SCHEREN-HEBEBÜHNE

TWSA-50U-G

(Load capacity: 5000 kg)

INSTALLATION, OPERATION AND MAINTENANCE

Lesen Sie diese Betriebsanleitung sorgfältig durch, bevor Sie die Hebebühne in Betrieb nehmen! Befolgen Sie die Anweisungen genauestens.

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Additional appendix:

- **Operating instructions for lifting platforms**
- **Inspection log for lifting platforms**
- **EU declaration of conformity**

Important information:

ASSEMBLY

The assembly video for this lifting platform
can be found on YouTube:
https://youtu.be/5ncdJUhmLsg
or scan the QR code.

PRODUCT PRESENTATION

The product presentation video for this lifting platform can be found on YouTube:
https://youtu.be/-qLoNgPSgHk
or scan the QR code.

TIPS & TRICKS

In the "Tips & Tricks" section, we show you simple solutions in videos to help you work even more efficiently with your TWIN BUSCH® products. Our technical specialist explains the exact steps to take.

https://www.twinbusch.de/shop_content.php?coID=900&vcategory=4

24/7 Service Centre:

Our 24/7 Self-Service Centre is a mobile website for self-diagnosis in case of problems with your TWIN BUSCH® lift, tyre changer or wheel balancer. There we offer you an extensive video collection covering a wide range of topics relevant to your TWIN BUSCH® product, from fine tuning and maintenance to the replacement of components.

The 24/7 Self-Service Centre is a versatile tool that helps you learn how to maintain and repair your TWIN BUSCH® lift, tyre changer or wheel balancer yourself.

To open the page on your mobile device, please visit twinbusch.com/qr or scan the QR code opposite.

For TWIN BUSCH® lifting platforms delivered from mid-2020 onwards, you will also find the QR code on a sticker on the control box.

1. General

The TWSA-50U-G ramp scissor lift is designed for flush-floor installation and features an integrated wheel-free lift and a joint play tester.
The integrated wheel-free lift, with an extension of up to 2200 mm, allows the entire vehicle to be lifted up to 4000 kg (car) with all four wheels.

Furthermore, the TWSA-50U-G has running rails in the tracks, which allows the use of an additional axle jack for lifting vans.

The rear swing plates (with pneumatic fixation) and front recesses for the turntable included in the scope of delivery enable a very flexible range of applications from small to large wheelbases. In addition, the lifting platform is equipped with integrated LED lighting on both sides of the track. The joint play tester is included in the scope of delivery and is controlled via a radio remote control integrated into the LED hand lamp.

A locking system is available for wheel alignment, which enables safe positioning in the safety locks and is therefore also ideal as an acceptance platform or headlight testing station.

**Only vehicles ≤ 3.5 t may be tested with the joint play tester.*

Special features of the product:

- 1A workmanship with CE certificate for UVV approval
- Production in accordance with ISO 9001
- CE stop and warning tone when lowering
- Hydraulic synchronisation control
- IR SYSTEM synchronisation monitoring via light barrier
- Wheel-free lift with extendable vehicle supports up to 2200 mm and 4 t load capacity
- Running rails for use with axle lifts
- Includes joint play tester with LED hand lamp and radio control
- Automatic safety locking and unlocking (compressed air required)
- Track with roll-off protection
- LED lighting options on the lift
- Hose package 3000 mm
- Compressed air of 4-8 bar is required

ACCESSORIES

We recommend the following accessories from our shop to go with this lifting platform
accessories such as drive-on ramps or rubber blocks.

https://www.twinbusch.de/product_info.php?products_id=1711#horizontalTab7

2. Identification of the operating instructions

Operating instructions TWSA-
50U-G fromTWIN BUSCH®
GmbH

Ampèrestraße 1
D-64625 Bensheim

Telephone: +49 6251-70585-0
Fax +49 6251-70585-29
Website: www.twinbusch.de
Email: info@twinbusch.de

Status: -05, 02.12.2025

File: TWSA-50U-G_Scissor lift_Operating instructions_en_05_20251202.pdf

3. Technical

Load capacity CE	5,000 kg
Load capacity of the wheel-free lift	4,000 kg
Max. lifting height (with wheel carrier)	2130 mm
Max. lifting height (wheel carrier only)	410 mm
Lifting time	Approx. 25 sec. (3.5 kW x 2.3 ph)
Lowering time	approx. 30 sec. (adjustable)
Drive voltage	400 V / 3 phases
Drive power	2.2 kW
Fuse	16 A
Net weight	2845 kg
Axle load of the joint play tester	4000 kg
Wheel load of the joint play tester	2000 kg
Thrust force (longitudinal and transverse) of the joint play tester	11 kN
Speed (longitudinal and transverse) of the joint play tester	60 mm/s
Movement per side	50 mm

4. Modification of the product

Improper use, as well as modifications, conversions and additions to the lifting platform and all its components that have not been agreed with the manufacturer, are not permitted. The manufacturer accepts no liability for improper installation, operation or overloading. Improper use will also invalidate the CE certification and the validity of the expert opinion.
If you wish to make any changes, please contact your dealer or the expert staff at TWIN BUSCH® GmbH in advance.

5. Safety-related information

Read the operating instructions carefully before putting the lifting platform into operation. Keep the instructions for future reference. Follow the instructions carefully to achieve the best performance from the machine and to avoid damage caused by personal negligence.

Thoroughly check all connections and components for damage. The lifting platform may only be put into operation if it is in a safe operating condition.

5.1. Safety instructions

- Do not install the lifting platform on an asphalt surface.
- Read and understand the safety instructions before operating the lifting platform.
- Under no circumstances leave the control unit while the lifting platform is in motion.
- Keep your hands and feet away from moving parts. Pay particular attention to your feet when lowering the platform.
- The lifting platform may only be operated by trained personnel.
- Unauthorised persons are not permitted in the vicinity of the lifting platform.
- Wear suitable work clothing.
- The area around the lifting platform should always be kept free of obstructions.
- The lifting platform is designed for lifting/hoisting motor vehicles that do not exceed the permissible maximum weight.
- Before entering a raised vehicle or using the lifting platform for the HU (PTI), a special risk assessment must be carried out. Special equipment must be used to access the raised vehicle.
- Always ensure that all safety precautions have been taken before working near or under the vehicle.
- Never remove safety-related components from the lifting platform.
- Do not use the lifting platform if safety-related components are missing or damaged.
- Under no circumstances move the vehicle or remove heavy objects from the vehicle that could cause significant weight differences while the vehicle is on
  on the lifting platform.
- Always check the mobility of the lifting platform to ensure its performance. Ensure regular maintenance. If any irregularities occur, stop using the lifting platform immediately
  working with the lifting platform and contact your dealer.
- Lower the lifting platform completely when it is not in use. Do not forget to disconnect the power supply.
- If you are not going to use the lifting platform for a longer period of time, then:
  a. Disconnect the lifting platform from the power source
  b. Empty the oil tank
  c. Lubricate the moving parts with lubricating oil/grease

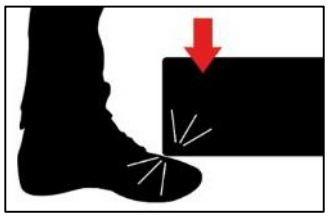
Caution: To protect the environment, dispose of used oil in the prescribed manner.

5.2. Warnings and symbols

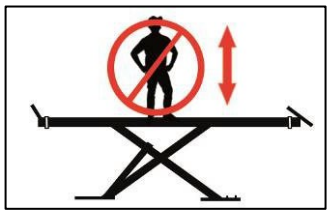
All warning notices are clearly visible on the lifting platform to ensure that the user operates the device in a safe and appropriate manner.
The warning signs must be kept clean and replaced if they are damaged or missing. Please read the signs carefully and memorise their meaning for future use.

Read the instructions and safety information carefully before use!

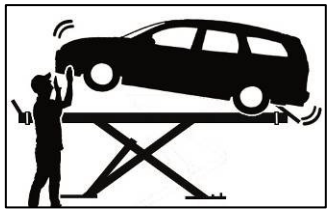
Repairs and maintenance may only be carried out by qualified personnel; never disable safety devices!



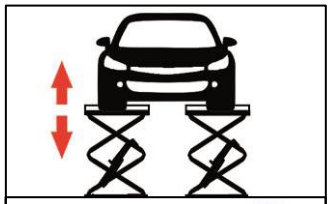
Watch your feet when lowering!
Risk of crushing!



Do not stand on the tracks when lifting or lowering!

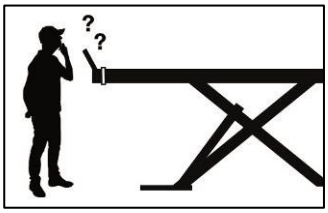


Avoid shaking the vehicle vigorously!

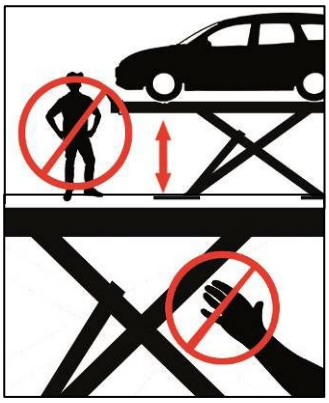


Ensure that both platforms are at the same height when the safety catches are engaged.

Protect the lifting platform from moisture and contamination!



The lifting platform may only be operated by qualified personnel!

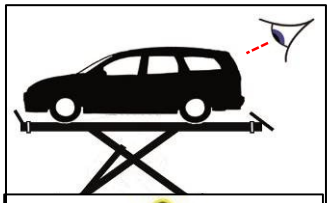


No persons are allowed to stand under the lifting platform (during lifting and lowering)!

Risk of crushing when lifting and lowering!

Do not exceed the specified load capacity!

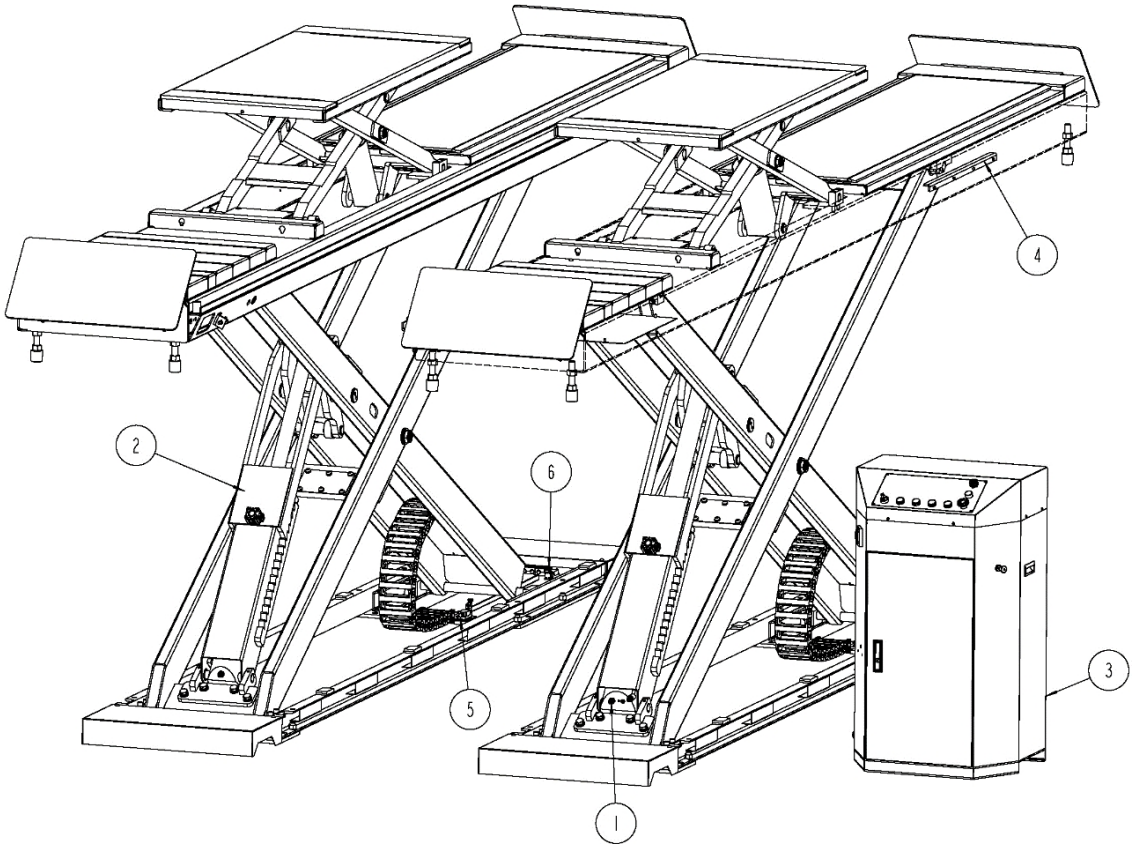
Distribute the vehicle weight evenly across both platforms!



After briefly lifting, check that the vehicle is securely seated!

CAUTION!
Electrical voltage!

5.3. Safety devices



S/N	Safety device	Function
1	Throttle valve	Protects the platform from lowering too quickly in the event of a leak in the hydraulic circuit.
2	Mechanical safety lock	The safety lock is a catch device that prevents unwanted lowering.
3	24 V control voltage	The control voltage protects the operator from dangerous high voltage.
4	Protection against tipping over	Protects the platform with wheels from tipping over.
5	Limit switch for the maximum height of the main lifting platform	Limits the maximum rise by switching off the control circuit to ensure that the platform stops rising at maximum lifting height.
6	Limit switch for safe lowering	Safety device that stops movement to protect feet. The lift automatically stops lowering at a safe height above the ground. Press the "DOWN II" button again to restart the lowering movement. An acoustic warning signal sounds to indicate that you should keep away from moving parts.

5.4. Possible safety risks

5.4.1. Mains voltage

Damaged insulation, crushed cables and other faults can cause accessible components to become live.
All cables and wires must be checked for damage before commissioning!

Safety measures:

- Only use the supplied power cable or a tested power cable.
- Replace cables/wires with damaged insulation.
- Do not open the control unit.

5.4.2. Risk of injury/crushing

If the lift is used with vehicle weights exceeding the permissible load capacity, if the vehicle is not correctly positioned on the lift, or if heavy objects are removed from the vehicle, there is a risk that the vehicle may fall off the lift or tip over.

Safety measures:

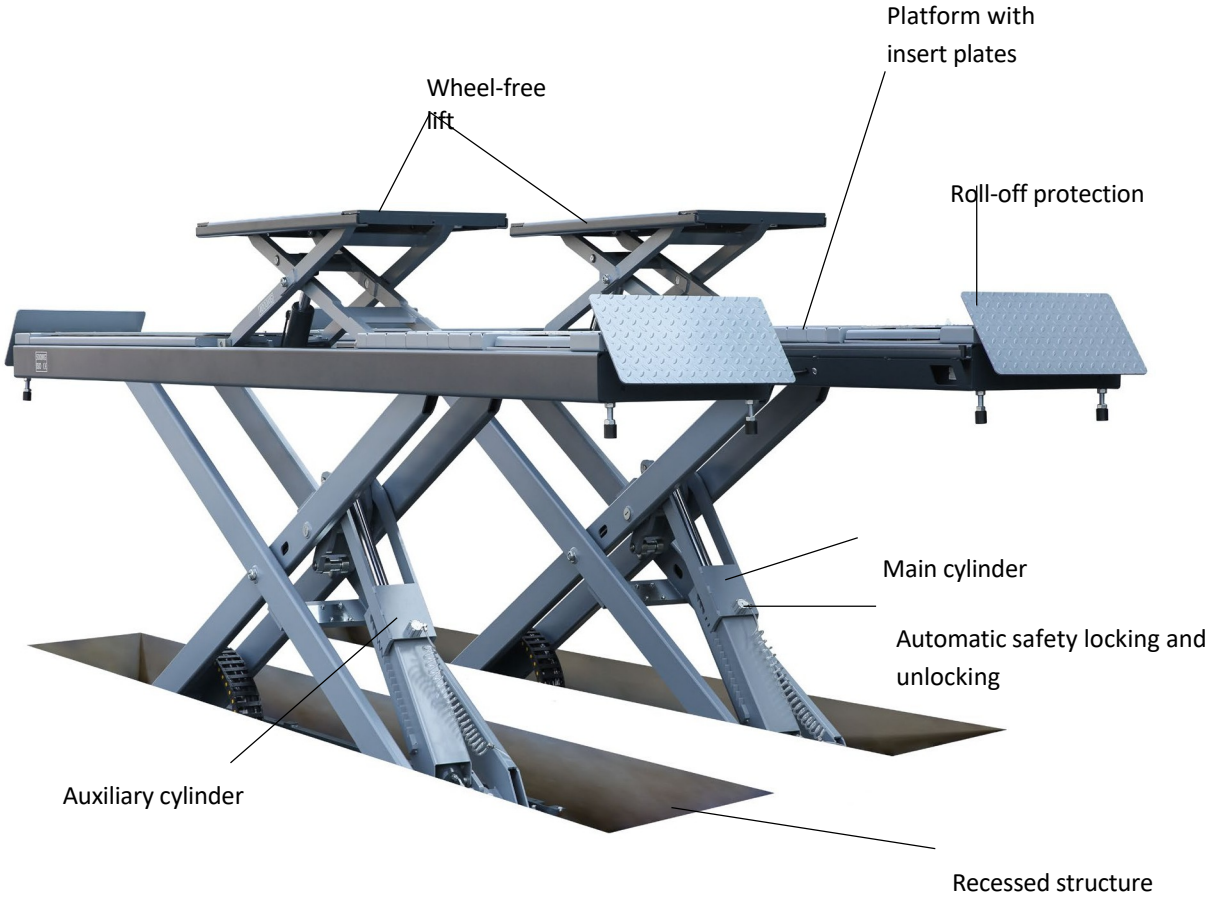
- The lifting platform may only be used for its intended purpose.
- Read the operating instructions carefully to understand all necessary information and observe safety measures.
- Observe the warnings for operation.

6. Compliance with the product

The TWSA-50U-G scissor lift is CE certified and complies with the Machinery Directive 2006/42/EC, meeting the standards EN 1493:2022 and EN 60204-1:2018 (see: EU Declaration of Conformity at the end of the operating instructions).

7. Technical specifications

7.1. Machine description



8. Lifting platform structure

8.1 Before installation

Required tools and equipment:

- Suitable lifting equipment (e.g. forklift truck)
- Hammer, lifting strap
- Phillips and flathead screwdrivers
- Adapter for quick-release lever/ratchet
- Set of Allen keys
- Torque wrench
- Spanner sockets and open-end spanners
- Drill
- HLP 32 hydraulic oil

8.2 Completeness of all components

Unpack all components of the lifting platform and check that all components are present using the packing list (see appendix: packing list).

8.3 Ground conditions

The lifting platform must be installed on a solid foundation with a compressive strength of more than 3 kg/mm², a flatness of less than 5 mm and a minimum thickness of 250 mm.
Detailed information can be found in Chapter 15.3 Foundation requirements and working area and also on our website at www.twinbusch.de.

Note: If a new concrete floor is to be poured, it must be left to rest for at least 28 days before a lifting platform can be installed.

8.4 Assembly instructions

1) Place the lanes in their future position.
   Note: Ensure that there is sufficient space, both in width and height, and that the ground is level and stable.

2) Open the wooden box and remove the switch box. Read and understand the operating instructions before you begin assembly.
   Inside the switch box, there are additional small parts that you can set aside for now.

3) Remove the packaging film from the tracks.

4) Remove the turntables and set them aside.
   Note: One track contains additional small parts, which you should remove and set aside during this step.

5) Align the tracks precisely. Place boards underneath them to protect the floor when you later lower them.

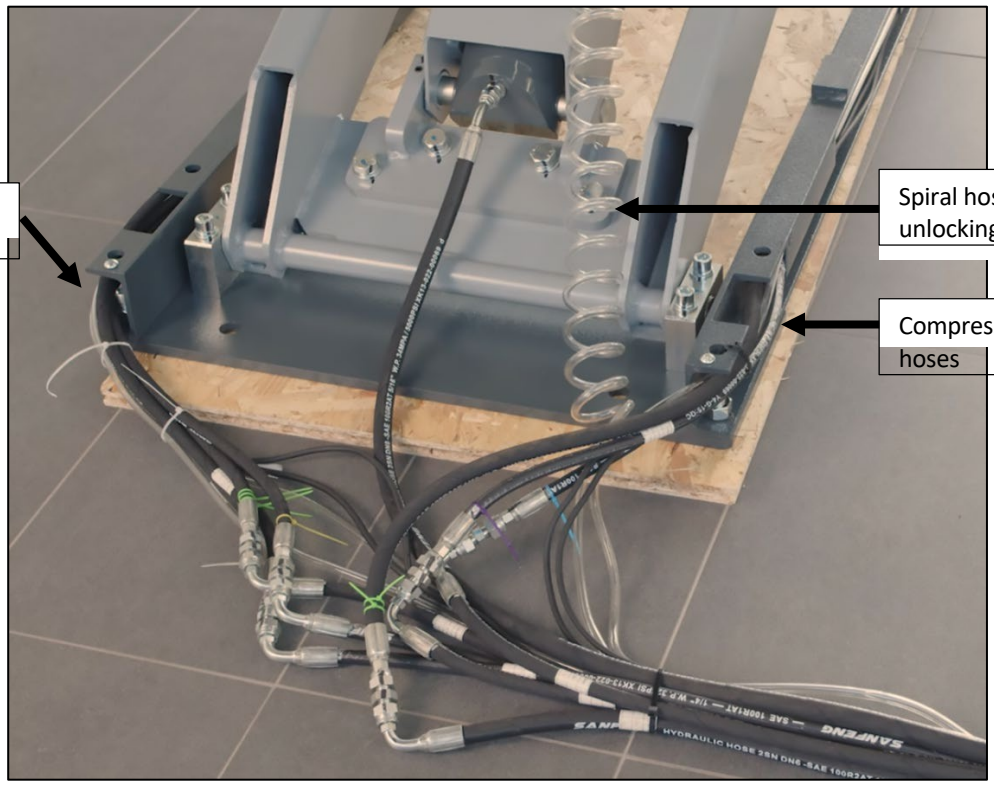
6) Remove the transport straps and all packaging material.
   Caution: The scissors will suddenly lower from the track! Do not reach under the lifting platform during this step.

7) Move the switch box to its future location.

8) Remove the cable ties from the cables on both sides of the track.

9) Route the cables from the assistant side over to the main side.
   Note: Tie the cables together with a cable tie to ensure they are neatly routed.

10) Connect the hydraulic lines under the main carriageway according to their colour and number of cable ties.
    Note: During the entire installation process, check all connections to ensure they are secure and correctly screwed together.



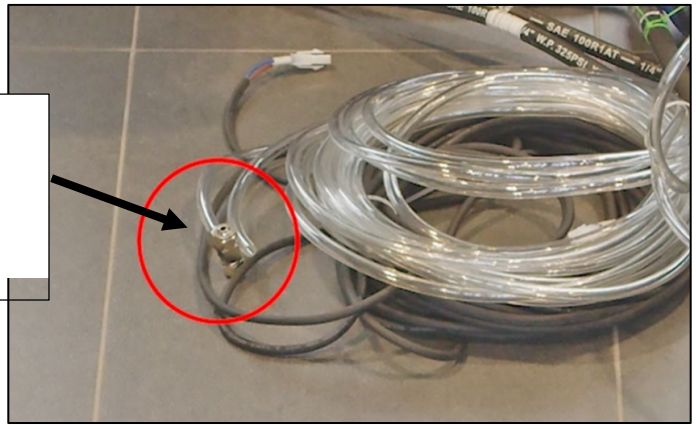


Illustration: Hoses from main page

Four compressed air hoses run out of the roadway. The spiral hose in the centre is used for unlocking. One of the other hoses is equipped with a pre-assembled T-piece. The hose supplies the optional axle jack with compressed air and is routed into the control box together with the other lines. However, it is only connected to the compressed air supply when required.
The other two hoses are intended for locking the swing plate. With the exception of the hose for the axle jack, which is routed directly to the switch box, all other hoses are connected on the main side.

11) Three compressed air hoses lead out of the road surface on the main side. The spiral hose is connected to the hose on the assistance side via a T-piece. The two remaining hoses are connected to the two hoses on the assistance side to lock the vibrating plate. Note: It does not matter which hoses are connected to which T-piece at first. You can use the compressed air to check the hoses again later and correct the connections if necessary.

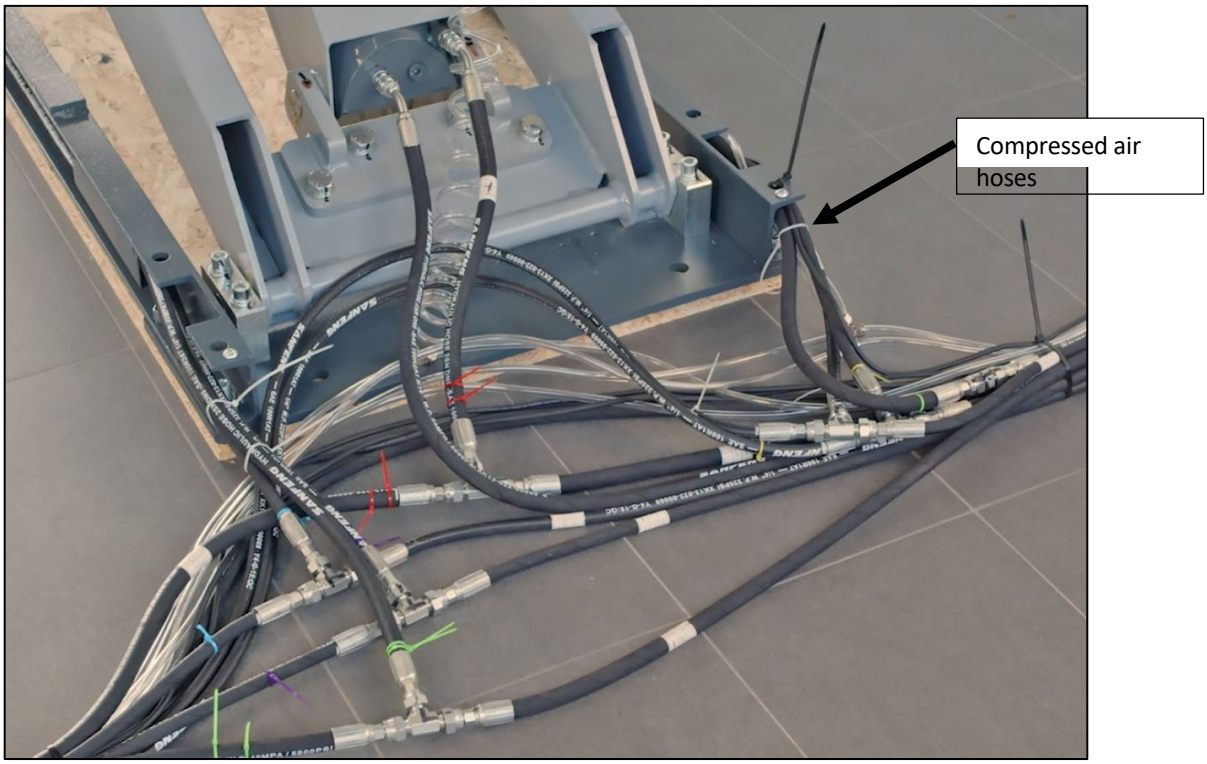


Illustration: Hoses on the assistant side

12) Open the switch box.
Note: To make it easier to work on the switch box, remove the door for the duration of the installation.

Illustration: Removing the switch box door

13) Remove the magnetic coils from the switch box.
Note: Mark one of the coils with a cable tie so that you know where to reinstall it later.

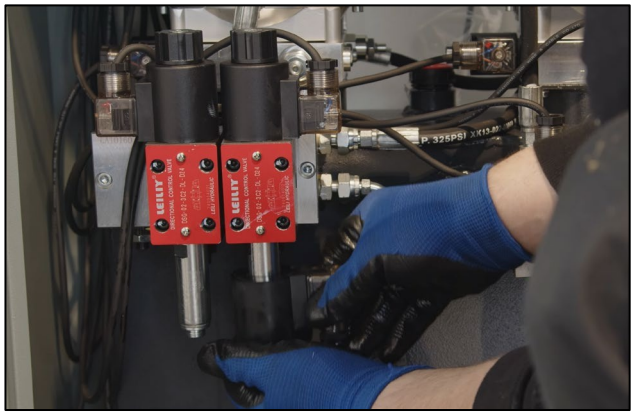
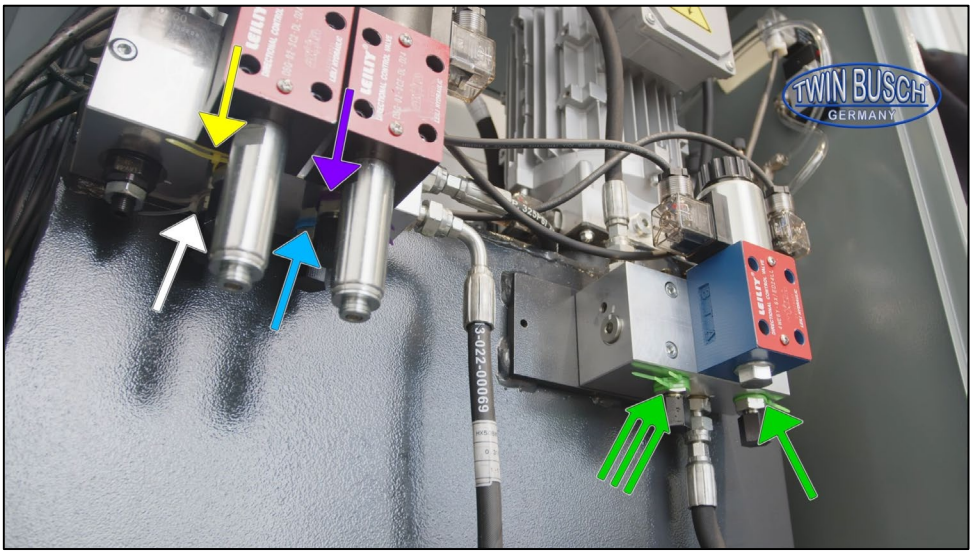


Illustration: Removing the magnetic coil

14) Connect the hydraulic hoses according to the number and colours of the cable ties.
The front hoses are also connected according to this principle. Then reinstall the magnetic coils that were previously removed.



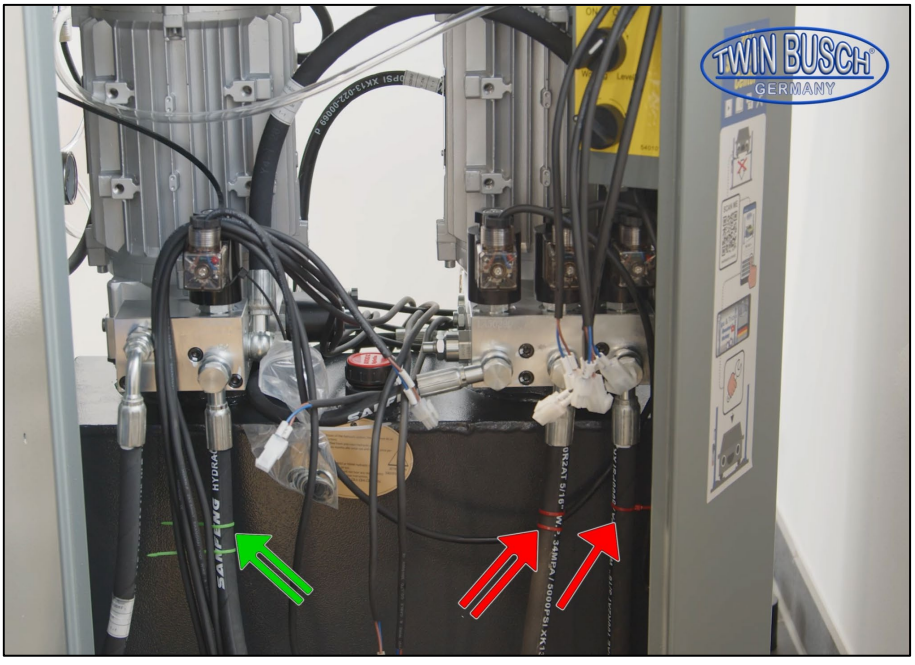


Figure: Connecting hydraulic hoses

15) Connect the cables to the front of the switch box according to the numbering. Caution: When connecting the plugs, make sure that the pins inside are not bent or pushed out. This can easily happen!

Illustration: Pins inside the plugs

16) Filling the hydraulic system
The hydraulic oil tank has a capacity of approx. 20 litres. To ensure proper operation of the lifting platform, you should fill the oil tank to 80% capacity with hydraulic oil.
Hydraulic oil type: HLP 32.

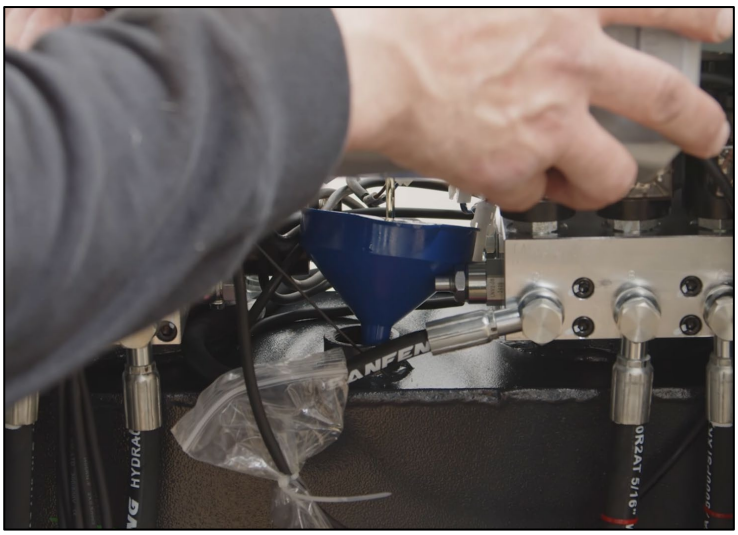


Illustration: Filling with HLP 32

Caution: The dipstick does not provide a reliable indication of the hydraulic oil level in the multi-tank.

17) Switch on the lifting platform and raise it for the first time.
Note: Before raising the platform for the first time, make sure that all hydraulic connections are tightened securely!

18) Once fully extended, you can now remove the transport frames.

19) Set the switch box to axle jack and raise and lower it once to vent it.

20) Connect the lifting platform to the compressed air supply to enable unlocking.

a) Connect the two hoses for locking the swing plates to the corresponding connections.
Note: The connections are located above the two switches at the front right of the switch box.

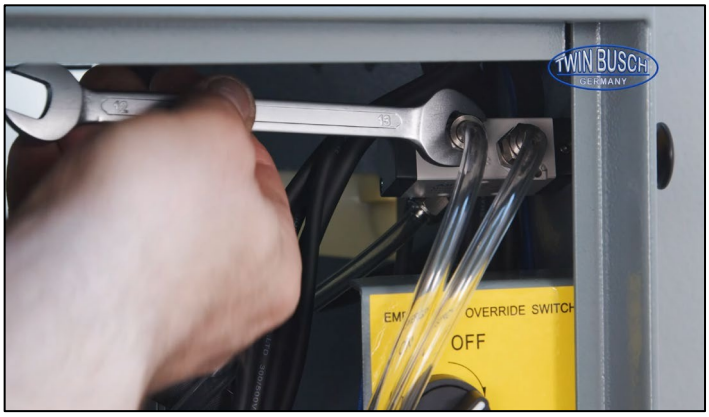


Illustration: Connecting the hoses for locking the vibrating plates

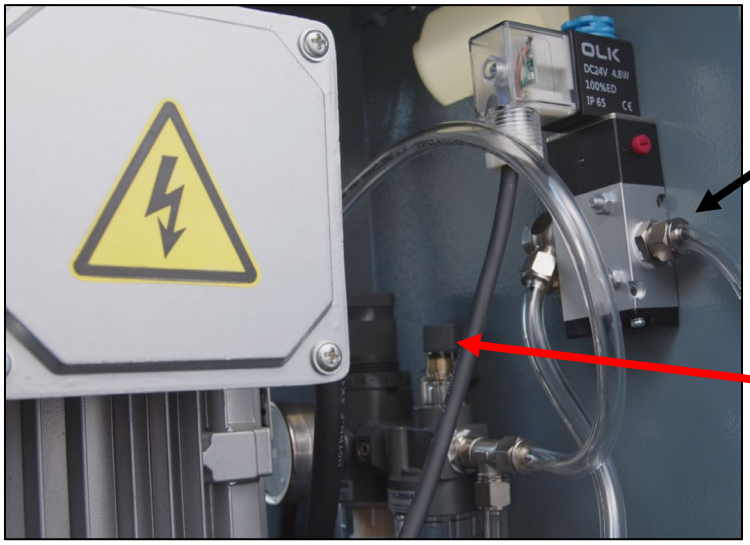


Illustration: Compressed air connection

21) Remove the transport screws from the vibrating plates.
Then test whether the locking mechanism of both swing plates is working properly.

22) Check whether the sliding plates on both sides lock and unlock simultaneously when the pull knob on the lifting platform is moved.
Note: If this is not the case, swap the two compressed air lines between the auxiliary and main sides.

Then check whether both vibrating plates can be unlocked by pulling out the pull knob.
Note: If this is not the case, you must swap the two lines in the switch box.

23) Installation of the crossbar between the lanes
   a) First, lightly tighten the fastening screws on one side of the lane.
   b) Hook in the crossbar and tighten the screws on the other side.
   c) Now tighten the screws on the pre-assembled side as well.

Illustration: Mounting crossbars

24) Assembly of the roll-off guard
   a) Remove the retaining rings and retaining bolts.
   b) Fit the roll-off guard and secure it with the retaining bolts.
   c) Then replace the retaining rings.

25) Attach the covers to the lower end of the tracks.

Illustration: Covers

26) Insert the supplied feet into the tracks and align them. Note: The feet allow the tracks to be adjusted precisely to the surrounding floor surface during underfloor installation.

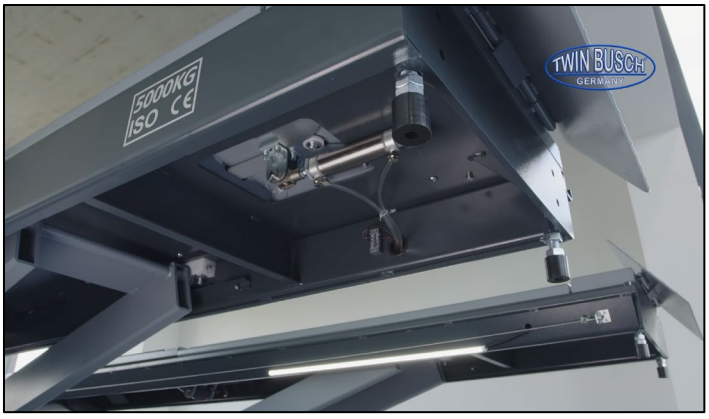


Illustration: Mounted feet

27) Install the bracket for the remote control of the joint tester.
   a) Feed the connection cables for the charging device into the switch box.
   b) Screw the bracket onto the outside.
   c) Connect the cables from the bracket to the two upper sockets in the switch box.

28) Fill the tank with the remaining 20% of hydraulic oil. Then reattach the doors of the switch box.
Note: For above-ground installation, you can additionally protect the open cables with optional cover plates.

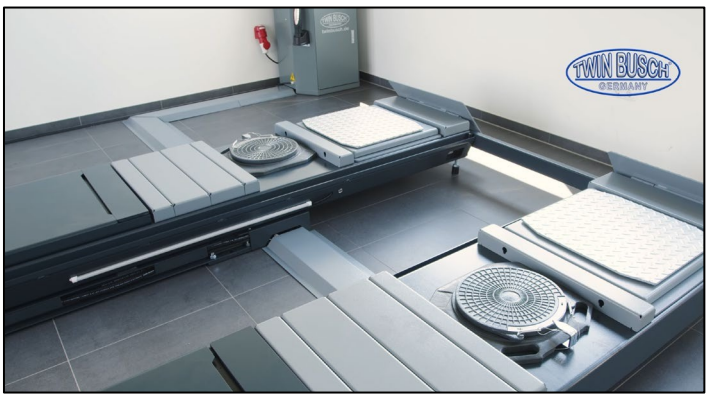


Illustration: Complete assembly with cover plates

29) You can also install access ramps on the lifting platform, which are available as an option in our shop. These can be aligned directly with the lifting platform and bolted to the floor.

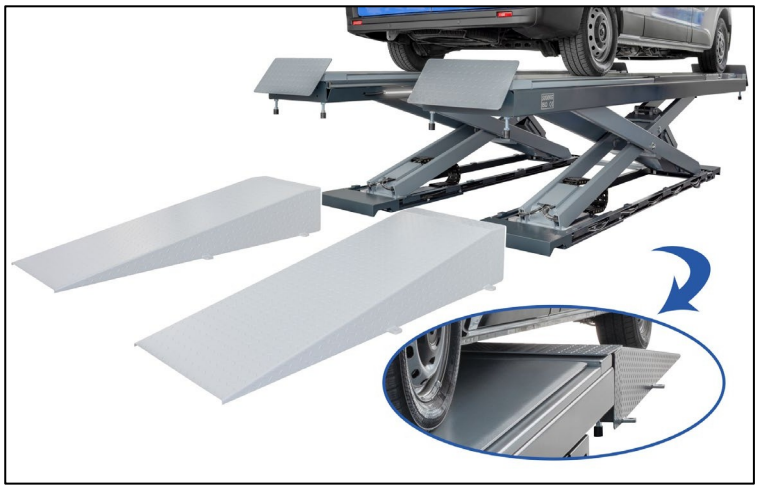


Illustration: Optional TWSA-50U-R access ramps

30) Anchor the ramps to the floor.

a) Drill the holes for each anchoring bolt into the foundation using a hammer drill. Drill perpendicular to the floor level.

b) Carefully remove any dirt and dust after drilling (by vacuuming and blowing out if necessary).

c) Carefully hammer in the anchor bolts straight using a sledgehammer.

d) Tighten the nuts. Tightening torque: 100 - 110 Nm.

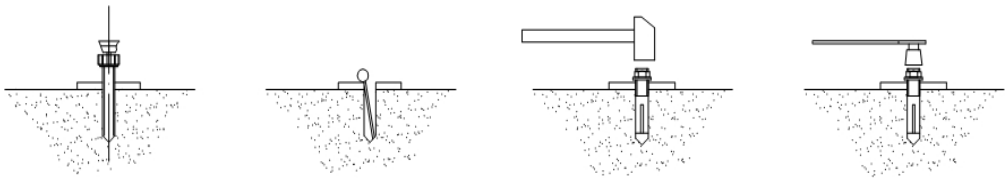


Illustration: Steps for fastening the anchor bolts

31) Vent and level

Check the hydraulic and electrical connections before levelling.
Note: Please note that no vehicle may be on the lift during this process.

Caution: Correct the motor wiring sequence if the motor is running but the platform is not moving upwards. After pressing the "UP" button for more than 30 seconds, swap the U and V wires in the control cabinet.

31.1 Levelling the platforms for the wheel supports

a) Connect the power supply and switch on the main switch. Set switch SA1 on the control panel to the wheel support platform.

b) Open the door of the control cabinet. Switch off the OVERRIDE switch SA2 and set switch SA3 to "Levelling" mode. Press the "UP" button until the slave platform is raised to its maximum height. Then press the "DOWN" button SB2 until it is lowered completely to its lowest position.

c) Set switch SA3 to "Work" mode and press the "UP" button to check whether both platforms are running synchronously and without any obvious height deviation. If the asynchrony persists, set switch SA3 back to "Levelling" mode. Check the height of the secondary platform and adjust it so that it parks at the same height as the main platform. (Press the UP button to raise the secondary platform if it is lower than the main platform. Press the DOWN button to lower the secondary platform if it is higher than the main platform.
Repeat the above levelling steps until synchronisation is achieved.

d) Set switch -SA2 to "ON" and switch -SA3 to "Working Mode".

31.2 Levelling the wheel-free platforms

a) Set switch -SA1 on the control panel to the wheel-free lift position. Set switch -SA3 to the "levelling" mode.

b) Press the UP button until the secondary platform is raised to its maximum height. Then press the DOWN-SB2 button until it is lowered completely to its lowest position.

c) Set switch SA3 to "Working" mode and press the "UP" button to check that both platforms have moved synchronously and without any obvious height deviation. If the asynchrony still persists, set switch SA3 back to "Levelling" mode. Press the UP or DOWN button to adjust the height of the secondary platform until it is level with the main platform.

d) Set switch SA3 to "Work" mode and press the UP and DOWN buttons to check the synchronisation.

8.5 Checkpoints after setup

S/N	Check	YES	NO
1	Screw torque for expansion screws: 100-110 Nm.		
2	Lifting speed ≥20 mm/s		
3	Noise level under load ≤75 dB		
4	Grounding resistance not greater than 4 Ω		
5	Height difference between platforms ≤5 mm		
6	Mechanical safety catches engage synchronously when lifting under rated load?		
7	Function switches (up, down) function as "hold to operate"? function"?		
8	Limit switch function present?		
9	Grounding cable connection?		
10	Does the lift platform raise and lower smoothly?		
11	No unusual noises during operation under rated load?		
12	No oil leakage under rated load?		
13	No pneumatic leaks under rated load?		
14	Are all screws, nuts or retaining rings securely fastened?		
15	Lift height reached?		
16	Are the safety instructions and type plate clearly visible?		

9. Commissioning

9.1. Safety precautions

a) If the safety devices are defective or show any signs of damage, the lifting platform must not be put into operation under any circumstances!
b) Check all hydraulic line connections to ensure they are secure and in good working order. If there are no leaks, the lifting process can be started.
c) Only the operator should be near the lifting platform during a lifting or lowering operation. Always ensure that no persons are in the danger zone.
d) Check that the vehicle is securely supported at a low lifting height to ensure that it is positioned correctly and safely.
e) Once the desired lift height has been reached, switch off the power supply to the lift before starting work to prevent accidents caused by unintentional operation by other persons.
f) Ensure that the safety lock is activated before starting work on or under a vehicle.

9.2. Description of the control unit (control box)

Illustration: Button

	Description	Function
FA	Alarm buzzer	Acoustic signal when lowering.
HL	Operating light	Indicates whether power is supplied.
SB	Emergency switch	Switches off the system in an emergency.
SB1	"UP" switch	Lifts the lifting platform.
SB2	"DOWN I" switch	Lower the lifting platform.
SB3	"DOWN II" switch	Lowers from the CE stop.
SB4	"LOCK" switch	Activate the mechanical lock.
SA1	Selection lever	Select for use between main stage, PD or wheel-free lift.

Description	Function
Main switch	Switch on or off.
LED hand lamp	LED hand lamp with integrated radio remote control.

Illustration: Left side of the switch box

Illustration: Right side of the switch box

Description	Function
SLIP PLATES CONTROL	Locking or releasing the slip plates.

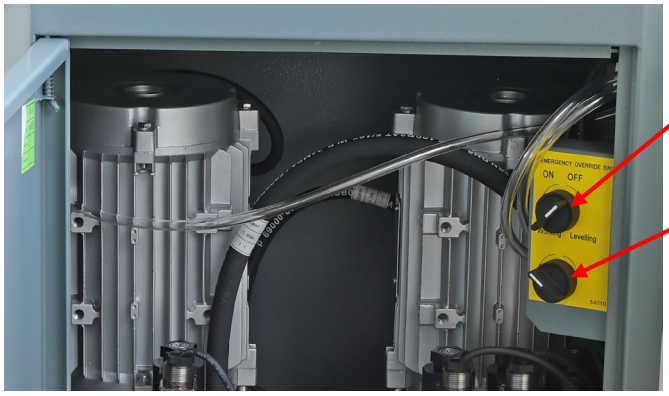


Illustration: Inside the switch box

Description	Function
Selection lever	Switches the synchronisation protection device on or off.
Selection lever	Control of the working or levelling mode.

9.3. Description of the LED hand lamp with integrated radio remote control

Illustration: Hand lamp

Set the selector switch (SA1) on the switch box to PD mode.

The PD is designed for the motorised movement of vehicle wheels to enable inspection of the suspension and steering joints.

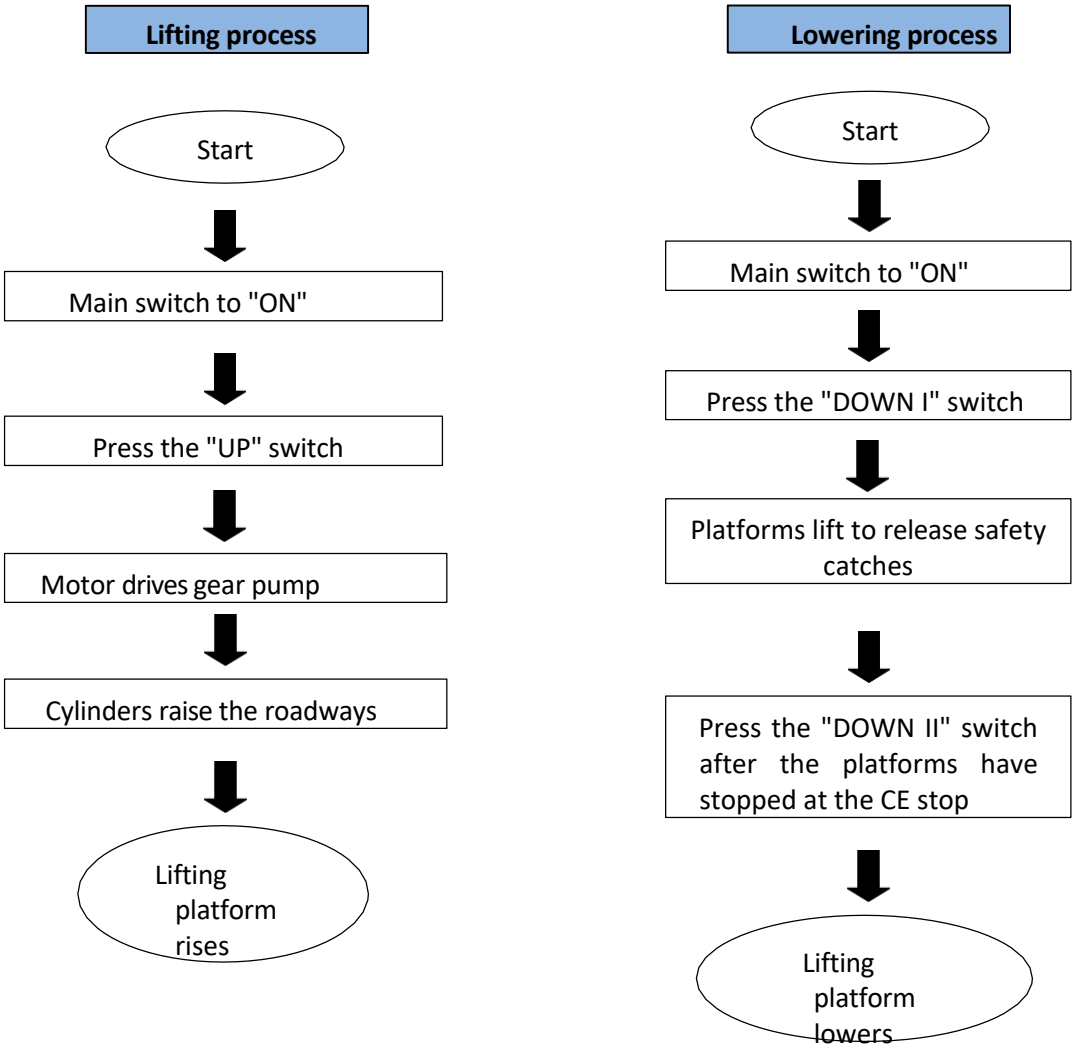
1. Park the vehicle so that the front wheels are centred on the PD plates, the steering is disengaged and the engine is running (to activate the power steering).
2. Raise the wheel-free jack to a suitable working height so that you can see the suspension/steering joints to be inspected clearly and park the lifting platform in the mechanical locking system.
3. Use either the inspection light or the radio remote control.

Press and hold either of the two buttons to activate both PD plates simultaneously.

Please note: Allow the device to charge for 3 hours before first use and always return the hand lamp to the holder after use so that it can recharge when not in use.

Please note: The remote control works within a radius of 5.7 metres from the main switch box.

9.4. Lifting and lowering sequence



9.5. Operating instructions

9.4.1 Lifting process

1. Read and understand the operating instructions before starting work.
2. Drive and park the vehicle in the middle between the platforms.
3. Connect the power supply and turn the main switch to ON.
4. Press the "UP" button on the control panel to raise the vehicle slightly off the ground and check again that the vehicle is in a safe position.
5. Raise the vehicle to the desired height and press the "LOCK" button to ensure that the mechanical safety lock is engaged, then check the stability again before carrying out any maintenance or repair work.

9.4.2 Lowering

1. Connect the power supply and turn the main switch to ON.
2. Press the "DOWN I" button to lower the lifting platform. The lifting platform will first be raised automatically to release the mechanical locks. Lowering will stop when the platform is approximately 600 mm above the ground.

3. Press the "DOWN II" button to lower the platforms further. The buzzer alarm will sound during this process.
4. Once the lift has been lowered completely, remove the rubber blocks and other tools to ensure that the vehicle can be driven out of the lifting area without obstruction.
5. Drive the vehicle off the lift.

Caution: In the event of excessive height deviation between the two platforms, the synchronisation protection device will be activated to stop any lifting or lowering movement. In this case, the normal operator must seek professional assistance from maintenance personnel to return the lift to normal operating conditions.

9.4.3 Lifting and lowering the wheel lift Lifting

the wheel lift

1. Set the selector switch (SA2) on the control panel to wheel lift.
2. Place rubber blocks under the specified mounting points on the vehicle. If it is necessary to use the platform extensions, press the "UP" button to raise the wheel lift platforms slightly above the main platform and pull out the extensions to the required length.
3. Press the "UP" button and check again that the rubber blocks are directly under the vehicle's mounting points when you are very close to the mounting points.
4. Hold down the "UP" button until the desired height is reached. The full height is 450 mm above the main platform.

Lowering the wheel lift

Note: If the platform extensions of the "wheel lift" are used, the operator must retract both extensions when the four wheels of the vehicle have sufficient contact with the main lifting platforms.

1. Set the selector switch (SA2) on the control panel to wheel lift.
2. To lower, press the "DOWN I" button on the control panel.
3. Remove the rubber pads.

10. Troubleshooting

Please note: Do not hesitate to contact the expert staff at TWIN BUSCH® GmbH if you are unable to rectify a fault yourself. We will be happy to help you solve your problem. In this case, please document the fault and send us pictures and a precise description of the fault so that we can identify and rectify the cause as quickly as possible.

The following table lists possible errors, their causes and the corresponding troubleshooting steps for faster identification and self-correction.

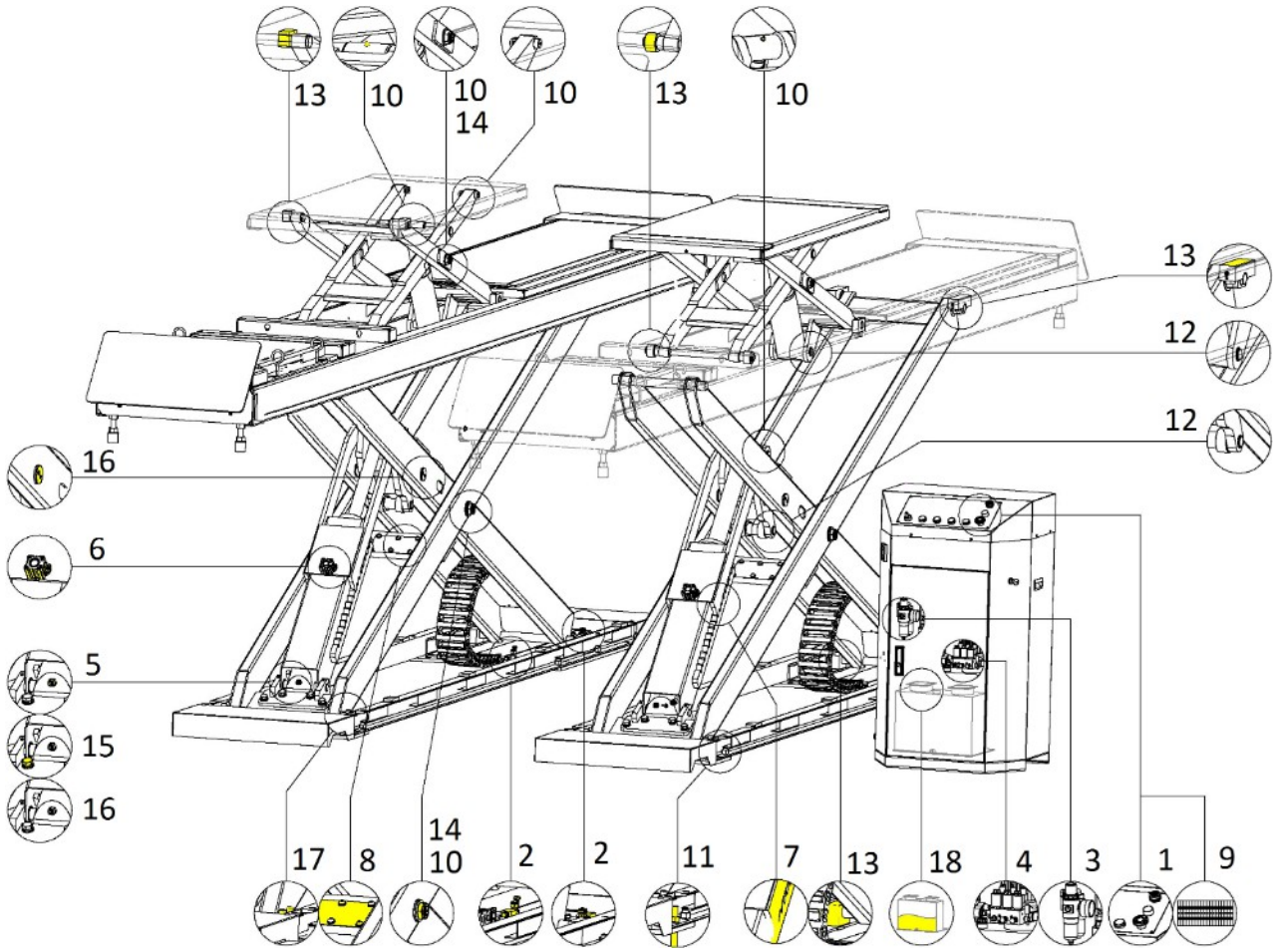
PROBLEM	CAUSE	SOLUTION
The motor does not run and cannot be raised.	The limit switch for the maximum incline is damaged or its cable is disconnected.	Reconnect the wire or replace it with a new switch.
	The synchronisation protection device is activated.	Switch off the bypass switch and level the platforms.
	Damaged lift or lower switches. Disconnected wires.	Reconnect the cable or replace it with a new switch.
	Burnt-out motor.	Replace it with a new motor.
The motor runs, but the lift does not rise.	The motor is running in reverse due to a phase sequence error.	Correct the phase sequence.
	The corresponding solenoid valve is not working.	Check the corresponding cable connection (YV3 or YV4).
	The corresponding solenoid valve is jammed.	Clean the valve (YV3 or YV4).
	Damaged damping valve.	Replace it with a new damping valve (item 17 on the exploded view diagram).
	Damaged gear pump.	Replace it with a new gear pump (item 20 on the exploded view diagram).
	Loose pressure relief valve on the hydraulic block or the valve is jammed.	Tighten the valve or clean it (item 14 on the exploded view diagram).
	No hydraulic oil or too little hydraulic oil.	Add sufficient oil.
	Hose connections not tightened or burst hoses.	Tighten the corresponding hose connections. Replace the torn hoses. Hose no. 1 for the main platform, hoses no. 2 and 5 for the wheel-free lift in the diagram).
The platforms descend too slowly after being raised.	Damaged check valve.	Replace it.
	Loosely installed solenoid relief valve on the hydraulic block or the valve is jammed.	Tighten the valve. Clean the valve (YV1 or YV2).
	Loose hose connections or leaking hoses.	Tighten the corresponding hose connections. Replace the hoses (hose no. 1 for the main platform, hoses no. 2 and 5 for the wheel-free lift).

PROBLEM	CAUSE	SOLUTION
Lifting too slowly.	Overloaded gear pump.	Replace with a new pump.
	Loose oil suction line.	Replace it with a new pump.
	Clogged filter.	Tighten the pipe.
	Contaminated and old hydraulic oil.	Clean or replace it.
Lowering too slowly.	Oil hose jammed. One of the connections for the above hoses is deformed.	Clean or replace it. (Hose no. 1 for the main platform, hoses no. 2 and 5 for the wheel lift)
	Jammed connection on the main cylinder.	Clean or replace it (connection D in the diagram).
	Jammed solenoid discharge valve.	Clean or replace it.
PD is not being executed.	The oil hose is blocked or crushed.	Clean the hose. Replace the hose.
	The valve for switching from lift to PD is not working due to power failure or damage.	Check the cable connection. Replace the valve with a new one. (Hose no. 10 in the oil hose diagram for PD.)
	The contact of the selector switch for the PD and lift function is poor or the selector switch is damaged.	Check the cable connection. Replace the device with a selector switch.
	The solenoid valve for PD is not working (due to power failure or damage).	Check the cable connection. Replace the valve with a new one.
	An oil hose in the PD system is leaking.	Check the hoses and replace the leaking hose.

11. Maintenance

Regular maintenance of your lifting platform ensures long and safe use of the lifting platform. Suggestions for maintenance intervals and the tasks to be carried out are listed below. How often you maintain your lifting platform depends on the environmental conditions, the degree of contamination and, of course, the stress and strain on the lifting platform.

The following points must be lubricated:



S/N	Component	Method	Interval
1	Control buttons	Check whether the control buttons function as "hold-to-run" and check whether they function as specified in the function.	Daily
2	Limit switches for maximum ascent and safe descent	Press the "UP" switch, check and make sure that the lift stops rising at maximum height. Press the "DOWN I" button, check the lifting device and ensure that it is working. The platform stops lowering at a reasonable height above the ground.	Daily
3	Pneumatic filter	Listen to the filter and check it to ensure that it is not leaking. Check the water level and ensure that it is below the maximum limit and that the oil level is above the minimum mark.	Daily

S/N	Component	Method	Period
4	Hydraulic block and valves	Check the valves. Clean the valve or replace it if it is leaking.	Daily
5	Oil hoses and connections	Check the oil hoses and connections. Before using the lift, make sure there are no leaks.	Daily
6	Pneumatic hoses and connections	Before using the lifting platform, check that there are no leaks.	Daily
7	Mechanical safety lock	Press the control buttons and check whether both engage and disengage effectively and synchronously.	Daily
	Synchronisation of the lifting platform	Check the synchronisation of both lifting platforms. Ensure that both platforms rise and lower synchronously.	Daily
8	Shim for the start roller	Grease the surface. Tighten the plate.	Monthly
9	Clamps in the control unit	Open the control unit, inspect the cable connections and tighten them if any terminals have come loose.	Every 3 months
10	Lubricant cap	Inject lithium grease.	Every 3 months
11	Anchored expansion bolts	Check with a torque wrench. Torque of the screw: 100-110 Nm.	Every 3 months
12	Retaining ring on the shaft	Check that it is seated in the groove of the shaft.	Every 3 months
13	Sliding blocks and roller wheels	Grease the rails on which the blocks and wheels move.	Every 3 months
14	Self-locking nut	Tighten the nuts. Torque must not be less than 330 Nm.	Every 3 months
15, 16	Screw	Tighten the bolts. Torque should not be less than 190 N m.	Every 3 months
17	Screw	Tighten the bolts. Torque should not be less than 75 Nm.	Every 3 months
	Lifting platform	Run the lift for several cycles with and without the rated load. It should run smoothly and evenly without any abnormal noises. Check the synchronisation of both lifts. Ensure that both platforms move up and down synchronously.	Every 3 months
18	Hydraulic oil	Change the oil 6 months after initial commissioning and then once a year. Check the hydraulic oil and change it if the oil turns black or there is dirt in the oil tank.	Annually

If you follow the above maintenance intervals and maintenance activities, your lift will remain in good condition and damage and accidents will continue to be avoided.

Note: After ten years of operation at the latest, a general assessment of the remaining service life must be carried out by a qualified technician – preferably by a specialist authorised by the manufacturer.

12. What to do in the event of a malfunction

Malfunctions of the lifting platform may be caused by simple errors. Use the following list *) to troubleshoot the problem.
If the cause of the fault is not listed or cannot be found, please contact the expert TWIN BUSCH® GmbH team.

Never attempt to repair the lift yourself, especially not safety devices or electrical components.

*) Points depending on the design and type of lift

Work on electrical systems may only be carried out by a qualified electrician!

Problem: The lift cannot be raised or lowered.

Possible causes	Remedy
No power supply available.	Check the power supply.
Power supply interrupted.	Check the power cable.
Main switch not switched on or defective.	Check the main switch.
Emergency stop switch pressed or defective.	Unlock and check the emergency stop switch.
The fuse in the power connection has tripped or is defective.	Check fuse.
Fuse in the switch box has tripped or is defective.	Check fuse.

Problem: Lifting platform cannot be raised.

Possible causes	Remedy
For three-phase current: one phase is missing.	Check the power supply.
For three-phase current: motor rotation direction is incorrect.	Check direction of rotation, swap phases if necessary.
Oil pump defective.	Notify TWIN BUSCH® Service.
Emergency drain open.	Close the emergency drain valve.
Motor is defective.	Notify TWIN BUSCH® Service.
Overload.	Overload valve has opened, reduce load.

Problem: Lift cannot be lowered.

Possible causes	Remedy
Lifting platform is in safety detents.	Raise the platform slightly, pull the catches, lower.
Lifting platform has moved into limit switch.	If necessary, release the limit switch, raise the platform 1 cm and lower it.
Motor is defective.	Open the safety latch and lower the lifting platform using the emergency release.
The lift has become blocked during lowering.	Raise the lifting platform slightly again and remove the obstacle.

13. Disassembly

The lifting platform may only be dismantled by qualified personnel. In particular, work on electrical components may only be carried out by qualified electricians in order to avoid the risk of electric shock or malfunction. Similarly, work on hydraulic or pneumatic systems may only be carried out by trained personnel with specific expertise in hydraulics or pneumatics. Compliance with these specifications ensures safe and proper decommissioning of the system.

1) Switch off the system at the main switch (OFF position) before carrying out any dismantling work.

2) Attach a warning sign to prevent the system from being switched back on.

3) Disconnect the power supply.

Caution: Improper dismantling of hydraulic components poses a risk of fatal injury. These components are under pressure (up to 200 bar).
Under no circumstances should you dismantle the hydraulic components (lift cylinders)! These must always be uninstalled as complete components.
Lifting platform cylinders should only be disposed of properly by a certified company.

4) Empty the hydraulic oil tank and drain the oil from the hydraulic hoses. Dispose of the hydraulic oil (see 14 Disposal).

5) Remove lubricants and other chemical substances. Dispose of these (see 14 Disposal).

6) Dismantle the supports, crossbars and crossbeams of the lifting platform.

14. Disposal

In order to inform users about how to dispose of the product properly (as required by Article 26, paragraph 1 of Legislative Decree 49/2014), the following information is provided:

The meaning of the crossed-out wheelie bin symbol on the device indicates that the product must not be disposed of with residual waste (i.e. together with "mixed municipal waste"). Instead, it must be disposed of separately so that waste electrical and electronic equipment can be sent for appropriate reuse or treatment. This allows environmentally hazardous substances to be safely removed and disposed of, and reusable raw materials to be recovered and recycled.

14.1 Ecological disposal methods

Prevent environmental pollution. Prevent environmental pollution.

- Avoid contact with or inhalation of toxic substances, such as hydraulic fluid.
- Oils and lubricants are water pollutants according to the WGH Water Protection Act. Always dispose of them in an environmentally friendly manner and in accordance with the regulations of your country.
- Mineral oil-based hydraulic oils are water pollutants and flammable. Refer to the relevant safety data sheet for disposal instructions.
- Provide suitable oil drain pans and oil binders for draining the oil.
- Ensure that no hydraulic oils, lubricants or cleaning agents contaminate the soil or enter the drainage system.

14.2 Packaging material

Do not dispose of in household waste!
The packaging material contains some recyclable materials that must not be disposed of in household waste. Dispose of the packaging material in accordance with the regulations applicable in your country.

14.3 Oils, grease and other chemical substances

- When working with oil, lubricants and other chemical substances, comply with the environmental regulations that apply to the product in question.
- Dispose of oil, lubricants and other chemical substances in accordance with the environmental regulations applicable in your country.

14.4 Metals/electrical waste

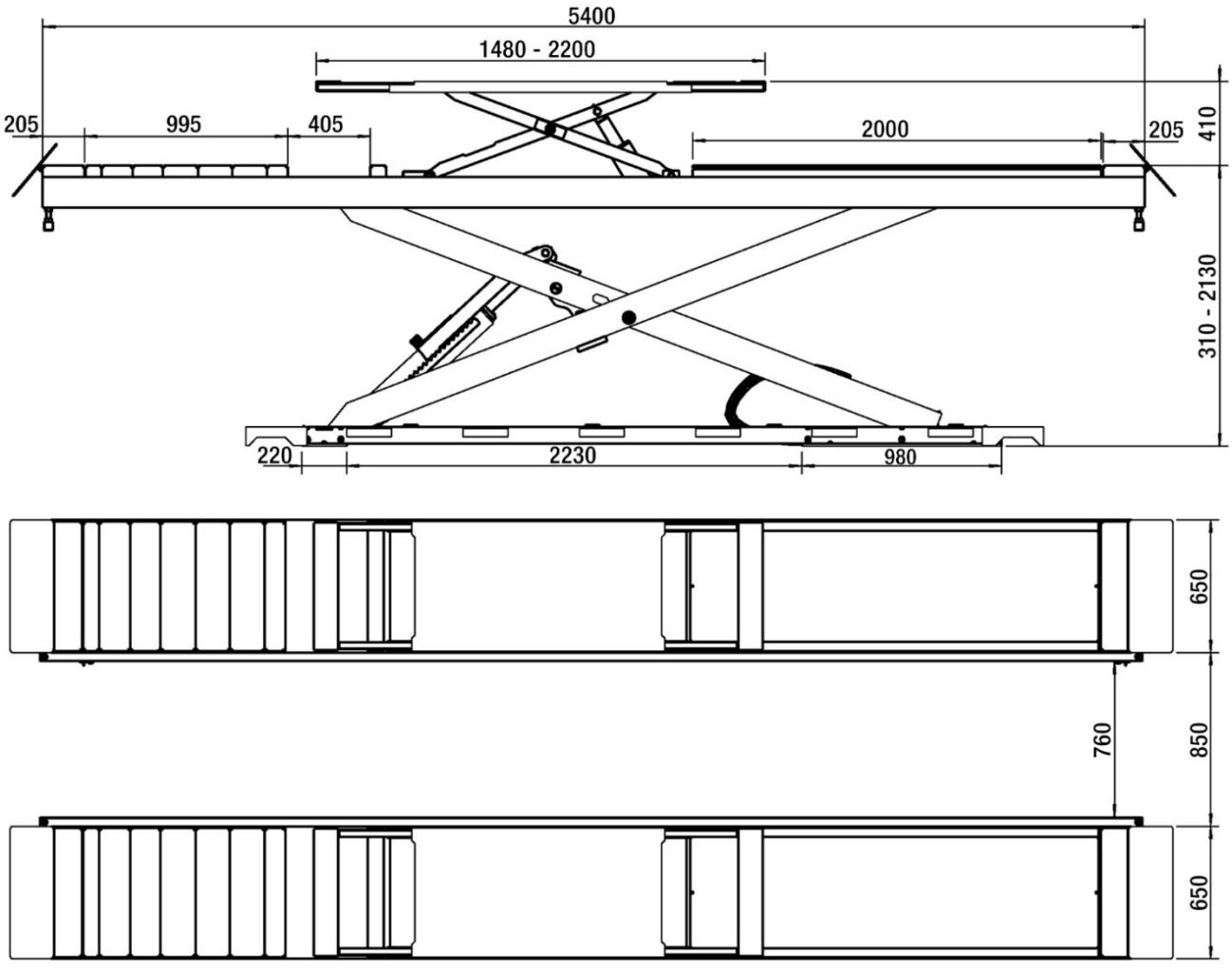
Metals/electrical waste should only be disposed of properly by a certified company. Dispose of used electrical and electronic equipment, including cables, accessories and batteries, separately from household waste.

15. Appendix

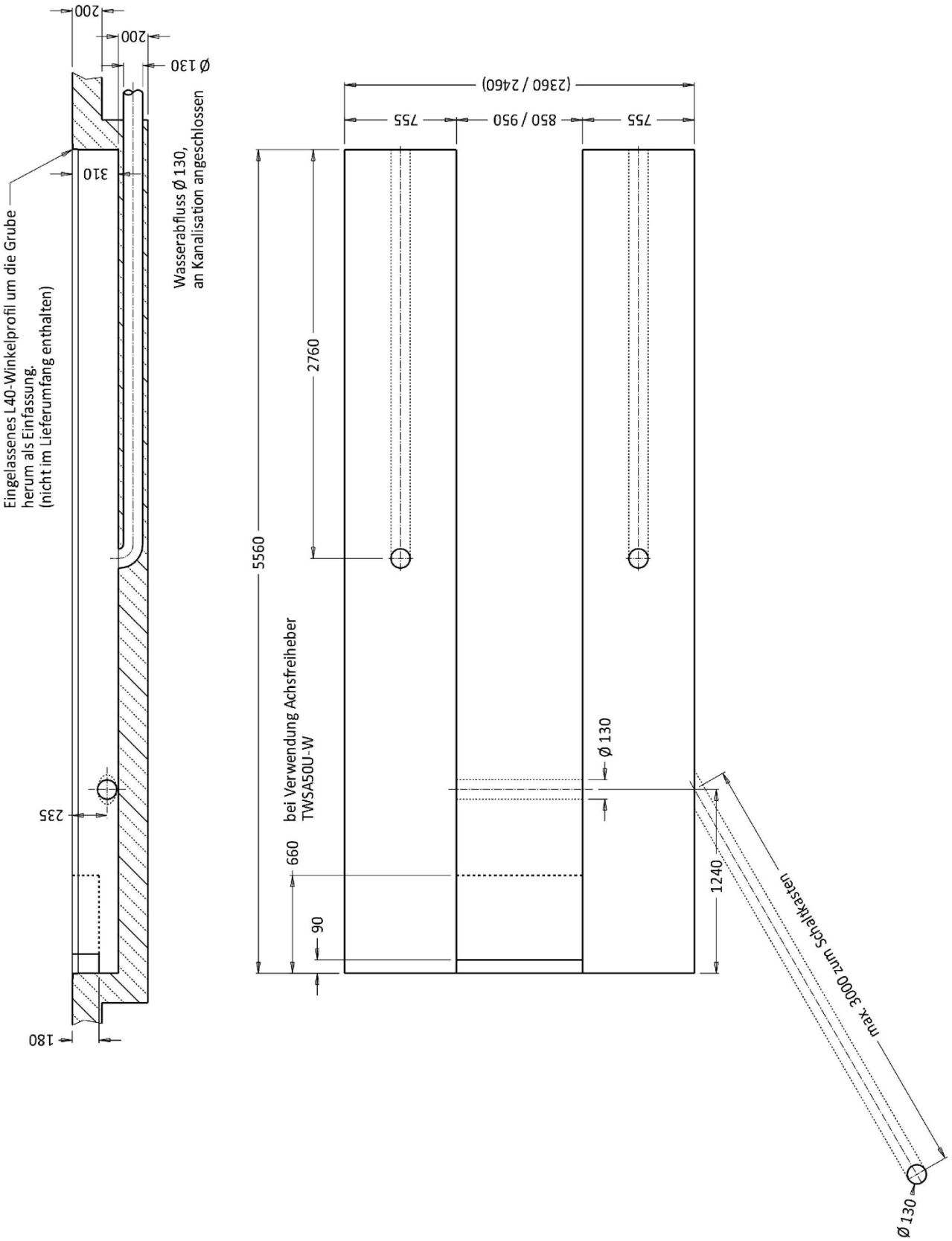
15.1 Packing list

S/N	Name	Quantity
1	Lifting platform	2
2	Switch cabinet	1
3	Anchor bolt	16
4	Rubber pads	4
5	Operating instructions	1
6	Cabinet key	1
7	Label for oil tank	1
8	Radio remote control	1
9	Hand lamp	1

15.2 Dimensions of the lifting platform



15.3 Foundation requirements and working area



Requirements for concrete:

- Concrete C20/25 in accordance with DIN 1045-2 (previous designation: DIN 1045 concrete B25).
- The floor must be level and have a flatness of less than 5 mm/m.
- Newly poured concrete must cure for at least 28 days.
- Only the requirements for concrete are listed here; the overall foundation structure is as usual for hall floors.

Foundation dimensions:

- Ideally, the entire hall floor should be made of C20/25 concrete with a minimum thickness of 250 mm.

Other requirements:

- The surrounding ground must be suitable for the load, e.g. no sandy soil, etc.
- Reinforcement in the concrete is not mandatory for the proper use of the scissor lift, but is recommended.
- The scissor lift must NOT be installed on ceilings or floors with basements without authorisation. In case of doubt, the foundation should always be designed by a structural engineer; this is mandatory for ceilings or floors with basements.
- If tiles, screed, insulation and underfloor heating are used, please consult our technical department.
- If the foundation for the recessed installation is to be created at a later date, connection reinforcements must be provided.

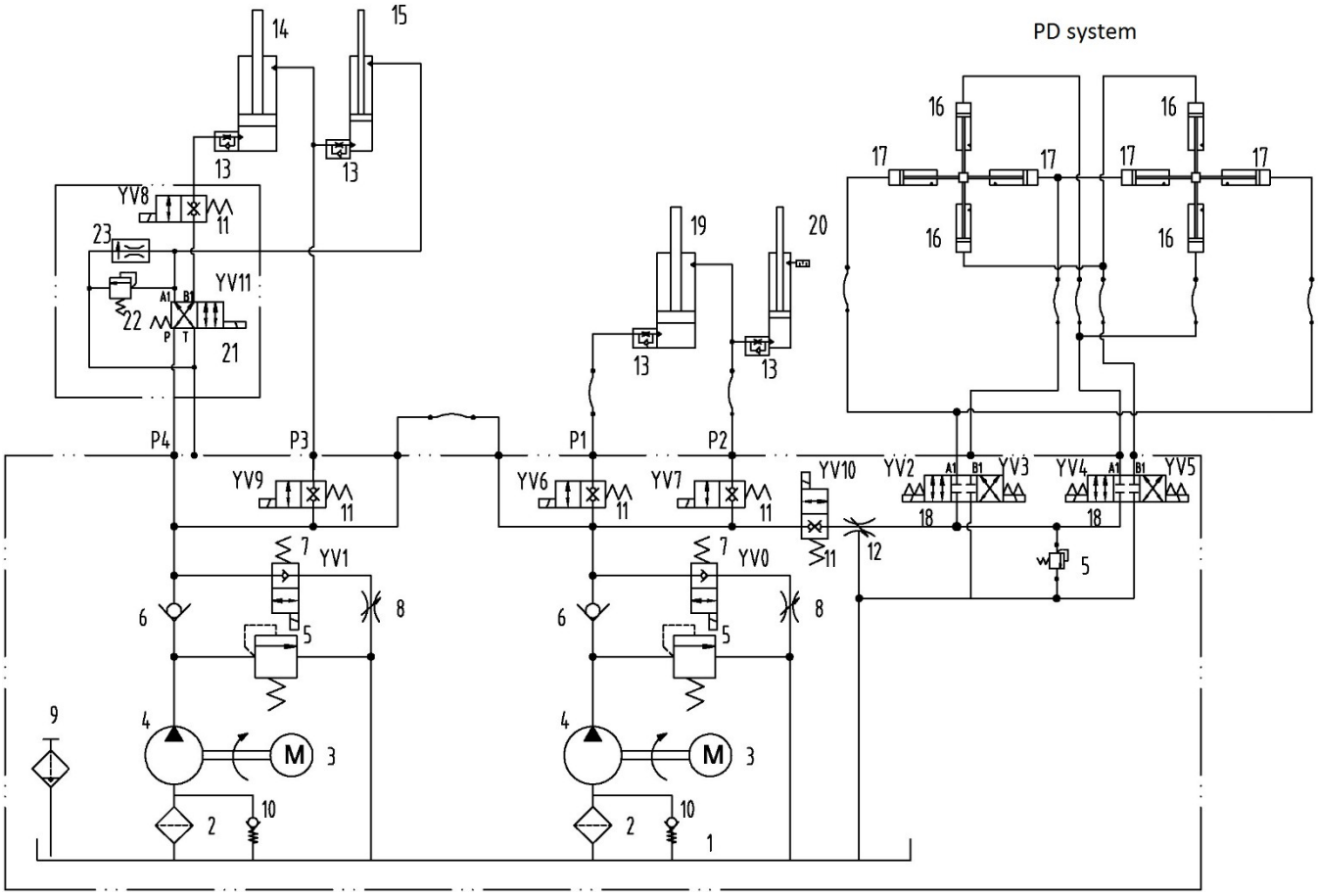
The following must be observed for ground subject to frost stress:

In the case of frost stress, the concrete must comply with exposure class XF4, as dripping de-icing agents cannot be ruled out.
This results in the following minimum requirements for concrete in frost-prone areas:

Exposure class:	XF4
Maximum w/c ratio:	0.45 Minimum compressive strength: C30/37 (instead of C20/25) Minimum cement content: 340 kg/m³
Minimum air content:	4.0
Total foundation depth:	≥ 80 cm (for frost resistance)
Remaining space filled with gravel:	0/32

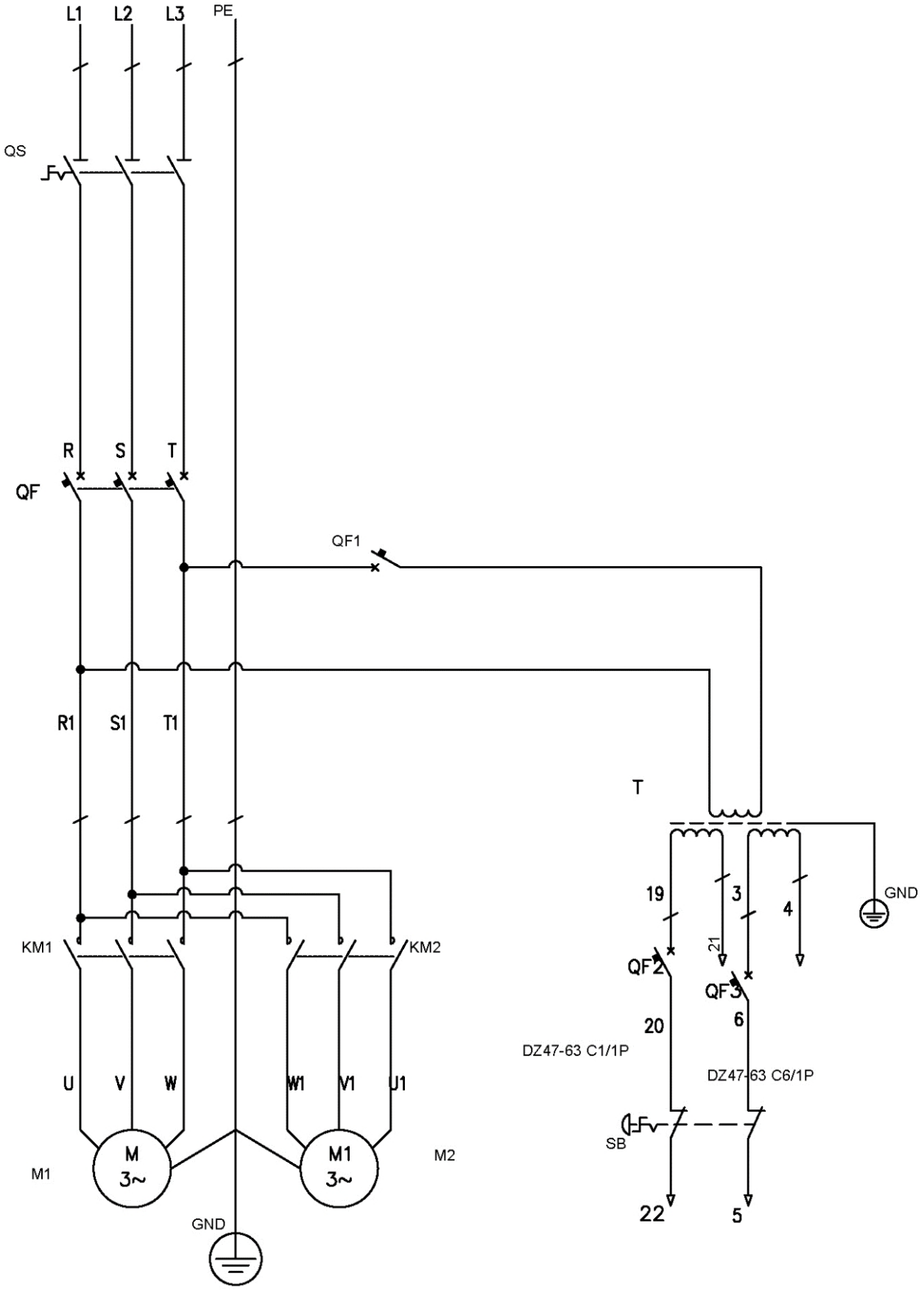
However, it should be noted that the lifting platforms are not designed for outdoor use (except for hot-dip galvanised models). Although the control box complies with IP54, the remaining electrical components, motors and limit switches are designed to a maximum of IP44.

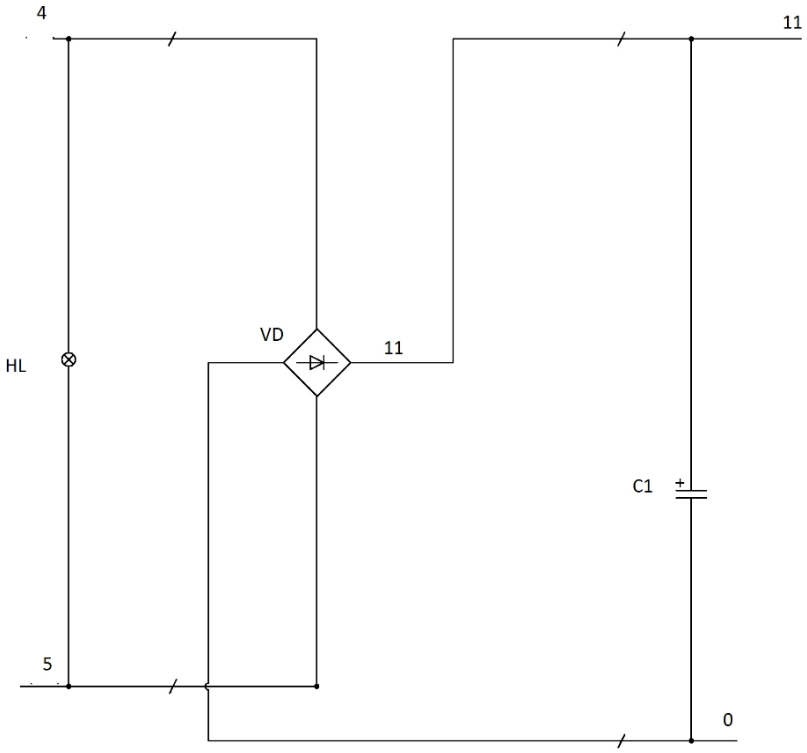
15.4 Hydraulic system



1. Steel oil tank
2. Filter
3. Motor
4. Gear pump
5. Pressure relief valve
6. Check valve
7. Solenoid discharge valve
8. Restrictive valve
9. Tank cap
10. Damping valve
11. Valve piston for the solenoid valve
12. Restrictive valve
13. Straight connector with non-return valve
14. Main cylinder from WF
15. WF slave cylinder
16. PD cylinder
17. PD cylinder
18. Solenoid valve (3P4W)
19. Main cylinder from WS
20. Slave cylinder from WS
21. Solenoid valve
22. Pressure relief valve
23. Pressure equalisation valve

15.5 Circuit diagrams




4
11
VD
11
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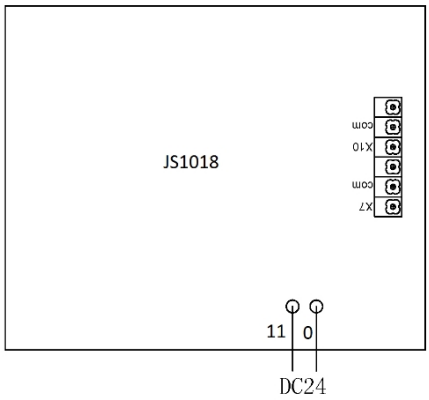
JS1018
com
X10
com
X7
11
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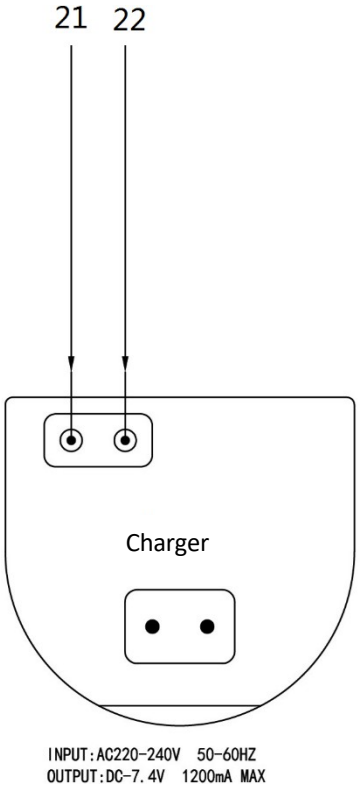
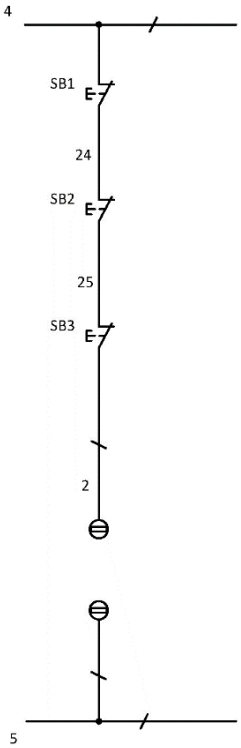
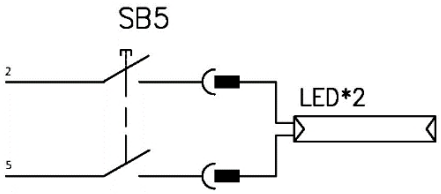
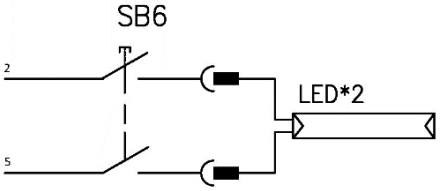
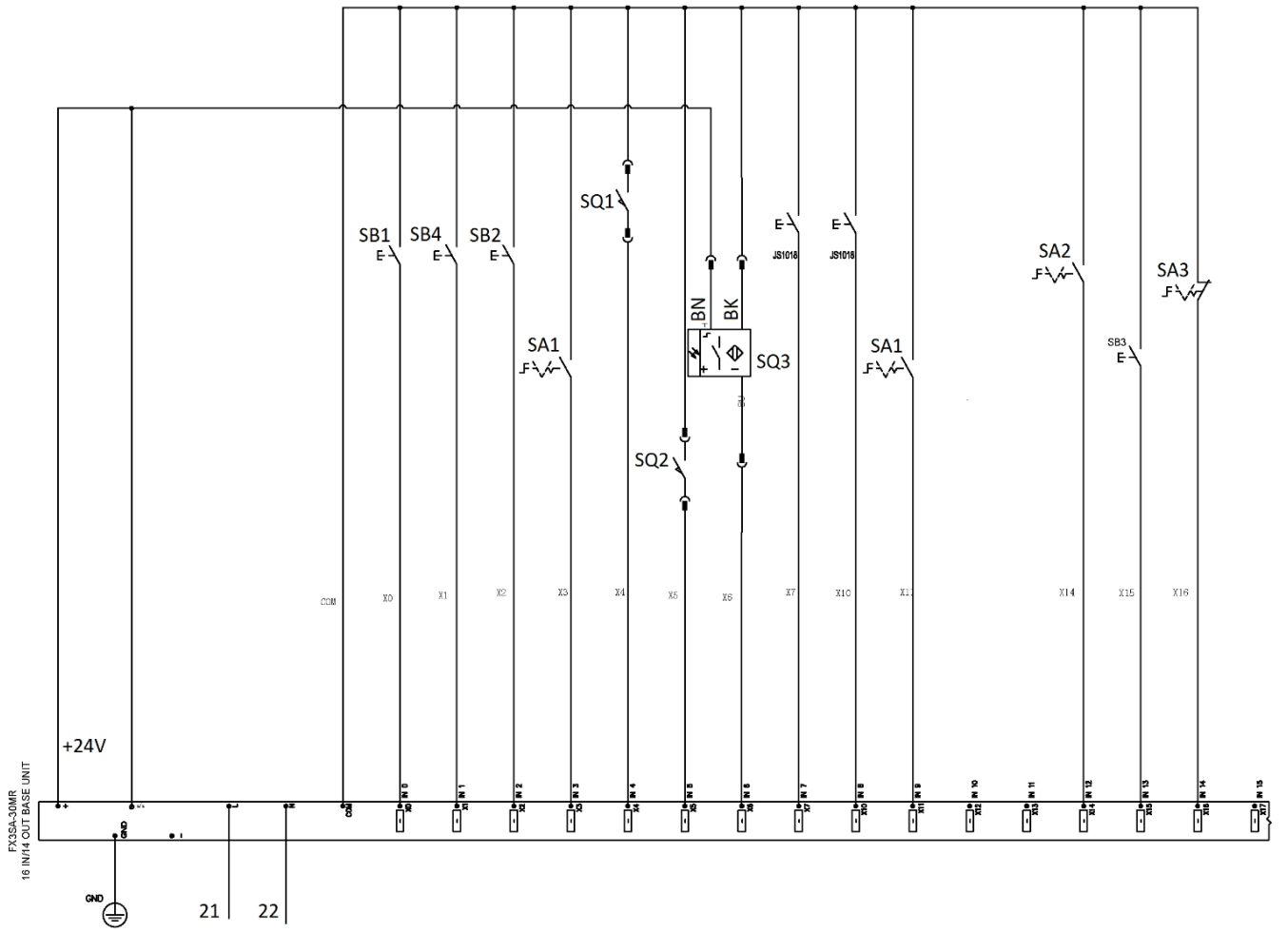
DC24

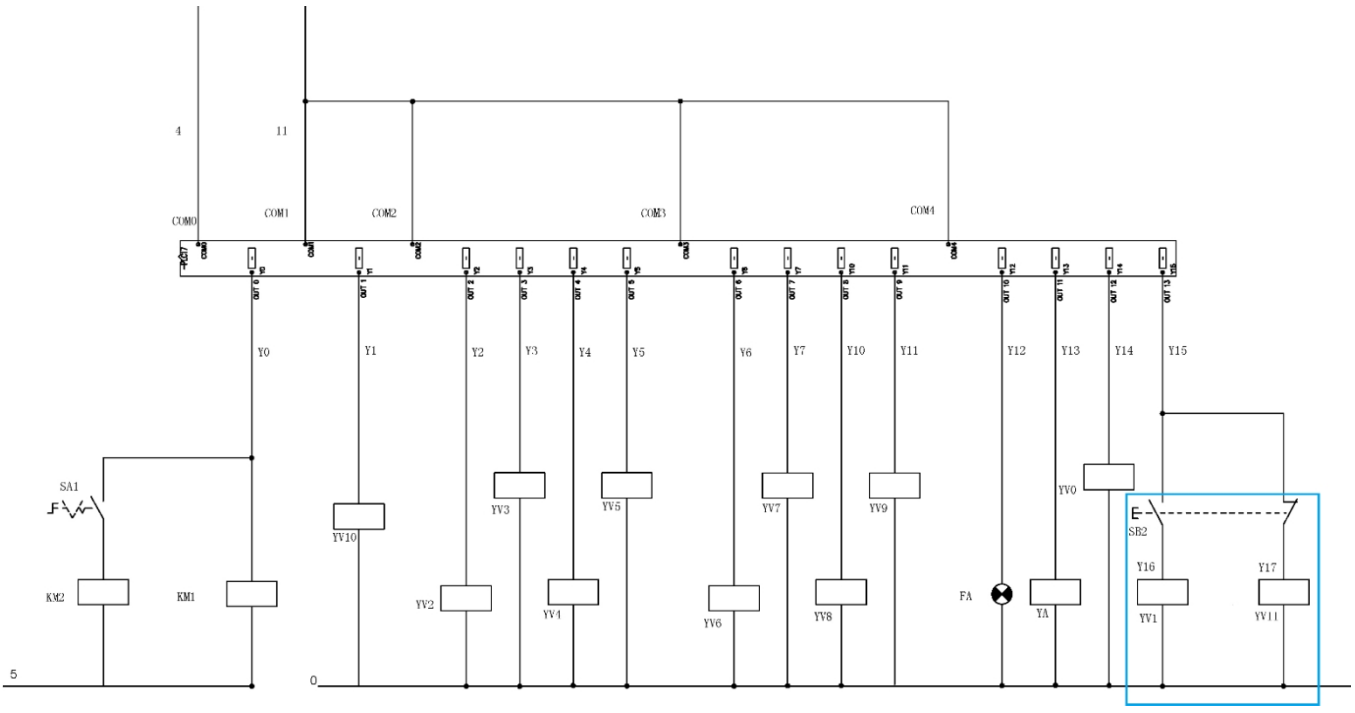

21
22
Charger
INPUT:AC220-240V 50-60HZ
OUTPUT:DC-7.4V 1200mA MAX


4
SB1
24
SB2
25
SB3
2
5


SB5
2
LED*2
5


SB6
2
LED*2
5


SB1
SB4
SB2
SQ1
SA1
SQ2
BN
BK
SQ3
SA1
SA2
SB3
SA3
+24V
GND
21
22
FX3SA-30MR
16 IN/14 OUT BASE UNIT


COM0
COM1
COM2
COM3
COM4
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y10
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Y12
Y13
Y14
Y15
SA1
KM2
KM1
YV10
YV2
YV3
YV4
YV5
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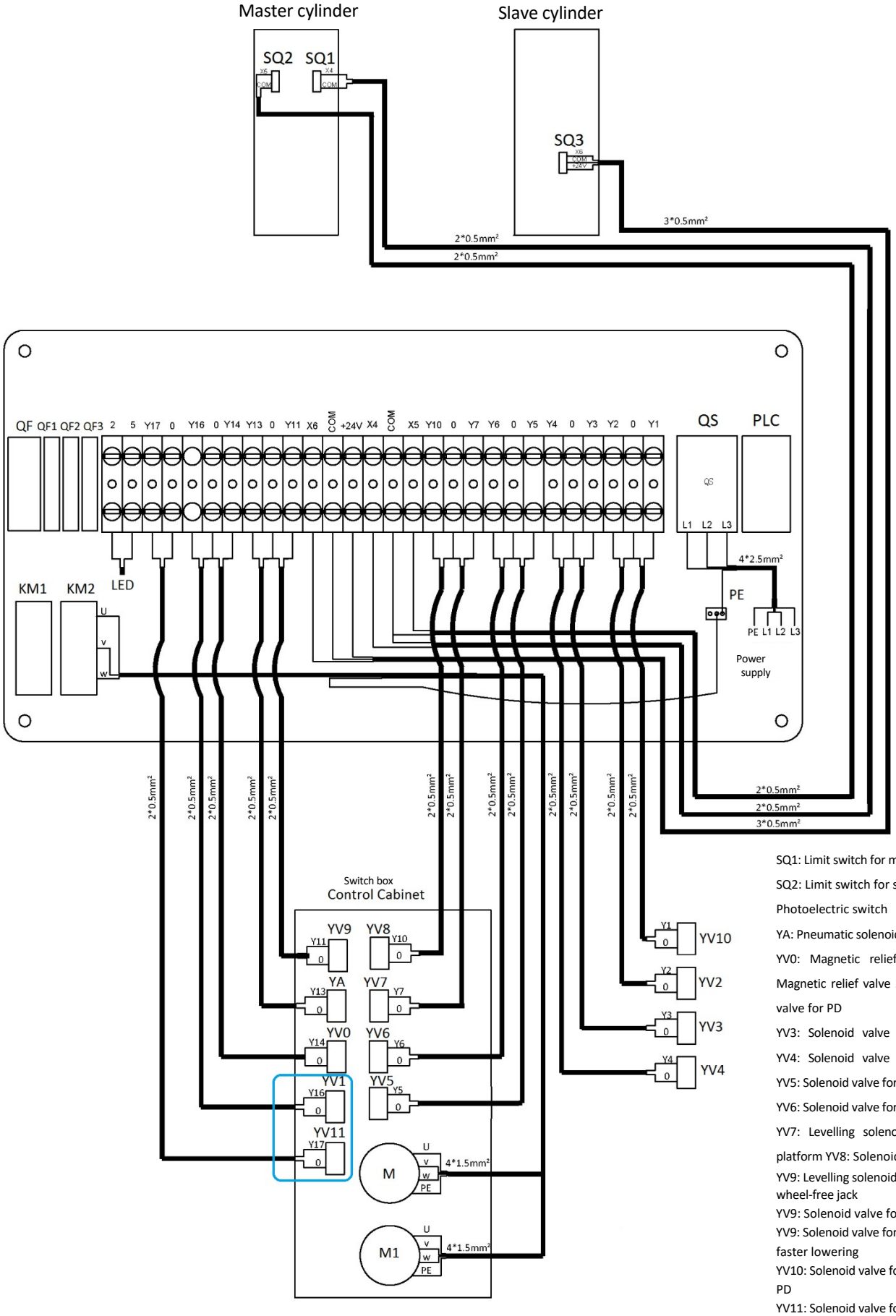
YV7
YV8
YV9
FA
YA
YV0
SB2
Y16
Y17
YV1
YV11



SQ1: Limit switch for maximum lifting

SQ2: Limit switch for safe lowering SQ3: Photoelectric switch

YA: Pneumatic solenoid valve

YV0: Magnetic relief valve 1 YV1: Magnetic relief valve 2 YV2: Solenoid valve for PD

YV3: Solenoid valve for PD

YV4: Solenoid valve for PD

YV5: Solenoid valve for PD

YV6: Solenoid valve for the main platform

YV7: Levelling solenoid valve for the main platform YV8: Solenoid valve for the wheel lift

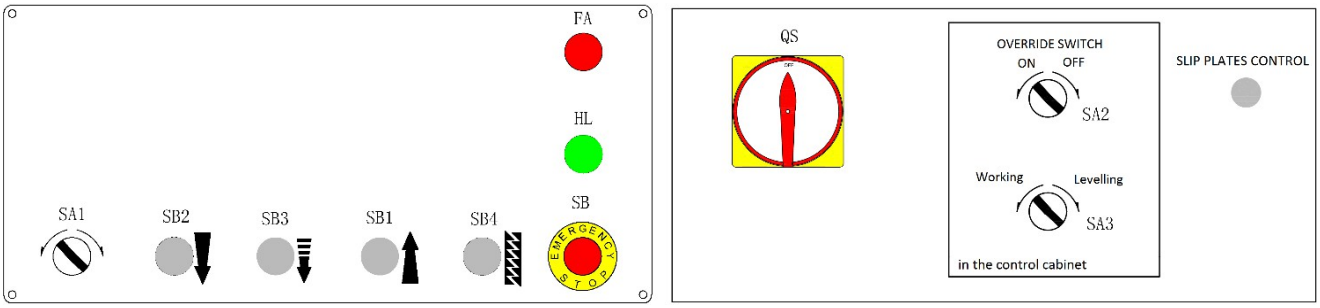
YV9: Levelling solenoid valve for the wheel-free jack

YV9: Solenoid valve for switching the lift to PD

YV9: Solenoid valve for the wheel-free jack for faster lowering

YV10: Solenoid valve for switching the lifting device to PD

YV11: Solenoid valve for the wheel-free lift for faster lowering

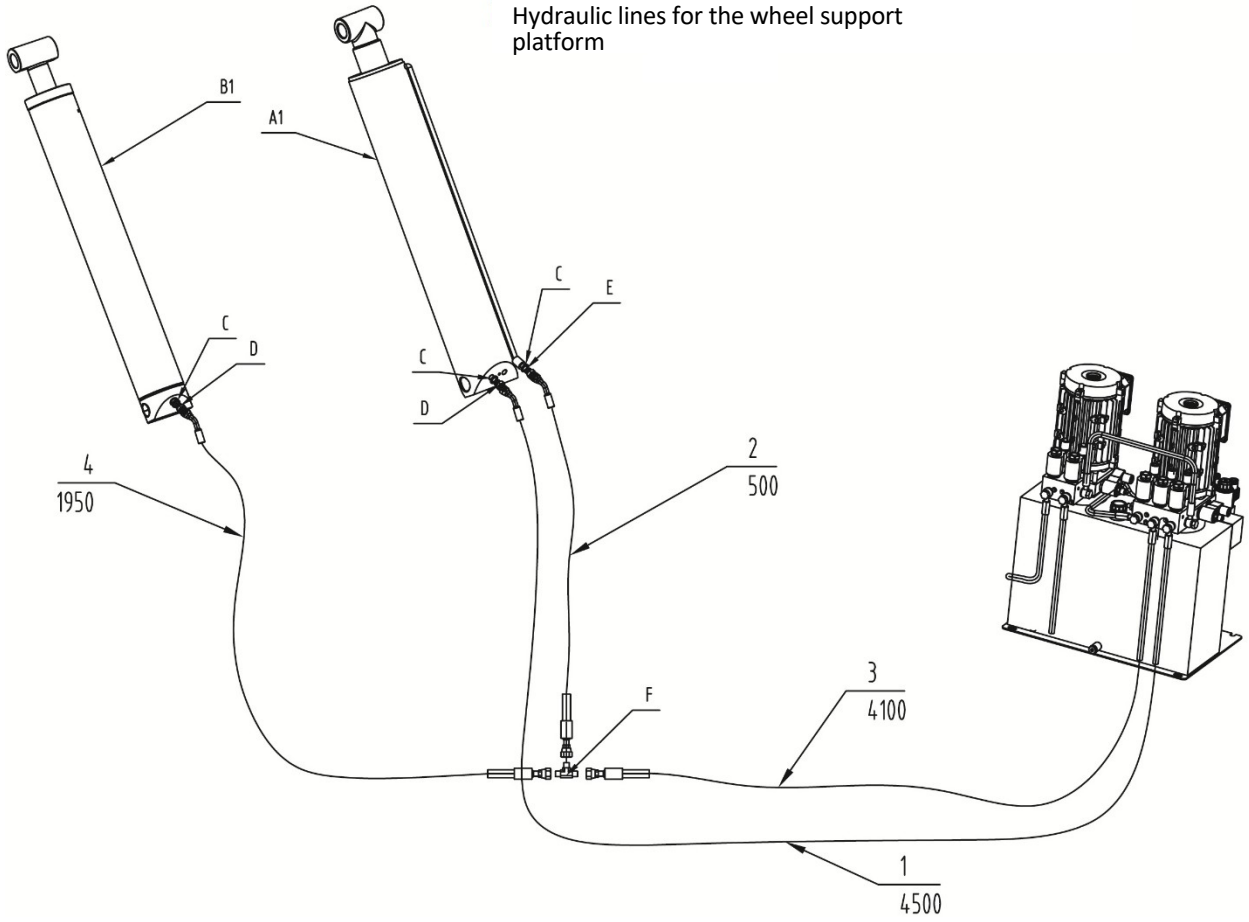


S/N	Code	Name	Specification	Quantity
T	320104104	Transformer	JBK5-160VA 380V400V415V-220V40VA 24V120VA	1
	320104103	Transformer	JBK5-160VA 220V230V240V-220V40VA 24V120VA	1
QF	320801003	Circuit breaker (3Ph)	CDB6iC25/3P (CB-60A C25)	1
QF1	320803003	Circuit breaker (3Ph)	CDB6iC3/1P	1
QF2	320803001	Circuit breaker	CDB6iC1/1P (CB-60A C1)	1
QF3	320803005	Circuit breaker	CDB6iC6/1P (CB-60A C6)	1
KM1 KM2	320901011	AC protection	CJX2-1810/AC24V(CDC6i-1810/AC24V)	2
QS	320304001	Power switch	LW26GS-20-04	1
SQ1 SQ2	320301011	Limit switch	TZ8108	2
SQ3	320307062	Photoelectric switch	CGY18E-R2NA	1
SA1	320303023	Selector switch (3P)	NP2-ED38C	1
SA2 SA3	320303018	Selector switch (2P)	NP2-ED23C	2
SB1 /SB3/ SB4	320401041	Button	NP2-EA15 (CDLA6H-EA15)	3
SB2	320401051	Button	NP2-EA16 (CDLA6H-EA16)	1
SB	320402010	Stop button	NP2-BS544 (CDLA6H-BS544)	1
PLC	321301004	PLC	FXIS(3SA)-30MR16in14out	1
	321003005	Remote	1027DC12V	1
	793220006	Remote control (with torch and charger)		1
JS1018	321003007	Receiver	JS1018 DC24V	1
C	321001004	Capacitor	4700UF/50V	1
VD	321002001	Bridge rectifier	KBPC5A-35A	1
HL	321201001	Indicator lamp	ND16-22DS-2	1
FA	321202001	Alarm	AD118-22SM/R/AC/DC/24V	1
SB5 SB6	320307034	Metal knob	LANB00(22mm AC24V)	2
LED	321201021C	LED lamp	AC24-15W-16cm	4
	321201038	LED lamp (replaces 321201021C since 21 November 2025)	AC/DC 24 V-15 W	4

Note: A different transformer is required for power supply with other voltages. Please contact our customer service when ordering spare parts.

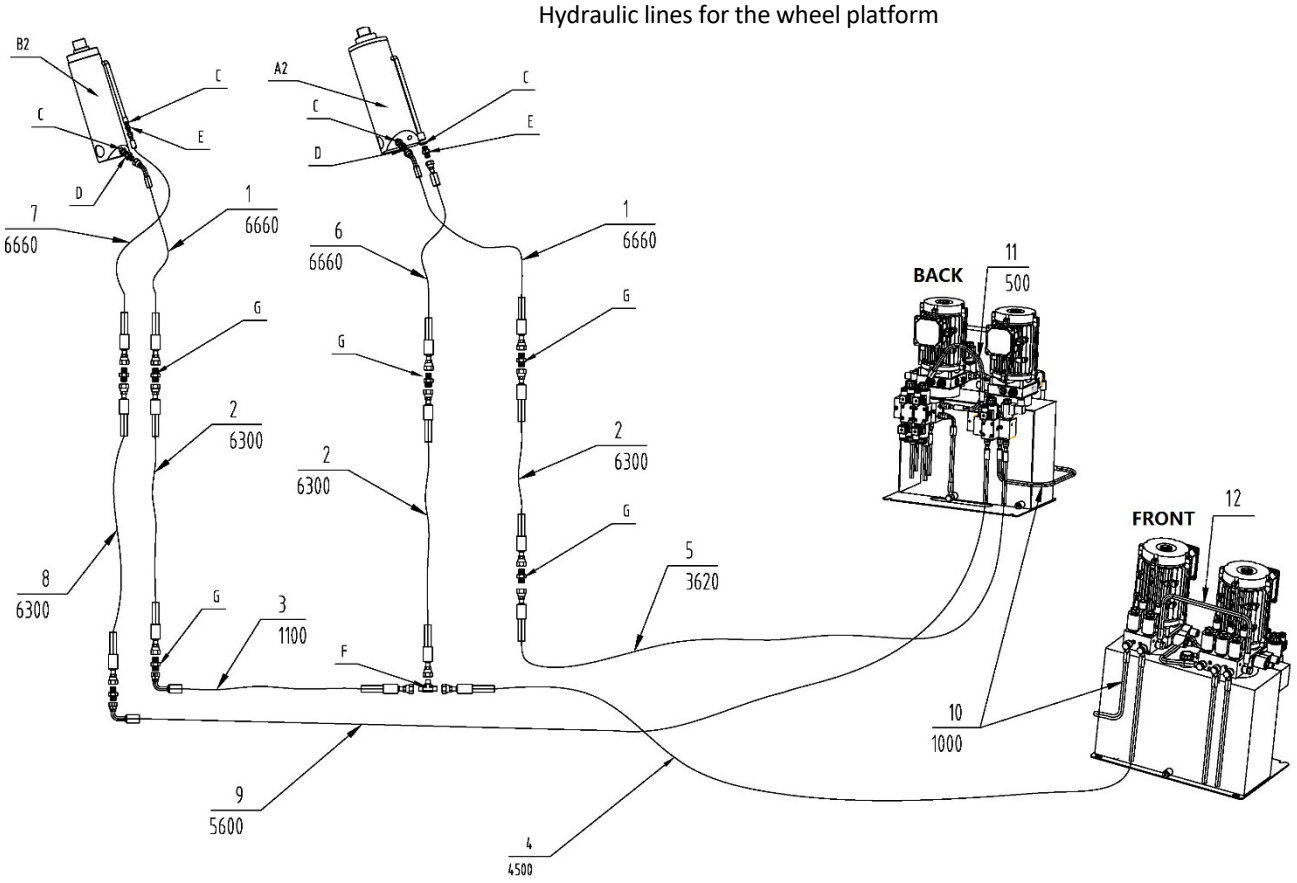
15.6 Detailed drawing, parts and spare parts list

Hydraulic lines for the wheel support platform

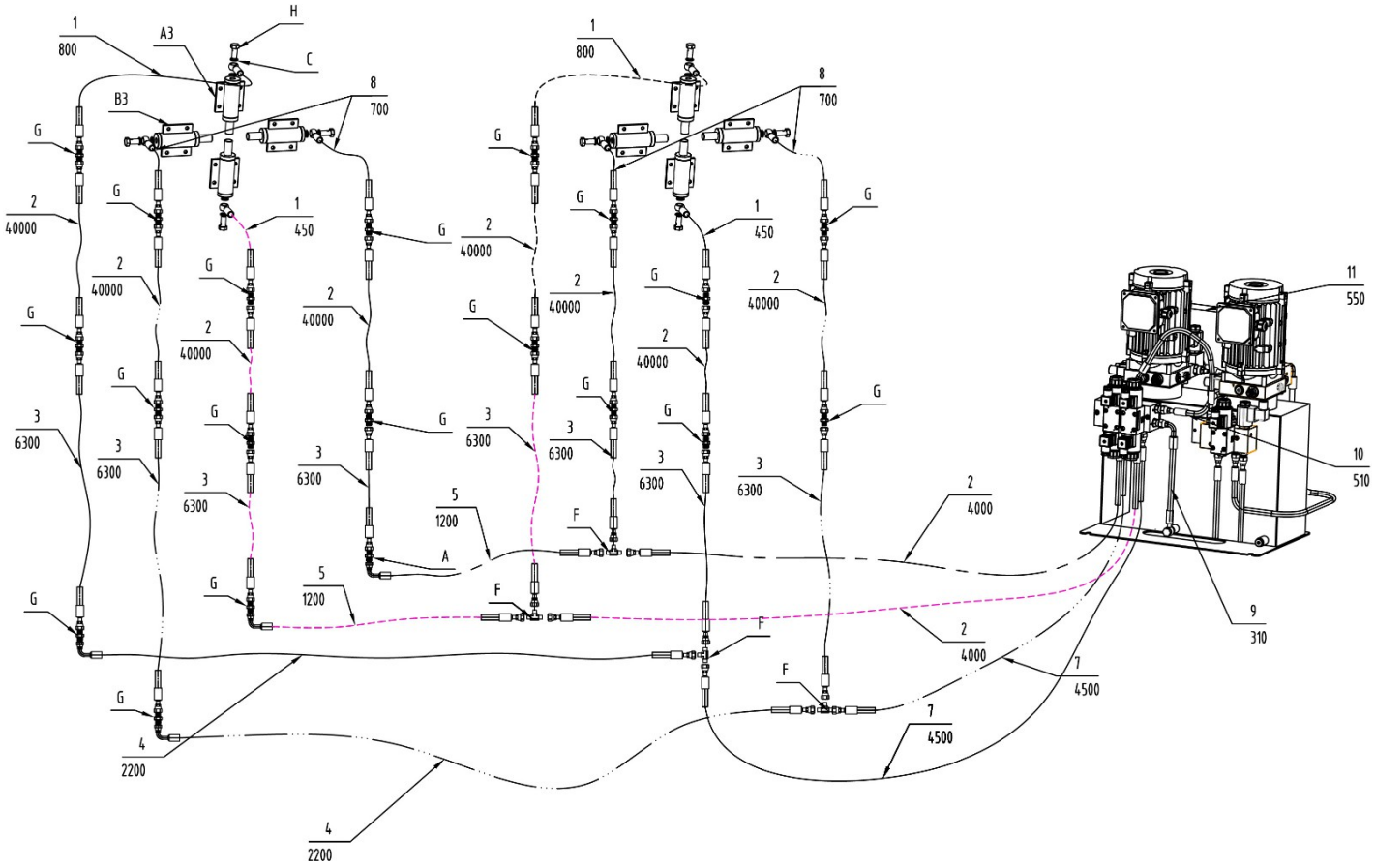


S/N	Code	Name	Specification	Quantity
1	624008156	Oil hose	L=4500 mm	1
2	624008157	Oil hose	L=480 mm	1
3	624008158	Oil hose	L=4100 mm	1
4	624008159	Oil hose	L=1950 mm	1
5	624008160	Oil hose	L=650 mm	1
A1	615068516	Master cylinder	YG120-140-67-645	1
B1	615068517	Slave cylinder	YG100-114-50-645	1
C	207103025	Composite disc	13_7X20X1_5	3
D	330305009	Straight connection with throttle valve	BDPF-G14-G14-I60	2
E	310101010	Straight connection	G1/4---G1/4	1
F	410210181	Three-way connector	6603B-A9-B7	1

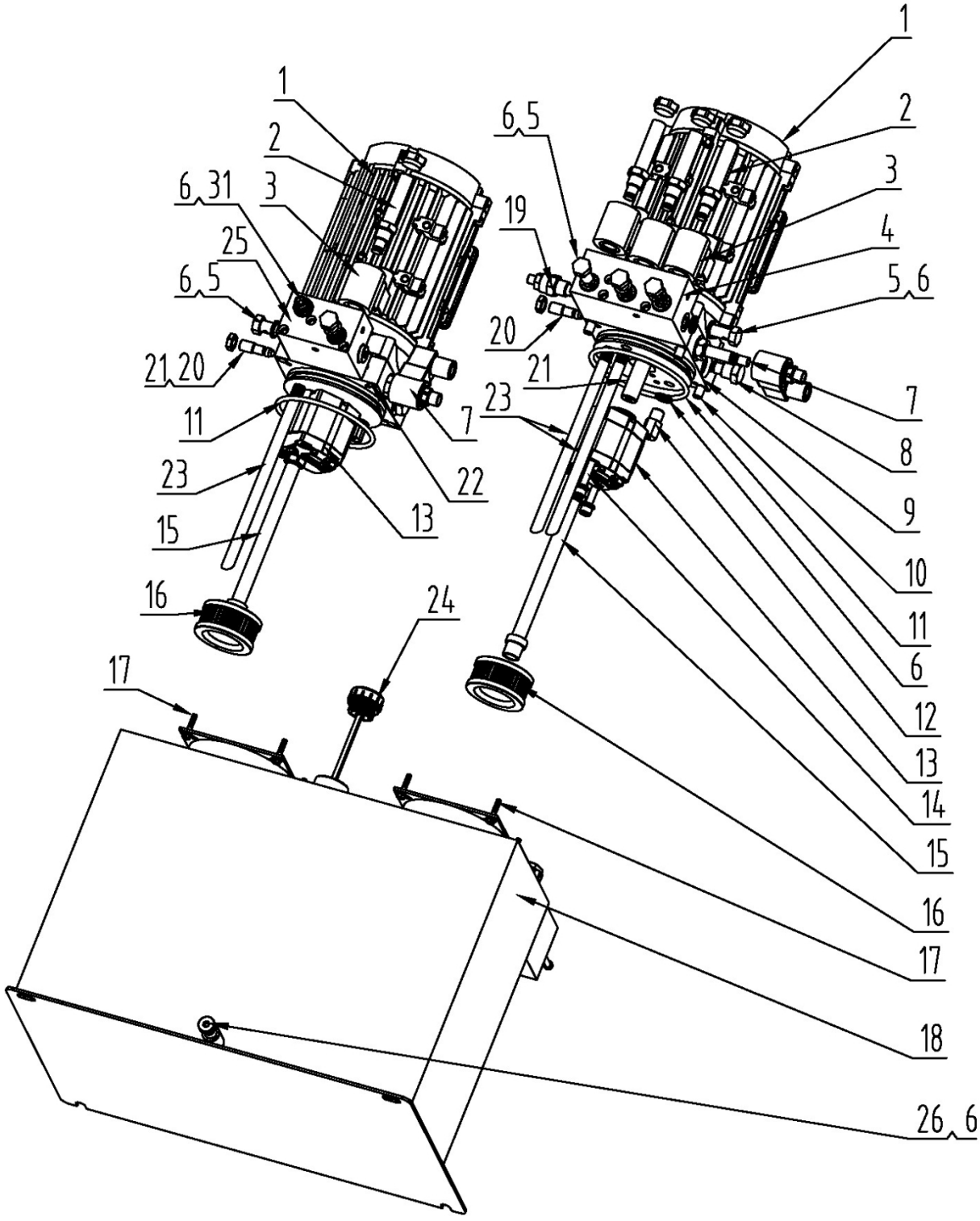
Hydraulic lines for the wheel platform



S/N	Code	Name	Specification	Quantity
1	624008161	Oil hose	L=6660 mm	2
2	624008163	Oil hose	L=6300 mm	3
3	624008166	Oil hose	L=1100mm	1
4	624008165	Oil hose	L=4500 mm	1
5	624001128	Oil hose	L=3620mm	1
6	624008162	Oil hose	L=6660 mm	1
7	624008248	Oil hose	L=6660 mm	1
8	624008249	Oil hose	L=6300 mm	1
9	624008189	Oil hose	L=5600mm	1
10	624008250	Oil hose	L=1100mm	1
11	624008251	Oil hose	L=600 mm	1
12	624008160	Oil hose	L=650 mm	1
A2	615026701	Master cylinder	HX6-SMCYL	1
B2	615026702	Slave cylinder	HX6-SSCYL	1
	625000040	Slave cylinder (replaces 615026702 from 31 October 2024)	YG80-95-45-150-KS	1
C	207103025	Composite disc	13_7X20X1_5	3
D	330305009	Straight connection with throttle valve	BDPF-G14-G14-I60	2
E	310101010	Straight connection	G1/4---G1/4	1
F	410210181	Three-way connector	6603B-A9-B7	1
G	410210191	Straight connection	6603B-A9-B8	5



S/N	Code	Name	Specification	Quantity
1	624008224	Oil hose	L=800 mm	4
2	624008169	Oil hose	L=4000mm	10
3	624008170	Oil hose	L=6300mm	8
4	624008172	Oil hose	L=2200mm	2
5	624008171	Oil hose	L=1200 mm	2
7	624008174	Oil hose	L=4500mm	2
8	624008223	Oil hose	L=700 mm	4
9	624008175	Oil hose	L=310 mm	1
10	624008176	Oil hose	L=510 mm	1
11	624008160	Oil hose 650	L=650 mm	1
A3	625000004	PD8 cylinder 1	YG30-40-20-53-59	1
B3	625000018	PD8 Cylinder 2	YG30-40-20-53-70	1
C	207103025	Washer	13_7X20X1_5	16
F	410210181	Three-way connector	6603B-A9-B7	5
G	410210191	Straight connector	6603B-A9-B8	20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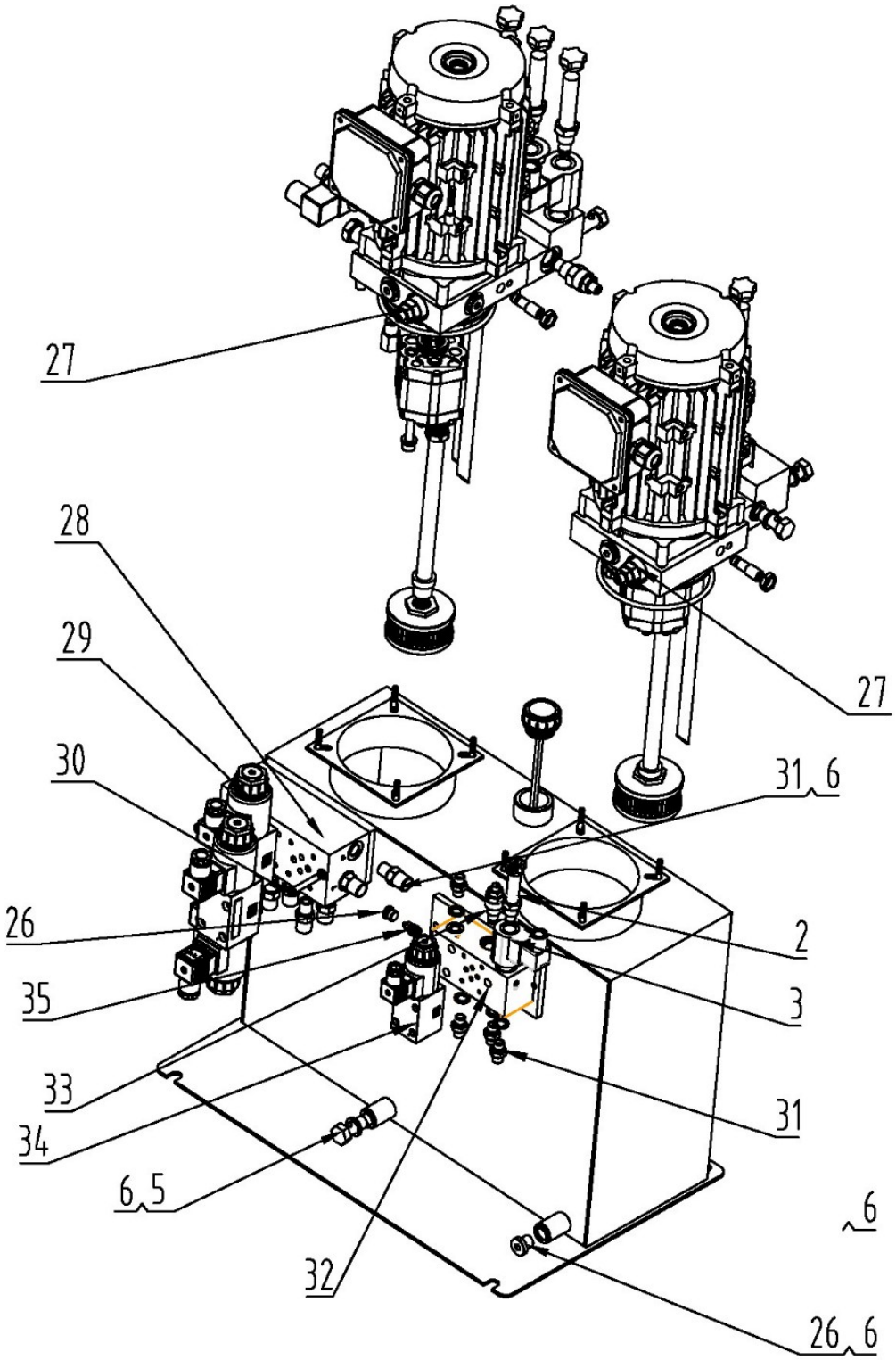
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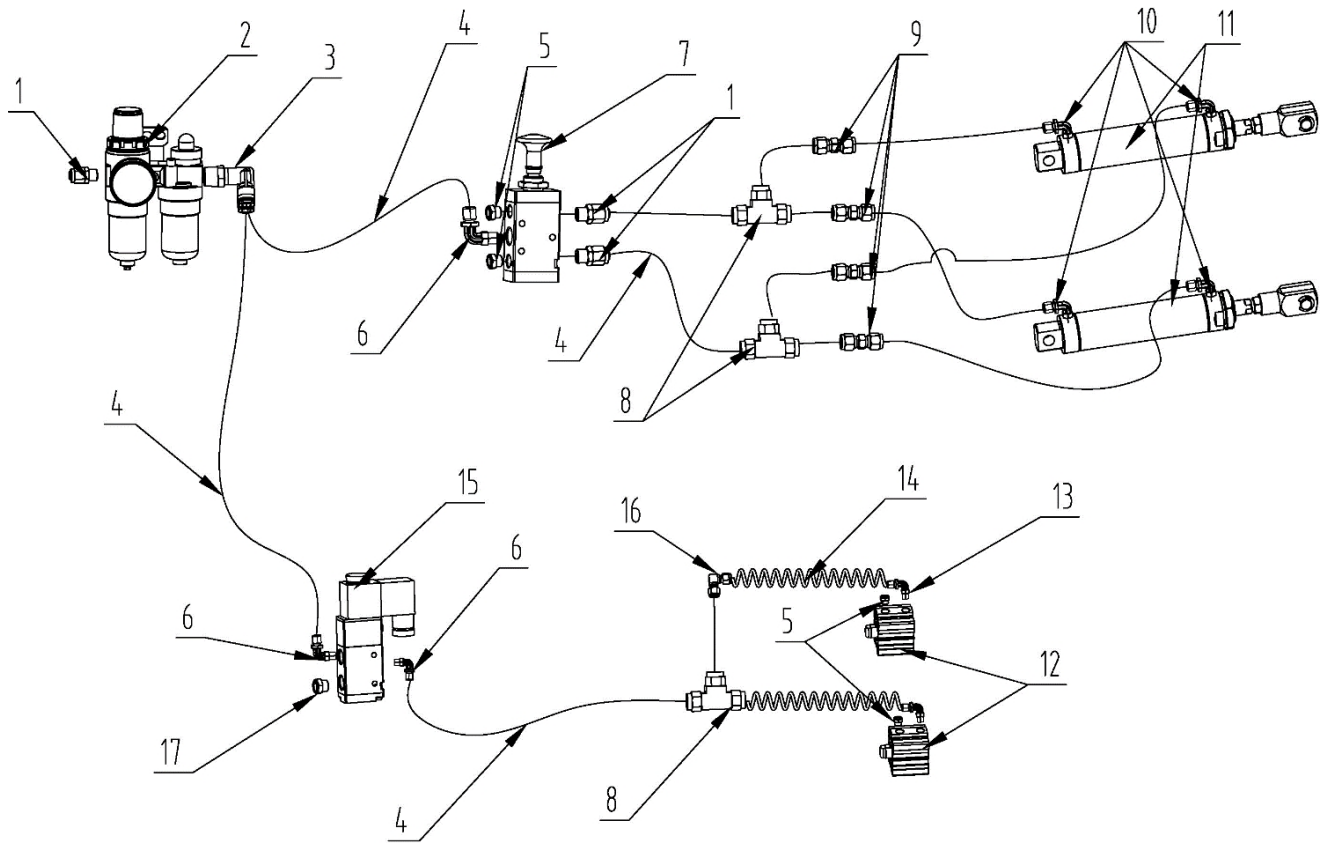
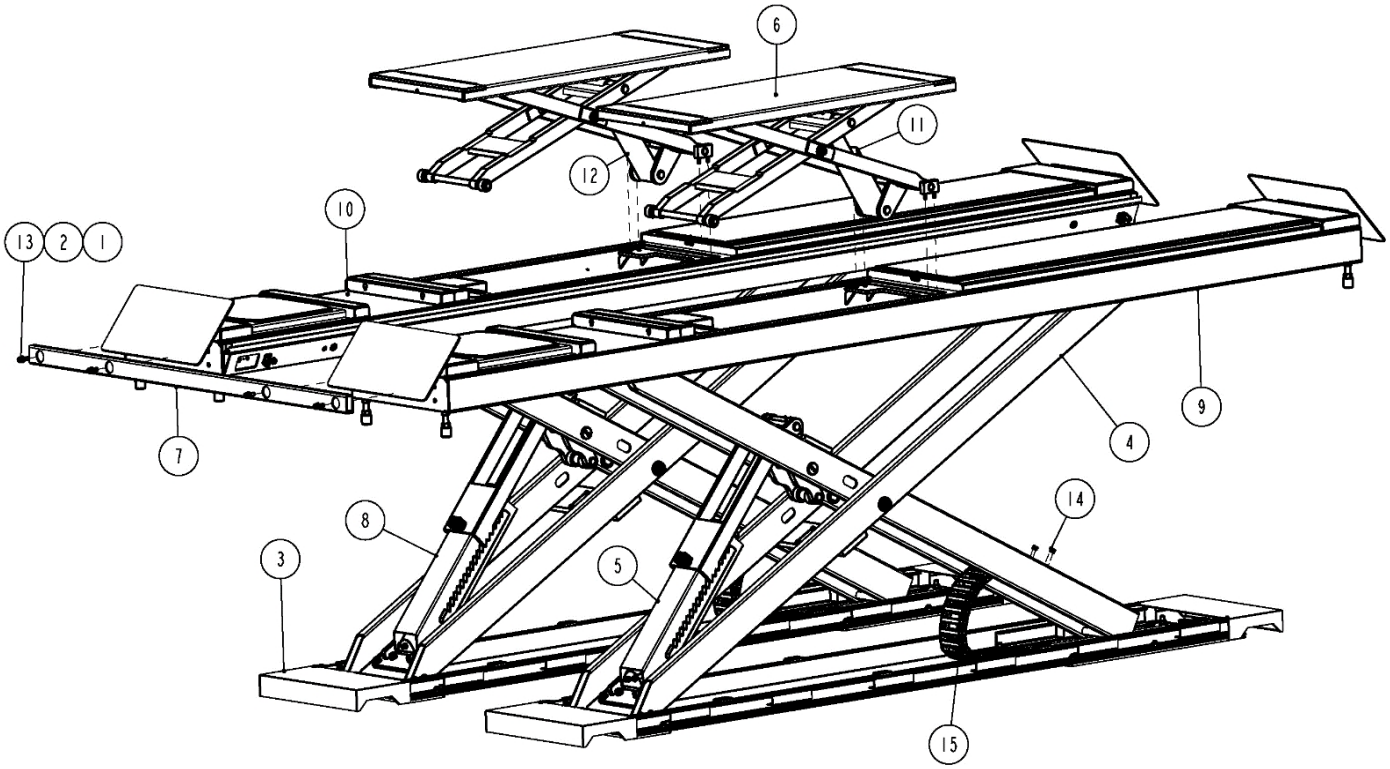
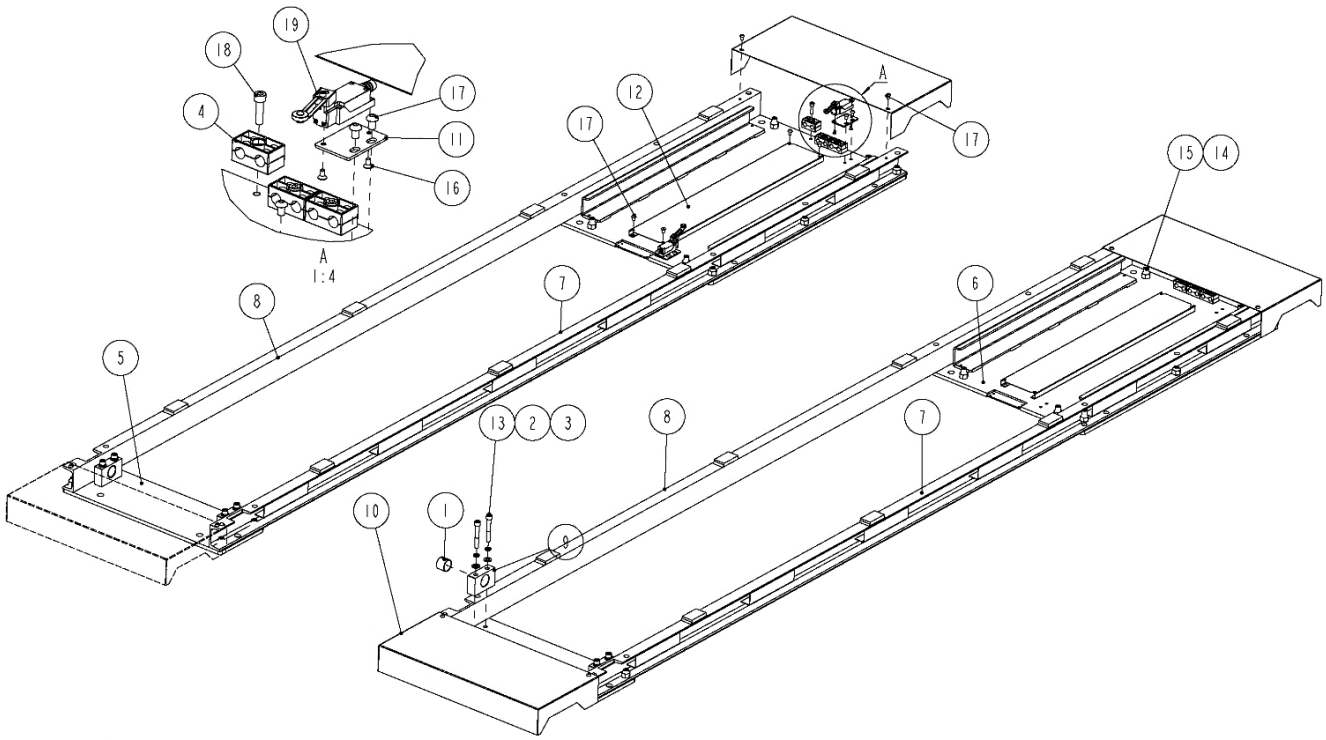
S/N	Code	Name	Specification	Quantity
1	320203001	Motor	380V-3.5KW-3PH-50HZ-2P	2
	320203007	Motor	220V/3.5KW-3PH-60HZ-2P	2
	320203005	Motor	400V/3.5KW-3PH-50HZ-2P	2
2	330308040	Valve piston for solenoid valve (YV3, YV5, YV4, YV6)	LSV-08-2NCSP-LM	5
3	330308039	Solenoid coil (YV3, YV5, YV4, YV6)	HC-C-16-D24	5
4	330105038	Hydraulic block	LA50292	1
5	410281130	Connection for cylinder	CJ-A12-B5-C10	8
6	207103025	Washer	13_7X20X1_5	16
7	330305022	Solenoid valve relief valve assembly	DC24V	2
8	330302006	Check valve	M12X1	2
9	330105039	Hydraulic block	LA50291	1
10	202109064	Cylinder head screw with hexagon socket	M8x85-GB70_1	
11	207101166	Sealing ring type O	110*5	2
12	202109144	Cushion valve	M5x18	2
13	330201015	Gear pump	CBK-F233-G	2
14	202109072	Hexagonal cylinder head screw	M8x85-GB70_1	4
15	330401002	Oil suction pipe	YX-BL=230	2
16	330403001	Filter	YG-C	2
17	201103001	Hexagonal flange screw	M5x25-GB5789	8
18	330405071	Steel oil tank	28L	1
19	330305022	Throttle valve	LNV2-08	1
20	330305023	Throttle valve	M12X1	1
21	330404007	Coupling	46 mm (LBZ-T202BK-1)	2
22	330105041	Hydraulic block	LA10081	1
23	330402001	Oil return pipe	YH-D	3
24	330502013	Oil tank cap	YBZ-BT-M30*2-B	1
25	330105075	Hydraulic block	LA50692	1
26	210101004	Hexagonal flat head screw connection	G1/4	1
27	330304007	Pressure relief valve	YF08-40	2
28	330105042	Hydraulic block	LA10161	1
29	330308044	Solenoid valve (3P4W)	DSG-02-3C2-DL-DC24	2
30	202109026	Hexagonal cylinder head screw	M6X60-GB70_1	2
31	310101010	Straight connector	G1/4---G1/4	6
32	330105076	Hydraulic block	LA50651-B	1
33	330304015	Pressure relief valve	RV-08-36	1
34	330308051	Solenoid valve	4WE6Y6X/ED24LL	1
35	330308041	Pressure compensating valve	IFC-6T-4	1



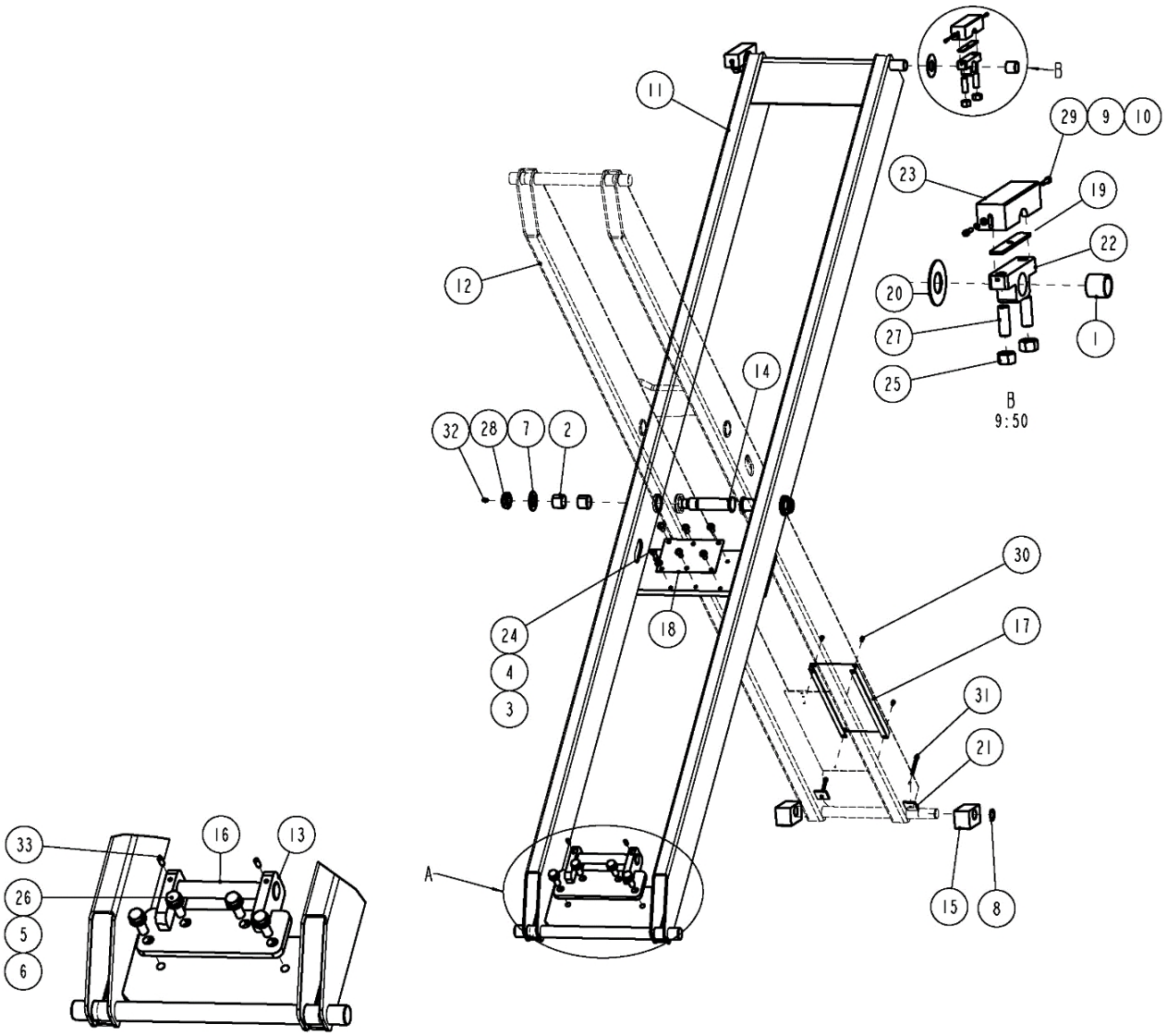
S/N	Code	Name	Specification	Quantity
1	310101015	Straight connection	KLC8-02	3
2	321004006	Air filter combination	AFC2000-M	1
3	310103008	Triple angle connector	PX8-M14S	1
4	123010201	Air hose	D=8	
5	310201003	Silencer	SLM01-R1-8	4
6	310102015	Elbow connector	KLL8-02	3
7	330301002	Pull valve	4L210-08	1
8	310103006	Three-way plug	KLE-8	3
9	310101055	Straight connection	KLU-8	4
10	310102024	Elbow connector	KLL8-01	4
11	310502001	Pneumatic cylinder	MA40X100SCA	2
12	310501001	Pneumatic cylinder	CQ2B32X20-A	2
13	310102024	Elbow connector	KLL8-01	2
14	310601001	Spiral hose	CL-0850-6 6M	1
15	310401001	Pneumatic solenoid valve	3V210-08DC24V	1
16	310102026	Pneumatic connection with elbow	KLV-8	1
17	310201002	Silencer	SLM02-R1-4-M12	1



S/N	Code	Name	Specification	Quantity
1	204201006	Spring	D12-GB93	4
2	204101007	Washer	D12-GB95	4
3	615068568	Base	HX50-A1	1
4	615068569	Support arm	HX50-A2	2
5	615068573	Master cylinder	HX50-A4	1
6	615068575	Wheel-free jack	HX50-A5	2
7	410911759	Connecting beam	HX50-A10	1
8	615068574	Auxiliary cylinder	HX50-A4B	1
9	615068749	Platform A assembly 54L	HX50PD54L-A3	1
10	615068750	Platform A Assembly 54L	HX50PD54L-A3B	1
11	615060140	Master cylinder of the wheel lift	HX6-A5	1
12	615026702	Auxiliary cylinder	HX6-SSCYL	1
	625000040	Auxiliary cylinder (replaces 615026702 since 31 October 2024)	YG80-95-45-150-KS	1
13	202109053	Hexagon cylinder head screw	M12X35-GB70_1	4
14	202109007	Hexagon cylinder head screw	M5X8-GB70_1	16
15	208108013	Plastic chain cover	VBP31_F103_R55_N22	2



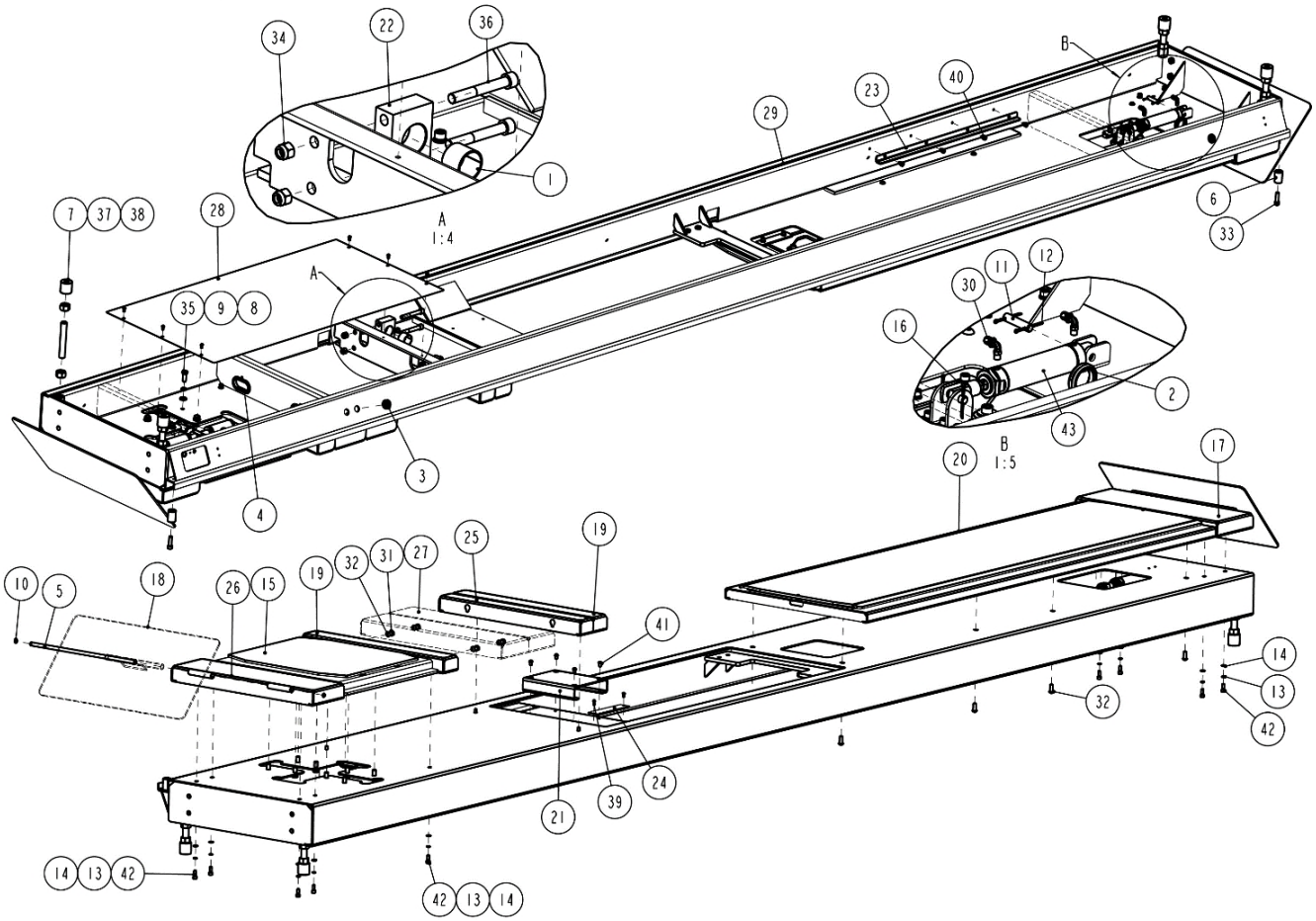
S/N	Code	Name	Specification	Quantity
1	205101109	Bearing	3530-SF-1X	4
2	204201006	Spring washer	D12-GB93	8
3	204101007	Washer	D12-GB95	8
4	208101039	Double hole hose clamp	GJTXG1-214	6
5	410911254	Small base plate	HX50-A1-B1	2
6	614901627	Large base plate A	HX50-A1-B2	2
7	614901628	Slotted beam connection A	HX50-A1-B3	2
8	614901629	Connection for slotted beam B	HX50-A1-B4	2
9	410911203	Bracket for lower support	HX50-A1-B6	4
10	410911204	Base cover	HX50-A1-B7	4
11	410911381	Retaining plate for limit switch	HX50-A1-B8	2
12	410911200	Oil hose cover	HX50-A1-B10	2
13	202109099	Hexagon socket cylinder head screw	M12x80-GB70_1	8
14	203101009	Type I hexagon nut	M16-GB6170	28
15	202205002	Flat head locking screw	M16X50-GB77	28
16	202111001	Countersunk screw with hexagon socket	M5X10-GB70_3	4
17	202110004	Hexagon socket head screw	M8X12-GB70_2	20
18	202109031	Hexagon socket head cap screw	M8X30-GB70_1	6
19	320301011	Limit switch 8108	TZ8108	2



S/N	Code	Name	Specification	Quantity
1	205101020	Bearing	3030-SF-1X	2
2	205101109	Bearing	3530-SF-1X	4
3	204201005	Spring washer	D10-GB93	6
4	204101006	Washer	D10-GB95	6
5	204201010	Spring washer	D16-GB93	4
6	204101009	Washer C	D16-GB95	4
7	204101014	Washer C	D27-GB95	2
8	204301011	Ring	D30-GB894_2	2
9	204201002	Spring washer	D5-GB93	4
10	204101003	Washer	D5-GB95	4
11	614901630	Outer arm	HX50-A2-B1	1
12	614901631	Inner arm	HX50-A2-B2	1
13	614901632	Lower cylinder holder	HX50-A2-B3	1
14	410911214	Central shaft of the arms	HX50-A2-B4	2
15	420680133	Lower sliding block	HX50-A2-B5	2

S/N	Code	Name	Specification	Quantity
16	410911215	Lower cylinder shaft	HX50-A2-B7	1
17	410911216	Hose cover	HX50-A2-B9	1
18	410911206	Wheel cover plate	HX50-A2-B10	1
19	410911454	Adjustable cushion plate	HX50-A2-B12	2
20	410911452	Large washer	HX50-A2-B13	2
21	410911716	Spacer plate	HX50-A2-B15	2
22	410911455B	Adjustable cushion plate	HX50-A2-B11_1	2
23	420680134B	Upper sliding block	HX50-A2-B6_1	2
24	202110012	Hexagon socket head screw	M10X25-GB70_2	6
25	203101009	Type I hexagon nut	M16-GB6170	4
26	201103007	Hexagon head fully threaded bolt	M16X45-GB5783	4
27	202205002	Hexagon head fully threaded bolt	M16X50-GB77	4
28	203103016	Hexagon lock nut	M27X3-GB6172_1	2
29	202109011	Hexagon socket head cap screw	M5X20-GB70_1	4
30	202109007	Cylinder head screw with hexagon socket	M5X8-GB70_1	4
31	202109026	Cylinder head screw with hexagon socket	M6X60-GB70_1	2
32	208106001	Grease injection shell	M8X1-JB9740_1	2
33	20220801	Hexagon socket cylinder head screw	M8X20-GB79	2

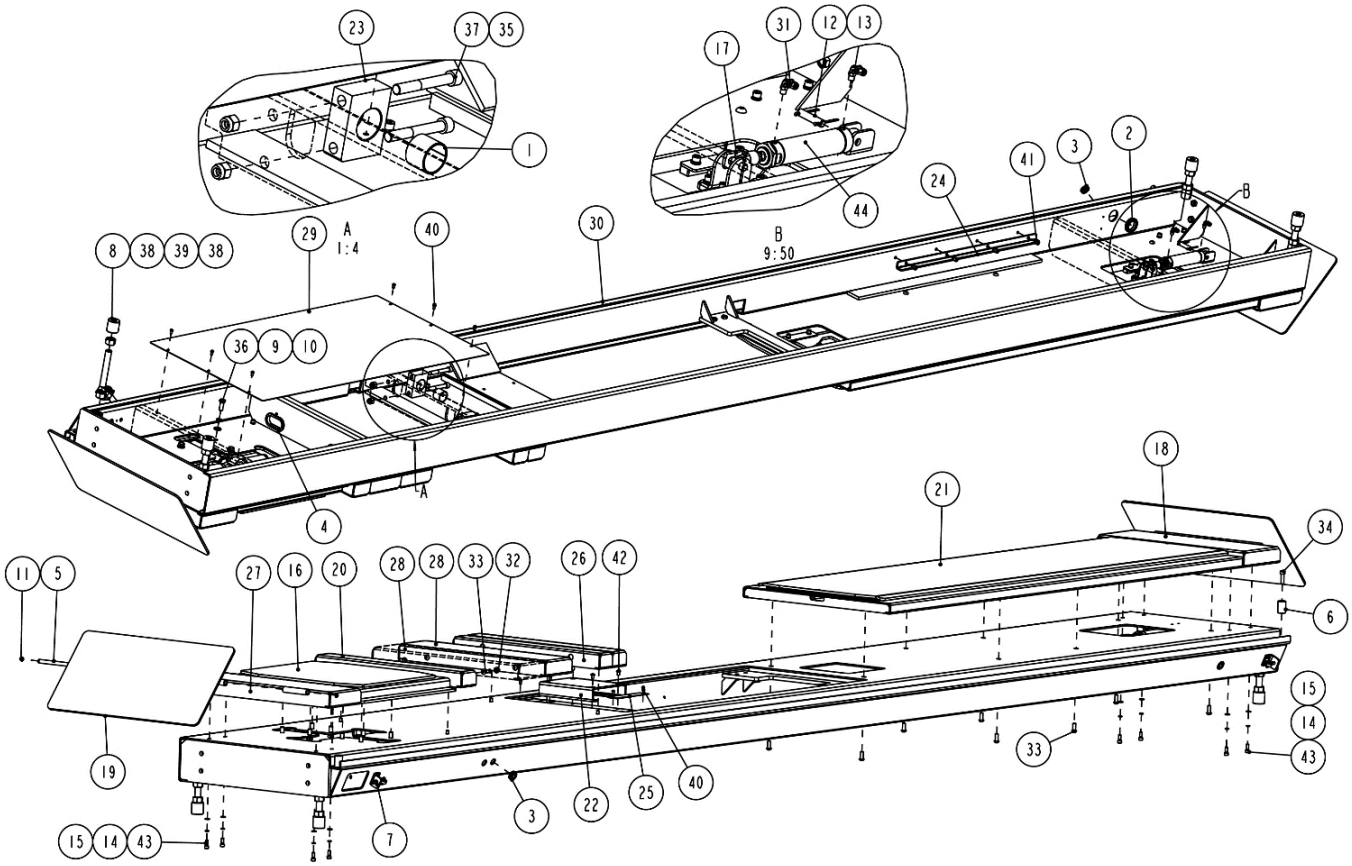
Platform A



S/N	Code	Name	Specification	Number
1	205101109	Bearing	3530-SF-1X	2
2	420040030	Protective ring Φ40	6254E-A21	1
3	420040020	Protective ring Φ20	6254E-A22	2
4	420250050B	Protective ring	6604B-A17	3
5	410250211	Shaft of the ramp	6604V2-A4-B12	2
6	420260040	Limit block	6605B-A21	2
7	420260010	Adjustable nylon block	6605B-A1-B8	4
8	204201006	Spring	D12-GB93	8
9	204101007	Washer	D12-GB95	8
10	204301002	Retaining ring	D12-GB894_1	4
11	206103005	Pin with hole	D12X55-GB880	1
12	206201004	Cotter pin	D3X45-GB91	2
13	204201004	Spring washer	D8-GB93	12
14	204101005	Washer	D8-GB95	12
15	615068567	PD8 assembly	EE-PD8-50	1
16	310304002	Y connection	F-M12X125-Y	1
17	614901635	Fixed box 205 mm	HX50-A3-B2	2

S/N	Code	Name	Specification	Quantity
18	614901637	Small ramp	HX50-A3-B4	2
19	614901712	Fixed box 80 mm	HX50-A3-B5	2
20	615068572	Mounting slide plate	HX50-A3-B7	1
21	410911291	Limiting plate for the wheel-free jack	HX50-A3-B8	1
22	410911223	Upper bracket	HX50-A3-B9	2
23	410911383	Upper plate with anti-rotation device	HX50-A3-B10	2
24	410911218	Anti-wear plate	HX50-A3-B11	2
25	614901713	Flexible box – 70 mm	HX50-A3-B14	1
26	614901714	Flexible box – 175 mm	HX50-A3-B15	1
27	614901763	Flexible box – 150 mm	HX50-A3-B20	2
28	410912212	PD plate	HX50-A3-B25	1
29	614901888	Welded platform A-54L	HX50PD54L-A3-B1	1
30	310302001	Pneumatic quick connector with elbow joint	TKN-PH8-01	2
31	203101006	Hex nut	M10-GB6170	6
32	202110012	Hexagon socket head screw	M10X25-GB70_2	14
33	202109044	Hexagon socket head cap screw	M10X35-GB70_1	2
34	203103008	Hexagon lock nut	M12-GB889_1	4
35	201102027	Square screw with full thread	M12X30-GB5783	8
36	202109155	Hexagon socket head cap screw	M12X90-GB70_1	4
37	203101012	Hexagon nut	M20-GB6170	8
38	202205005	Hexagon socket set screw with flat head	M20X140-GB77	4
39	202110003	Hexagon socket head screw	M6X12-GB70_2	10
40	202109148	Hexagon socket head cap screw	M8X10-GB70_1	8
41	202110004	Hexagon socket head screw	M8X12-GB70_2	4
42	202109029	Hexagon socket head cap screw	M8X20-GB70_1	12
43	310502001	Pneumatic cylinder	MA40X100SCA	1

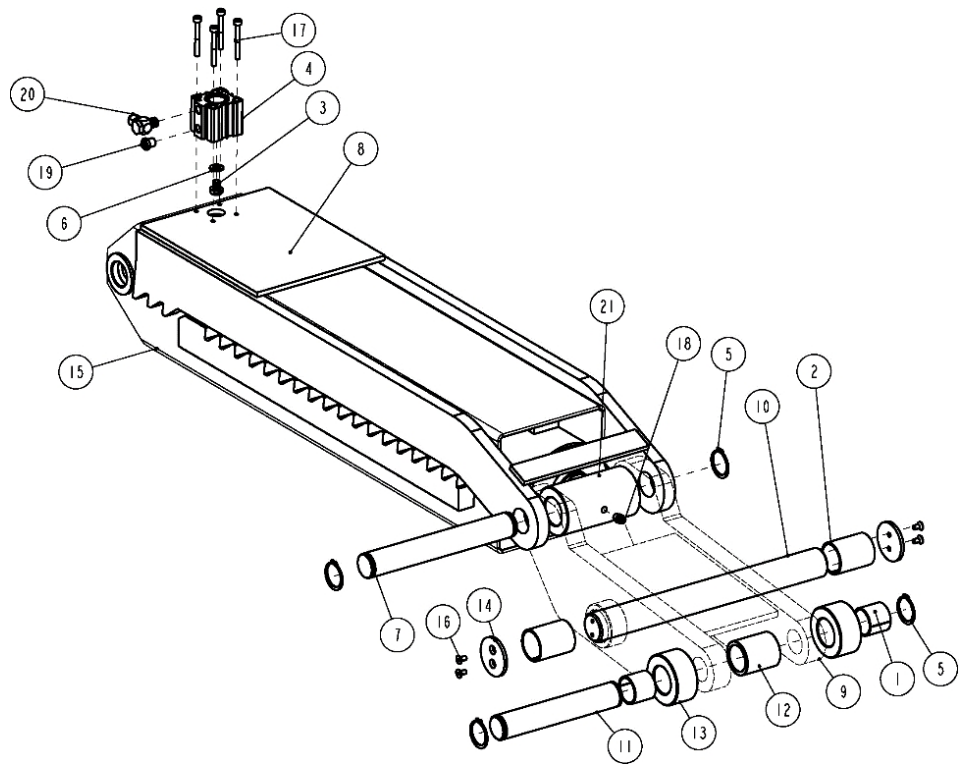
Platform B



S/N	Code	Name	Specification	Number
1	205101109	Bearing	3530-SF-1X	2
2	420040030	Protective ring Φ40	6254E-A21	1
3	420040020	Protective ring Φ20	6254E-A22	2
4	420250050B	Protective ring	6604B-A17	3
5	410250211	Shaft of the ramp	6604V2-A4-B12	2
6	420260040	Stop block	6605B-A21	2
7	615026012	Locking device	6605B-A22	2
8	420260010	Adjustable nylon block	6605B-A1-B8	4
9	204201006	Spring washer	D12-GB93	8
10	204101007	Flat washer	D12-GB95	8
11	204301002	Retaining ring	D12-GB894_1	4
12	206103005	Pin with hole	D12X55-GB880	1
13	206201004	Cotter pin	D3X45-GB91	2
14	204201004	Spring washer	D8-GB93	12
15	204101005	Flat washer	D8-GB95	12
16	615068567	PD8 assembly	EE-PD8-50	1
17	310304002	Y connector	F-M12X125-Y	1
18	614901635	Fixed box 205 mm	HX50-A3-B2	1

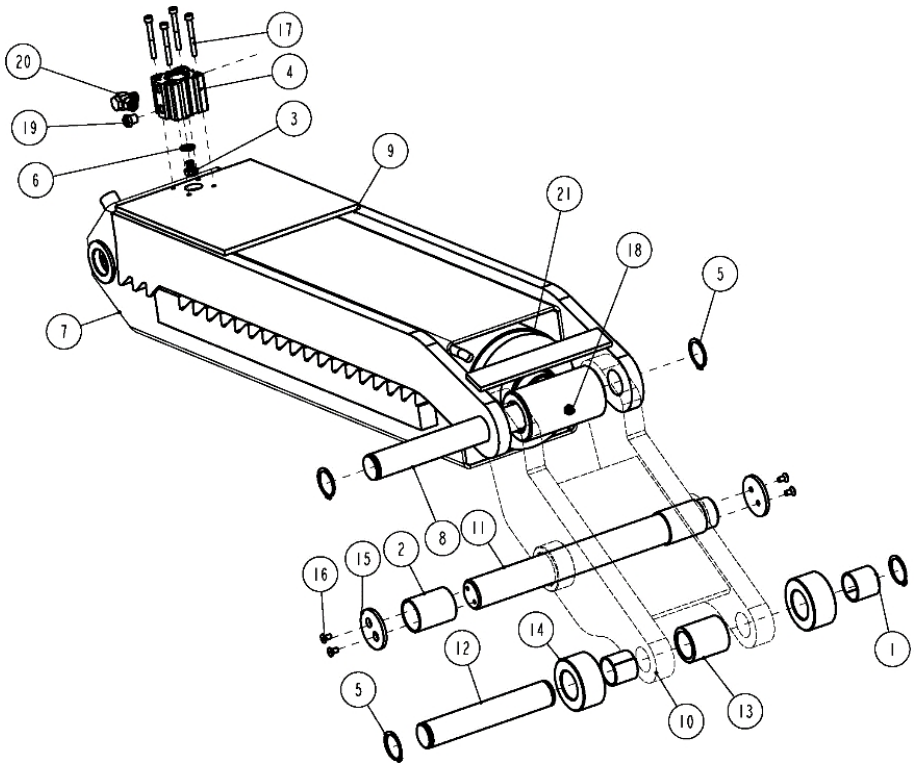
S/N	Code	Name	Specification	Quantity
19	614901637	Small ramp	HX50-A3-B4	2
20	614901712	Fixed box 80 mm	HX50-A3-B5	2
21	615068572	Sliding plate assembly	HX50-A3-B7	1
22	410911291	Limiting plate for the wheel-free jack	HX50-A3-B8	1
23	410911223	Upper holder	HX50-A3-B9	2
24	410911383	Anti-tip plate	HX50-A3-B10	2
25	410911218	Wear plate	HX50-A3-B11	2
26	614901713	Flexible box 70 mm	HX50-A3-B14	1
27	614901714	Flexible box 175 mm	HX50-A3-B15	1
28	614901763	Flexible box 150 mm	HX50-A3-B20	2
29	410912212	PD plate	HX50-A3-B25	1
30	614901889	Welded platform B-54L	HX50PD54L-A3B-B1	1
30	310302001	Air hose connection	TKN-PH8-01	2
32	203101006	Hexagon nut	M10-GB6170	6
33	202110012	Hexagon screw with pan head	M10X25-GB70_2	14
34	20210904	Hexagon screw with cylinder head	M10X35-GB70_1	2
35	203103008	Hexagon lock nut	M12-GB889_1	4
36	201102027	Hexagon screw with solid swivel	M12X30-GB5783	8
37	202109155	Hexagon screw with cylinder head	M12X90-GB70_1	4
38	203101012	Hexagon nut	M20-GB6170	8
39	202205005	Hexagon screw with flat head and lock	M20X140-GB77	4
40	202110003	Hexagon screw with pan head	M6X12-GB70_2	10
41	202109148	Hexagon screw with cylinder head	M8X10-GB70_1	8
42	202110004	Hexagon screw with pan head	M8X12-GB70_2	4
43	202109029	Hexagon screw with cylinder head	M8X20-GB70_1	12
44	310502001	Pneumatic cylinder	MA40X100SCA	1

Slave cylinder and locking device for a wheel mounting platform



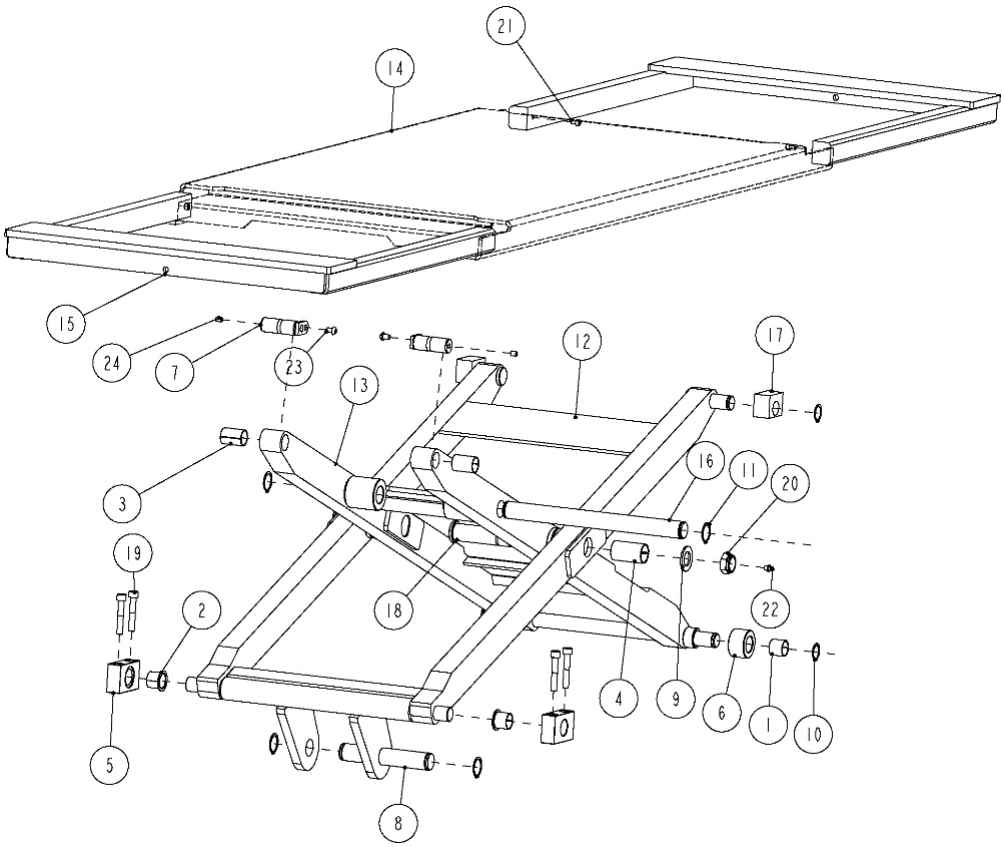
S/N	Code	Name	Specification	Quantity
1	205101020	Bearing	3030-SF-1X	2
2	205101030	Bearing	3550-SF-2X	2
3	420420010	Adjustable head	66035-A03-B09	1
4	310501001	Pneumatic cylinder	CQ2B32X20-A	1
5	204301011	Retaining ring	D30-GB894_2	4
6	204101005	Washer	D8-GB95	1
7	410911226	Upper shaft of the oil cylinder	HX50-A4-B2	1
8	614901641	Welded large side plate	HX50-A4-B3	1
9	614901642	Start plate	HX50-A4-B4	1
10	410911229	Central plate for the start plate	HX50-A4-B5	1
11	410911230	Shaft for roller wheel	HX50-A4-B6	1
12	410911231	Spacer for the starting plate	HX50-A4-B7	1
13	410911232	Rolling wheel	HX50-A4-B8	2
14	410911380	Stop plate for shaft	HX50-A4-B9	2
15	614901643	Welded secondary safety ratchet	HX50-A4B-B1	1
16	310302001	Hexagon screw with flat head	M5X10-GB70_3	4
	202111027	Hexagon screw with flat head (replaces 202111001 since May 2025)	M5X16-GB70_3	4
17	202109014	Hexagon socket cylinder head screw	M5X45-GB70_1	4
18	208106001	Grease injection container	M8X1-JB9740_1	1
19	310201003	Silencer	SLM01-R1-8	1
20	310302001	Air hose connection	TKN-PH8-01	1
21	615068517	Slave cylinder for wheel carrier platform	YG100-114-50-645	1

Master cylinder and locking device for wheel mounting platform



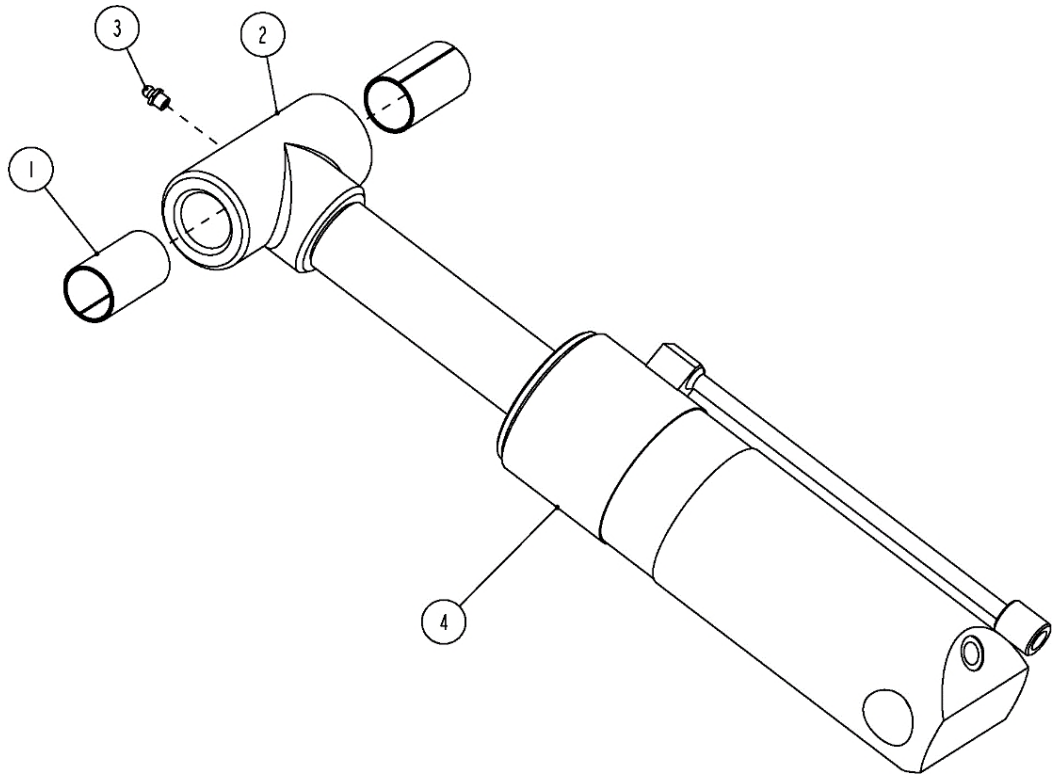
S/N	Code	Name	Specification	Quantity
1	205101020	Bearing	3030-SF-1X	2
2	205101030	Bearing	3550-SF-2X	2
3	420420010	Adjustable head	66035-A03-B09	1
4	310501001	Pneumatic cylinder	CQ2B32X20-A	1
5	204301011	Ring	D30-GB894_2	4
6	204101005	Washer	D8-GB95	1
7	614901640	Mechanical lock for the main platform	HX50-A4-B1	1
8	410911226	Upper shaft of the oil cylinder	HX50-A4-B2	1
9	614901641	Welded large side plate	HX50-A4-B3	1
10	614901642	Start plate	HX50-A4-B4	1
11	410911229	Central plate for the start plate	HX50-A4-B5	1
12	410911230	Shaft for roller wheel	HX50-A4-B6	1
13	410911231	Spacer for the starting plate	HX50-A4-B7	1
14	410911232	Rolling wheel	HX50-A4-B8	2
15	410911380	Stop plate for shaft	HX50-A4-B9	2
16	202111001	Hexagon screw with flat head	M5X10-GB70_3	4
	202111027	Hexagon screw with flat head (replaces 202111001 since May 2025)	M5X16-GB70_3	4
17	202109014	Hexagon socket head cap screw	M5X45-GB70_1	4
18	208106001	Grease injection container	M8X1-JB9740_1	1
19	310201003	Silencer	SLM01-R1-8	1
20	310302001	Air hose connection	TKN-PH8-01	1
21	615068516	Master cylinder for wheel carrier platform	YG120-140-67-645	1

Mounting platform without wheels



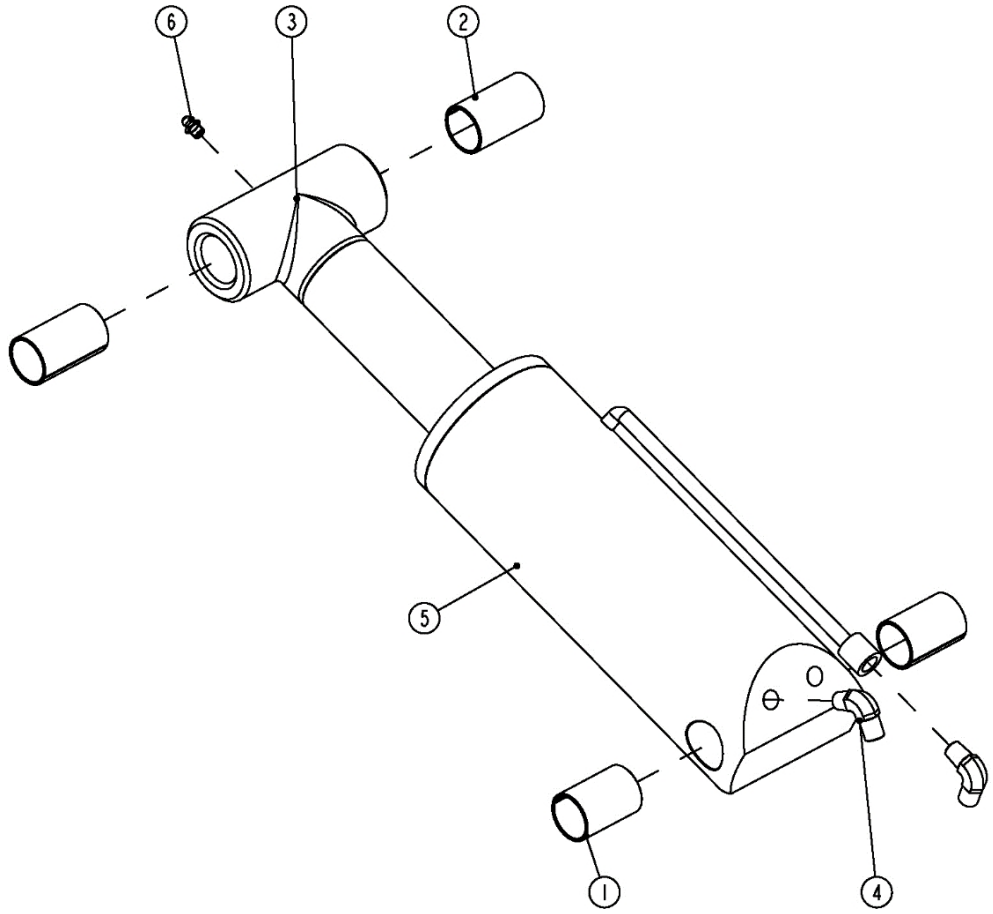
S/N	Code	Name	Specification	Quantity
1	205101010	Socket	2525-SF-1X	2
2	205103003	Flange socket	2525F	2
3	205101094	Bushing	2540-SF-1X	2
4	205101024	Socket	3055-SF-1X	2
5	410276701	Lower holder	6435BWF-C03-20	2
6	410276711B	Rolling wheel	6435BWF-C03-21	2
7	612019504	Welded rotary shaft unit	65012-A1-B5	2
8	410254541	Lower cylinder shaft for the wheel-free jack	6604V2-A7-B7	1
9	204101012	Washer	D24-GB95	2
10	204301009	Snap ring	D25-GB894_2	4
11	204301011	Ring	D30-GB894_2	4
12	614901644	Outer support arm of the wheel lift	HX50-A5-B1	1
13	614901645	Inner support arm of the wheel lift	HX50-A5-B2	1
14	614901646	Platform of the wheel lift	HX50-A5-B3	1
15	614901647	Platform extension	HX50-A5-B4	2
16	410911239	Upper cylinder shaft for the wheel-free jack	HX50-A5-B5	1
17	420680135	Upper sliding block for the wheel-free jack	HX50-A5-B6	2
18	410911240	Middle shaft of the support arm	HX50-A5-B7	2
19	202109153	Hexagon socket head cap screw	M10X60-GB70_1	4
20	203103018	Hexagon lock nut	M24X3-GB6172_2	2
21	202109018	Hexagon socket head cap screw	M6X10-GB70_1	4
22	208106001	Grease injection container	M8X1-JB9740_1	2
23	202110004	Hexagon socket head screw	M8X12-GB70_2	2
24	208106002	Press-fit pot for grease	M8YP-JB9740_4	2

Slave cylinder for wheel-free jack

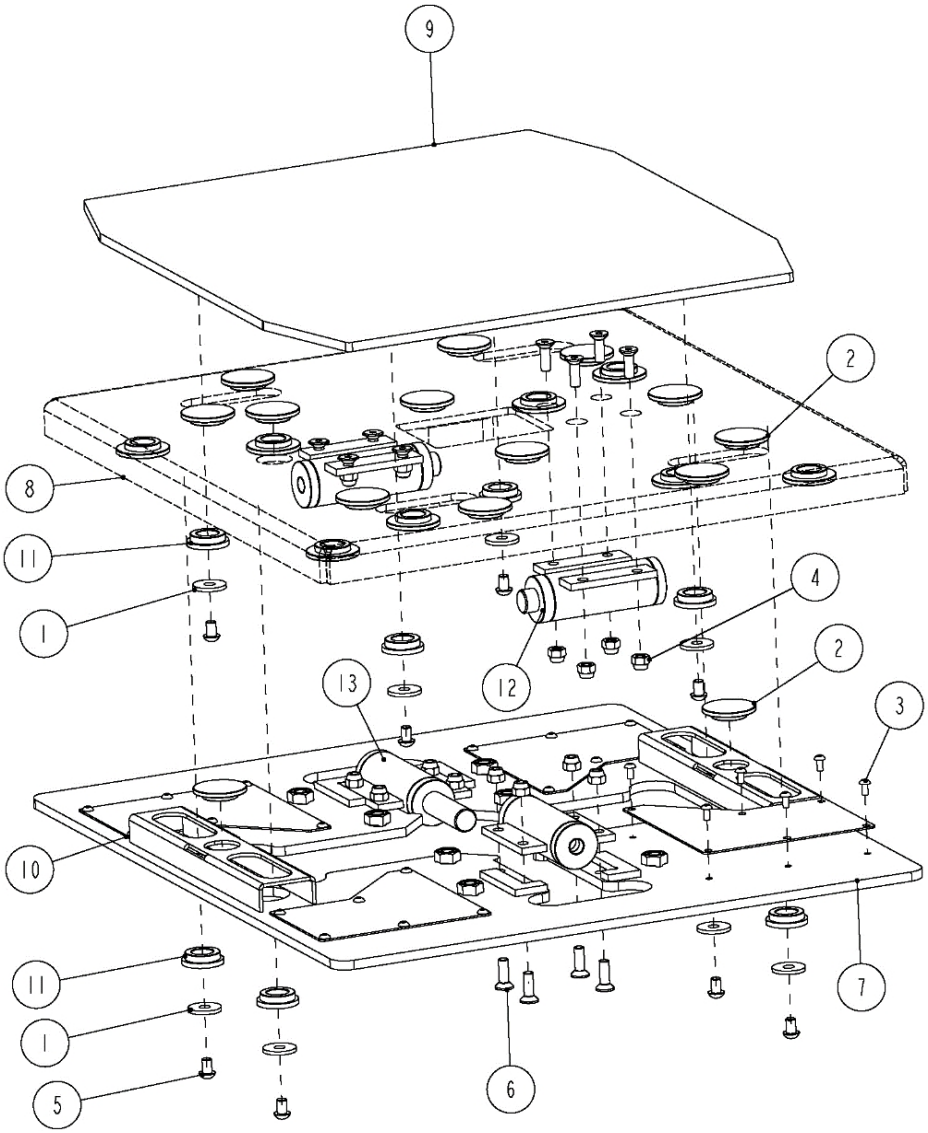


S/N	Code	Name	Specification	Quantity
1	205101025	Bearing	3058-SF-2X	2
2	410212090	T-shaped cylinder connection	6603B-A3-B8	1
3	208106001	Grease injection container	M8X1-JB9740_1	1
4	615026702	Wheel lift slave cylinder	HX6-SSCYL	1
	625000040	Recipient cylinder for wheel lift (replaces 615026702 since 31 October 2024)	YG80-95-45-150-KS	1

Master cylinder for wheel lift



S/N	Code	Name	Specification	Quantity
1	205101023	Bearing	3050-SF-1X	2
2	205101025	Bearing	3058-SF-2X	2
3	410212090	T-shaped cylinder connection	6603B-A3-B8	1
4	410210011	Right-angle connection	6603B-A9-B4	2
5	615026701	Master cylinder of the wheel lift	HX6-SMCYL	1
6	208106001	Grease injection container	M8X1-JB9740_1	1



S/N	Code	Name	Specification	Quantity
1	204104203	Large washer	D8-GB5287	8
2	420310020C	Nylon washer	GEG-PD-A1-B5	22
3	202110001	Hexagon screw with pan head	M5X8-GB70_2	24
4	203103006	Lock nut	M8-GB889_1	16
5	202110004	Hexagon screw with pan head	M8X12-GB70_2	8
6	202111035	Hexagon screw with flat head	M8X25-GB70_3	16
7	614901648	Base	PD8-50-A1-B1	1
8	614901649	Central box	PD8-50-A1-B2	1
9	612901650	Upper cover plate	PD8-50-A1-B3	1
10	410911244	Stainless steel backing plate	PD8-50-A1-B4	4
11	420680136	Nylon sleeve	PD8-50-A1-B5	8
12	625000004	PD cylinder 1	YG30-40-20-53-59	2
13	625000018	PD Cylinder 2	YG30-40-20-53-70	2

We have endeavoured to provide you with complete and detailed information to ensure smooth installation and operation. However, if you encounter any problems during the installation and operation of your lifting platform or have any questions about individual parts, please contact the expert staff at TWIN BUSCH® GmbH.

Number:

Processing status: 00/00

Operating instructions

Operation:

Motor vehicle lifting platform

Workplace/area of activity:

1. AREA OF APPLICATION

Working with the vehicle lift

2. HAZARDS TO PEOPLE AND THE ENVIRONMENT

- Dangers from falling and falling parts and loads
- When moving the lifting platform, there is a risk of crushing and shearing points

3. PROTECTIVE MEASURES AND RULES OF CONDUCT

- Persons who operate lifting platforms independently must be at least 18 years of age.
- Operators must be trained, have proven their competence and be commissioned in writing by the employer.
- The manufacturer's operating instructions must be observed!
- When several persons are working, a supervisor must be appointed.
- Perform a function test before each start-up.
- Only put tested lifting platforms into operation.
- Be aware of pinch and shear points in the working area and avoid them.
- Do not exceed the maximum permissible load on the lifting platform.
- Only attach load-bearing equipment to the designated attachment points on the vehicle.

- Persons must not remain within the movement range of the lifting platform during lifting and lowering.
- Do not cause the lifting platform to vibrate (avoid rocking).
- Secure the vehicle against movement (apply the parking brake if necessary).
- It is forbidden to ride on the lifting platform!
- Lashing down the vehicle if the centre of gravity shifts due to the removal of heavy components.
- The necessary personal protective equipment must be used: close-fitting work clothing.

4. BEHAVIOUR IN THE EVENT OF MALFUNCTIONS

- In the event of malfunctions in work equipment, stop work and notify your supervisor.
- Secure the equipment to prevent further use.

5. FIRST AID

- Call for first aid.
- **Emergency number: 112**
- Report the accident.
- Always record first aid measures taken in the first aid log.
- Report the accident to your supervisor immediately.

6. MAINTENANCE

- Maintenance (servicing, repairs) must only be carried out by qualified and authorised persons.
- Check the safety devices after maintenance.
- Follow the manufacturer's operating instructions during maintenance.
- Regular inspections (e.g. electrical, mechanical) must be carried out by qualified persons.

Date:

Next inspection date:

Signature: _____

Entrepreneur/Management

Testing for lifting platforms

Type: _____

Serial number: _ Year of manufacture:

_____ Operator:

_____

_____

Date of initial commissioning: _____

For technical data, see type plate or operating instructions

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64625 Bensheim

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Fax: +49 6251-70585-29 D-
Email
info@twinbusch.de

Technical information and principles

TRBS 1111	Risk assessment and safety evaluation Inspections of work	
TRBS 1201	equipment and installations requiring monitoring Competent persons	
TRBS 1203		
DGUV Regulation 3	Electrical systems and equipment	(previously BGV A3)
DGUV Rule 100-500	Operating work equipment	(previously BGR 500)
DGUV Rule 109-009	Vehicle maintenance	(previously BGR 157)
DGUV Information 208-015	Vehicle lifting platforms	(previously BGI 689)
DGUV Information 208-040	Procurement and operation of vehicle lifts	(previously BGI/GUV-I 8669)
DGUV Principle 308-002	Inspection of lifting platforms	(previously BGG 945, VBG 14 UVV)
DGUV Principle 308-003	Inspection log for lifting platforms	(previously BGG 945—1)

Installation log

The lifting platform type _____ with the serial number _____

was inspected on _____

at the company _____

in _____

, where it was inspected for safety and put into operation.

The installation was carried out by the operator/expert (delete as appropriate).

The operator confirms that the lifting platform has been installed correctly in accordance with the operating instructions and the test log, as well as the relevant technical rules and regulations, in particular that the floor meets the requirements.
He also confirms that he will observe the information and make these documents available to the trained operator at all times.

The safety of the lifting platform was checked by the expert before commissioning.
He confirms that the lifting platform has been installed correctly, that the documents have been handed over to the operator and that the operators have been properly instructed.

The operator confirms the installation of the lifting platform, and the expert confirms that it has been put into operation correctly.

_____	_____	_____
Date	Name of expert	Stamp/signature of expert
_____	_____	_____
Date	Name of operator	Signature of operator
Date	Name of operator(s)	Signature(s) of the operator(s)
_____	_____	_____
_____	_____	_____
_____	_____	_____

audit findings
Regarding a regular/special inspection

The lifting platform was subjected to _____ a regular/extraordinary inspection. No/the following defects were found:

_____

_____

Scope of the inspection:

_____

Partial inspection still pending:

_____

_____	_____	_____
Place, date	Name of expert	Signature of expert

_____
Address of expert / stamp

Operator or representative

Defects acknowledged

_____	_____
Date	Signature

Defects rectified

_____	_____
Date	Signature

Re-inspection

The lifting platform was _____ re-inspected.

The defects identified during the regular/extraordinary inspection have been rectified.

There are no objections to continued operation and a re-inspection is not necessary.

_____	_____	_____
Place, date	Name of expert	Signature of expert

_____
Address of expert / stamp

Safety inspection in accordance with BGG 445-1 (UVV)

DGUV Principle 308-003

Scissor lift

Type

Serial no.:

Inspection before commissioning

Inspection step	OK	Defective	Re-inspection	Comment
Type plate				
Load capacity information on the lifting platform				
Warning sign				
Detailed operating instructions				
Function of access ramp				
Function of limit switch				
Supporting structure (cracks, etc.)				
Function of safety catches				
Seat of all load-bearing screws				
Condition of glides/guides				
Condition of castors				
Condition of anti-collision protection				
Condition of covers				
Condition of hydraulic lines				
Fill level of hydraulic lines				
Tightness of hydraulic system				
Condition of electrical system and protective conductor				
Function test with load				
Condition of concrete floor (cracks)				
(Tick the appropriate box if a re-inspection is required. If applicable, tick the additional box.)				

Expert (name, address):

Tested on:

Result of the test:

- ☐ Further use possible, re-inspection required
- ☐ Continued operation possible, defects to be rectified by .....
- ☐ No defects, continued operation without hesitation

Signature of operator:

Signature of expert:

Safety inspection in accordance with BGG 445-1 (UVV)
DGUV Principle 308-003
Scissor lift
Type

Serial no.:

Regular safety inspection (UVV)

Test step	OK	Defective	Re-inspection	Comment
Type plate				
Load capacity information on the lifting platform				
Warning sign				
Detailed operating instructions				
Function of access ramp				
Function of limit switch				
Supporting structure (cracks, etc.)				
Function Safety catches				
Fitting of all load-bearing screws				
Condition of glides/guides				
Condition of castors				
Condition of anti-overrun protection				
Condition of covers				
Condition of hydraulic lines				
Fill level of hydraulic lines				
Tightness of hydraulic system				
Condition of electrical system and protective conductor				
Function test with load				
Condition of concrete floor (cracks)				
(Tick the applicable boxes. If a re-inspection is required, please tick the additional box)				

Expert (name, address):

Inspected on: .....

Result of the test:

- ☐ Further use possible, re-inspection required
- ☐ Further operation possible, defects to be rectified by .....
- ☐ No defects, continued operation without hesitation

Signature of operator:

Signature of expert:

Audit findings
on a regular/extraordinary inspection

The lifting platform was _____ a regular/extraordinary inspection. No/the following defects were found:

_____

_____

Scope of the inspection:

_____

Partial inspection still pending:

_____

_____	_____	_____
Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Operator or representative

Defects noted

_____	_____
Date	Signature

Defects rectified

_____	_____
Date	Signature

Re-inspection

The lifting platform was _____ re-inspected.

The defects identified during the regular/special inspection have been rectified.

There are no objections to continued operation and no further inspection is required.

_____	_____	_____
Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Safety inspection in accordance with BGG 445-1
(UVV) DGUV Principle 308-003
Scissor lift

Type Serial no.:

Regular safety inspection (UVV)

Inspection step	OK	Deficient	Re-inspection	Comment
Type plate				
Load capacity information on the lifting platform				
Warning sign				
Detailed operating instructions				
Function of access ramp				
Function of limit switch				
Supporting structure (cracks, etc.)				
Function of safety catches				
Fitting of all load-bearing screws				
Condition of glides/guides				
Condition of castors				
Condition of anti-collision protection				
Condition of covers				
Condition of hydraulic lines				
Fill level of hydraulic lines				
Tightness of hydraulic system				
Condition of electrical system and protective conductor				
Function test with load				
Condition of concrete floor (cracks)				
(Tick the applicable boxes. If an inspection is required, please tick the additional box)				

Expert (name, address):

Inspected on: .....

Result of inspection:

- ☐ Further use possible, re-inspection required
- ☐ Continued operation possible, defects to be rectified by .....
- ☐ No defects, continued operation without

hesitation Signature of operator:

Signature of expert:

Test result
Regarding a regular/special inspection

The lifting platform was _____ a regular/extraordinary inspection. No/the following defects were found:

_____

_____

Scope of the inspection:

_____

Partial inspection still pending:

_____

Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Operator or representative

Defects acknowledged

Date	Signature

Defects rectified

Date	Signature

Re-inspection

The lifting platform was _____ re-inspected.

The defects identified during the regular/special inspection have been rectified.

There are no objections to continued operation and a re-inspection is not necessary.

Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Safety inspection in accordance with BGG 445-1
(UVV) DGUV Principle 308-003
Scissor lift

Type Serial no.:

Regular safety inspection (UVV)

Inspection step	OK	Deficient	Re-inspection	Comment
Type plate				
Load capacity information on the lifting platform				
Warning signs				
Detailed operating instructions				
Function of the access ramp				
Function of limit switch				
Supporting structure (cracks, etc.)				
Function of safety catches				
Fitting of all load-bearing screws				
Condition of glides/guides				
Condition of castors				
Condition of anti-overrun protection				
Condition of covers				
Condition of hydraulic lines				
Fill level of hydraulic lines				
Tightness of hydraulic system				
Condition of electrical system and protective conductor				
Function test with load				
Condition of concrete floor (cracks)				
(Tick the applicable boxes. If a re-inspection is required, please tick the additional box)				

Expert (name, address):

Inspected on: .....

Result of the test:

- ☐ Continued use possible, re-inspection required
- ☐ Continued operation possible, rectify defects by .....
- ☐ No defects, continued operation without

hesitation Signature of operator:

Signature of expert:

Inspection findings
of a regular/extraordinary inspection

The lifting platform was _____ a regular/extraordinary inspection. No/the following defects were found:

_____

_____

Scope of the inspection:

_____

Partial inspection still pending:

_____

_____	_____	_____
Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Operator or representative

Defects noted

_____	_____
Date	Signature

Defects rectified

_____	_____
Date	Signature

Re-inspection

The lifting platform was _____ re-inspected.

The defects identified during the regular/extraordinary inspection have been rectified.

There are no objections to continued operation and a re-inspection is not necessary.

_____	_____	_____
Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Safety inspection in accordance with BGG 445-1
(UVV) DGUV Principle 308-003
Scissor lift

Type Serial no.:

Regular safety inspection (UVV)

Inspection step	OK	Deficient	Re-inspection	Comment
Type plate				
Load capacity information on the lifting platform				
Warning sign				
Detailed operating instructions				
Function of access ramp				
Function of limit switch				
Supporting structure (cracks, etc.)				
Function of safety catches				
Fitting of all load-bearing screws				
Condition of glides/guides				
Condition of castors				
Condition of anti-overrun protection				
Condition of covers				
Condition of hydraulic lines				
Fill level of hydraulic lines				
Tightness of hydraulic system				
Condition of electrical system and protective conductor				
Function test with load				
Condition of concrete floor (cracks)				
(Tick the applicable boxes. If a re-inspection is required, please tick the additional box)				

Expert (name, address):

Inspected on: .....

Result of the test:

- ☐ Continued operation possible, re-inspection required
- ☐ Continued operation possible, defects to be rectified by .....
- ☐ No defects, continued operation without

hesitation Signature of operator:

Signature of expert:

Test findings
of a regular/extraordinary inspection

The lifting platform was _____ a regular/extraordinary inspection. No/the following defects were found:

_____

_____

Scope of the examination:

_____

Partial examination still pending:

_____

Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Operator or representative

Defects noted

Date	Signature

Defects rectified

Date	Signature

Re-inspection

The lifting platform was _____ re-inspected.

The defects identified during the regular/extraordinary inspection have been rectified.

There are no objections to continued operation and a re-inspection is not necessary.

Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Safety inspection in accordance with BGG 445-1
(UVV) DGUV Principle 308-003
Scissor lift

Type: Serial no.:

Regular safety inspection (UVV)

Inspection step	OK	Deficient	Re-inspection	Comment
Type plate				
Load capacity information on the lifting platform				
Warning sign				
Detailed operating instructions				
Function of access ramp				
Function of limit switch				
Supporting structure (cracks, etc.)				
Function of safety catches				
Fitting of all load-bearing screws				
Condition of glides/guides				
Condition of castors				
Condition of anti-overrun protection				
Condition of covers				
Condition of hydraulic lines				
Fill level of hydraulic lines				
Tightness of hydraulic system				
Condition of electrical system and protective conductor				
Function test with load				
Condition of concrete floor (cracks)				
(Tick the applicable boxes. If a re-inspection is required, please tick the additional box)				

Expert (name, address):

Tested on: .....

Result of the test:

- ☐ Continued operation possible, re-inspection required
- ☐ Continued operation possible, rectify defects by .....
- ☐ No defects, continued operation without

hesitation Signature of operator:

Signature of expert:

Test findings
Regarding a regular/special inspection

The lifting platform was _____ a regular/extraordinary inspection. No/the following defects were found:

_____

_____

Scope of the inspection:

_____

Partial inspection still pending:

_____

Place, date	Name of expert	Signature of expert
_____	_____	_____

_____

Address of expert / stamp

Operator or representative

Defects noted

Date	Signature
_____	_____

Defects rectified

Date	Signature
_____	_____

Re-inspection

The lifting platform was _____ re-inspected.

The defects identified during the regular/special inspection have been rectified.

There are no objections to continued operation and a re-inspection is not necessary.

Place, date	Name of expert	Signature of expert
_____	_____	_____

_____

Address of expert / stamp

Safety inspection in accordance with BGG 445-1
(UVV) DGUV Principle 308-003
Scissor lift

Type Serial no.:

Extraordinary safety inspection (after significant changes)

Inspection step	OK	Deficient	Re-inspection	Comment
Type plate				
Load capacity information on the lifting platform				
Warning sign				
Detailed operating instructions				
Function of access ramp				
Function of limit switch				
Supporting structure (cracks, etc.)				
Function of safety catches				
Fitting of all load-bearing screws				
Condition of glides/guides				
Condition of castors				
Condition of overrun protection				
Condition of covers				
Condition of hydraulic lines				
Fill level of hydraulic lines				
Tightness of hydraulic system				
Condition of electrical system and protective conductor				
Function test with load				
Condition of concrete floor (cracks)				
(Tick the applicable boxes. If a re-inspection is required, please tick the additional box)				

Expert (name, address):

Inspected on: .....

Result of the test:

- ☐ Continued use possible, re-inspection required
- ☐ Continued operation possible, defects to be rectified by .....
- ☐ No defects, continued operation without

hesitation Signature of operator:

Signature of expert:

Test result
of a regular/extraordinary inspection

The lifting platform was _____ a regular/special inspection. No/the following defects were found:

_____

_____

Scope of the inspection:

_____

Partial inspection still pending:

_____

_____	_____	_____
Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Operator or representative

Defects noted

_____	_____
Date	Signature

Defects rectified

_____	_____
Date	Signature

Re-inspection

The lifting platform was _____ re-inspected.

The defects identified during the regular/special inspection have been rectified.

There are no objections to continued operation and a re-inspection is not necessary.

_____	_____	_____
Place, date	Name of expert	Signature of expert

_____

Address of expert / stamp

Conversions and major repairs

Type	Date / Name

EU-Konformitätserklärung

The company

Twin Busch GmbH | Amperestr. 1 | D-64625 Bensheim

hereby declares that the

TWSA-50U (-230,-400) | 5,000 kg
Wheel-free lift | 4,000 kg
(EE-HX50BWF)

Serial number:

in the version marketed by us complies with the relevant basic health and safety requirements of the relevant EC directive(s) below in their current version(s).

EC Directive)

2006/42/EC	Machinery Directive

Applied harmonised standards and regulations

EN 1493:2022	Lifting platforms
EN ISO 12100:2010	Safety of machinery — Design
EN 60204-1:2018	Safety of machinery- -electrical

EC type examination certificate

MD-493 Issue 1

Date of issue: 03.04.2024
Place of issue: Helsinki
Technical documentation no.: SHES240300519701-01/02/03

Certification body

SGS Fimko Ltd,
Takomotie 8,
FI-00380 Helsinki Certification body no.: 0598

This declaration loses its validity in the event of improper use or installation, conversion or modifications not agreed with us.

Authorised person for the preparation of technical documentation: Michael Glade (address below)

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Authorised signatory: Mich ael Glade
Quality management
Bensheim,08.04.2024

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