kWh/h	0.122
<b>Others</b>	8.1	Type of drive control		DC
1)、With lowered fork x=943mm,y=1265mm; 2)、With lowered fork Wa=1415mm,Ast=2091mm;				

### c. Description of the safety devices and warning labels (Europe and other, excepting USA)

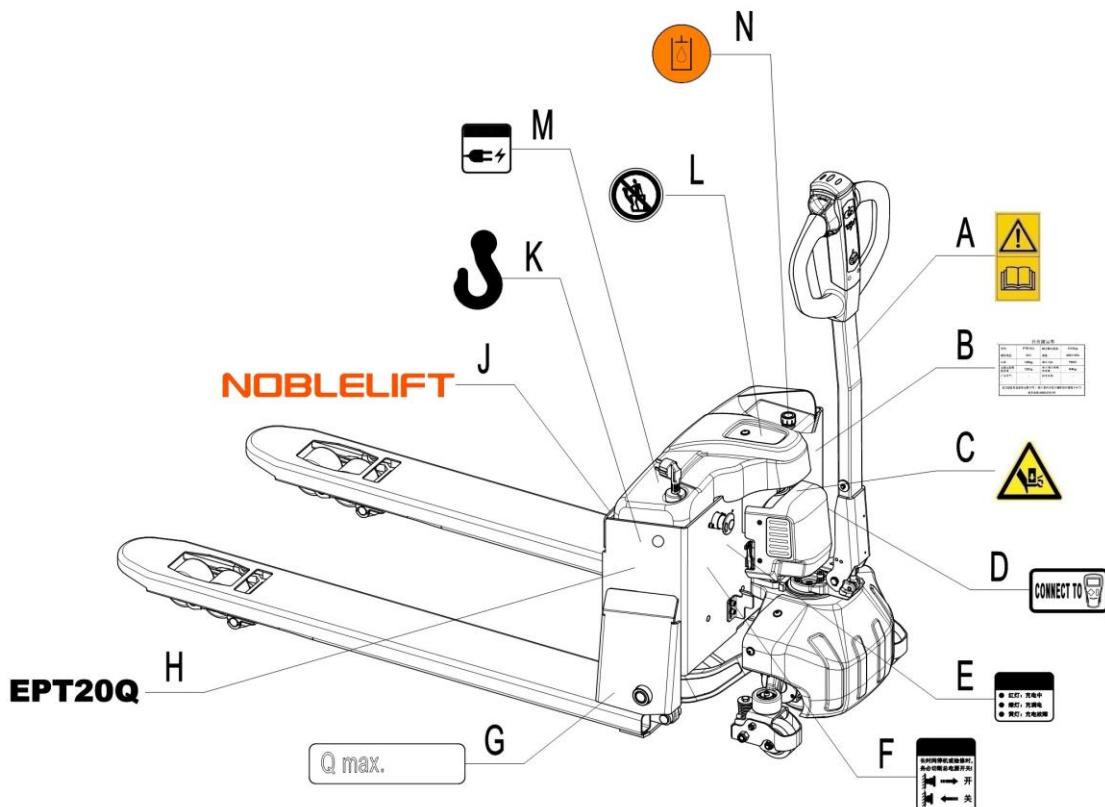


Fig. 3: Safety and warning labels

- A Sticker to observe and follow this instruction
- B Identification plate (ID plate)
- C Warning sticker (hands pinching)
- D Programming port
- E Charging instructions
- F Emergency stop operation instructions
- G Capacity label
- H Model sticker (EPT15Q)
- J LOGO

- K Crane hook label
- L "No passengers" decal
- M Charging indication
- N Oil filling decal

The truck is equipped with an emergency button (12), which stops all lifting-, lowering-, driving- functions and engages the fail-safe electromagnetic brake when it is activated by pressing. Pull out the emergency button to restart the truck.

To prevent unauthorized access, remove the key (15) if the truck is inoperative.

The truck is equipped with a safety (belly) button (13) which switches the driving function away from the operator, if the truck travels towards the operator and the tiller is activated in the tillers operating zone. Follow also the instructions given on the labels and decals. Replace the label and decals in time if they are damaged or missing.

## d. Identification plate

Type	EPT20Q	Option	XXX
Serial No.	XXX	Year of Manuf.	XXX
Rated capacity	XXX	Load center distance	XXX
System voltage	XXX	Nominal power	XXX
Net weight without battery	XXX	Battery mass min/max	XXX
Noblelift Intelligent Equipment Co., Ltd. 528 Changzhou Road, Taihu Sub-district, Changxing, Zhejiang 313100 China			CE

Fig. 4: Identification plate

Check the ID plate taped on the truck for contents and type.

## 3. WARNINGS, RESIDUAL RISK AND SAFETY INSTRUCTIONS



### DO NOT

- Put foot or hand under or into the lifting mechanism.
- Allow other person than the operator to stand in front of or behind the truck when it is moving or lifting/lowering.
- Overload the truck.
- Put foot in front of the wheels, injury could result.
- Lift people. People could fall down and suffer severe injury.
- Push or pull loads.
- Side or end load. Load must be distributed evenly on the forks.
- Use the truck with unstable or unbalanced load.
- Use truck without manufacturer's instructions manual.
- Lifted loads could become unstable at wind forces. In the case of wind forces do not lift the load if

- there is any influence to the stability.
- Watch difference in floor levels when driving. Load could fall down or the truck could get uncontrollable. Keep watching the condition of load. Stop operating the truck if load becomes unstable.
- Brake the truck and activate the emergency button (12) by pulling when the load is sliding on or off the truck. If the truck has any malfunctions, follow instructions in chapter 10.
- Practice maintenance work according to regular inspection. This truck is not designed to be water resistant. Use the truck under dry condition. Prolonged continuous operation might cause damage of the power pack. Stop operation if temperature of hydraulic oil is too high.



- When operating the electric pallet truck, the operator has to wear safety shoes.
- The truck is intended to be used for indoor applications with ambient temperature between +5-°C and + 40°C (41°F ~104°F).
- The operating lighting must be minimum 50 Lux.
- To prevent unintended sudden movements when not operating the truck (i.e. from another person, etc.), remove the key (15).

## 4. COMMISSIONING, TRANSPORTING, DECOMMISSIONING

### a. Commissioning

Table 2: Commissioning data

Model	EPT20Q (540X1150)	EPT20Q (685X1150)
Commissioning weight [kg]	390kg	400kg
Dimensions [mm]	2270x680x875/2pcs	2270x825x875/2pcs

After receiving our new pallet truck or for re-commissioning you have to do the following before (firstly) operating the truck:

- Check if are all parts included and not damaged.
- Make sure the tiller is assembled correctly (electrical socket is connected and fixed with two plastic clamps, circlip of the axle is installed).
- Check that battery is charged (follow chapter 8).
- Do the work according to the daily inspections as well as functional checks.

### b. Hoisting/ transportation

For transporting, remove the load, lower the forks to the lowest position and fix the truck safely with dedicated hoisting equipment according to the following figure.

#### Hoisting



USE DEDICATED CRANE AND HOISTING EQUIPMENT  
DO NOT STAND UNDER THE SWAYING LOAD  
DO NOT WALK INTO THE HAZARDOUS AREA DURING HOISTING

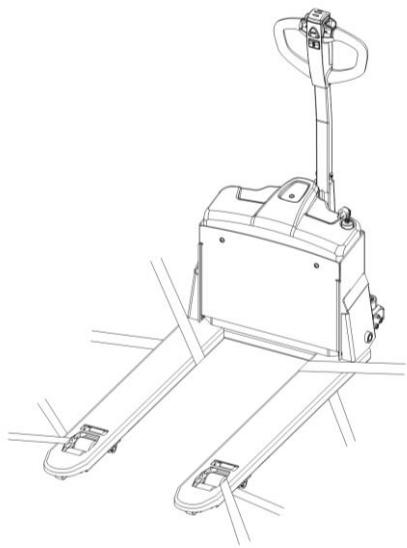


Fig. 5: Fixing points

### Transportation



ALWAYS FASTEN THE TRUCK SECURELY DURING TRANSPORTATION ON A LORRY OR A TRANSPORT TRUCK.

Lower the forks and park the truck securely.

Fasten the truck according to Fig. 5 by fixing dedicated lashing belts to each side of the trucks crane hook holes and fasten the other side at the transporting truck.

### c. Decommissioning

For storage, remove the load, lower the truck to the lowest position, grease all greasing points mentioned in this instruction manual (regular inspection), and eventually protect the truck against corrosion and dust. Remove the batteries and jack the truck safely, so that there will be no flattening after storage. For final decommissioning, hand the truck to a designated recycling company. Oil, batteries and electric components must be recycled due to legal regulations.

## 5. DAILY INSPECTION

This chapter describes pre-shift checks before putting the truck into operation.

Daily inspection is effective to find the malfunction or fault on this truck. Check the truck on the following points before operation.

Remove load from truck and lower the forks.



DO NOT USE THE TRUCK IF ANY MALFUNCTION IS FOUND.

- Check for scratches, deformation or cracks.
- Check if there is any oil leakage from the cylinder.
- Check the smooth movement of the wheels.
- Check the function of driving with tiller in its vertical position.
- Check the function of the emergency brake by activating the emergency switch.
- Check the braking function of the proximity switch of the tiller.

- Check the lifting and lowering functions by operating the buttons.
- Check if all bolts and nuts are tightened firmly.
- Visual check if there are any broken electric wires.

## 6. OPERATING INSTRUCTIONS



BEFORE OPERATING THIS TRUCK, PLEASE FOLLOW THE WARNINGS AND SAFETY INSTRUCTIONS (SEE CHAPTER 3).

Make sure, that the load is palletized and stable and that the daily inspection is carried out.

Start the truck by activating magnetic lock.

Press the horn button (17) to activate the audible warning signal.

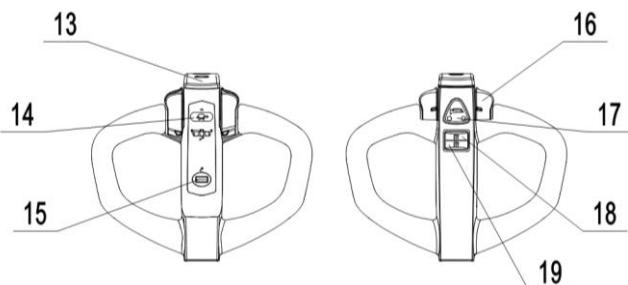


Fig 6 Tiller

### a. Parking



DO NOT PARK THE TRUCK ON INCLINED SURFACES.

The truck is equipped with an electromagnetic fail-safe stopping and parking brake. Always lower the forks fully and remove the magnetic key (15) for parking.

### b. Lifting



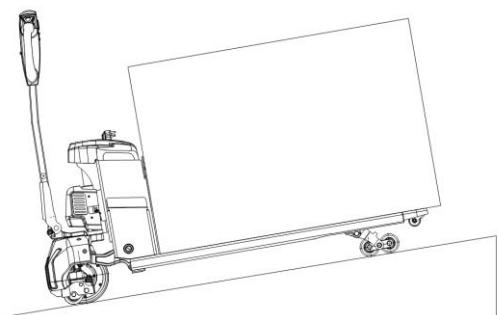
DO NOT OVERLOAD THE TRUCK! MAXIMUM CAPACITY OF THIS TRUCK IS 2000KG WHEN THE LOAD CENTER IS 600MM.

Travel with the lowered forks fully underneath the pallet and press the lifting button (18) until the pallet is lifted at your desired lifting height.

### c. Lowering

Press the lowering button (19) carefully.

Lower the load until the forks are clear of the pallet, then drive the truck carefully out of the load unit.



### d. Travelling



TRAVEL ON INCLINED SURFACE ONLY WITH THE LOAD FACING UPHILL.

DO NOT TRAVEL ON INCLINED SURFACE MORE THAN THE SPECIFIED TECHNICAL DATA.

Fig. 7: Load facing uphill

After starting the truck by the key (15), move the tiller to the operating zone ('F', Fig.8).

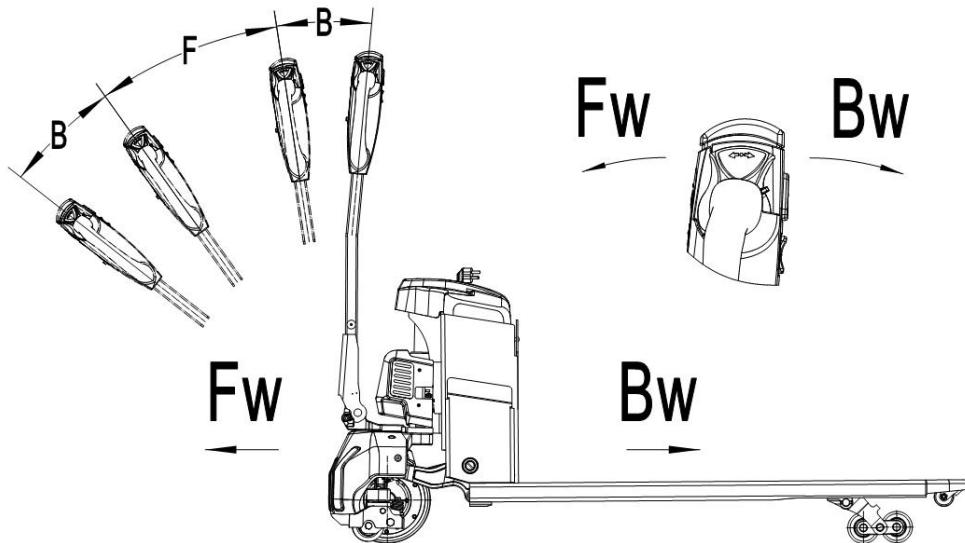


Fig. 8: Operating direction

Turn the accelerator knob to the desired direction forward 'Fw.' or backward 'Bw.' (Fig. 8).

Control travelling speed by operating the accelerator (16) carefully until it reaches your desired speed. If you move the accelerator back to the neutral position, the controller will decelerates the truck until the truck stops. If the truck stops, the parking brake will be engaged.

Drive the truck to the destination carefully. Watch the route conditions and adjust the travelling speed by operating the accelerator.

Press the crawl speed button (14) to enter into turtle speed mode, travel slowly by operating the accelerator. Press the crawl speed button again to switch to regular speed mode.

Press the crawl speed button (14) and hold it for 2 seconds to activate driving function with tiller in vertical position when operating in confined areas.

### e. Steering



Steer the truck by moving the tiller to the left or right side.

### f. Braking



PLEASE CHECK THE BRAKING DISTANCE WITH TRUCK BEFORE OPERATION.  
THE BRAKING PERFORMANCE DEPENDS ON THE TRACK CONDITIONS AND  
THE LOAD CONDITIONS OF THE TRUCK.

The braking function can be activated in several ways:

- By moving the accelerator (16) to the initial '0' position or by releasing the accelerator, the regenerative braking is activated. The truck brakes until it stops.
- By moving the accelerator (16) from one driving direction directly to the opposite direction, the regenerative braking is activated until the truck starts traveling into the opposite direction.
- The brake activates and the truck stops when the tiller is located in the braking zones ('B') or the tiller is released and moves automatically to the upper braking zone ('B').

The safety (belly) button (13) prevents the operator from crush. If this button is activated, the truck decelerates and/or starts traveling into backwards direction ('Bw.') for a short distance and stops then.

Please consider that this button still works if the truck is not traveling with tiller in operating zone.

## **g. Malfunctions**

If there are any malfunctions or the truck is inoperative, please stop using the truck. If possible, park the truck in a safe area and remove the key (15). Inform immediately the manager or call your service. If necessary, move the truck out of the operating area by using dedicated towing/ hoisting equipment.

## **h. Emergency**

In emergencies or in the event of tipping over, keep a safe distance immediately. If possible, push the emergency button (12) and all electrical functions will be stopped.

# **7. BATTERY SAFETY, CHARGING AND REPLACEMENT**



- Only qualified personnel are allowed to service or charge the batteries. The instructions of this manual must be observed.
- Lead-acid batteries and lithium batteries are allowed..
- Recycling of batteries undergoes national regulations. Please follow the regulations.
- By handling batteries, open fire is prohibited!
- In the area of battery charging neither burning materials nor burning liquids are allowed. Smoking is prohibited and the area must be ventilated.
- Park the truck securely before starting charging or installing/changing the batteries.
- Before finishing the maintenance work, make sure, that all cables are connected correctly and that they are no disturbing towards other components of the truck.

Table 3: Battery specification

Model	Battery specification
EPT20Q	48V30Ah, 8.5×4 kg



LEAD-ACID BATTERIES AND LITHIUM BATTERIES ARE ALLOWED.

PLEASE CONSIDER THE MAXIMUM OPERATING TEMPERATURE OF THE BATTERIES AND REFER TO SAFETY INSTRUCTIONS BELOW.

## **a. Safety Instructions**

Failure to follow the below requirements may cause damage to your property, cause injuries or death.

### **Measures to prevent ignition**

- It is forbidden to work at temperatures over 60 °C.
- It is forbidden to place it beside heat sources, such as stoves, fireplaces, etc.
- Direct sunlight must be avoided.
- It is forbidden to place batteries near inflammable and explosive substances.

### **Measures to prevent explosion**

- Do not hit the battery, no impacts are allowed.
- Exclude penetration of objects through battery case or damages to battery case
- DO not throw products into the fire or water.

## **Measures to prevent electric leakage**

- Do not disassemble.
- Do not contact by wet hands.
- Do not expose it to moisture or liquids.
- Do not place batteries in a place of easy access by children or animals.

## **Measures to preventing damage to battery systems**

- It is forbidden to contact liquids or corrosive chemicals.
- Do not expose batteries to high temperature and/or high pressure.
- No trampling, disassembly or smashing.
- Do not attempt charging from discharge terminals and discharging from charging terminals.

## **Installation environment**

In order to ensure the best operating performance, the battery need to be kept under normal working conditions: between 5 and 40 degrees Celsius and normal humidity. Avoid excessive temperature difference on both sides of the battery (more than 5□)

## **Emergency management**

Below are examples of several ways to deal with possible emergencies:

- In case of smoke or ignition: stop to use equipment immediately, take appropriate actions according to working instructions and stay away from the scene.
- In case battery is immersed in water: stop to use equipment immediately, take appropriate actions according to working instructions and stay away from the scene.
- Products produce smell: stop to use equipment immediately, remove the battery and take appropriate actions according to working instructions and stay away from the scene. Avoid contact with any leaking liquids or gases out of the battery (in case of contact clean immediately).

## **Necessary safety equipment**

- Self-contained breathing apparatus and personal protective equipment.
- Sevofluoropropane fire extinguishing system.

□

## **b. Matters requiring attention**

- If the truck is equipped with lithium battery, the charging function of battery may be blocked by Battery Management System if temperature of cells inside the battery case is lower than +5□. Make sure the own temperature of battery is above this value and the temperature of the battery is even.
- Batteries are forbidden to charge at low temperatures, but they can be used in occasional low temperature environment (please refer to normal working conditions allowed for the truck), but their efficient capacity will be lower, which is a normal phenomenon.

Ambient temperature	Remaining discharge capacity of battery pack
25°C	100%
0°C	90%
-20°C	70%
-30°C	40%



**Note:** Although the battery can be discharged at very low temperature, it is easy to generate

condensate during the charging process, which will damage the internal electronic devices of the battery and create unpredictable hidden dangers. Batteries cannot be charged until they are slowly warmed up to minimum allowed temperature for activation of charging function (may take up to 4 hours in normal temperature conditions). Forced warming up (e.g., using of heaters, vents etc.) is forbidden.

The dependence of actual capacity from environmental temperature is shown for reference only and can not be used as a commitment/allowance for low temperature operation, please refer to the Chapter 1 for correct application conditions.

- The battery protection level is IP40, so please do not wash the battery directly with water.
- If the truck is not used for a long time (more than 4 hours), please turn off the Emergency button (12) to avoid damage to the battery when the battery is low.
- When the truck is not in use for a long time, store the fully charged battery and recharge the battery in time to extend its life-time.
- When the travelling is not allowed, that is, when the red battery indicator LED on the tiller is blinking, please charge the battery in time; otherwise, there is a risk of under-voltage; It is recommended that charging must be carried out within 1 days after the red flashing indicator occurs.

## c. Replacement

Park the truck securely and activate the emergency button. Open the battery compartment, disconnect the power cord and take out the battery. The installation is in the reverse order.

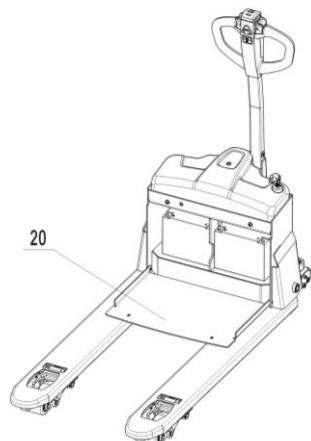


Fig. 9: Battery replacement

## d. Tiller panel

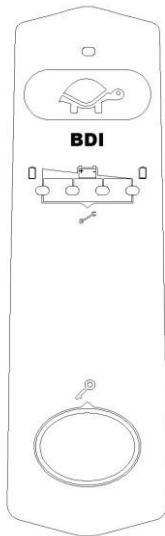


Fig. 10: Tiller panel

## Fault Code

If there is a fault code, firstly all four battery indicator lights are on, then the first (most left) battery indicator flashes and counts, then multiply this number by ten for the first number; when the fourth (most right) battery indicator flashes, counts the times for the second number; plus these two numbers you will get the fault code.

## Battery state of charge (SOC)

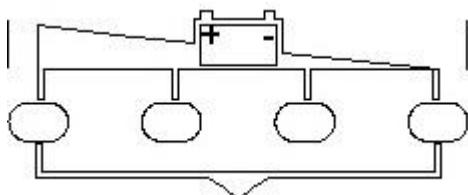


Fig. 11: Battery indicator

The battery's state of charge is indicated by 4 indicator lights. As the battery gradually discharges, the battery indicator lights turn on in sequence. When the green light is on, SOC is 75%-100%. When the blue light is on, SOC is 50%-75%. When the yellow light is on, SOC is 25%-50%, and when the red light is on, SOC is 0%-25%.

## Turtle Symbol



The Turtle Symbol indicator is normally off, when the symbol appears (always on), it shows activation of the crawl speed mode of the truck, in which maximum speed and acceleration are reduced.

## e. Charging



- Before charging ensure that you are using an appropriate charger for charging the installed battery and that all safety measures are taken into consideration.
- Before using the charger, please fully understand the instructions of the charger

instructions.

- Always follow these instructions
- The room, where you are charging must be ventilated.
- The exact charge status can be only checked from the discharge indicator. To control the status, the charging must be interrupted and the truck must be started.
- Do not make attempts to charge battery if it is impacted and its case is damaged.

Park the truck at a dedicated secured area with a dedicated power supply. Lower the forks and remove the load; Keep the green indicator of the truck always on, connect the charging cable (11) to the corresponding power socket. Normal charging starts when the charging indicator is flashing in red.

When the indicator turns green, it means the battery is fully charged, disconnect the charging cable (11) from the power socket, and store the charging cable (11) to the original position.

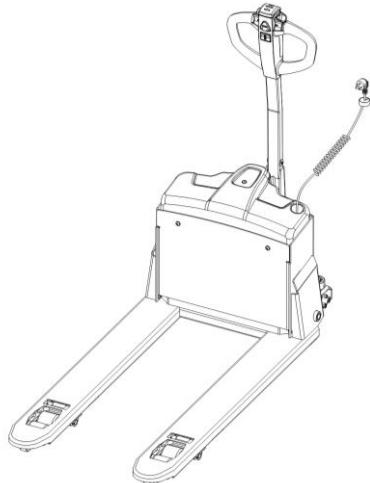


Fig.12: Battery charging

Table 4: LED-Status

LED - Signal	Function
Red	Charging
Green	Fully charged
Yellow	Charging failure

Table 5: Integrated charger

Model	Specification	Input	Output
SW48V5A	48V5A (EN)	100Vac -240Vac	48V 5.0A

## 8. REGULAR MAINTENANCE



- Only qualified and trained personnel are allowed to do maintenance on this truck.
- Before maintaining, remove the load from the forks and lower the forks to the lowest position.
- If you need to lift the truck, follow chapter 4b by using designated lashing or jacking equipment. Before working, put safety devices (for instance designated lift jacks, wedges or wooden blocks) under the truck to protect against accidental lowering, movement or slipping.
- Please pay attention to maintain the tiller arm. The gas pressure spring is pre-loaded by compression, carelessness can cause injury.
- Use approved and from your dealer released original spare parts.
- Please consider that oil leakage of hydraulic fluid can cause failures and accidents.
- It is allowed to adjust the pressure valve only from trained service technicians.

If you need to replace the wheels, please follow the instructions above. The casters must be round and free of abnormal wear.

Check the items emphasized in maintenance checklist.

## a. Maintenance checklist

Table 6: Maintenance checklist

		Interval (month)			
		1	3	6	12
<b>Hydraulic</b>					
1	Check the hydraulic cylinder for damage noise and leakage	•			
2	Check the hydraulic joints for damage and leakage	•			
3	Inspect the hydraulic oil level, refill if necessary	•			
4	Replace the hydraulic oil ( 12 month or 1500 working hours )				•
5	Check and adjust the pressure valve (1500kg+0/+10%)				•
<b>Mechanical system</b>					
6	Inspect the forks for deformation and cracks	•			
7	Check the chassis for deformation and cracks	•			
8	Check if all screws are fixed	•			
9	Check the push rods for deformation and damages	•			
10	Check the gearbox for abnormal sound and noise	•			
11	Inspect the wheels for deformation and damages	•			
12	Inspect and lubricate the steering bearing				•
13	Inspect and lubricate the pivot points if necessary	•			
14	Lubricate the grease nipples	•			
<b>Electrical system</b>					
15	Inspect the electric wiring for damage	•			
16	Check the electric connections and terminals	•			
17	Test the Emergency switch function	•			
18	Check the electric drive motor for noise and damages	•			
19	Test the display	•			
20	Check, if correct fuses are used	•			
21	Test the warning signal	•			
22	Check the contactor(s)	•			
23	Check the frame leakage (insulation test)	•			
24	Check function and mechanical wear of the accelerator	•			
25	Check the electrical system of the drive motor	•			
<b>Braking system</b>					
26	Check brake performance, if necessary, replace the brake disc		•		
<b>Battery</b>					

27	Check the battery voltage		•		
28	Clean the terminals for corrosion and damages		•		
29	Check the battery housing for damages		•		
<b>Charger</b>					
30	Check the main power cable for damages			•	
31	Check the start-up protection during charging			•	
<b>Function</b>					
32	Check the horn function	•			
33	Check the air gap of the electromagnetic brake	•			
34	Test the emergency braking	•			
35	Test the reverse and regenerative braking	•			
36	Test the safety (belly) button function	•			
37	Check the steering function	•			
38	Check the lifting and lowering function	•			
39	Check the tiller arm switch function	•			
<b>General</b>					
40	Check if all decals are legible and complete	•			
41	Inspect the castors, adjust the height or replace if worn out.		•		
42	Carry out a test run	•			

## b. Check and refill hydraulic oil

It is recommended to use hydraulic oil in accordance with the temperature:

Table 7: Type of hydraulic oil

Ambient temperature	-5°C~25°C	>25°C
Type	HVLP 32, DIN 51524	HLP 46, DIN 51524
Viscosity	28.8 - 35.2	41.4 - 47
Amount	0.6 L	

Waste material like oil, used batteries or other must be properly disposed and recycled according to the national regulations and if necessary brought to a recycling company.  
The oil level in the oil tank should be between min and max marks with fully lowered forks.  
If necessary add oil at the filling point.

## c. Checking electrical fuses

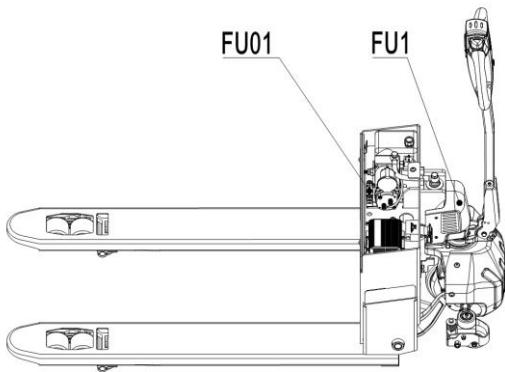


Table 8: Fuse specification

	Specification
FU01	80A
FU1	10A

Fig. 12 Location of fuses

## 9. TROUBLE SHOOTING



- IF TRUCK HAS MALFUNCTIONS, FOLLOW THE INSTRUCTIONS IN CHAPTER 6.

Table 9: Trouble shooting

TROUBLE	CAUSE	REPAIR
Load can't be lifted	Load weight too high	Lift only the max. capacity, mentioned on the ID-plate
	Battery low power	Charge the battery
	Lifting contactor failure	Check and contact with service support for replacement if necessary
	Hydraulic oil level too low	Check and eventually refill hydraulic oil
	Oil leakage	Repair the sealing of the cylinder
Oil leakage from air breathing	Excessive quantity of oil.	Reduce oil quantity.
Truck not starts operating	Battery is charging	Charge the battery completely and then remove the main power plug from the electrical socket.
	Battery not connected	Connect the battery correctly
	Fuse faulty	Check and eventually replace fuses
	Low battery	Charge the battery
	Emergency switch is activated	Turn the emergency switch clockwise
	Tiller in the operating zone	Move the tiller firstly to the braking zone.

If the truck has malfunctions and can't be operated out of the working zone, jack the truck up and go with a load handler under the truck and safe the truck securely. Then move truck out of the aisle.

## 10. WIRING/ CIRCUIT DIAGRAM

### a. Electrical circuit diagram

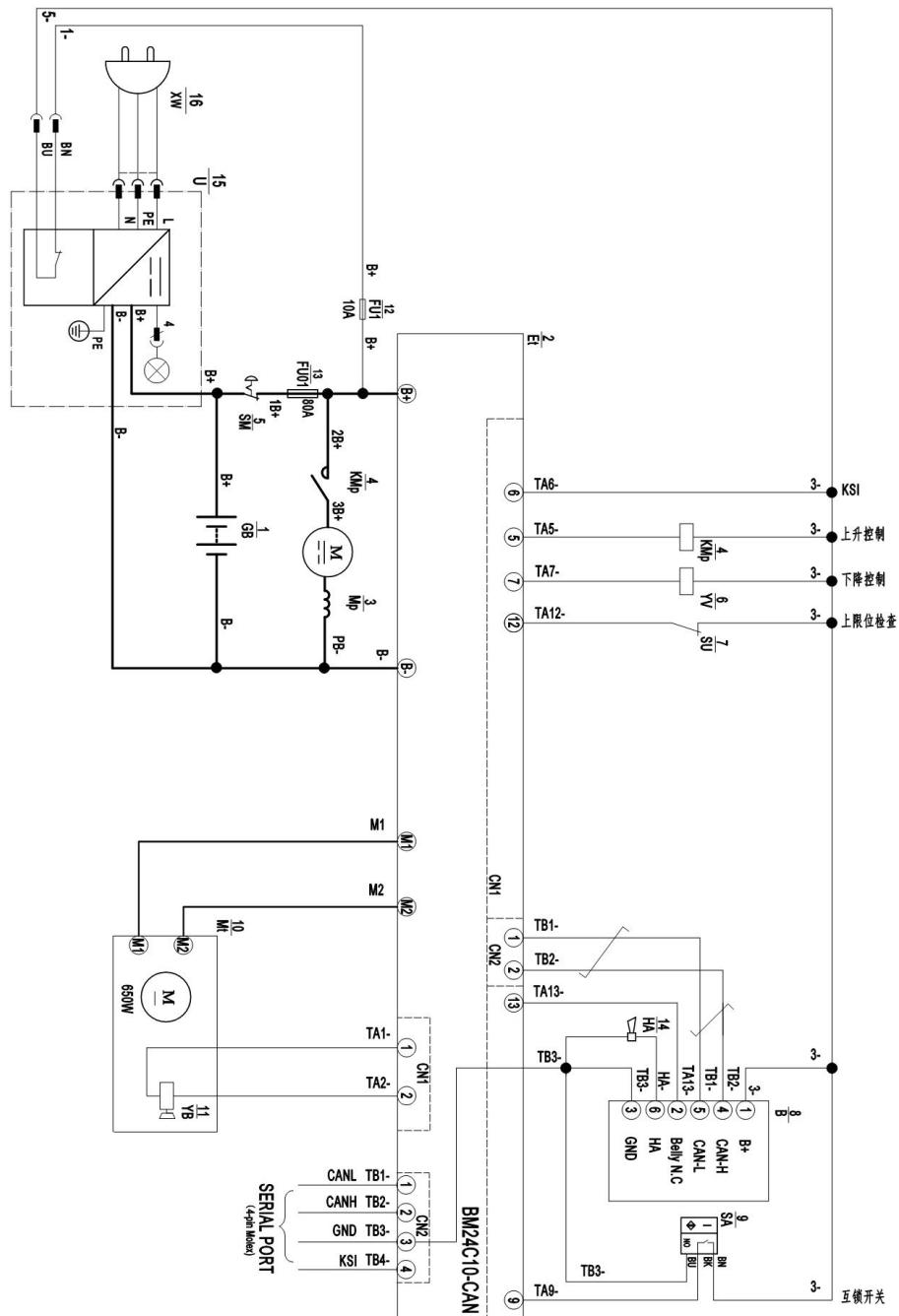


Fig.13: Electric diagram

Table 10: Description of electrical diagram

Code	Item	Code	Item
GB	Battery	SA	Proximity switch
Et	Controller	Mt	Traction motor
Mp	Pump motor	YB	Electromagnetic brake
KMp	Pump contactor	FU1	10A fuse
SM	Emergency switch	FU01	80A fuse
YV	Electromagnetic valve	HA	Buzzer
SU	Micro switch	U	Charger
B	CAN tiller	XW	Power input wire

## b. Hydraulic circuit diagram

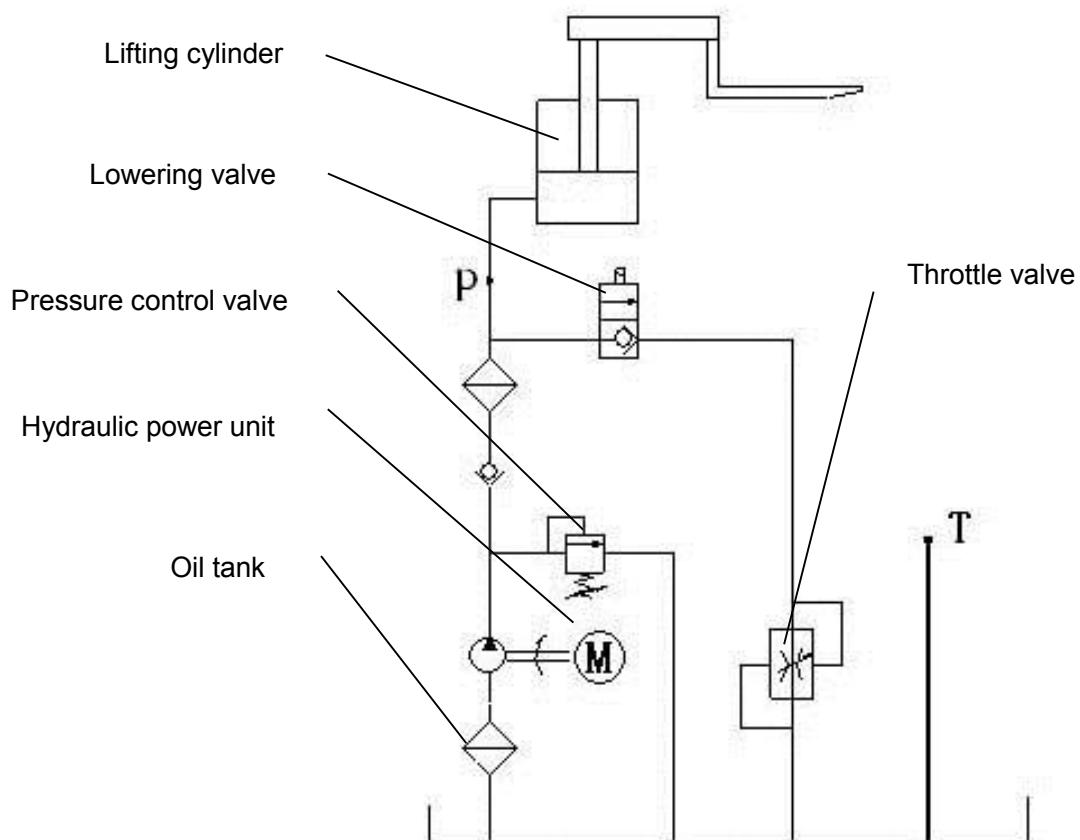


Fig. 14: Hydraulic circuit

# **11. SPECIALIZED STIPULATIONS FOR THE US- AMERICAN MARKET**

The content in this chapter is specialized for the US-American market.

## **a. Foreword/ Compliance**

Operating this truck requires knowledge which can be acquired from this instruction handbook. This handbook must be kept available throughout the entire period of use of the industrial truck.

**IT IS LAW; YOU MUST BE TRAINED AND CERTIFIED TO OPERATE THIS TRUCK!  
READ AND OBEY ALL WARNINGS AND INSTRUCTIONS IN THIS MANUAL AND ON THE TRUCK!**

Only properly trained operators are allowed to operate a powered industrial truck. Your employer must train you and certify, that you are qualified to operate this truck (required by OSHA § 1910.178). The training must satisfy OSHA requirements and as minimum the topics mentioned in this handbook. Depending on the context in this operating manual, the user can refer to several people, including the owner of the truck, anyone who leases or borrows this truck, and the operator as defined in ASME B56.1. Please pay attention to the section in ANSI/ITSDF B56.1 concerning the operator. In this standard, it is defined that the safe operation is the responsibility of the operator (ANSI/ITSDF B56.1, Part II, section 5.1.1). You and others can be seriously injured or even killed if you don't use this truck correctly. Before operating your truck, inspect your truck and ensure that it is in correct working order. This truck was designed and built to current industry and government standards. For more information see following:

- ANSI/ITSDF B56.1
- OSHA §1910.178 (Occupational Safety and Health Act)

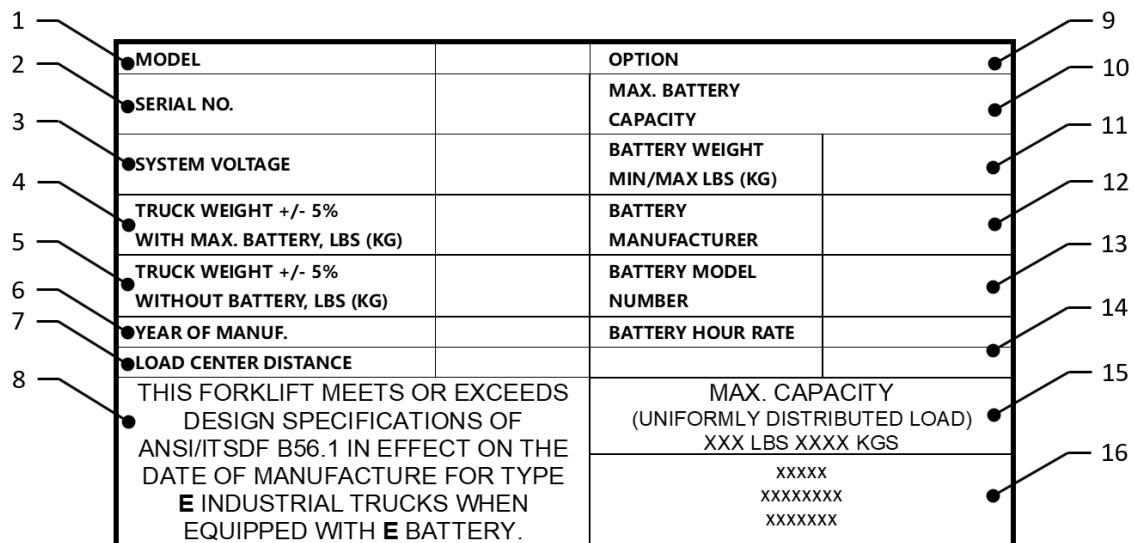
**⚠ DANGER** This sign indicates hazard situations, if not avoided, will result in serious injury or death. The instructions or precautions to this message must be observed to avoid the potential risk of injury or death.

**⚠ WARNING** If not followed, warning indicates hazard situations which may lead to moderate injury. The instructions or precautions to this message must be observed to avoid the potential risk of injury or death.

**⚠ CAUTION** If not followed, caution indicated situations which may lead to minor injury. Instructions or precautions must be observed to avoid minor injury.

## b. Identification plate

1	<b>Truck Model</b>	9	<b>Option</b>
2	<b>Serial Number</b>	10	<b>Maximum Battery Capacity (Ah)</b>
3	<b>Supply Voltage (Volts)</b>	11	<b>Battery Weight Min/Max lbs. (kg)</b>
4	<b>Truck Weight with Max. Battery, lbs (Kg)</b>	12	<b>Battery Manufacturer Information</b>
5	<b>Truck Weight without Battery, lbs. (Kg)</b>	13	<b>Battery Model Number</b>
6	<b>Manufacturing Date (MM/YYYY)</b>	14	<b>Battery Amp Hour Rate</b>
7	<b>Load Center Distance (mm)</b>	15	<b>Maximum Capacity (Uniformly Distributed load)</b>
8	<b>B56.1 Standard Statement</b>	16	<b>Truck Manufacturer Information</b>



### c. Description warning labels (only US- market)

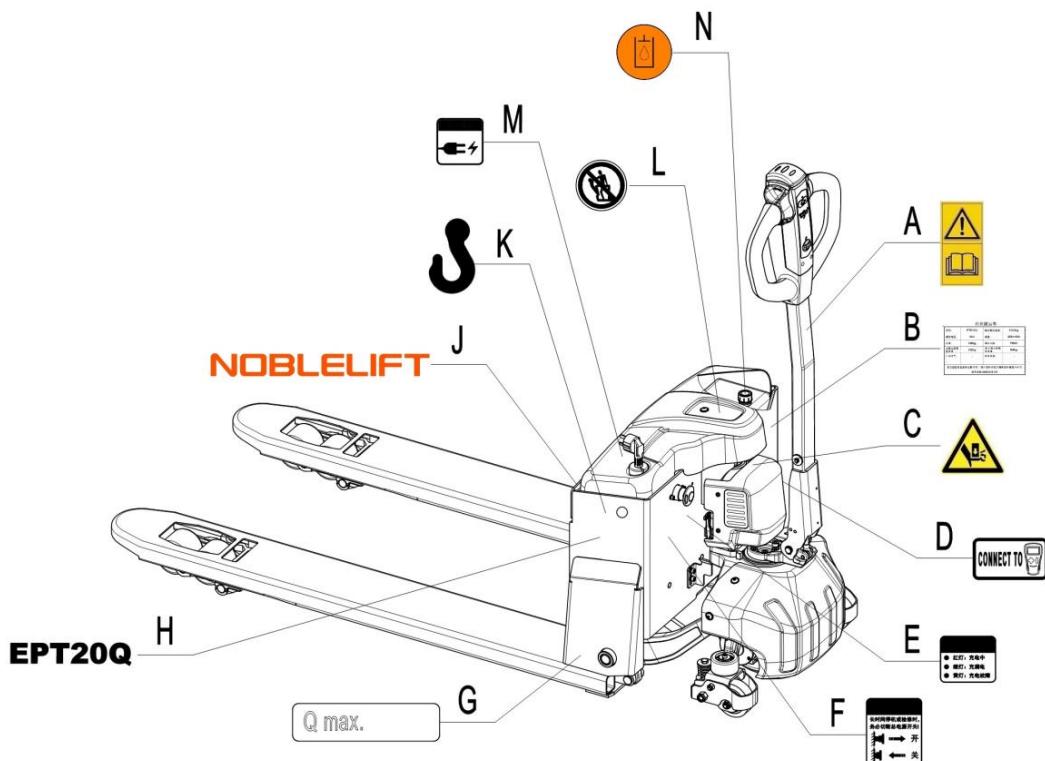


Fig. 15: Warning labels and safety devices (only USA)

- |   |  |   |                        |
|---|--|---|------------------------|
| A | Sticker to observe and follow this instruction | H | Model sticker (EPT15Q) |
| B | Identification plate (ID plate)                | J | LOGO                   |
| C | Warning sticker (hands pinching)               | K | Crane hook label       |
| D | Programming port                               | L | "No passengers" decal  |
| E | Charging instructions                          | M | Charging indication    |
| F | Emergency stop operation instructions          | N | Oil filling decal      |
| G | Capacity label                                 |   |                        |

The truck is equipped with an emergency switch (5) which stops all lifting-, lowering-, driving- functions and engages the fail-safe electromagnetic brake when it is pushed. The function is described in chapter 2c. Follow the instructions given on the decals. Replace the decals if they are damaged or missing.

#### d. Technical data for US market

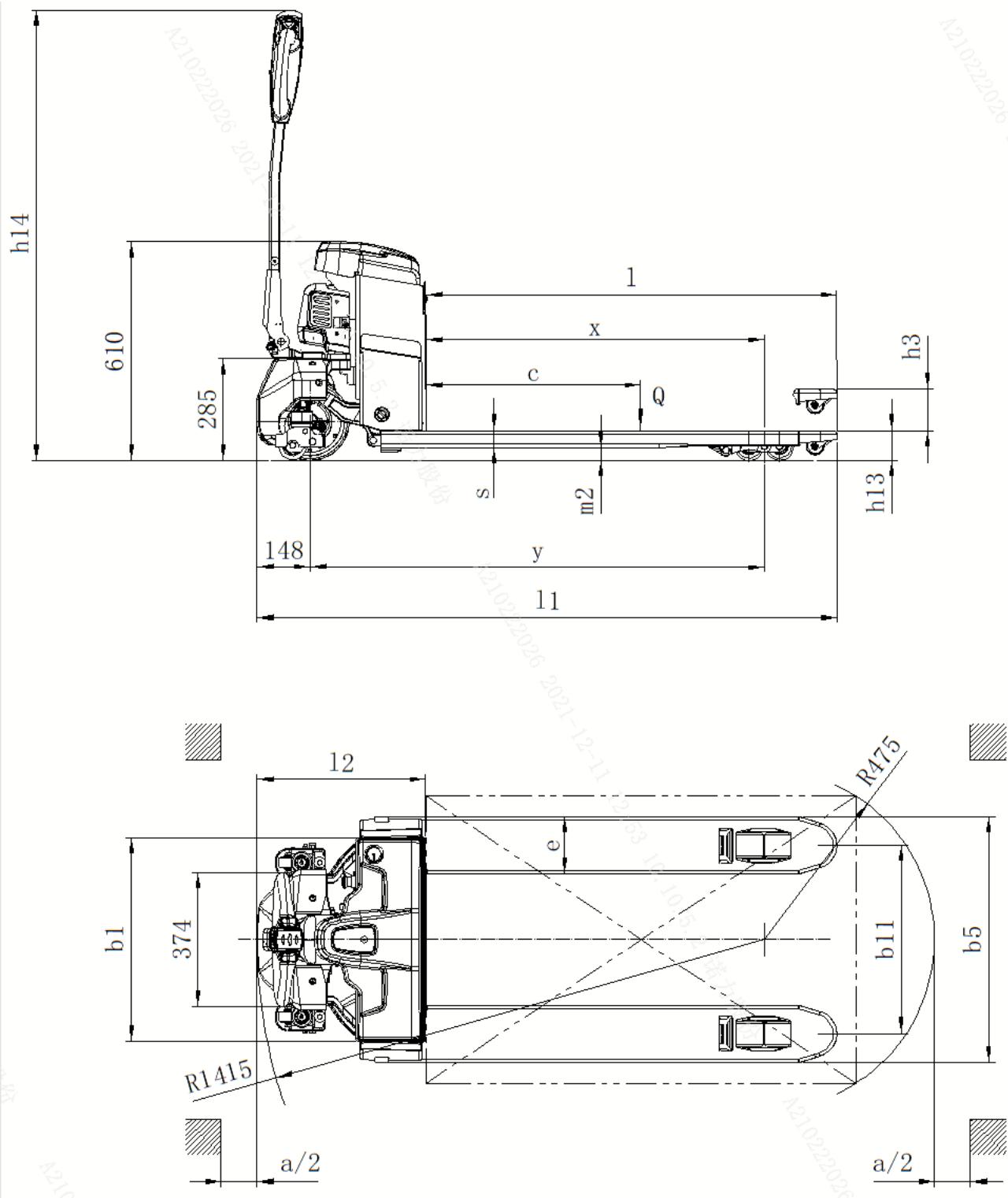


Fig. 18: Technical data (US market)

Table 14: Main technical data for standard version (US market)

Type sheet for industrial truck acc. to VDI 2198				
Distinguishing mark	1.2	Manufacturer's type designation		EPT20Q
	1.3	Drive		Electric
	1.4	Operator type		Pedestrian
	1.5	Load Capacity / rated load	Q (t)	2000
	1.6	Load centre distance	c (mm)	600
	1.8	Load distance ,centre of drive axle to fork	x (mm)	878 <sup>1)</sup>
	1.9	Wheelbase	y (mm)	1203 <sup>1)</sup>
Weight	2.1	Service weight	kg	140      146
	2.2	Axle loading, laden front/rear	kg	637/1537      641/1539
	2.3	Axle loading, unladen front/rear	kg	133/41      137/43
Tyres, chassis	3.1	Tires		Polyurethane (PU)
	3.2	Tire size,front	Ø x w (mm)	□ 220×70
	3.3	Tire size,rear	Ø x w (mm)	□ 80×70(□ 80×93)
	3.4	Additional wheels(dimensions)	Ø x w (mm)	-/□ 80×30
	3.5	Wheels,number front/rear(x=driven wheels)		1x/ 2(1x/ 4) or 1x +2/ 2(1x +2/ 4)
	3.6	Tread, front	b <sub>10</sub> (mm)	-/430
	3.7	Tread, rear	b <sub>11</sub> (mm)	380      525
Dimensions	4.4	Lift	h <sub>3</sub> (mm)	115
	4.9	Height of tiller in drive position min./ max.	h <sub>14</sub> (mm)	700 / 1160
	4.15	Height, lowered	h <sub>13</sub> (mm)	80
	4.19	Overall length	l <sub>1</sub> (mm)	1618
	4.20	Length to face of forks	l <sub>2</sub> (mm)	470
	4.21	Overall width	b <sub>1</sub> (mm)	570
	4.22	Fork dimensions	s/e/l (mm)	48 / 160 / 1150
	4.25	Width Across Forks	b <sub>5</sub> (mm)	540      685
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	32
	4.34	Aisle width for pallets800X1200 lengthways (200mm safe distance)	Ast (mm)	2067 <sup>2)</sup>
Performance	4.35	Turning radius	Wa (mm)	1353 <sup>2)</sup>
	5.1	Travel speed, laden/ unladen	km/h	4.7/4.8
	5.2	Lift speed, laden/ unladen	m/s	25/38
	5.3	Lowering speed, laden/ unladen	m/s	63/41
	5.8	Max. gradeability, laden/ unladen	%	6 / 16
Electric- engine	5.10	Service brake		Electromagnetic
	6.1	Drive motor rating S2 60min	kW	1.0
	6.2	Lift motor rating at S3 10%	kW	0.8
	6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C, no		No
	6.4	Battery voltage, nominal capacity K5	V / Ah	48 / 30
	6.5	Battery weight	kg	8.5×4
Others	6.6	Energy consumption acc. to VDI cycle	kWh/h	0.122
	8.1	Type of drive control		DC

1)、With lowered fork x=943mm,y=1265mm; 2)、With lowered fork Wa=1415mm,Ast=2091mm;

## 12. DECLARATION OF CONFORMITY (valid, if sold within EU)

### [GB] CE Declaration of Conformity

The signatory hereby declares that the specified machine conforms to the EU Directive 2006/42/EC (Machine Directive) and 2014/30/EU (Electro-Magnetic Compatibility, EMC) including their amendments as translated into national legislation of the member countries. The signatory is individually authorized to compile the technical documents.

### [DE] EG-KONFORMITÄTSERKLÄRUNG

Der Unterzeichner bescheinigt hiermit, dass die im Einzelnen bezeichnete Maschine den Europäischen Richtlinien 2006/42/EG (Maschinenrichtlinie) und 2014/30/EU (Elektromagnetische Verträglichkeit - EMV) einschließlich deren Änderungen sowie dem entsprechenden Rechtserlaß zur Umsetzung der Richtlinien in nationales Recht entspricht. Der Unterzeichner ist bevollmächtigt, die technischen Unterlagen zusammenzustellen.

### [ES] DECLARACIÓN DE CONFORMIDAD CE

El signatario certifica por medio de la presente que la máquina especificada cumple con las Normas Europeas 2006/42/CE (Normativa para maquinarias) y 2014/30/EU (Compatibilidad electromagnética), incluyendo sus respectivas modificaciones, así como con el decreto-ley para la adaptación de las normas al derecho nacional. El signatario dispone de una autorización individual que le permite compilar la documentación técnica.

### [FR] DECLARATION DE CONFORMITE CE

Par la présente déclaration, les soussignés certifient que le machines spécifié ci-dessus est conforme à la loi et aux directives européennes 2006/42/CE (directive sur les machines) et 2014/30/EU (compatibilité électromagnétique - CEM), y compris aux modifications qui y sont apportées et à l'arrêté autorisant sa transposition en droit national. Chaque signataire est habilité à établir individuellement la documentation technique.

### [NL] EG-CONFORMITEITSVERKLARING

Ondergetekenden verklaren hierbij dat - volgens de nationale wetgeving van de Lidstaten - de hierboven vermelde opgegeven machina beantwoordt aan de bepalingen qua veiligheid bij machines (EG richtlijn 2006/42/EC) en electro-magnetische compatibiliteit (EG richtlijn 2014/30/EU).

Ondergetekenden zijn ieder individueel gemachtigd het technisch dossier samen te stellen.

### [PT] DECLARAÇÃO DE CONFORMIDADE CE

Pela presente, os signatários certificam que o máquina especificado está conforme às Directivas Europeias 2006/42/CE („Máquinas“) e 2014/30/EU („Inocuidade Electromagnética - IEM“), incluindo as alterações das mesmas e o respetivo decreto-lei para a transposição em lei nacional. Cada um dos signatários está autorizado a proceder à elaboração da documentação técnica.

### [IT] DICHIARAZIONE DI CONFORMITÀ CE

I sottoscritti dichiarano che il veicolo per trasporti internazionale macchina specificato soddisfa le Direttive Europee 2006/42/EC (Direttiva Macchine) e 2014/30/EU (Compatibilità elettromagnetica - EMV) comprese le relative modifiche, come pure il rispettivo decreto legislativo per la conversione delle direttive in diritto nazionale. I sottoscrittori sono solamente autorizzati alla creazione della documentazione tecnica.

### [BG] ЕВРОПЕЙСКА ОБЩНОСТ - ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

Подписаните удостоверяват с настоящето, че подобно описаното машина съответства на европейския норматив 2006/42/EG (норматив за машини) и на 2014/30/EU (електро-магнетична съвместимост), включително с техните промени, както и на съответния указ за прилагане на нормативите в националното право. Подписаните при това са упълномощени поотделно да съставят техническата документация.

### [CZ] EG - PROHLÁŠENÍ OSHODE

Nížepodepsaný tímto potvrzuje, že podrobný popis uvedené stroje odpovídá Evropským směrnicím 2006/42/EC (směrnice pro stroje) a 2014/30/EU (elektromagnetická interference - EMV) včetně jejich pozdějších úprav, jakož i příslušným právním součinům oplatnění příslušné směrnice v rámci národního práva. Každý zpodepsaný člen jednotlivého zplnomocnění vytvořil technický podklad.

### [DK] EF-OVERENSSTEMMELSESERKLÆRING

Undertegnede attesterer hermed, at det specificerede maskine stemmer overens med de Europæiske Direktiver 2006/42/EU (maskindirektiv) og 2014/30/EU (elektromagnetisk kompatibilitet - EMC) samt med den modsvarende lovgivning til implementering af direktiver i den nationale lovgivning. De undertegnede er hver for sig beføjet til at sammenstille de tekniske dokumenter.

### [EST] EL vastavusavaldus

Allkirjutanud töendavad käesolevaga, et üksikasjalisele kirjeldatud täpsustatud masin vastab Euroopa direktiividele 2006/42/EÜ (Direktiiv masinate kohta) ja 2014/30/EU (Elektromagnetiline sobivus - EMS) kaasa arvatud nende muudatused ja nendele vastavatele õigusmäärustele direktiivide muutmiseks sisseriklikkuks õiguseks. Iga allkirjutanu üksikult on volitatud koostama tehnilist dokumentatsiooni.

### [FIN] EU-YHDENMUKAISUUSSELOSTUS

Allekirjoittaneet todistavat täten, että kukaan erikseen mainitut omalla voiman lähteellä varustettu tehdaskone vastaa EU-direktiivien 2006/42/EC (koneenrakennusdirektiivi) ja 2014/30/EU (sähkömagneettinen yhteensopivuus – EMC) määräyksiä sekä niiden muutoksia ja niiden kansalliseen lainsäädäntöön soveltamista koskevaa oikeussääntöä. Jokaisella allekirjoittaneesta on oikeus itsenäisesti laatia asiaankuuluvia teknisiä asiakirjoja.

### [GR] ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΟΚ

Οι υπογράφοντες εβεβαίωνουν διάτηση παρούσης στο παρόν με την οποία κηρύγματα την Κοινωνική Οδηγία 2006/42/EK («Μηχανήματα») και 2014/30/EU (Ηλεκτρομαγνητική Συμβατότητα, ΗΜΣ), καθώς και η προποίηση τους, όπως μεταφράστηκε στην ιστορική νομοθεσία των χωρών μελών. Οι υπογράφοντες είναι εσεκάθετη πρώτη ωστε οι σιδηροδρομικές καταρτισμένες σταθερές γραφαί.

### [HU] EU KONFORMITÁSI NYILATKOZAT

Alulirottak ezennel igazolják, hogy a részletesen leírt a megfelel a 2006/42/EC (Gép-Irányelv) és a 2014/30/EU (Elektromágneses összeférhetőség - EMV) Európai Irányelvezeknek, beleértve azok módosításait, valamint az irányelv nemzeti jogba történő általánosítására vonatkozó mindegyike rendelkezik meghatalmazással arra nézve, hogy összeállíthatja a műszaki dokumentációt.

### [LT] ES atitikimo deklaracija

Žemiu pasiraše asmenys patvirtina, kad atskirai aprašytas nurodyta mašina atitinka Europos Sajungos direktyvas 2006/42/EB (Mašinų direktyva) ir 2014/30/EU (Elektromagnetinis suderinamumas – EMS) įskaitant jų pakeitimus, o taip pat ir atitinkamą teisės aktą dėl direktyvų įgyvendinimo nacionalinėje teisėje. Kiekvienas iš pasirašiusi asmenų turi teisę ruošti techninę dokumentaciją.

### [LV] ES atbilstības deklarācija

Ar zemāk redzamajiem parakstiem tiek apliecināts, ka norādītais mašīna atbilst Eiropas Savienības normatīvam 2006/42/EG (Mašīnu normatīvas) un 2014/30/EU (Elektromagnētiskā atbilstība – EMV), ieskaitot to izmaiņas, kā arī atbilstošos tiesiskos rīkojumus normatīvu pielāgošanai nacionālajai likumdošanai. Parakstu īpašnieki ir atsevišķi pilnvaroti sastādīt tehniskās dokumentācijas.

### [NI] EU-KONFORMITETSERKLÄRING

Undertegnede bekrefter hermed at de enkelte betegnede maskin med kraftdrift tilsvarer de europeiske retningslinjene 2006/42/EC (maskinretningslinje) og 2014/30/EU (elektromagnetisk Fordragslighet - EMV) inklusiv disse endringer og den tilsvarende rettsforordning til omsetning av nasjonal rett. Hver undertegnede er fullmekting til å sette sammen de tekniske dokumentene.

## **[PL] DEKLARACJA ZGODNOŚCI WE**

Niżej podpisani deklarują, że poniżej opisana maszyna spełnia wymagania określone w dyrektywach Europejskich 2006/42/EC (Dyrektywa Maszynowa) i 2014/30/EU (Kompatybilność elektromagnetycznej - EMC) wraz z ich późniejszymi zmianami oraz odpowiednimi rozporządzeniami mającymi na celu przeniesienie tych dyrektyw do prawa krajów członkowskich. Sygnatarusz jest indywidualnie upoważniony do zestawiania dokumentacji technicznej.

## **[RO] DECLARATIE DE CONFORMITATE CE**

Subsemnația de verificare a specificației mașinării individuală corespunzătoare Directivei Europene 2006/42/CE (Directiva privind mașinile) și 2014/30/EU (Compatibilitatea electromagnetică - CEM) inclusiv modificărilor precum și actului legislativ care spune că se aplică directivelor în drept național. Subsemnații sunt fiecare în parte împotriva cărora sunt sănătatea și siguranța publică. Subsemnații sunt

## **[RUS] Декларация соответствия стандартам EC**

Настоящим лицом, подписавшим документ, удостоверяют, что машина с указанной спецификацией соответствует европейским стандартам 2006/42/EG (Транспортная директива) и 2014/30/EU (Электромагнитная совместимость - EMC), включая изменения в них, а также соответствующим национальным стандартам и нормам. Каждое по отдельности лицо, подписавшее документ, имеет полномочия для составления технической документации.

## **[S] EG-KONFORMITETSFÖRKLARING**

Undertecknarna intygar härmed att det i detalj betecknade maskin uppfyller de Europeiska direktiven 2006/42/EG (Maskindirektiv) och 2014/30/EU (Elektromagnetisk tillighet - EMV), inklusive ändringarna i detta och den motsvarande rättsförordningen för att omsätta direktiven i nationell rätt. Undertecknarna har var för sig fullmakt att sammanställa den tekniska dokumentationen.

## **[SK] vyhlásenie o zhode**

Dolu podpísaní týmto potvrdzujeme, že podrobny popis uvedené stroje Zodpovedá Európskym smerniciam 2006/42/EC (ernica pre stroje) a 2014/30/EU (elektromagneticke tolerancia – EMV) vrátane jeho neskorších úprav, rovnako zodpovedá aj príslušným právnym nariadeniam na uplatnenie smerníc v rámci národného práva. Každý z podpísaných je jednotlivo splnomocnený na vytvorenie technických podkladov.

## **[SLO] EU IZJAVA O SKLADNOSTI**

Podpisani s tem potrjujemo, da posamično označeno določeno stroj vozilo odgovarja Evropski direktivi 2006/42/EC (Direktiva o strojih) in 2014/30/EU (Elektromagnetna skladnost - EMV) vključno z njihovimi spremembami ter ustrezno pravno uredbo o prevzemu smernic v nacionalno pravo. Podpisnik so vsakokrat posamezno pooblaščeni za izdajanje tehnične dokumentacije.

## **[TR] AB Uygunluk Açıklaması**

İmza sahibi şahıslar, ayrıntılı belirtilen makine aracının, 2006/42/EC (Makine Yönetgesi) ve 2014/30/EU (Elektromanyetik Uyumluluk – EMC) no'lu Avrupa Yönetgelerine ve bunların değişiklik sonucu oluşan metinlerine ve yönetgelerin milli hukuk hükümlerine dönüştürülmesine dair ilgili hukuk kararnamesine uygun olduğunu tasdik ederler. İmza sahibi şahıslar teknik dosyaları bir araya getirmek için münferiden vekil tayin edildi.

- (1) Type/ Typ/ Tipo/ Modello/ Typpi/ Típus/ Tip/ Tips/ Tipas/ Tüüp:
- (2) Serial No./ Serien-Nr./ N°. de série/ Serienummer/ Nº de serie/ Numero di serie/ Serienr./ Sarjanro/ αριθμός/ Seriové číslo/ Szériaszám/ Nr.Seryjny/ Serijska številka/ Výrobné číslo/ Серийный номер/ Seri No./ Seerianr./ Sérijas Nr./ Serijos numeris:
- (3) Year of constr./ Baujahr/ Année de constr./ Bouwjaar/ Año de constr./ Anno di costruzione/ Produktionsår/ Byggear/ Tillverkningsår/ Valmistusvuosi / Ano de fabrico / έτοςκατασκευής/ Rokvýroby/ Gyártásiév/ Rokprodukci/ Letnik / Годизготовления / Üretim yılı / Väljalaskeaasta / Izgatavošanas gads / Gamybomsmetai
- (4) Manufacturer or his authorized representative in Community/ Herstelleroder in der Gemeinschaft ansässiger Vertreter/ Fabricant ou son mandataire établi dans la Communauté/ Fabrikant of zijn in de Gemeenschap gevestigde gemachtigde/ Fabricante o representante establecido en la Comunidad/ Construtorou Representante estabelecida na Comunidade/ Costruttore oppure il suo rappresentante nella Comunità/ Fabrikant eller dennesi Fællesskabet etablerede befugtigede/ Produsenteller agent innenfelleskapet/ Tillverkareeller representant inom EU/ Valmistaja tai yhteisömaassaoleva edustaja / Vrobcenebojehozastoupení/ Gyártó / producent albo jegopredstawiciel w EG (Wspólnota Europejska)/ Καղαζθεπτζή ή άκηνοντη η αλητπήζωτο/ Üreticisi da Bölgedeki Yetkili Temsilci/ Proizvajalec alipooblaščenizastopnik s sedežem v EU/ Výrobca alebo zástupca so stálým bydliskom v EÚ / Изготовитель или его представитель, зарегистрированный в стране Содружества/ Tootjavõõorganisatsioonispaike nevesindaja/ Ražotājs vai vietējis uzņēmuma pārstāvis / Gamintojas arba šalyje režiziduojanči satstovas:
- (5) Date/ Datum/ Data/ Fecha/ datum/ Dato/ päiväys/ Kuupäev/ Datums/ data/ Dátum/ dátum/ tarif/ ผู้ร้องฟัง  
Authorised signatory/ Im Auftrag/ pour ordre/ Incaricato/ Por orden de/ por procuração/ op last van/ på vegne af/ på uppdrag/ Etteroppdrag/ psta./

