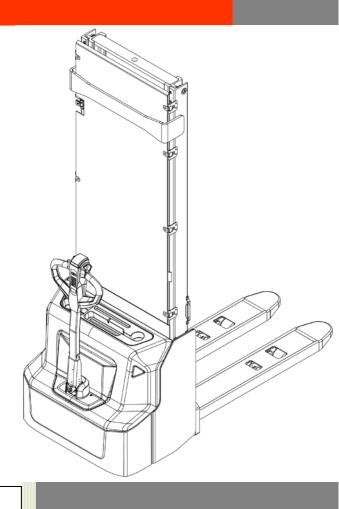
INSTRUCTION HANDBOOK

Electric Stackers

SWB-130D





WARNING

Do not use the electric 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 09/2024

SWB-130D-SMS-001-EN

FOREWARD

Before operating the electric stacker, read this ORIGINAL INSTRUCTION HANDBOOK carefully and understand the usage of the truck completely. Improper operation of the truck may create a danger situation. This handbook describes the usage of different electric stackers. When operating and servicing the truck, make sure, that it applies to your type.

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

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. The information written in this handbook is provided as reference for operating and servicing the stacker and may vary in terms of description of particular features of the truck.



NOTE: On this manual, the left sign means warning and danger, which can lead to death or serious injury if not followed.

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TABLE OF CONTENTS

1.	CORRECT APPLICATION	3
2.	DESCRIPTION OF THE STACKER	4
а	. Overview of the main components	4
b		
С	Description of the safety devices and warning labels (Europe and other, except USA)	8
d	·	
3.	WARNINGS, RESIDUAL RISK AND SAFETY INSTRUCTIONS	10
4.	COMMISSIONING, TRANSPORTING, DECOMMISSIONING	11
а	. Commissioning	11
b	. Lifting/ transportation	11
С	. Decommissioning	12
5.	DAILY INSPECTION	13
6.	OPERATION INSTRUCTIONS	14
а	. Parking	14
b	. Residual lift diagram	14
С	. Lifting	15
d	. Lowering	15
е	. Travelling	15
f.	Steering	16
g	Braking	16
h	. Malfunctions	17
i.	Emergency	17
7.	PIN-CODE PANEL	18
а	. Introduction	18
b	. Main functions	18
8.	Battery-Safety, Servicing, Recharging, Replacement	19
а	. Description of the lithium-ion battery	19
b	. Battery Decals	20
С	. Safety Instructions, Warning Indications and other Notes (lithium-ion battery)	21
d	. Replacement	26
е	,	
f.	Charging	28
9.	REGULAR MAINTENANCE	29
а	. Maintenance checklist	29
b	. Lubricating points	31
C	Check and refill hydraulic oil	31
d	. Checking electrical fuses	32
е	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3	
10.	TROUBLE SHOOTING	33
11.	WIRING/ CIRCUIT DIAGRAM	34
а	. Electrical circuit diagram	34
b	. Hydraulic circuit	36
C	Schematic diagram of braking system	37
12.	DECLARATION OF CONFORMITY (valid, if sold within the EU)	38

1. CORRECT APPLICATION

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

The trucks described in this handbook are self-propelled pedestrian controlled electric power stackers, with electrically powered lifting function. The trucks are designed for stacking operations in dedicated racking by lifting and lowering the palletized loads up to the desired lifting heights.

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 truck is used only by staff, which is trained and authorized to use this truck.

The 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 centre 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 stacker 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.

Only in the event that the truck manufacturer is no longer in business and there is no successor in the interest to the business, may the user arrange for a modification or alteration to a powered industrial truck, provided, however, that the user:

- a) arranges for the modification or alteration to be designed, tested and implemented by an engineer(s) expert in industrial trucks and their safety,
- b) maintains a permanent record of the design, test(s) and implementation of the modification or alteration,
- c) approves and makes appropriate changes to the capacity plate(s), decals, tags and instruction handbook, and
- d) affixes a permanent and readily visible label to the truck stating the manner in which the truck has been modified or altered, together with the date of the modification or alteration and the name and address of the organization that accomplished those tasks.

By not observing these instructions, the warranty becomes void.

2. DESCRIPTION OF THE STACKER

a. Overview of the main components

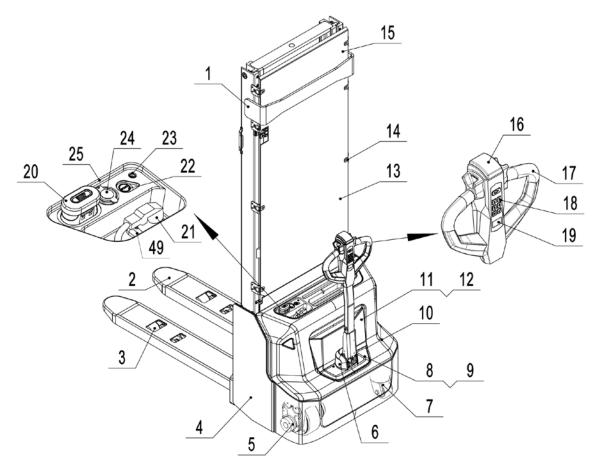


Fig. 1: Overview main components

- 1. Mast
- 2. Fork carriage
- 3. Load roller assembly
- 4. Chassis
- 5. Driving wheel assembly
- 6. Protective cover (tiller)
- 7. Steering roller assembly
- 8. Cover
- 9. Cover

- 10. Main cover
- 11. Cover
- 12. Cover
- 13. Protective board
- 14. Buckle
- 15. Protective board
- 16. Belly button
- 17. Tiller
- 18. Pin-code panel

- 19. LCD
- 20. Emergency button
- 21. Charger plug
- 22. Button switch
- 23. Charging LED
- 24. USB port
- 25. Panel
- 49. Socket (EN1175:2020)

b. Main technical data

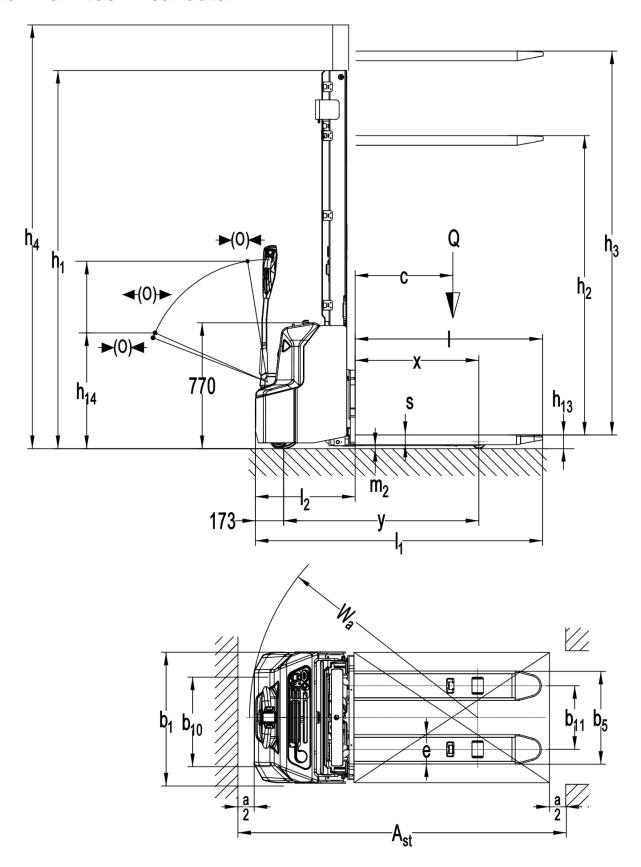


Fig. 2: Technical data

Table1: Main technical data for standard version

<u>101</u>	OIC 1. IV	Type sheet for indust	rial truck acc.	to VDI 2198			
	SWB-130D						
	1.2	Manufacturer`s type designation		3600FFL			
	1.3	Power (battery ,diesel, petrol, gas, manual)		Battery			
lata	1.4	Operator type		Pedes	trian		
General data		Load Capacity / rated load		1.3	1)		
ene	1.5 Load Capacity / rated load (mast lift)		Q(t)	1.3	3		
Ğ		Load Capacity / rated load (support arm lift)		1.3	3		
	1.6	Load centre distance	c(mm)	600			
	1.8	Load distance ,centre of drive axle to fork	x(mm)	758 / 6	675 ²⁾		
	1.9	Wheelbase	Y(mm)	1197 /	1115 ²⁾		
ht	2.1	Service weight	kg	790	745		
Weight	2.2	Axle loading, laden front/rear	kg	695/1395	675/1370		
>	2.3	Axle loading, unladen front/rear	kg	540/250	520/225		
	3.1	Tires		Polyuretha	ane (PU)		
Sis	3.2	Tire size, front	Ø x w (mm)	Ф210	x 75		
ıass	3.3	Tire size, rear	Ø x w (mm)	Φ84	x 93		
Tires, chassis	3.4	Additional wheels(dimensions)	Ø x w (mm)	Φ100	x 50		
Fire	3.5	Wheels, number front/rear(x=driven wheels)		1x + 1 / 2			
	3.6	Track, front	b ₁₀ (mm)	550			
	3.7	Track, rear	b ₁₁ (mm)	390 / 505			
	4.2	Lowered mast height	h₁ (mm)	2320			
	4.3	Free Lift height	h ₂ (mm)	1800			
	4.4	Lift height	h ₃ (mm)	3510			
	4.5	Extended mast height	h ₄ (mm)	403	30		
	4.6	Initial lift	h₅(mm)	12	0		
	4.9	Height of tiller in drive position min./ max.	h ₁₄ (mm)	710 / 1150			
suc	4.15	Height, lowered	h ₁₃ (mm)	90)		
Dimensions	4.19	Overall length	I ₁ (mm)	1762			
mei	4.20	Length to face of forks	l ₂ (mm)	612			
Di	4.21	Overall width	b₁ (mm)	80	0		
	4.22	Fork dimensions	s/e/l (mm)	60 / 180	/ 1150		
	4.25	Width across forks	b ₅ (mm)	570 /	685		
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	24			
	4.33	Aisle width for pallets 1000X1200	Ast (mm)	2247 / 2203 ²⁾			
	4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)	2197 / 2181 ²⁾			
	4.35	Turning radius	Wa (mm)	1400 / 1			
orm	5.1	Travel speed, laden/ unladen	Km/h	4.2 /			
0	5.2	Lift speed, laden/ unladen	m/s	0.10 /	0.14		

	5.3	Lowering speed, laden/ unladen	m/s	0.13 / 0.11		
	5.8	Max. gradeability, laden/ unladen	%	4 / 10		
	5.10	Service brake		Electromagnetic		
	6.1	Drive motor rating S2 60min	kW	0.65		
	6.2	Lift motor rating at S3 7.5%	kW	2.	2	
tric	6.3	Battery acc. to DIN 43531/35/36 A, B, C, no		no		
Electric	6.4	Battery voltage, nominal capacity K2	V/Ah	2 x 12 / 106 (Lead-acid battery)	24 / 100 (Lithium battery)	
	6.5	Battery weight	kg	2 x 34	26	
	6.6	Energy consumption acc: to VDI cycle	Kwh/h	0.69		
oth	8.1	Type of drive control		DC		
Ö ø	8.4	Sound level at driver's ear acc. to EN 12053	dB(A)	<70		

¹⁾ when operate the fork and pallet at the same time: Load Capacity / rated load (mast lift) < Load Capacity / rated load (support arm lift).

2) Load section lowered / Load section raised.

Туре	Lowered mast height	Free Lift height	Lift height	Extended mast height
	h1(mm)	h2(mm)	h3(mm)	h4(mm)
	1820	1300	2510	3030
Two stage	1970	1450	2810	3330
mast	2120	1600	3110	3630
	2320	1800	3510	4030

c. Description of the safety devices and warning labels (Europe

and other, except USA)

- A Crane hook label
- B Warning decal
- C Warning decal: Do not step under or on the forks
- D Residual lift capacity sticker
- E Identification plate (ID-plate)
- F Sign of "Debug Interface"
- G Warning decal
- H Sign of filling point
- I Sticker to read and follow these instructions
- J "No passengers" decal
- K Never reach through

The truck is equipped with an emergency switch (20) which stops all lifting, lowering, driving functions and engages the failsafe electromagnetic brake when it is pressed. By pull this button out; the truck can be operated after the controller checked the functions. Before operating, type the password on pin-code panel and press the \checkmark button. To prevent against unauthorized access, press emergency switch (20) or press the X button of pin-code panel.

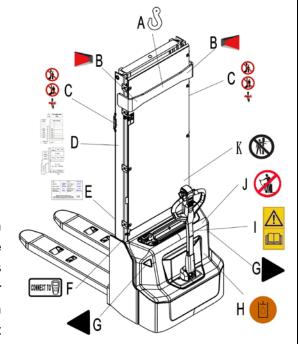


Fig. 3: Safety and warning labels

The truck is equipped with a safety (belly) button (16) 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 decals. Replace the decals if they are damaged or missing.

d. Identification plate

- 1 Designation, type
- 2 Serial number
- 3 Rated capacity in kg
- 4 Supply voltage in V
- 5 Own mass (self weight) in kg without battery
- 6 Name and address of manufacturer)

- 7 Battery weight minimum/ maximum
- 8 Nominal power in kW
- 9 Load center distance
- 10 Manufacturing date
- 11 Option

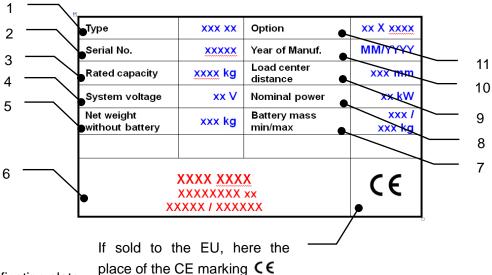


Fig. 4: Identification plate

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; use drawbar
- Side or end load. Load must be distributed evenly on the forks.
- Use the truck with unstable, unbalanced not stable load.
- Use the truck without following the instructions.
- 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
- Do not use the truck without help if load is causing insufficient visibility. Operation without help of additional people may result in crushes or injuries. Always make sure the transportation of load is safe.
- Do not operate the truck with removed covers or the apron.

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 (20) by pushing when sliding load on or off the truck. If the truck has any malfunctions, follow 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 stacker, the operator has to wear safety shoes.
- The truck is intended to be used for indoor applications with ambient temperatures between +5°C and + 40°C.
- The operating lighting must be minimum 50 Lux.
- To prevent unintended sudden movements when not operating the truck (i.e. from another person, etc.), press emergency switch (20) or press the X button of pin-code panel.

4. COMMISSIONING, TRANSPORTING, DECOMMISSIONING

a. Commissioning

Table 2: Commissioning data

Type	SWB-130D / 2600	SWB-130D / 2900	SWB-130D / 3200	SWB-130D / 3600
Commissioning				
weight [kg] Lead-acid	775/730	790/745	800/755	820/775
battery/ Lithium				
battery				

After receiving our new stacker or for re-commissioning you have to do 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. Lifting/ transportation

For transporting, remove the load, lower the forks to the lowest position and fix the truck safe with dedicated lifting gear according to the following figures.

Lifting



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

Park the truck securely and lash the truck according to the points identified in Fig. 5. Lift the truck to its destination and place the truck securely before removing the lifting gear. The lashing points are according to the Fig. 5.



Fig. 5: Lifting with a crane

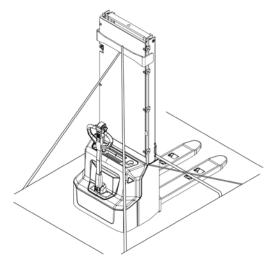


Fig. 6: Fixing points

Transportation



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

Lower the forks and park the truck securely.

Fasten the truck according to Fig. 6 by fixing dedicated lashing belts to chassis, Fork carriage and mast, 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 in this handbook mentioned greasing points (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 in both directions (section 6e).
- Check the functions of braking by activation of tiller arm sensor, reversing of driving buttons, release of driving buttons and of the safety (belly) button (section 6g).
- Check the function of driving with tiller in its vertical position (section 6e).
- Check the function of the emergency brake by activating the emergency button.
- Check the lifting and lowering functions by operating the buttons (section 6c and 6d).
- Check the function of steering by turning the tiller from one end position to the other one. The steering should be smooth, without jerks or abnormal sound.
- Check if all bolts and nuts are tightened firmly.
- Visual check if there are any broken electric wires.
- If supplied with a backrest extension, check it for damages and correct assembling.
- Check the presence of warning stickers and signs (section 2c)

If supplied with a backrest extension, check it for damages and correct assembling

6. OPERATION INSTRUCTIONS



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

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

Pull out the emergency button (Fig.1, 20), Press the button switch, and a green light will appear on the switch (Fig.8), type the password on pin-code panel and press ✓ button to start the truck. Truck can also be activated with RFID access card.

Press the horn button (Fig.7, 27) to activate the audible warning signal.

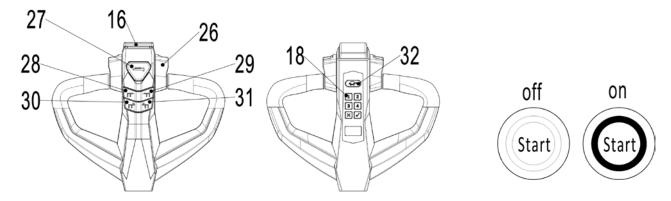


Fig.7: Tiller operating controls

Fig.8: Button switch

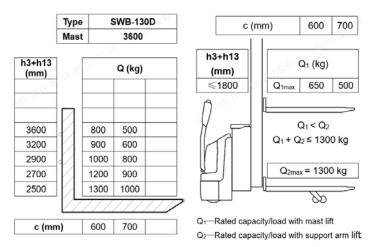
a. Parking



DO NOT PARK THE TRUCK ON INCLINED SURFACES

The truck is equipped with an electromagnetic failsafe stopping and parking brake.

Always lower the forks fully. Press the button, green LED ring is off (Fig.8), and press the emergency switch (20).



b. Residual lift diagram

Fig. 9: Residual lift diagram

The residual lift diagram indicates the maximum capacity Q [kg] for a given load centre c [mm] and the corresponding lift height H [mm] for the truck with horizontal load. The white markings on the mast indicate if the specific lifting limits reached. For instance (Fig.9. left) with a load centre of gravity distance c of 600 mm and a maximum lift height H of 3600 mm, the max. Capacity Q is 800 kg. Fig. 9. right shows when the truck is used as pallet truck and stacker at the same time, the load capacity of fork and pallet is both 650kg, so the total load capacity is 1300kg. When the fork lift height is within 120mm, the maximum stack height is 1800mm.

c. Lifting



DO NOT OVERLOAD THE TRUCK! THE MAXIMUM CAPACITY IS 1300kg.
LIFT ONLY CAPACITIES ACCORDING TO THE RESIDUAL LIFT DIAGRAM.

This truck can be used as pallet truck and stacker.

When press the fork lift button (Fig. 7, 30), the fork and pallet lift together, the maximum lift height is 120 mm, maximum load is 1300 kg.

When the fork lifts to the height within 120 mm, press the pallet lift button (Fig. 7, 28), the pallet lifts for stacking, the maximum stack height is 1800 mm (the truck is used as pallet truck and stacker at the same time).

When stack height is more than 1800 mm, the fork can't lift (the truck is only used as stacker).

d. Lowering

If the forks are in the racking, firstly travel out of the racking carefully with or without the pallet. By travelling out of the racking, take care that the forks are not touching the racking.

Press the lowering button (Fig. 7, 29) carefully.

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

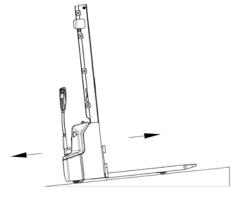


Fig.10: Load facing uphill

e. Travelling



TRAVEL ON INCLINES ONLY WITH THE LOAD FACING UPHILL.

DO NOT TRAVEL ON INCLINES MORE THAN SPECIFIED WITH THE TECHNICAL DATA.

TRAVELLING IS ONLY ALLOWED IF THE FORKS ARE LOWERED DOWN TO THE LIFTING POINT (<300MM).

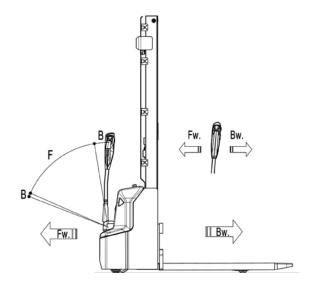


Fig.11: Operating direction

After starting the truck by activation from Pin-code panel carefully move the tiller to the operating zone ('F', Fig.11).

Turn the accelerator button to the desired direction forward 'Fw.' Or backwards 'Bw.' (Fig. 11).

Control the travelling speed by moving the accelerator button (Fig.7, 26) carefully until you reached the desired speed. If you move the accelerator button back to the neutral position, the controller decelerates the truck until the truck stops. If the truck stopped, the parking brake will be engaged.

Drive carefully the truck to the destination. Watch the route conditions and adjust the travelling speed with the accelerator- button.

Press turtle button (Fig.7, 32) to enter into slow speed mode, travel slowly by moving the accelerator button (Fig.7, 32), press turtle button again to return back to regular mode.

Press turtle button and hold for 2 seconds to activate driving function with tiller in its vertical position when operating in confined areas. The driving function is active only when turtle button is pressed (the speed is reduced); the release of turtle button will cause immediate stop. The activation of accelerator button in time gap shorter than two seconds after the turtle button is pressed will not activate the driving function, the activation cycle has to be repeated from the beginning. Accelerator button should remain in neutral position till two seconds passed.

f. Steering



AVOID CORNERING WHEN STACKING AND RETRIEVING.

You steer the truck by moving the tiller to the left or right side. When travel in front direction (opposite to direction of forks) the turning of tiller bar to right side will cause the truck turning clockwise.

g. 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 on several ways:

- By moving the accelerator button (26) back to the initial '0' position or by releasing the button, the regenerative braking is activated. The truck brakes until it stops.
- By moving the accelerator button (26) from one driving direction directly to the opposite direction, the truck brakes regenerative until it starts traveling into the opposite direction.
- The truck brakes, if the tiller is moved up or down to the braking zones ('B'). If the tiller is released, the tiller moves automatically up to the upper baking zone ('B'). The truck brakes until it stops.
- The safety (belly) button (16) prevents the operator from being crushed. If this button is activated, the truck decelerates and/ or starts traveling into the backwards direction ('Bw.') for a short distance and stops. Please consider, that this button also operates, if the truckis not traveling and the tiller is in the operating zone.

h. Malfunctions

If there are any malfunctions or the truck is inoperative, please stop using the truck and activate the emergency button (20) by pushing it. If possible, park the truck on a safe area and press the X button of pin-code panel. Inform immediately the manager and, or call your service. If necessary, move the truck out of the operating area by using dedicated lifting equipment. Do not tow the truck.

i. Emergency

In emergencies or in the event of tip over (or off dock), keep safe distance immediately. If possible push the emergency button (20). All electrical functions will be stopped.

7. PIN-CODE PANEL

SWB-130D is equipped with a pin-code panel and two ID cards.

a. Introduction

Pin-code panel is an electronic system which is similar with an electronic alarm system. Truck will not able to operate before typing a correct password, the main function is to prevent unauthorized operation.

b. Main functions

For SWB-130D it can be operated only when correct password is typed or valid ID card is used.

SWB-130D supports password access and ID card access. The truck supports up to 5 ID cards and 1 set of password. The password consists of 4 numbers ranging from 0 to 9.

ID card access

Put the ID card in the area that is close to the pin-code panel. If the ID card is valid, the display is lit and shows "ON", which indicates the pin-code panel works normally, that is, the output of the electric lock switch signal is normal (the display is lit and shows "OFF", and the red indicator flashes when operation of ID card access is incorrect).

Password access

There are two passwords of pin-code panel, one is the default user password 1234, and you can use it immediately. The other one is the administrator password 3232; with this you can set a new user password according to the following steps:

- Type "3232", click "√".
- Type previous user password, click "√".
- Type new password, and click " $\sqrt{}$ ", previous password will be replaced.

In case you need to reset the password, please follow the procedure under:

- Type "123", click "√".
- Type "123" again, click "√". Password will be "1234".

Follow these steps to disable the password lock function:

- Enter "123" and press " √ " to release.
- Input "3131" and press the " $\sqrt{}$ " key to release. The password lock function will be automatically canceled.

In case you need to add additional ID card, please follow the procedure under:

- Type "3434", click "√".
- Swipe the new ID card within 5 seconds.
- This pin-code panel supports Max. five cards.

8. Battery-Safety, Servicing, Recharging, Replacement



- Only qualified personnel are allowed to service or charge the batteries. The instructions of this handbook must be observed.
- Recycling of batteries undergoes national regulations. Please follow these 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 there are no disturbing towards other components of the truck.

SWB-130D is equipped with the following Lead-acid battery or lithium battery: 2x12V / 106Ah Lead-acid battery, 2x34kg; or 24V / 100Ah lithium battery, 27kg.



PLEASE CONSIDER THE MAXIMUM OPERATING TEMPERATURE OF THE BATTERIES.

a. Description of the lithium-ion battery

The lithium-ion battery is a battery with rechargeable cells, the battery is designed for industrial trucks and can withstand related vibrations during operation. The battery is equipped with special connections for charging and discharging operations. Do not try to install or connect improper connectors to the battery.

The battery is equipped with BMS – battery management system, which performs the control of battery condition and implements related safety protocols to protect the battery and cells from damages caused by operation or environmental conditions. The BMS controls the following safety functions and conditions: voltage, temperature, undervoltage, overvoltage, overtemperature, overcurrent, short circuit, etc. The internal resistance of lithium battery is generally low, which minimizes heat generation and maximizes the available power of the truck.

Temperature range for using the battery is from +5°C to +40°C. Low temperatures reduce the effective battery capacity, high temperatures reduce the battery's life time. The temperature difference between the two sides of the battery shall not exceed 5°C.

Only approved battery chargers must be used to charge the lithium battery.

b. Battery Decals

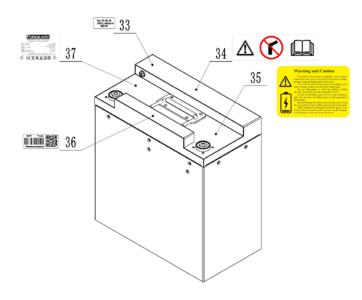


Fig.12: Battery Decals

Table 3: Battery Decals

Item	Description	Item	Description
33	Battery version information sticker	36	Barcode and QR code stickers
34	Anti-collision stickers	37	Main nameplate sticker
35	Warning stickers		

Battery identification plate

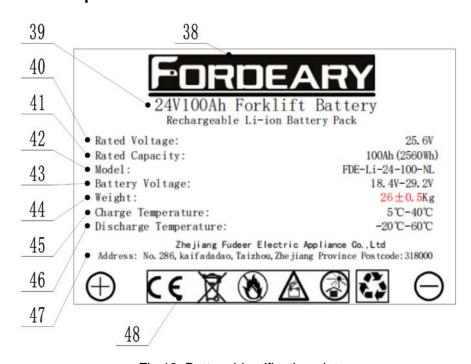


Fig.13: Battery identification plate

Table 4: Battery identification plate

Item	Description	Item	Description
38	LOGO	44	Battery weight, charging temperature range
39	Battery information	45	Charging temperature range, date of manufacture
40	Rated voltage	46	Discharge temperature range
41	Rated capacity	47	Manufacturer's name, production address
42	Battery model	48	CE and other safety marks
43	Battery voltage range		

Service mass is indicated on the battery data plate, the center of gravity is located approximately at middle of the battery case.

c. Safety Instructions, Warning Indications and other Notes (lithium-ion battery)

Safety regulations for handling lithium-ion batteries

Do not try to make any repairs or servicing of lithium batteries. Replacement of parts is not assumed.



Risk of electric shock and burning

The battery's charging and discharging connectors have open terminals, avoid any body contacts, contamination or direct contacts with objects which can cause short circuit connection of terminals. Use necessary pre-cautions and protective caps to secure the open terminals. The connectors should be maintained in clean and dry conditions.



Use only batteries designed and approved by the manufacturer for the truck. Do not try to modify or alter the battery.



Any damage or defects to the charger can result in accidents. Use only charger approved by the manufacturer of the truck, which is suitable for used battery.

In case charger has any damages or defects, exclude the charger from operation and contact your service provider. Do not modify or try to repair the charger.



Improper use of charger or use of wrong charger can cause damages to a battery or charger. Follow the required charger specifications; If the operation voltage of the charger is out of the applicable voltage range, the charger or battery may be damaged causing serious safety risks. The charger in use must be approved by the battery (truck) manufacturer.

Reversed connection of charging plug is prohibited. Follow the instruction for correct connection. For disconnection of charging plug use dedicated grip and never pull out the plug by means of cable.

Stop charging immediately if any abnormalities are detected, e.g. severe temperature increase, deformation of battery case, smoke, noise etc.



Intermediate charging

Lithium batteries support so called opportunity charging. The lithium battery, which is not fully discharged can be charged in any time. However, frequent opportunity charging not to the full charging state and stop of charging process before the appearance of corresponding indication of charger may result in dis-balance voltage of cells which increases the battery BMS calculation error. In order to effectively deal with this phenomenon, charge the battery in full allowing the automotive balancing process to be completed at least once a week.



Do not charge a fully charged battery

Note that in order to prevent the battery from continuing restart of charging under fully charged condition causing reduction of battery lifetime, the BMS has a protection function that prohibits recharging of fully charged battery. The charger will not work while battery is fully charged.

Potential hazards

If equipment is used according to its design purpose, following the correct operations procedures, there are no hazards anticipated.

The following hazards can arise in the event of improper use:

- Physical damage to the battery in case a battery falls or is deformed through impacts. Mechanical damages can cause leakages of harmful materials, fire or battery explosion.
- Short circuits may be caused by short connection of battery terminals, for instance, by water or other intentional/unintentional short connections.
- Temperature damages caused by placing of batteries in overheated environment conditions or being exposed to impact of fire, open sunlight etc. can cause leakages of harmful materials, fire or battery explosion.

In order to avoid fire, explosion and/or leakage of harmful materials, a safe place for storing non-functional or damaged batteries until the service arrives on site must satisfy the following criteria:

- Do not store in places where personnel is located.
- Do not store in places with valuable objects and close to valuable objects.
- A Class D fire extinguisher must be available on demand.
- There should not be any fire or smoke detectors in the storage area in order to ensure that an automatic fire detection system is only activated in the event of actual danger (e.g. flames).
- No ventilation intake pipes should be in the facility to exclude spreading of discharged content within a building.

Examples of where to store a non-functional battery:

Roofed outdoor position.

- Ventilated container.
- Covered fire resistant box with pressure and smoke discharge option.

Symbols - Safety and Warnings

Table 5: Symbols - Safety and Warnings



Used lithium-ion batteries must be treated as hazardous waste.

Lithium-ion batteries marked with the recycling symbol and the sign showing a crossed-out waste bin must not be disposed of with ordinary household waste.



Avoid fire and short circuits causing overheating.

Do not ignite or locate batteries close to open flame, heat sources or sparks.

Keep lithium-ion batteries away from heat sources.



Caution!

Battery short-circuit is prohibited.



Protect the lithium-ion battery from solar radiation or other forms of heat radiation.

Do not expose the lithium-ion battery to heat sources.

Explosion and fire hazard



Physical damage, thermal impacts or incorrect storage in the event of a defect can result in explosions or fire. The battery materials can be flammable.

Particular hazard from combustion products

The lithium batteries may be damaged by a fire. When extinguishing a lithium battery fire, the following information must be taken into consideration.



Contact with combustion products can be hazardous

Fire produces combustion products, which can occur in the form of smoke, through leaking fluids, escaping gases, debris as well decomposition products of certain chemicals. These combustion products are substances that enter the body through the respiratory tract and/or the skin, can produce and adverse effects such as choking.



Avoid contact with combustion products.

Use protective equipment.

Special firefighting protective equipment

Use self-contained breathing apparatus.

Wear protective equipment.

Additional firefighting instructions

To prevent secondary fires, the lithium-ion battery must be cooled from the outside.

Suitable extinguishing agents

- Carbon dioxide extinguisher (CO2)
- Water (not on mechanically opened or damaged batteries)

Unsuitable extinguishing agents

- Foam
- Grease fire extinguishing agents
- Powder extinguishers
- Metal fire extinguishers (PM 12i extinguishers)
- Metal fire powder PL-9/78 (DIN EN 3SP-44/95)
- Dry sand

Instructions for cooling an overheated, non-physically damaged battery

This type of damage may be caused by a short circuit inside the battery, which may result in leakage of harmful materials, fire or battery explosion.

Material discharge

Battery electrolyte fluid can be hazardous



Electrolyte fluid can be discharged if the battery is physically damaged. Avoid its contact with skin or eyes. If the contact happened:

- Rinse the affected parts with big amount of water and request for medical assistance immediately.
- In case of skin irritation or if any substances are breathed in request the medical assistance immediately.

Precautionary measures for personnel

- Keep personnel away, avoid any contact with smoke or discharged materials.
- Block off the affected area and ensure its reasonable ventilation.
- Wear personal protective equipment. If vapors, dust or aerosols are presented use self-contained breathing apparatus.

Precautionary measures for the environment

Do not allow spilled fluids to enter the water system, drainage system or the underground water.

Cleaning measures

The leaked fluid must be removed professionally following the related protocols.

Battery lifetime, maintenance and storage

The lithium-ion batteries are maintenance-free.

Deep discharge can damage the battery

Self-discharge without periodical recharge can lead the battery to fully discharged state. Full discharge shortens the service life of the battery and can cause deep discharge and activation of related safety protocols when battery will not be able to be charged anymore.

Before a long period of inactivity, the battery must be charged to 40%~60%.

Control the level of battery charge at least every 12 weeks and re-charge if necessary.

The temperature range for storing of the battery should be within the range of 0°C to 30°C.

If the battery is deeply discharged or if the battery temperature is below the permissible level, the battery cannot be charged. Deeply discharged batteries can never be charged. Due to the risk of condensate formation, batteries that have been stored at 0°C or below must only be charged after natural warming up to at least +5°C, forced heating is forbidden.

Instructions for safe handling of batteries

- Do not modify the battery.
- Do not open, damage, drop, penetrate or deform the battery.
- Do not throw the battery into a fire.
- Protect the battery from overheating.
- Protect the battery from direct sun light.
- Follow storage and charging procedures
- Protect the battery from water damages and other impacts

Failure to comply with these safety instructions can result in fire and explosion or the leakage of harmful materials.

Pre-shift checks before the system is put into operation

Check that the battery is in its normal condition, has no evidence of damages, leakages, abnormal findings, e.g. high temperature, smell, smoke etc. The surface of the battery should be clean and dry, without evidence of water damages, marks of rust on terminals and housing (if applicable). Connecting cables and plugs are in good condition.

Faults



If any damage is found to the battery or battery charger contact the service provider immediately. Do not open the battery or attempt to repair it.

Disposal and transport of a lithium-ion battery

Instructions for disposal

Lithium-ion batteries must be disposed in accordance with the relevant national environmental protection regulations. Batteries must be treated as hazardous waste. Batteries must not be disposed with ordinary waste.

Shipping information

The lithium-ion battery is a hazardous material. The applicable regulations must be fulfilled during transportation.

Shipping functional batteries

Functioning batteries can be shipped in accordance with the related regulations

Shipping faulty batteries

To transport faulty lithium-ion batteries, contact the service provider. Faulty lithium batteries require following of special transporting procedures.

d. Replacement

Park the truck securely and press emergency switch (20). Remove four screws firstly, take out the main cover. Secondly, remove the screw on negative pole of the battery and then remove the screw on positive pole. Thirdly, unloosen and remove the battery fixing frame. Remove the second battery on bottom following the same way of disassembly of the first battery. (Only for Lead-acid battery, there are two Lead-acid batteries.)

The installation is in the reverse order.

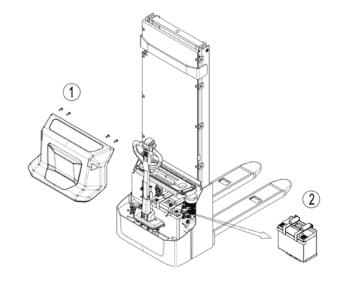
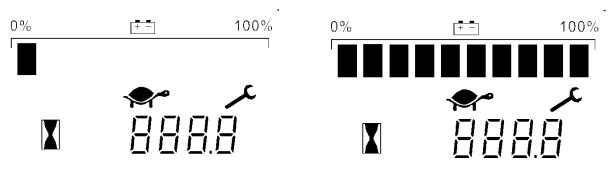


Fig. 14: Battery replacement

e. Battery Indicator



Battery discharged

Battery charged

Fig. 15: Battery discharge indicator

Display

An alpha-numeric liquid crystal display is fitted in the centre of the unit that shows the hours worked. The display is backlight (the backlight is normally lighted).

Alarms

The same display can also indicate the alarm state, showing a code corresponding to the type of alarm.

Battery State of charge



The battery's state of charge indication is integrated in the LCD display; it is shown by ten notches. Each notch represent the 10% of the battery charge. As the battery becomes discharged, the notches turn off progressively, one after the other, in proportion to the value of the residual battery charge. This value, sent to the display by the controller via CAN-BUS.

Turtle Symbol:



It is normally off, when it appears (fixed) it shows activation of the "soft" mode of the truck, in which maximum speed and acceleration are reduced.

Monkey Wrench Symbol:



It is normally off, when it appears (fixed) it shows the request of programmed maintenance or the alarm state. In this case the relative code will be displayed. The information supplied by the MDI-CAN can be extremely useful. Failures can be quickly identified by the operator or service technician thereby finding the fastest solution to _____ the problem.

Hourglass Symbol:

It blinks when the hour meter is working.

f. Charging



- 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 exactly 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.

Park the truck at a dedicated secured area with a dedicated power supply.

Lower the forks and remove the load;

Switch the truck off, pull the charger plug (21) out of the socket (49), the charger starts charging the battery if the charger plug (21) is connected to the main power supply.

When charging is finished, disconnect the plug (21) from the power supply, and insert it into the socket (49).

Table 6: LED-Status

LED- signal	Function
Red flashing	Battery charging
Green on	Fully charged

9. REGULAR MAINTENANCE



- Perform the designated check and maintenance work on equipment according to defined schedule.
- Before maintaining, remove the load and lower the forks to the lowest position.
- If you need to lift the truck, follow chapter 4 b 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 by maintain the tiller arm. The gas pressure springs are 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.
- Truck batteries of long-term storage (more than 3 months) should be put in dry and cool places. Charge and discharge the battery every 3 months. The storage voltage is about 25 ~ 26V.

Check the items emphasized in maintenance checklist.

a. Maintenance checklist

1. Owner

Can be performed by end-user. It is recommended to perform the maintenance every 50 service hours, but at least once a week.

Hyd	Hydraulic				
1	Check the sufficient amount of hydraulic oil for the lifting to full height without load				
Med	chanical system				
2	Check the wheels for deformation and damages				
3	Check the guarding and/or protective screen				
Elec	etric system				
4	Test the Emergency switch function				
5	Check the work of display				
Bra	king system				
6	Check the work of electromagnetic brake				
Fun	Function				
7	Check the horn function				
8	Check the emergency braking				
9	Check the reverse and regenerative braking				
10	Check the safety (belly) button function				
11	Check the steering function				
12	Check the lifting and lowering function				
13	Check the tiller arm switch function				
14	Check the speed reduction in turn				
15	Check the speed reduction when forks are lifted above 300 mm				

16	Check the work of limit switch for maximum lift height		
Gei	General		
17	Check if all decals are legible and complete		

2. Customer Service

Be performed by professional service technician. It is recommended to perform the maintenance every 1000 service hours, but at least once a year.

	/ 1000 service hours, but at least once a year.
Hyd	Iraulic
1	Check the hydraulic cylinder, piston for damage noise and leakage
2	Check the hydraulic joints and hose for damage and leakage
3	Refill the hydraulic oil (12 month or 1500 working hours)
4	Check and adjust the function of the pressure valve if needed (1300kg +0/ +15%)
Med	chanical system
5	Inspect the forks for deformation and cracks
6	Check if all screws are fixed
7	Check mast and chain for corrosion, deformation or damages, replace if necessary, adjust the
	chain length if needed
8	Check the gearbox for noise and leakage
9	Lubricate the grease nipples
10	Inspect and lubricate the pivot points
11	Clean and lubricate the chain
12	Check the correctness of adjustment for mast side rollers, adjust if needed
13	Check wheels for wear, damage and secure mounting, replace if needed
14	Check adjustment of side wheel (levelness of chassis), adjust if needed
Elec	ctric system
15	Test the Emergency switch function
16	Test the display
17	Inspect the electric wiring for damage
18	Check the electric connections and terminals
19	Check the electric drive motor for noise and damages
20	Check if correct fuses are used, replace if necessary.
21	Check the contactors
22	Check the frame leakage (insulation test)
23	Check function and wear of the accelerator
24	Check the electrical system of the drive motor
Bra	king system
25	Check brake performance
26	Measure the air gap of the electromagnetic brake, replace brake if needed
Bat	tery
27	Check the battery and battery components for damage
28	Clean and grease terminals, check terminals for corrosion and damage.
29	Check the battery voltage under load (for AGM configuration)
30	Check the power cables are securely connected to battery terminals, insulation caps applied
31	Check the function of battery start-up button (for Lithium battery)
Cha	arger

32	Check the main power cable for damages		
33	Check the start-up protection during charging		
Fun	ction		
34	Check the horn function		
35	Check the emergency braking		
36	Check the reverse and regenerative braking		
37	Check the safety (belly) button function		
38	Check the steering function, adjust tension of steering structure if needed		
39	Check the lifting and lowering function		
40	Check the tiller arm switch function		
41	Check the speed reduction in turn		
42	Check the speed reduction when forks are lifted above 300 mm		
43	Check the work of limit switch for maximum lift height		
Ger	General		
44	Check if all decals are legible and complete		
45	Check the protective screen for critical damages, replace if needed		
46	Carry out a test run		

b. Lubricating points

Lubricate the marked points according to the maintenance checklist. The required grease specification is: DIN 51825, standard grease.

- 1 Load roller bearing
- 2 Mast
- 3 Chain
- 4 Steering bearing
- 5 Gear box
- 6 Steering roller bearing

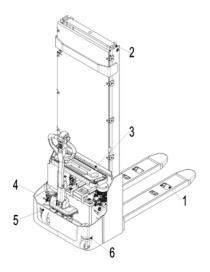


Fig. 16: Lubricating points

c. Check and refill hydraulic oil

It is recommended to use hydraulic oil in connection with average temperature:

Environment	–5°C~25°C	>25°C		
temperature	_5 C~25 C			
Туре	HVLP 32,	HLP 46,		
	DIN 51524	DIN 51524		
Viscosity	28.8-35.2	41.4 - 47		
Amount	5.2L (depends on specific model)			

Waste material like oil, used batteries or other must be probably 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.

d. Checking electrical fuses

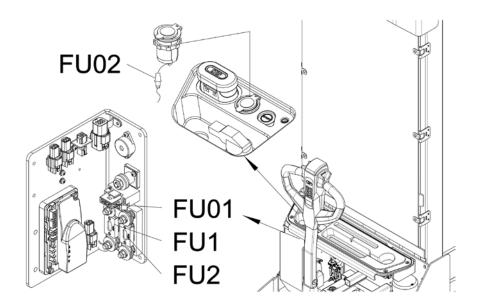


Fig. 17: Location of fuses

Table 7: Size of the fuses

	Rate
FU1	60A
FU2	150A
FU01	10A
FU02	1.5A

e. Removing, reattaching guarding



DO NOT USE THIS TRUCK, IF THE GUARDING IS DAMAGED OR NOT CORRECTLY ASSEMBLED!

If the guarding needs to be removed - de-attach holding clamps carefully. For reattaching place the screen to its correct position and place holding clamps back to their original position. If you need to replace parts, please call your service partner. Please make sure that the screen is fixed correctly and that the fixing elements are not damaged.

10. TROUBLE SHOOTING



If the truck has malfunctions follow the instructions, mentioned in chapter 6.

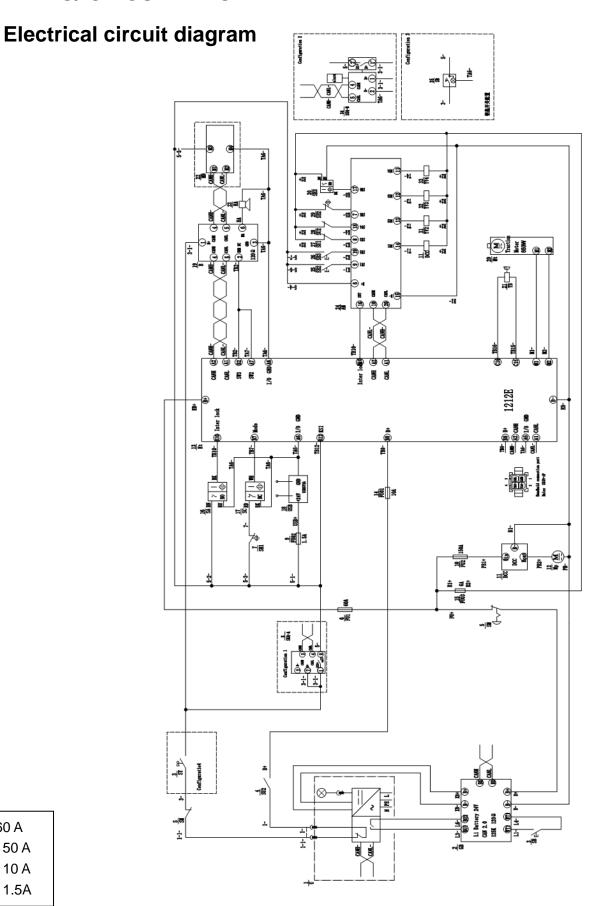
Table 8: Trouble shooting

TROUBLE	CAUSE	REPAIR			
Load can't be lifted	Load weight too high	Lift only the max. capacity, mentioned on the ID-plate			
	Battery discharged	Charge the battery			
	Lifting fuse faulty	Check and eventually replace the lifting fuse			
	Hydraulic oil level too low	Check and eventually refill hydraulic oil			
	Oil leakage	Repair the hoses and/or the sealing of the cylinder			
Oil leakage from air breathing	Excessive quantity of oil.	Reduce oil quantity.			
	Battery is charging	Charge the battery completely and then remove the main power plug form the electrical socket.			
	Battery not connected	Connect the battery correctly			
Stacker not starts	The fuse is faulty	Check and eventually replace fuses			
operating	Battery discharged	Charge the battery			
	Combined emergency switch is activated	De-activate the combined emergency switch by insert and pull the knob.			
	Tiller in the operating zone	Move the tiller firstly to the braking zone.			
Only travelling in	The accelerator and the	Check the accelerator and the			
one direction	connections are damaged.	connections.			
	The battery is discharged.	Check the battery status at the discharge indicator			
The stacker only travels very slowly	The electromagnetic brake is engaged.	Check the electromagnetic brake			
	The relating tiller cables are	Check the tiller cables and			
	disconnected or damaged	connections.			
	Defective height sensor for reduced speed at ~300mm height	Check the sensor			
	Electric system overheated	Stop using and cool down the truck			
	Defective heat sensor	Check and if necessary replace the heat sensor			
The steel car steel	The controller is damaged.	Replace the controller.			
The stacker starts up suddenly	The accelerator not moves back to its neutral position.	Repair or replace the accelerator.			
L	•	ı			

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 the truck out of the aisle.

11. WIRING/ CIRCUIT DIAGRAM

a.



FU1: 60 A FU2: 150 A FU01: 10 A FU02: 1.5A

Fig. 18: Electrical circuit diagram (Lithium battery)

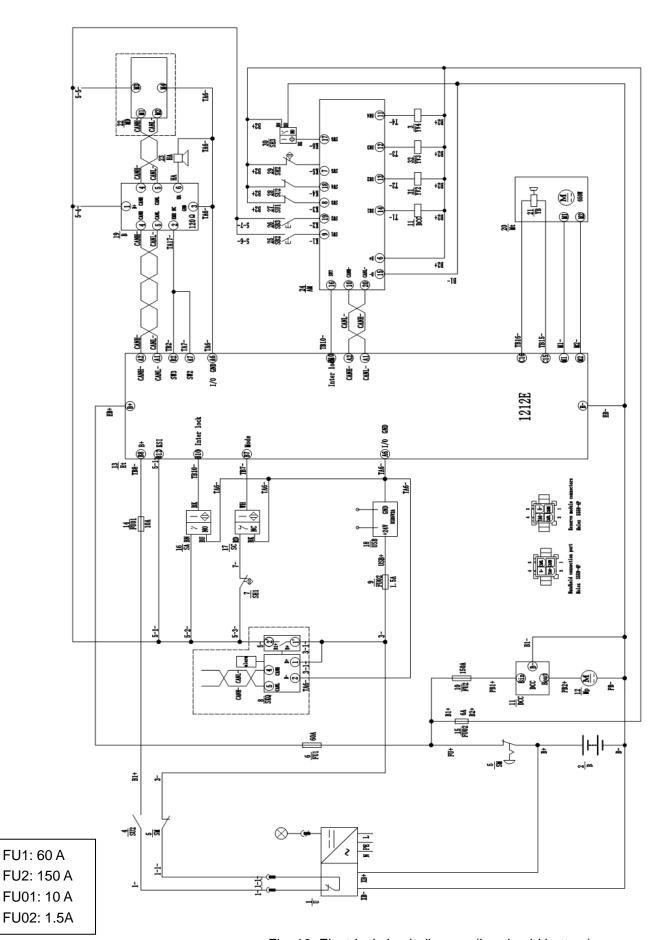


Fig. 19: Electrical circuit diagram (Lead-acid battery)

Table 9: Description of electrical diagram

No.	Code	Item	No.	Code	Item	No.	Code	Item
1	U	Charger	13	Et	Controller	25	SB2	Button switch
2	GB	Battery	14	FU01	Fuse 10A	26	SB3	Button switch
3	SB	Button switch	15	FU03	Fuse 6A	27	SU1	Fork height limit microswitch
4	SU2	UK socket microswitch	16	SA	Interlock switch	28	SU2	Fork height limit microswitch
5	SM	Emergency switch	17	SC	Sensor of speed reduction on curves	29	SH2	Fork logic limit switch
6	FU1	Fuse 60A	18	USB	USB	30	SH3	Fork logic limit switch
7	SH1	Lifting speed limit switch	19	В	Tiller	31	YV2	Lowering electromagnetic valve
8	SKQ-A	Fingerprint access	20	Mt	Traction motor	32	YV3	Fork electromagnetic valve
9	FU02	Fuse 1.5A	21	YB	Electromagnetic brake	33	YV4	Mast electromagnetic valve
10	FU2	Fuse 150A	22	MD	Remote module	34	SKQ-B	DSC card reader
11	DCC	DC contactor	23	HA	Horn	35	SB	Button switch
12	MP	Pump motor	24	AM	Auxiliary module			

b. Hydraulic circuit

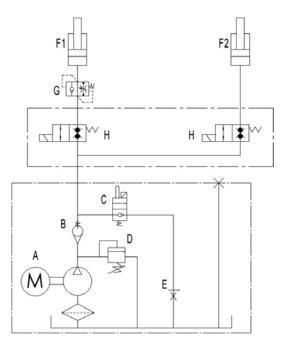


Fig. 20: Hydraulic circuit

Table 10: Description of hydraulic circuit

Code	Item	Code	Item
Α	Hydraulic power unit	F1	Cylinder (Mast)
В	Check valve	F2	Cylinder (Chassis)
С	Electromagnetic valve	G	Safety valve
D	Overflow valve	Н	Magnet valve
Е	Throttle valve		

c. Schematic diagram of braking system

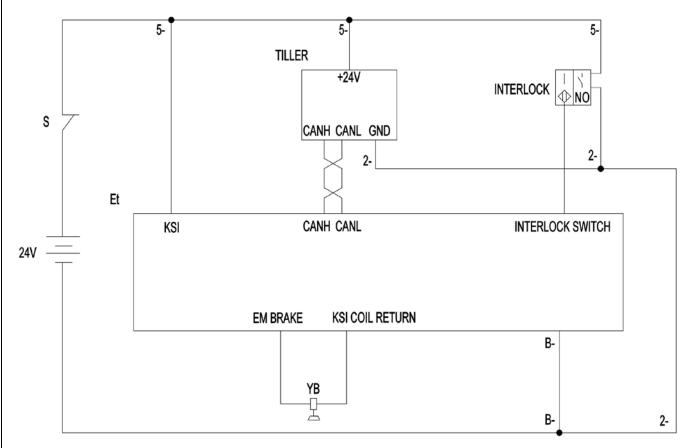


Fig. 21: Braking schematic diagram

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

[GB] Original CE Declaration of conformity

The signatory hereby declares that the specified machine conforms to the EC 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 and declares that the following standards, including the normative procedures contained therein, have been applied:

[D] Original EG- Konformitätserklärung

Der Unterzeichner erklärt hiermit, dass die angegebene Maschine den EG-Richtlinien 2006/42/EG (Maschinenrichtlinie) und 2014/30/EU (Elektromagnetische Verträglichkeit, EMV) einschließlich ihrer Änderungen in der Umsetzung in die nationale Gesetzgebung der Mitgliedsländer entspricht. Der Unterzeichner ist zur Zusammenstellung der technischen Unterlagen einzeln befugt und erklärt, dass folgende Normen, einschließlich der darin enthaltenen normativen Verfahren, angewendet wurden:

[E] Original DECLARACIÓN DE CONFORMIDAD CE

El signatario declara por la presente que la máquina especificada cumple con la Directiva CE 2006/42/EC (Directiva de Máquinas) y 2014/30/EU (Compatibilidad Electromagnética, EMC) incluidas sus enmiendas traducidas a la legislación nacional de los países miembros. El firmante está autorizado individualmente para compilar los documentos técnicos y declara que se han aplicado los siguientes estándares, incluidos los procedimientos normativos contenidos en ellos:

[F] Originale DECLARATION DE CONFORMITE CE

Le signataire déclare par la présente que la machine spécifiée est conforme à la directive CE 2006/42/CE (directive machine) et 2014/30/UE (compatibilité électromagnétique, CEM), y compris leurs modifications telles que traduites dans la législation nationale des pays membres. Le signataire est individuellement autorisé à compiler les documents techniques et déclare que les normes suivantes, y compris les procédures normatives qu'elles contiennent, ont été appliquées:

[NL] Origineel EG-CONFORMITEITSVERKLARING

De ondertekenaar verklaart hierbij dat de gespecificeerde machine voldoet aan de EG-richtlijnen 2006/42/EG (machinerichtlijn) en 2014/30/EU (elektromagnetische compatibiliteit, EMC) inclusief hun amendementen zoals vertaald in de nationale wetgeving van de aangesloten landen. De ondertekenaar is individueel gemachtigd om de technische documenten samen te stellen en verklaart dat de volgende normen, inclusief de normatieve procedures die daarin zijn opgenomen, zijn toegepast:

[P] Original DECLARAÇÃO DE CONFORMIDADE CE

O signatário declara que a máquina especificada está em conformidade com a Diretiva EC 2006/42/EC (Diretiva de Máquinas) e 2014/30/EU (Compatibilidade Eletromagnética, EMC), incluindo suas emendas traduzidas para a legislação nacional dos países membros. O signatário está individualmente autorizado a compilar os documentos técnicos e declara que as seguintes normas, incluindo os procedimentos normativos neles contidos, foram aplicadas:

[I] Originale DICHIARAZIONE DI CONFORMITÀ CE

Il firmatario dichiara che la macchina specificata è conforme alla Direttiva CE 2006/42/CE (Direttiva macchine) e 2014/30/UE (Compatibilità elettromagnetica, EMC) compresi i relativi emendamenti tradotti nella legislazione nazionale dei paesi membri. Il firmatario è autorizzato individualmente alla compilazione dei documenti tecnici e dichiara che sono state applicate le seguenti norme, comprese le procedure normative ivi contenute:

[ВС] Оригинален ЕВРОПЕЙСКА ОБЩНОСТ - ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

С настоящото подписалото лице декларира, че посочената машина отговаря на Директива на EO 2006/42/EC (Директива за машини) и 2014/30/EU (Електромагнитна съвместимост, EMC), включително техните изменения, преведени в националното законодателство на страните-членки. Подписалото лице е лично упълномощено да съставя техническите документи и декларира, че са приложени следните стандарти, включително съдържащите се в тях нормативни процедури:

[CZ] Originál EG - PROHLÁŠENÍ OSHODĚ

Signatář tímto prohlašuje, že uvedený stroj je ve shodě se směrnicí ES 2006/42/ES (Směrnice o strojích) a 2014/30/EU (Elektromagnetická kompatibilita, EMC) včetně jejich změn ve znění přeložené do národní legislativy členských zemí. Podepisující osoba je samostatně oprávněna sestavit technické dokumenty a prohlašuje, že byly použity následující normy, včetně normativních postupů v nich obsažených:

[DK] Original EF-OVERENSSTEMMELSESERKLÆRING

Underskriveren erklærer hermed, at den specificerede maskine er i overensstemmelse med EF-direktivet 2006/42/EC (maskindirektivet) og 2014/30/EU (elektro-magnetisk kompatibilitet, EMC) inklusive deres ændringer som oversat til national lovgivning i medlemslandene. Underskriveren er individuelt bemyndiget til at udarbejde de tekniske dokumenter og erklærer, at følgende standarder, inklusive de normative procedurer indeholdt deri, er blevet anvendt:

[EST] Originaal EL vastavusavaldus

Allakirjutanu kinnitab käesolevaga, et nimetatud masin vastab EÜ direktiivile 2006/42/EÜ (masinadirektiiv) ja 2014/30/EL (elektromagnetiline ühilduvus, EMC), sealhulgas nende muudatustele, nagu on tõlgitud liikmesriikide siseriiklikesse õigusaktidesse. Allakirjutanul on individuaalselt õigus koostada tehnilisi dokumente ja ta kinnitab, et on kohaldatud järgmisi standardeid, sealhulgas neis sisalduvaid normatiivprotseduure:

[FIN] Alkuperäinen EU-YHDENMUKAISUUSSELOSTUS

Allekirjoittaja vakuuttaa täten, että määritetty kone on EY-direktiivin 2006/42/EY (konedirektiivi) ja 2014/30/EU (sähkömagneettinen yhteensopivuus, EMC) mukainen, mukaan lukien niiden muutokset, sellaisina kuin ne on käännetty jäsenmaiden kansalliseen lainsäädäntöön. Allekirjoittaja on henkilökohtaisesti valtuutettu kokoamaan tekniset asiakirjat ja vakuuttaa, että seuraavia standardeja, mukaan lukien niihin sisältyvät normatiiviset menettelyt, on sovellettu:

[GR] Πρωτότυπο ΔΗΛΩΣΗΣΥΜΜΟΡΦΩΣΗΣΕΟΚ

Ο υπογράφοντος δηλώνει με το παρόν ότι το συγκεκριμένο μηχάνημα συμμορφώνεται με την Οδηγία 2006/42/ΕΚ (Οδηγία Μηχανών) και 2014/30/ΕΕ (Ηλεκτρομαγνητική Συμβατότητα, ΕΜC) συμπεριλαμβανομένων των τροποποιήσεών τους όπως έχουν μεταφραστεί στην εθνική νομοθεσία των χωρών μελών. Ο υπογράφοντος είναι ατομικά εξουσιοδοτημένος να συντάξει τα τεχνικά έγγραφα και δηλώνει ότι έχουν εφαρμοστεί τα ακόλουθα πρότυπα, συμπεριλαμβανομένων των κανονιστικών διαδικασιών που περιέχονται σε αυτά:

[H] Eredeti EU KONFORMITÁSI NYILATKOZAT

Az aláíró ezennel kijelenti, hogy a megadott gép megfelel a 2006/42/EC (gépirányelv) és a 2014/30/EU (elektromágneses összeférhetőség, EMC) irányelveknek, beleértve azok módosításait a tagországok nemzeti jogszabályaiba lefordítva. Az aláíró egyénileg jogosult a műszaki dokumentumok összeállítására, és kijelenti, hogy a következő szabványokat, beleértve az abban foglalt normatív eljárásokat, alkalmazták:

[LT] Originalus ES atitikimo deklaracija

Pasirašęs asmuo pareiškia, kad nurodyta mašina atitinka EB direktyvą 2006/42/EB (mašinų direktyvą) ir 2014/30/ES (elektromagnetinį suderinamumą, EMC), įskaitant jų pakeitimus, išverstus į šalių narių nacionalinius teisės aktus. Pasirašęs asmuo yra individualiai įgaliotas rengti techninius dokumentus ir pareiškia, kad buvo taikomi šie standartai, įskaitant juose nurodytas normines procedūras:

[LV] Oriģināls ES atbilstības deklarācija

Parakstītājs ar šo apliecina, ka norādītā iekārta atbilst EK Direktīvai 2006/42/EK (Mašīnu direktīva) un 2014/30/ES (Elektromagnētiskā saderība, EMC), ieskaitot to grozījumus, kas ir tulkoti dalībvalstu nacionālajos tiesību aktos. Parakstītājs ir individuāli pilnvarots sastādīt tehniskos dokumentus un apliecina, ka ir piemēroti šādi standarti, tostarp tajos ietvertās normatīvās procedūras:

[N] Opprinnelig EU-KONFORMITETSERKLÆRING

Underskriveren erklærer herved at den spesifiserte maskinen er i samsvar med EC-direktivet 2006/42/EC (maskindirektivet), og 2014/30/EU (elektromagnetisk kompatibilitet, EMC) inkludert deres endringer som oversatt til nasjonal lovgivning i medlemslandene. Underskriveren er individuelt autorisert til å sammenstille de tekniske dokumentene og erklærer at følgende standarder, inkludert de normative prosedyrene som finnes deri, er brukt:

[PL] Oryginalny DEKLARACJA ZGODNOŚCI WE

Sygnatariusz niniejszym oświadcza, że określona maszyna jest zgodna z dyrektywą WE 2006/42/WE (dyrektywa maszynowa) i 2014/30/UE (kompatybilność elektromagnetyczna, EMC) wraz z ich poprawkami w tłumaczeniu na ustawodawstwo krajowe krajów członkowskich. Sygnatariusz jest indywidualnie upoważniony do sporządzania dokumentacji technicznej i oświadcza, że zastosowano następujące normy, w tym zawarte w nich procedury normatywne:

[RO] Original DECLARAȚIE DE CONFORMITATE CE

Semnatarul declară prin prezenta că mașina specificată este conformă cu Directiva CE 2006/42/CE (Directiva Mașini) și 2014/30/UE (Compatibilitate electro-magnetică, EMC), inclusiv amendamentele acestora, astfel cum au fost traduse în legislația națională a țărilor membre. Semnatarul este autorizat individual să întocmească documentele tehnice si declară că au fost aplicate următoarele standarde, inclusiv procedurile normative cuprinse în acestea:

[RUS] Оригинал Декларация соответствия стандартам EC

Настоящим подписывающая сторона заявляет, что указанная машина соответствует Директиве ЕС 2006/42/ЕС (Директива по машинам) и 2014/30/ЕС (Электромагнитная совместимость, ЭМС), включая их поправки, переведенные в национальное законодательство стран-членов. Подписавшаяся сторона имеет индивидуальное право на составление технических документов и заявляет, что были применены следующие стандарты, включая содержащиеся в них нормативные процедуры:

[S] Original EG-KONFORMITETSFÖRKLARING

Undertecknaren intygar härmed att den specificerade maskinen överensstämmer med EG-direktivet 2006/42/EC (maskindirektivet) och 2014/30/EU (elektromagnetisk kompatibilitet, EMC) inklusive deras tillägg som översatts till nationell lagstiftning i medlemsländerna. Undertecknaren är individuellt behörig att sammanställa de tekniska dokumenten och förklarar att följande standarder, inklusive de normativa procedurerna som finns däri, har tillämpats:

[SK] Originál vyhlásenie o zhode

Signatár týmto vyhlasuje, že špecifikovaný stroj je v súlade so Smernicou ES 2006/42/EC (Smernica o strojoch) a 2014/30/EU (Elektromagnetická kompatibilita, EMC) vrátane ich dodatkov preložených do národnej legislatívy členských krajín. Signatár je individuálne oprávnený zostavovať technické dokumenty a vyhlasuje, že boli aplikované nasledujúce normy vrátane normatívnych postupov v nich obsiahnutých:

[SLO] Original EU IZJAVA O SKLADNOSTI

Podpisnik s tem izjavlja, da je navedeni stroj v skladu z Direktivo ES 2006/42/ES (Direktiva o strojih) in 2014/30/EU (Electro-Magnetic Compatibility, EMC), vključno z njunimi spremembami, kot so prevedene v nacionalno zakonodajo držav članic. Podpisnik je posamično pooblaščen za sestavo tehnične dokumentacije in izjavlja, da so bili uporabljeni naslednji standardi, vključno z normativnimi postopki, ki jih vsebuje:

[TR] Orijinal AB Uygunluk Açıklaması

İmza sahibi, belirtilen makinenin AB Direktifi 2006/42/EC (Makine Direktifi) ve 2014/30/EU (Elektro-Manyetik Uyumluluk, EMC) ve bunların üye ülkelerin ulusal mevzuatına tercüme edilen değişiklikleri ile uyumlu olduğunu beyan eder. İmza sahibi, teknik belgeleri derlemeye bireysel olarak yetkilidir ve burada yer alan normatif prosedürler dahil olmak üzere aşağıdaki standartların uygulandığını beyan eder:

<the applied standards have to be shown here>

(1) Type: XX XX- Self-propelled industrial truck

(2) Serial No: XXXXXXX

(3) Year of constr.: YYYY

(4) Manufacturer: Noblelift Intelligent Equipment Co., Ltd.528 Changzhou Road, Taihu Sub-district, Changxing, 313100, PR China

(5) Responsible for compiling the technical documentation: <Company name>,

<Company Address>

(6) Date: <Place>, YYYY.MM.DD

(7) Authorized signatory: <Position> Mr. Sample

- (1) Type/ Typ/ Tipo/ Modello/ Tyyppi/ Tipo / ΤΥΠΟΣ/ Típus/ Tip/ Τиπ/ Tips/ Tipas/ Tüüp:
- (2) Serial No./ Serien-Nr./ N°. de série/ Serienummer/ N° de serie/ Numero di serie/ Serienr./ Sarjanro/ αυξάνωναριθμός/ Seriové číslo/ Szériaszám/ Nr.Seryjny/ Serijska številka/ Výrobné číslo/ Серийныйномер/ Seri No./ Seerianr./ Sērijas Nr./ Serijos numeris:
- (3) Year of constr./ Baujahr/ Année de constr./ Bouwjaar/ Año de constr./ Anno di costruzione/ Produktionsår/ Byggeår/ Tillverkningsår/ Valmistusvuosi / Ano de fabrico / ἐτοςκατασκευής/ Rokvýroby/ Gyártásiév/ Rokprodukcji / Letnik / Годизготовления / Üretimyılı / Väljalaskeaasta / Izgatavošanas gads / Gamybosmetai
- (4) Manufacturer/ Hersteller/ Fabricante/ Fabricant/ Fabricante/ Produttore/ производител/ Výrobce/ Fabrikant/ Tootja/ Valmistaja/ Κατασκευαστής/ Gyártó/ Gamintojas/ Ražotājs/ Produsent/ Producent/ Producetr/ Προυзводитель/ Tillverkare/ Výrobca/ Proizvajalec/ Üretici firma
- (5) Responsible for compiling the technical documentiton/ Verantwortlich für die Zusammenstellung der technischen Dokumentation/ Responsable de compilar la documentación técnica/ Responsable de la compilation de la documentation technique/ Verantwoordelijk voor het samenstellen van de technische documentatie/ Responsável pela compilação da documentação técnica/ Responsabile della compilazione della documentazione tecnica/ Отговаря за съставянето на техническата документация/ Zodpovídá za sestavení technické dokumentace/ Ansvarlig for udarbejdelse af den tekniske documentation/ Vastutab tehnilise dokumentatiooni koostamise eest/ Vastaa teknisen dokumentaation laatimisesta/ Υπεύθυνος για τη σύνταξη της τεχνικής τεκμηρίωσης/ Felelős a műszaki dokumentáció összeállításáért/ Atsakingas už techninės dokumentacijos sudarymą/ Atbildīgs par tehniskās dokumentācijas sastādīšanu/ Ansvarlig for sammenstilling av teknisk dokumentasjon/ Odpowiedzialny za kompletowanie dokumentacji technicznej/ Responsabil cu intocmirea documentatiei tehnice/ Ответственный за составление технической документации/ Ansvarig för att sammanställa den tekniska dokumentationen/ Zodpovedá za zostavenie technickej dokumentácie/ Odgovoren za pripravo tehnične dokumentacije/ Teknik dokümantasyonun derlenmesinden sorumlu
- (6) Date/ Datum/ Data/ Fecha/ datum/ Dato/ päiväys/ Kuupäev/ Datums/<u>дата</u>/ Dátum/ dátum/ tarih/ <u>ημερομηνία</u>
- (7) Authorised signatory/ ImAuftrag/ pour ordre/ Incaricato/ Por orden de/ por procuração/ op last van/ påvegneaf/ påuppdrag/ Etteroppdrag/ psta./ Ülesandel / pavedus / v.i. / Ποποργчению / megbízásából /дπъжностнолице / z pověření / z poverenia / po nalogu / napolecenie / din sarcina / adına / θαη' εληνιή