



HLVT3350.

OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS ENGLISH

Please use the following link to download the operating instructions in English:

English:

https://www.hebebuehne24.de/download/operating-instructions_trusters_elvt3350_en.pdf



CUSTOMER SERVICE

Do you have any questions? We're happy to assist you (Monday through Friday, from 8:00 a.m. to 4:00 p.m.).

- **Service Hotline: +49 (0) 8373 9999-10**
- **WhatsApp Service: +49 152 58135975**
- **Email: mail@trusters.com**



TABLE OF CONTENTS

GENERAL INFORMATION

Intended Use	2
General Safety Instructions	2
Technical Data	4
Package Contents	4

BEFORE STARTING OPERATION

5

Floor Requirements	5
Installation Site Requirements	5
Electrical Connection	5
Required Supplies and Tools	5
Setting Up the Stage	5

OPERATION

10

Control Console	10
Lifting and Lowering	10
Commissioning Checklist	11
Driving onto the Scissor Lift	12
Lifting Points	12
Guidelines for Lifting Vehicles	13
Instructions for Lowering Vehicles	13
Changing the Location	13

MAINTENANCE

14

HYDRAULIC DIAGRAM

15

ELECTRICAL DIAGRAM

16

SPARE PARTS LIST DOWNLOAD LINK

17

DISPOSAL

17

CE CERTIFICATE

18

PROOF OF INITIAL COMMISSIONING

20



GENERAL INFORMATION

INTENDED USE

The ELVT3350 scissor lift is designed to lift vehicles with a maximum weight of 3,500 kg. Pay attention to weight distribution when lifting.

The mobile hydraulic scissor lift consists of a scissor lift unit and a mobility kit. The mobility kit allows the lift to be moved to another location. When moving the lift to another location, no vehicle may be on the lift.

This lift may only be used indoors to lift vehicles weighing up to 3,500 kg. Any other use is improper and may cause accidents. Any damage caused by improper operation is not covered by the warranty.

Observe the electrical requirements for the scissor lift.

GENERAL SAFETY INSTRUCTIONS

Read these instructions in their entirety before beginning work and keep them near the lift for future reference.

PERSONNEL

Setup, commissioning, and operation must be performed only by trained, qualified personnel 18 years of age or older.

Work on the electrical system, particularly connecting the power plug, must be performed exclusively by a qualified electrician.

At least two people are required for setup.

The lift may only be used as intended for lifting motor vehicles with a maximum total weight of 3,500 kg.

Wear personal protective equipment: safety shoes, work gloves, and safety goggles when working with hydraulic oil.

During the lifting and lowering process, no one is allowed to remain within the range of motion of the platforms and scissors. Do not place hands or feet between moving parts.

Never work under a load that is not fully and securely supported on the platform.

Do not lift people on the lift platform or inside the vehicle.

Before working inside the unit, turn off the main switch and unplug the power cord.

Never disconnect hydraulic lines while they are under pressure. Lower the platform completely first.

Immediately clean up any spilled hydraulic oil (slip hazard) and dispose of it in an environmentally responsible manner.

Safety devices (limit switches, CE stop, signal transmitters) must not be bypassed or removed.

The manufacturer has carefully supervised the preparation of this manual. The contents of this manual must not be modified. Self-installation or any other unauthorized modifications will void warranty and product liability claims. Any modifications or conversions to the lift not authorized by the manufacturer may result in significant property damage or personal injury. The manufacturer/supplier assumes no liability for this. The manufacturer is not liable for any errors in the preparation of these instructions and reserves the right to make corrections at any time due to changes.

!! DANGER !!

When lifting the lift off the transport frame, there is a risk of crushing from the suspended load (dead weight approx. 585 kg). Never step under the raised load. Use only suitable and tested lifting equipment and slings.



TECHNICAL SPECIFICATIONS

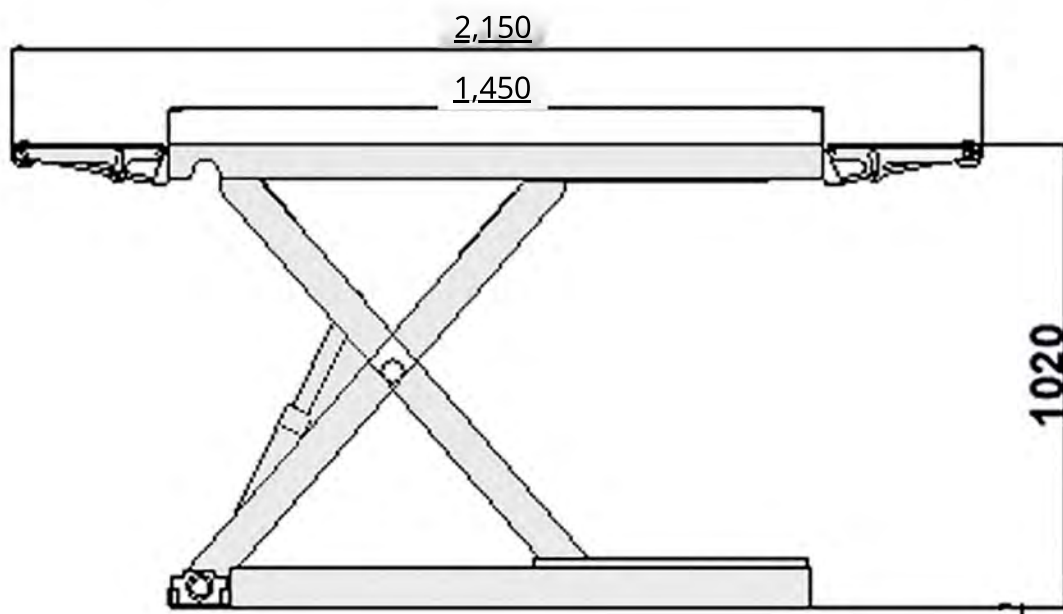
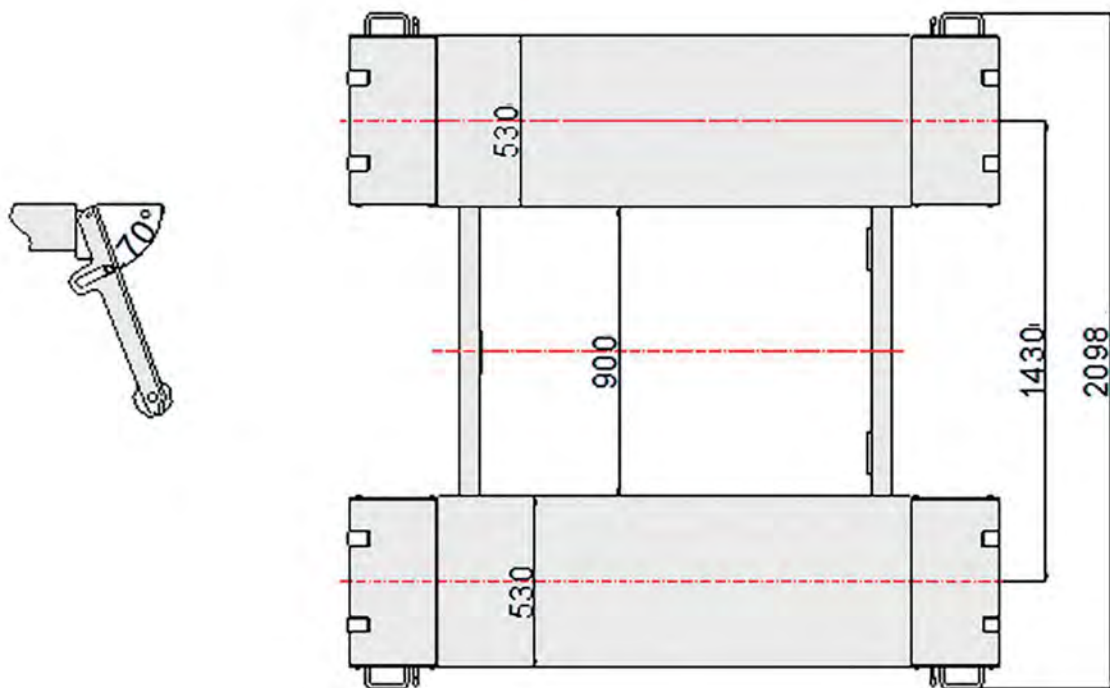
Load Capacity	3500 kg
Max. Lifting Height	1020 mm
Clearance Height	110 mm
Overall Length	2,150 mm
Usable Length of Platform	1,450 mm
Platform Width	530 mm each
Overall Width	2,098 mm
Inner Track Width	1,430 mm
Center-to-Center Axle Distance	900 mm
Ramp Angle	12°
Number of Hydraulic Cylinders	4
Voltage	230 V / single-phase
Motor Power	2.2 kW
Ramp Width	460 mm
Net Weight:	585 kg
Hydraulic Oil:	HLP 32 (ISO VG 32)



SCOPE OF DELIVERY

Before beginning assembly, check the delivery for completeness and transport damage. Report any damage to the supplier immediately—a damaged lift must not be put into operation.

- 2 platforms with scissors and cylinders
- Hydraulic power unit with control panel
- Hydraulic hoses, limit switch cables (pre-assembled)
- 4 ramps (A-D)
- 4 rubber pads (rubber blocks)
- Floor anchors for securing the platform
- Mobility kit (chassis with drawbar)
- Wrench for the power unit housing





BEFORE START-UP

FLOOR REQUIREMENTS

A level, horizontal concrete surface with sufficient load-bearing capacity. Installation in a pit is not required. The floor must be free of cracks, joints in the area of the base frames, and oil and grease residues.

INSTALLATION SITE REQUIREMENTS

Dimensions of the lift (L × W): approx. 2,150 × 2,098 mm, plus access ramps and power unit.

Provide sufficient clearance around the platform for the vehicle to drive on and off, as well as for operation and maintenance work.

Position the power unit so that the operator has a clear view of the lift's entire range of motion and so that the hydraulic hoses cannot be run over or kinked.

Ensure sufficient ceiling height for the raised vehicle (max. lift height 1,020 mm plus vehicle height).

ELECTRICAL CONNECTION

Mains connection: 230 V / 50 Hz, single-phase, via a properly installed and fused ground-fault circuit interrupter (GFCI) outlet.

Motor power: 2.2 kW. The circuit's fuse rating must be sufficient for this connected load; if in doubt, consult a qualified electrician.

REQUIRED EQUIPMENT AND TOOLS

ACCESSORIES / TOOLS	USAGE
Forklift or hoist with lifting slings (sufficient load capacity)	Lifting the platform off the transport frame
Triangular wrench (included)	Opening the unit housing
Circlip pliers	Removing and installing the retaining rings on the lifting flaps
6 liters of HLP 32 hydraulic oil (ISO VG 32)	Initial filling of the hydraulic tank
Funnel, clean rags, drip pan	Filling the oil, catching drips
Multi-purpose grease, brush	Lubricating the slide blocks

SETTING UP THE STAGE

Perform the following steps in the order listed. Each step builds on the previous one.

REMOVE PACKAGING

Carefully remove the stretch wrap, cardboard, and strapping. Do not insert any sharp tools too deeply to avoid damaging hydraulic hoses, cables, and the paint finish. (Fig. 1)

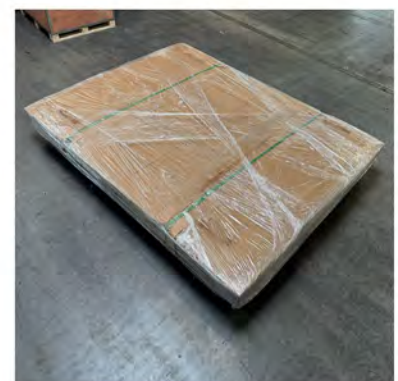


Fig. 1



REMOVE ACCESSORIES

Access ramps, rubber pads, the mobile kit, and floor anchors are located between the two platforms. Remove all parts and set them aside within easy reach but outside the work area. (Fig. 2)

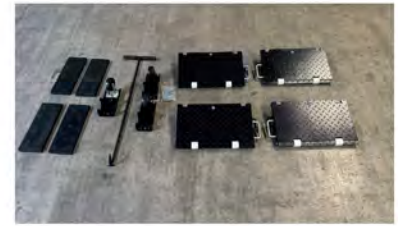


Fig. 2

LIFTING THE PLATFORM OFF THE TRANSPORT FRAME

Using a forklift or other suitable lifting equipment and lifting straps, lift the platforms evenly, remove them from the transport frame, and slowly lower them to the designated installation location. (Fig. 3)

- Attach the lifting slings so that the load cannot tip over or slip.
- Take care with the pre-installed hydraulic hoses and electrical cables: they must not be pinched, kinked, or crushed.
- Align the platform at its final installation location before proceeding with further connection work.



Fig. 3

! WARNING!

**Suspended load! Do not step under the raised platform.
Perform movements slowly and in a controlled manner.**

UNPACKING AND OPENING THE POWER UNIT

Unpack the hydraulic power unit, set it up securely near the platform, and open the housing using the supplied hex key. (Fig. 4)



Fig. 4

CONNECTING THE HYDRAULIC HOSES

Feed the four hydraulic hoses through the opening in the bottom of the unit from below and connect them to the ports on the valve block. (Fig. 5)

- Connect the hoses marked in red to the red-marked ports,
- Hoses marked in blue to the blue-marked ports.

Only the color matching is important (red to red, blue to blue); the order within a color is arbitrary. Hand-tighten the fittings and then tighten them with a suitable open-end wrench. (Fig. 6)



Fig. 5



Fig. 6



! CAUTION!

Do not remove the protective caps until immediately before installation, and ensure that no dirt enters the connections. Dirt can damage valves and seals.

CONNECTING THE LIMIT SWITCH

Connect the two electrical cables from the platform to the corresponding connectors in the power unit. The cables are labeled:

- HS to HS – Limit switch for maximum lifting height (Fig. 7)
- SL to SL – limit switch for the CE stop (safety stop during lowering), (Fig. 8)

Insert the connectors until you hear them click into place.

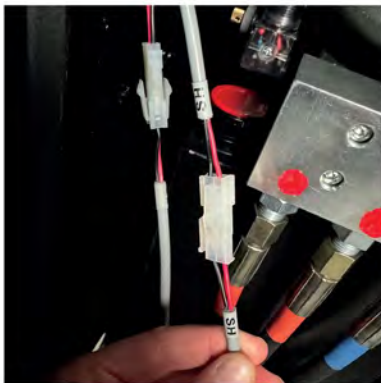


Fig. 7

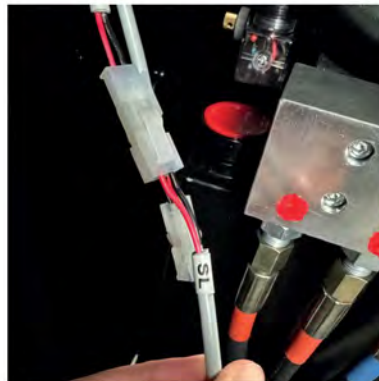


Fig. 8

! WARNING !

Reversed or unconnected limit switch cables will prevent the platform from stopping at the upper end position or at the CE stop. Be sure to check the connections before initial startup.

CONNECTING THE POWER CORD AND POWER PLUG

Feed the power cord out of the opening at the bottom of the power unit housing (Fig. 9). Then properly attach the 230-V grounded plug (Schuko) (Fig. 10) to the cord.



Fig. 9



Fig. 10

!! DANGER !!

Risk of death from electric shock! The power plug must be connected exclusively by a qualified electrician. Ensure that the ground wire (green-yellow) is connected correctly.



FILLING WITH HYDRAULIC OIL

Unscrew the **red screw cap** from the hydraulic tank (Fig. 11) and use a funnel to fill it with **6 liters of HLP 32 hydraulic oil** (Fig. 12).

After filling, screw the cap with the integrated dipstick back on and then remove it again (similar to checking the oil level in a car). Oil must be visible on the dipstick. Then screw the cap back on tightly.

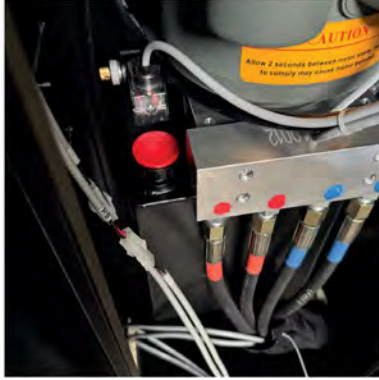


Fig. 11



Fig. 12

! CAUTION!

Use only clean HLP 32 hydraulic oil. Other viscosities or contaminated oil can lead to malfunctions and damage to the pump and valves. Immediately wipe up any spills with cleaning cloths.

CONNECT POWER AND RAISE THE PLATFORM

1. Plug the power cord into the outlet.
2. Turn the main switch to "I" (ON)—the green indicator light will illuminate.
3. Hold down the "up arrow" button and raise the platform slightly.

NOTE

Wait at least 2 seconds between two motor starts to prevent the motor from overloading.

! WARNING!

Before each lifting operation, make sure that no people or objects are within the platform's range of motion.

CHECK HYDRAULIC CONNECTIONS FOR LEAKS

Check all hydraulic connections for oil leaks—both at the power unit's valve block and at the hydraulic cylinder connections on the platform. Tighten any leaking fittings only when the platform is fully lowered and depressurized.

INSTALL ACCESS FLAPS

The four access flaps are hooked onto the front edges of the platforms. The flaps and platforms are marked with letters for clear identification: A to A, B to B, C to C, D to D.

1. Remove the retaining rings from the bolts on the ramp using retaining ring pliers, and pull out the bolts (Figs. 13, 14)
2. Position the ramp on the platform marked with the same letter (Fig. 15)
3. Slide the bolts through the flap and the platform mounting and secure them again with the retaining rings (Fig. 16)
4. Repeat the procedure for all four flaps and check that the retaining rings are securely in place.



Fig. 13



Fig. 14



Fig. 15



Fig. 16

LUBRICATE THE SLIDING BLOCKS ON THE BASE FRAME

Apply a thin, even coat of multipurpose grease to the sliding surfaces of the slide blocks in the base frame, on which the scissor rollers or sliding pieces run. This ensures smooth, even operation and reduces wear.

! WARNING !

Perform greasing work in the scissor area only when the main switch is turned off. Never reach into the scissor area when the platform is raised.

BLEEDING THE HYDRAULIC SYSTEM

Raise the platform completely three times and then lower it completely again. When the platform is at the bottom, hold the switch down for another 5 seconds. This removes any air from the hydraulic system and ensures that both platforms move in sync.

After bleeding the system, check the oil level on the dipstick again and top off with HLP 32 if necessary. Finally, close the power unit housing again.

NOTE

Jerky movements, uneven lifting of the platforms, or noises from the pump indicate residual air in the system. In this case, repeat the bleeding procedure.



OPERATION

! WARNING!

Read the safety instructions before operating the scissor lift; failure to follow these instructions may result in damage.

CONTROL PANEL

All controls are located on the top of the unit.



Fig. 17

CONTROL ELEMENT	LABELING	FUNCTION
Main switch	Rotary switch, red/yellow	Turns the lift on (I) and off (0). Turn to 0 in hazardous situations.
Indicator light	Green	Indicates whether the control unit is turned on.
Signal indicator	Red	Emits an audible warning signal during lowering when the platform is approximately 25 cm above the ground (CE stop).
Lift	Up arrow	The platform is raised as long as the button is pressed.
Lower	Down arrow	The stage will lower until it reaches the CE stop as long as the button is pressed.
Lowering from CE stop	Bottom button (arrow with floor symbol)	Lowers the platform completely from the CE stop to the end position.

RAISING AND LOWERING

1. Turn on the main switch—the green indicator light comes on.
2. Raising: Hold down the “Up Arrow” button until the desired working height is reached. When the maximum lifting height is reached, the limit switch (HS) automatically shuts off.
3. Lowering: Hold down the “Down Arrow” button. The platform stops automatically approximately 25 cm above the ground (CE stop).
4. Check the movement area: Make sure there are no feet, objects, or people under or next to the platform.
5. Lowering from the CE stop: Hold down the lower button—the signal tone will sound—until the platform is fully lowered.
6. Turn off the main switch when work is complete.

!! DANGER !!

The CE stop protects against pinching in the foot area. Do not lower the platform further until you have visually inspected the area under and next to the platform.



COMMISSIONING CHECKLIST

Before using the vehicle for the first time, check and mark off all items.

NO.	CHECKPOINT	OK
1	Installation site must be level, stable, and free of obstacles	
2	Delivery must be complete and free of shipping damage	
3	Hydraulic hoses connected with the correct colors (red/red, blue/blue)	
4	Limit switch cables correctly connected (HS/HS, SL/SL)	
5	Power plug connected by a qualified electrician; ground wire checked	
6	6 liters of HLP 32 added; oil level visible on the dipstick	
7	All hydraulic connections on the power unit and cylinders are tight	
8	All 4 access flaps (A-D) are correctly positioned; bolts and retaining rings are installed	
9	Slide blocks on the base frame greased	
10	Hydraulic system bled by performing 3 complete raise/lower cycles; oil level rechecked	
11	Upper limit switch (HS) functions properly	
12	CE stop and signal transmitter are functioning (stop approx. 25 cm above the ground)	
13	Both platforms raise and lower evenly	
14	Main switch, indicator light, and all push buttons are functioning	
15	Operator trained in operation; manual provided	

At the end of the operating instructions, you will find a form for documenting proper commissioning.

DRIVING ONTO THE SCISSOR LIFT

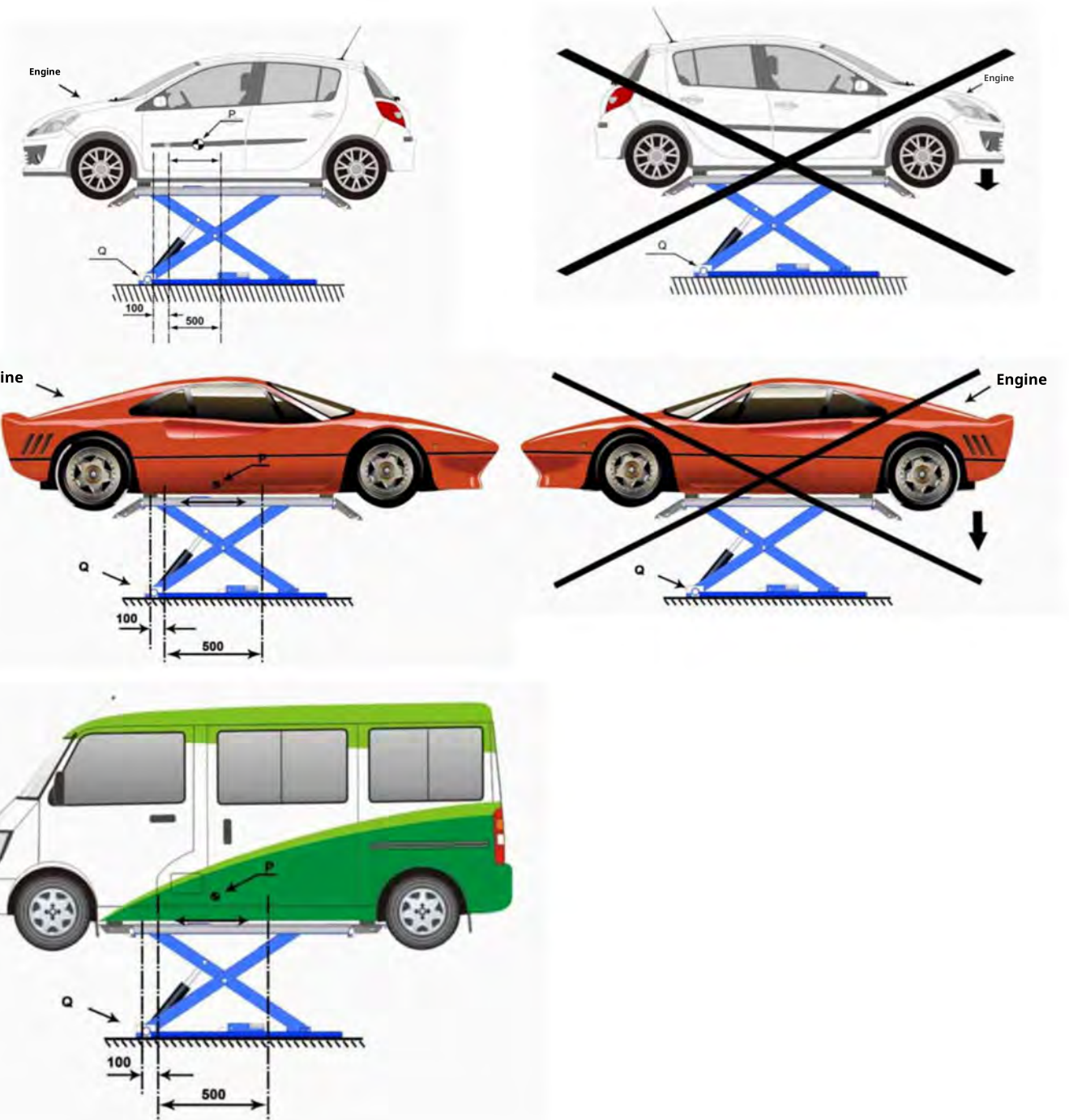
To drive onto the platform, lower it all the way down and make sure no one is near the platform.

LOADING POINTS

The vehicle must be supported with 4 rubber blocks. The rubber blocks must be positioned as specified by the vehicle manufacturer.

Some vehicle manufacturers mark their vehicles with a triangle on the side sill. A label on the driver's door or the owner's manual may also indicate the correct lifting points. For special vehicles, contact the vehicle manufacturer to determine the lifting points. Failure to follow these instructions may result in damage to the vehicle.

The heavier section of the vehicle must be driven onto the scissor lift as shown below.





INSTRUCTIONS FOR LIFTING VEHICLES

Raise the vehicle until the wheels are off the ground.

Check that the vehicle is securely supported at the lifting points specified by the manufacturer.

Now lift the vehicle to the desired working height or the upper limit switch.

If the platform is tilted due to an uneven load, ensure that it is leveled when lowering. If necessary, lift the vehicle again and lower it once more.

Before lifting pickup trucks and vehicles with ladder frames, verify that:

- the vehicle frame is strong enough and has not been weakened by modifications or corrosion
- the vehicle can be lifted at the mounting points specified by the vehicle manufacturer
- the vehicle can be securely and stably supported

INSTRUCTIONS FOR LOWERING VEHICLES

Before lowering the platform, make sure that there are no objects or people in the work area (danger zone).

The vehicle may only be lowered when the platform is fully lowered.

Before driving the vehicle down, fold down the access ramps and remove the rubber blocks.

Follow the safety warnings. Repairs must only be performed by authorized qualified personnel!

CHANGING LOCATIONS

If you wish to move the platform to another location, first raise the scissor lift to approximately 500 mm. No vehicle may be on the scissor lift.

Attach the mobile kit: a handle and one swivel caster in the front center, and two fixed casters in the rear.

Now lower the platform to its lowest position; the base plates will rise.

The platform can now be moved using the mobility kit.

Once the platform is in the desired location, raise it to approximately 500 mm.

Remove the mobility kit and lower the scissor lift all the way down again.



MAINTENANCE

Only qualified personnel may perform maintenance. Any operating error can result in property damage, injury, or death.

REGULAR

- Tighten the screws at regular intervals.
- Keep the scissor lift and mobile unit clean and clean them regularly.
- Inspect cables and moving parts for wear. Replace worn or damaged parts only with genuine replacement parts.

If you notice that an oil line is leaking, contact authorized service personnel.

MONTHLY

- Lubricate all joints and locks.
- Lubricate all 4 scissor bearings with bearing grease.
- Check the hydraulic fluid level and top it off if necessary.
- Check that the safety latches are synchronized: The latches should click simultaneously without a load.
- Check the hose connections for leaks.

EVERY 6 MONTHS

- Check the oil level and top it off if necessary.
- Check that warning labels are present and legible; if not, replace them.

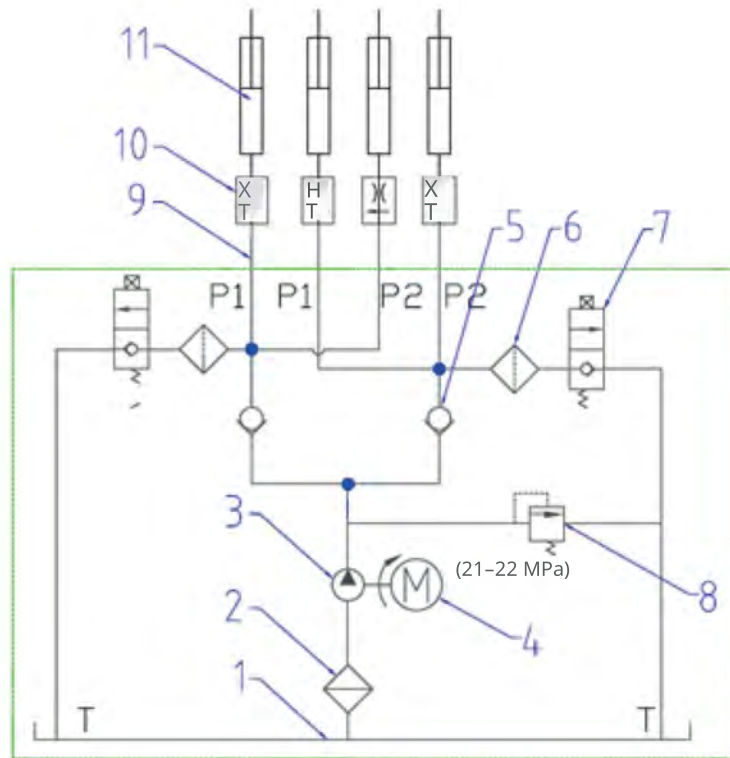
MAINTENANCE OF PAINTED SURFACES

The paint protects the metal parts. To ensure the long-term protective effect of the lift's paint finish, it is essential to keep the lift clean and perform regular maintenance.

Special attention must be paid to the base frame and lifting boom, for which the following maintenance tasks are required:

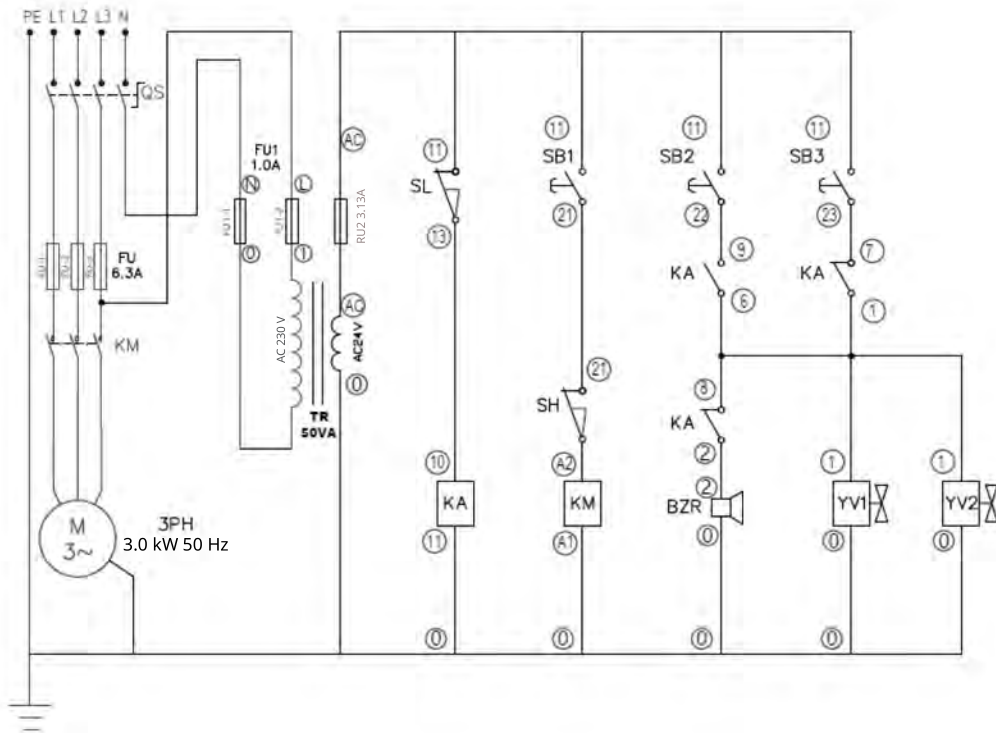
- Touch up any scratches that damage the paint coating.
- Painted surfaces must be cleaned immediately if they come into contact with battery fluid, brake fluid, or other highly corrosive liquids.
- After using the lift, remove any water from it—especially during the winter months (due to the presence of salt)—and clean the surfaces of any dirt deposited there by the vehicle: gravel, dirt, tar, salt, and other substances. The surface has a powder-coated finish and should only be treated with neutral cleaning products. Therefore, please do not use harsh cleaners or a high-pressure washer.

HYDRAULIC DIAGRAM



11	cylinder	4	JP16-07000-D00	
10	flow control valve	4	IFC-6T-03	3.0L
9	hose	4	JP16-1200-D00	
8	relief valve	1	BZ01-04-005	21-22 MPa
7	unloading valve	2	DHF08-220	24 V
6	mesh	2	250 cells	
5	non-return valve	2	BZ01-04-007	25 L/min
4	AC motor	1	3-phase 400V 2.2 kW	
3	Gear pump	1	CBK-2.1	1.0 cc/r
2	mesh	1	250 cells	
1	oil tank	1	6.0 L	
No.	Description	Qty.	Specification	Remark

ELECTRICAL SCHEMATIC



No	Symbol	Description	Qty	Type	Remark
1	QS	Power Switch	1	LW26-20	
2	FU	fuse	3	6.3A	
3	TR	transformer	1	NDK50 230V/24V	
4	FU1	fuse 1#	2	1.0A	
5	BZR	Buzzer	1	AD56-22SM	
6	SB1	button switch	1	Y090	black
7	SB2	button switch	1	Y090	black
8	SB3	button switch	1	Y090	black
9	KM	AC contactor	1	NC1-0910-24VAC	
10	YV1, YV2	electromagnetic valve	1	24VC	
11	M	AC motor	1	3PH/400V/50Hz/2.2 kW	
12	SH, SL	limit switch	2	XCKN2145P20/5A	
13	KA	intermediate relay	1	MY2N-GS 24V	
14	FU2	fuse2#	1	3.15A	



SPARE PARTS LIST DOWNLOAD

You can download the latest spare part drawings and overviews here:



If you do not have a QR code scanner, you can also enter the following link into your web browser:

https://www.hebeuehne24.de/download/ersatzteilliste_trusters_elvt3350.pdf

CUSTOMER SERVICE

Monday through Friday: 8:00 a.m. to 4:00 p.m.

If you can't find the right spare part or have other questions, we'd be happy to assist you:

- **Service Hotline: +49 8373 999910**
- **WhatsApp Service: +49 152 58135975**

DISPOSAL

When the lift's service life has ended and it is no longer operational, it must be rendered inoperable by draining the hydraulic oil.

These units are classified as hazardous waste and should be disassembled and disposed of in accordance with current regulations and guidelines. If the packaging does not contain hazardous substances and is not biodegradable, it must be disposed of appropriately.

Module B EU Type-Examination Certificate
For the requirements of Machinery Regulation (EU) 2023/1230



Certificate No.: CE-MC-260129-014-10R-5A

Manufacturer: Shanghai Kernel Auto-Equip Manufacturing Co., Ltd.
No.3-2, Lane 666, Yewang Road, Yexie Town, Songjiang District, Shanghai,
China 201609

Product: Scissor vehicle lift
Detailed equipment description listed in the Annex

Model(s): JP16DS

Applicable Standard(s): EN ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction
EN 60204-1:2018 Safety of machinery - Electrical equipment of machines - Part 1: General requirements
EN 1493:2022 Vehicle lifts

The product(s) on this certificate and the Technical File have been assessed and found to be in conformance with the Annex VII (Module B) and the applicable Essential Health and Safety Requirements in Annex III of the Machinery Regulation (EU) 2023/1230.

The manufacturer has the responsibility for ensuring that all future serial manufacture of the product conforms to the sample submitted for Type-Examination referenced above.

Any changes to the design, manufacturing location or manufacture of the product certified here must be advised to CCQS Certification Services Limited for review.

The manufacturer is entitled to affix the CE Marking in this form **CE 2834** while the certificate remains current and valid.

CE marking shall not be applied unless and until the manufacturer has fulfilled all applicable requirements of all relevant EU Regulations and/or Directives and issued the EU Declaration of Conformity.

This certificate has been issued by and remains the property of CCQS Certification Services Limited and may be withdrawn or suspended at any time if it is considered that the product(s) is no longer in conformity with the requirements of Machinery Regulation (EU) 2023/1230.

Date of Issue (Current):
2026-08-06

Valid From:
2026-08-06

Valid Until:
2031-08-05

Owen Bian - Director

Approved by
Ireland Government
as a Notified Body (No.2834)
for CE marking



CCQS Certification Services Limited

Block 1 Blanchardstown Corporate Park, Ballycoolin Road,
Blanchardstown, Dublin15, D15 AKK1, Ireland

Tel: +00 353 1 588 6920

Website: www.ccqs.com

E-mail: info@ccqs.ie

If in any doubt about the integrity of this certificate,
please email verify@ccqs.ie or verify [online](http://www.ccqs.ie)

Certificate No.: CE-MC-260129-014-10R-5A

Product: Scissor vehicle lift

Model reference: JP16DS

Description: Dual platform chassis supporting scissor vehicle lift with one side load bearing platform extension, dual oil circuit supporting system
Capacity: 3500kg
Power voltage: 230V AC, 1Ph, 50Hz; 400V AC, 3Ph, 50Hz
Power: 2.2kW
Lifting height: 110-1020mm

Technical file no.: TF-CE-MC-260129-014

Revision History

A Original issue

2026-08-06



CERTIFICATE OF INITIAL COMMISSIONING OF THE LIFT

ATTENTION

To maintain warranty coverage, the fully completed proof of initial commissioning must be returned to the manufacturer.

BY SIGNING, YOU CONFIRM THAT:

- the scissor lift has been properly unpacked and transported to the installation site
- the operating instructions have been read and understood
- the scissor lift has been set up on level ground
- the electrical connection was properly established
- the preparatory steps prior to commissioning were properly carried out
- The hydraulic oil has been topped off

No defects were found. There are no concerns regarding commissioning.

Scissor lift, model _____, year of manufacture _____, serial no. _____

Date of purchase _____, Dealer address _____

Date: _____ Signature: _____

Operator's address

Send the form by fax to +49(0) 8373 9999199,
, or by email to mail@trusters.com

REMO Hebebühnen GmbH

**Messerschmittstraße 10
87437 Kempten**



REMO Hebebühnen GmbH
Messerschmittstraße 10
87437 Kempten

Germany

Phone.: +49 (0) 8373 999910
Fax: +49 (0) 8373 9999199

mail@trusters.com
www.trusters.com



WHATSAPP SERVICE

+49 152 58135975
(Mon.–Fri. 8:00 am –16:00 pm)