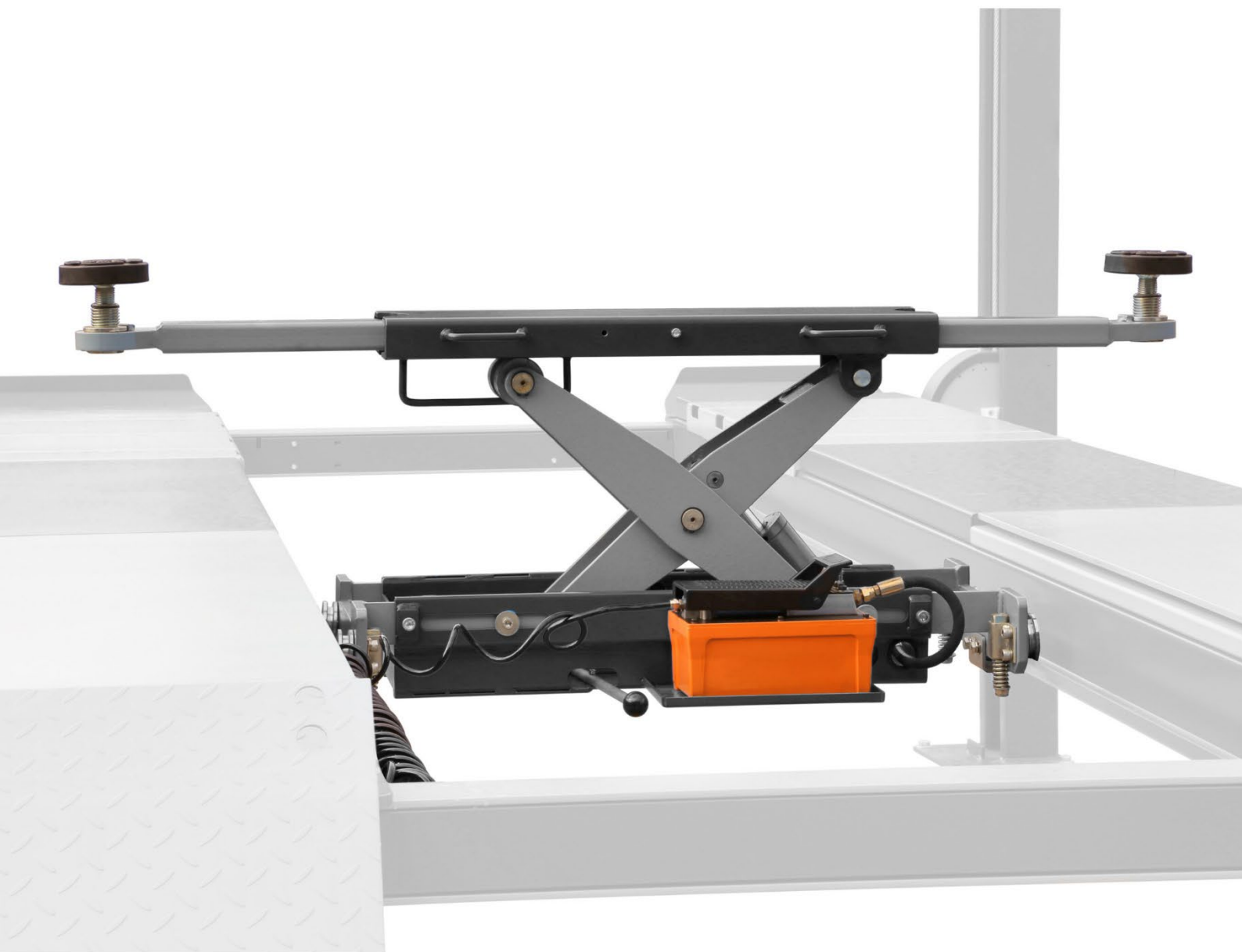


TRANSLATION OF THE ORIGINAL INSTRUCTIONS

TW445-W & **TW445-W-G**



*Always read the operating instructions carefully
before operating the axle free jack.*

Table of Contents

1. General	1
2. Identification of the operating instructions	1
3. Modification of the product	1
4. Safety information	2
4.1 Safety instructions	2
5. Technical specification	2
5.1 Conformity with the product	2
5.2 Machine description	3
6. Assembly and installation	3
7. Commissioning	4
7.1 Safety precautions	4
7.2 Descriptions of the hydraulic pump	5
7.3 Manual	5
8. Troubleshooting	6
9. Maintenance	7
9.1 Daily inspection and maintenance	7
9.2 Weekly inspection and maintenance	7
9.3 Monthly inspection and maintenance	7
10. Appendix	8
10.1 Dimensions	8
10.2 Hydraulic system	9
10.3 Detailed drawing, parts and spare parts list	10

Further appendix:

- **EU Declaration of Conformity**

Important information:

TIPS & TRICKS



In the "Tips & Tricks" section we show you simple solutions to work even more efficiently with your TWIN BUSCH® products.

[https://www.twinbusch.co.uk/Tips-Tricks: :74.html](https://www.twinbusch.co.uk/Tips-Tricks/:74.html)

24/7 Self-Service Center



[twinbusch.com/qr](https://www.twinbusch.com/qr)

SCAN ME

24/7 Self-Service Center

Our **24/7 Self-Service Center** is a mobile website where you can access all the information about your TWIN BUSCH® product digitally at any time.

There you will find all the operating manuals as well as an extensive collection of videos covering everything from Assembly and maintenance to the replacement of components in your TWIN BUSCH® product.

Simply open the page via [twinbusch.com/qr](https://www.twinbusch.com/qr) or scan the QR code shown opposite using your mobile device.

For post lifts manufactured from mid-2020 onwards, you will also find the QR code on a sticker on the control box..

1. General

TW445-W / TW445-W-G axle free jack for the 4-post lift or the drive-on scissor lift.

Product features:

- The ideal addition to your TW445 / TW445E-G 4-post lift or TW SA-42U / TWSA42U-G drive-on scissor lift.
- Can be moved individually across your 4-post lift, drive-on scissor lift or pit using the appropriate guide rollers.
- Drive: Pneumatic - Hydraulic
- Track width of guide rollers: 850 mm – 1160 mm
- Maximum extension of support arms: 800 mm – 1500 mm
- Max. load capacity, placed on middle support/plate: 3000 kg
- Max. load capacity, placed on supporting arms: 2000 kg
- Weight: 127 kg
- **Not suitable for the TW436P 4-post parking lift and TW445 models from 2016 or earlier!**

2. Identification of the operating instructions

Operating instructions **TW 445-W & TW 445-W-G**

of TWIN BUSCH® GmbH
Ampèrestraße 1
D-64625 Bensheim

TWIN BUSCH® UK Ltd.
9a Linnell Way
Kettering NN16 8PS

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

Phone: +44 (0) 1536 522 960
Internet: www.twinbusch.co.uk
E-Mail: info@twinbusch.co.uk

Status: -00, 20.04.2026

File: TW445-W_TW445-W-G_Axle_free_jack_Manual_uk_00_20260420.pdf

3. Modification of the product

Improper use, as well as modifications, conversions and additions to the product and all its components that have not been agreed with the manufacturer, are not permitted. The manufacturer accepts no liability in the event of improper installation, operation or overloading.

If you wish to make any changes, please contact your dealer or the qualified staff at TWIN BUSCH® GmbH in advance.

4. Safety information

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

Check all connections and components thoroughly for damage.

4.1 Safety instructions

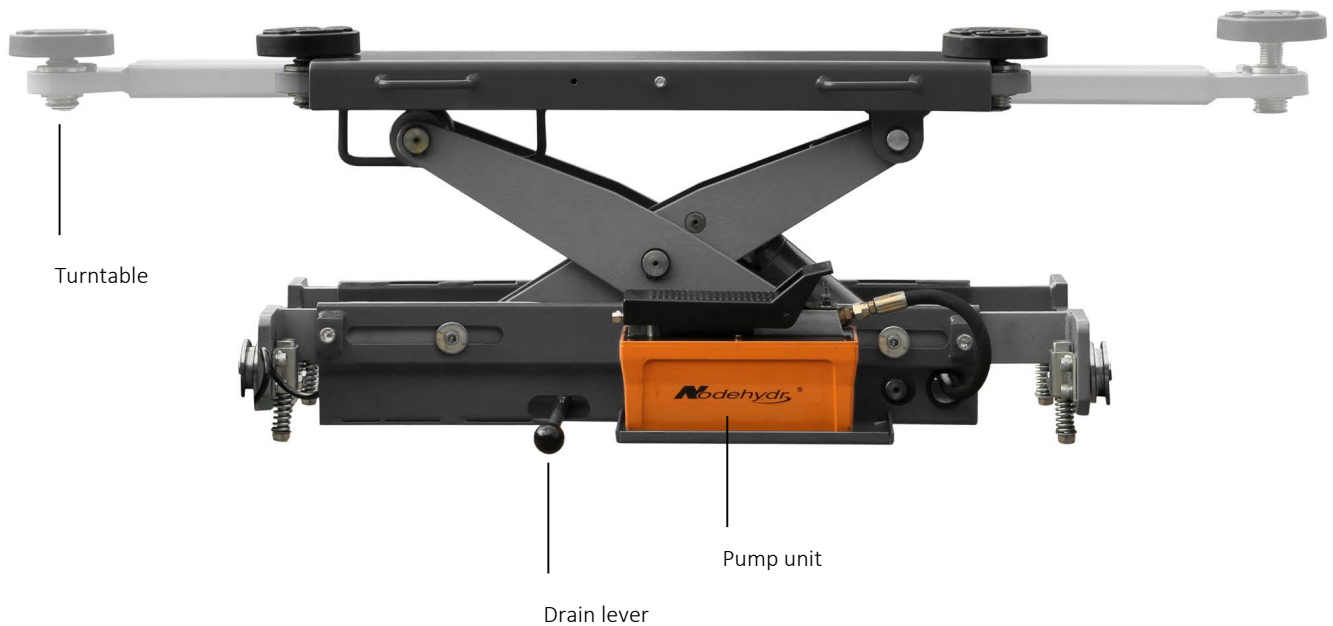
- Read and understand the safety instructions before operating the axle free jack.
- Keep hands and feet away from moving parts.
- The axle free jack must only be operated by trained personnel.
- Wear suitable clothing.
- The area around the axle free jack should always be kept clear of obstructions.
- The axle free jack is designed to lift an axle of a vehicle that does not exceed the maximum authorised weight.
- Always ensure that all safety precautions have been taken before working near or under the vehicle.
- **The raised load must be secured with support bridges or jack stands.**
Never remove safety-related components from the axle jack.
Do not use the axle free jack if safety-related components are missing or are damaged.
- Under no circumstances should you move the vehicle or remove heavy objects from the vehicle that could cause significant weight imbalances whilst the vehicle is on the axle free jack.
- Always check the mobility of the axle free jack to ensure it is working properly.
- Ensure regular maintenance. Should any irregularity occur, stop working with the axle free jack immediately and contact your dealer.
- Lower the axle free jack completely when not in use.
- Lubricate the moving parts with hydraulic oil.

5. Technical specification

5.1 Conformity with the product

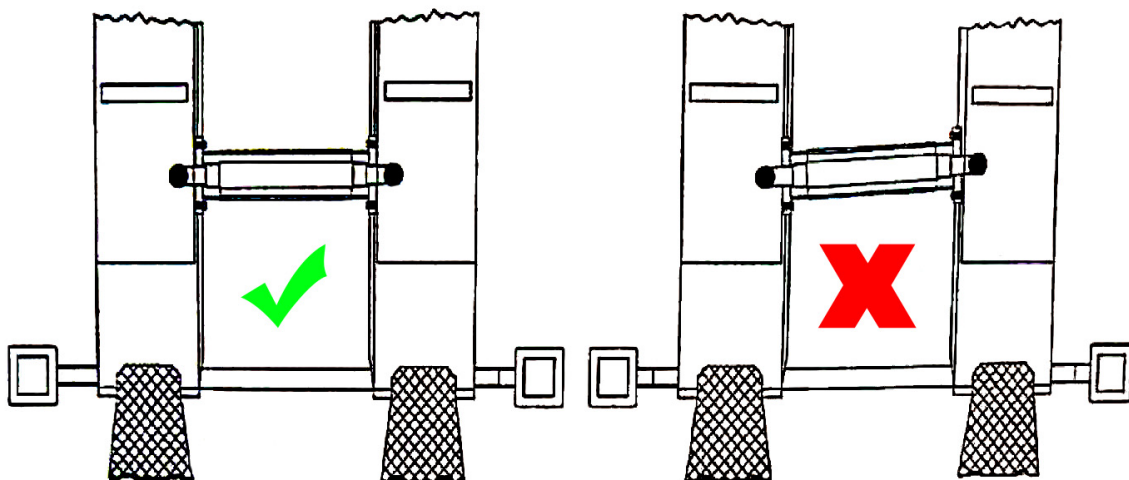
The TW445-W / TW445-W-G axle free jack is CE-certified and complies with the Machinery Directive 2006/42/EC, meeting the standards EN 1493:2022 and EN 60204-1:2018 (see: EU Declaration of Conformity at the end of the operating instructions).

5.2 Machine description



6. Assembly and installation

- 1) Read and understand the operating instructions before proceeding.
- 2) Transport and assemble the axle free jack at the installation site using suitable lifting and transport equipment, e.g. a forklift or crane.
- 3) Align the chassis with the guide rails/running surfaces of the platform.



4) Checkpoints after assembly

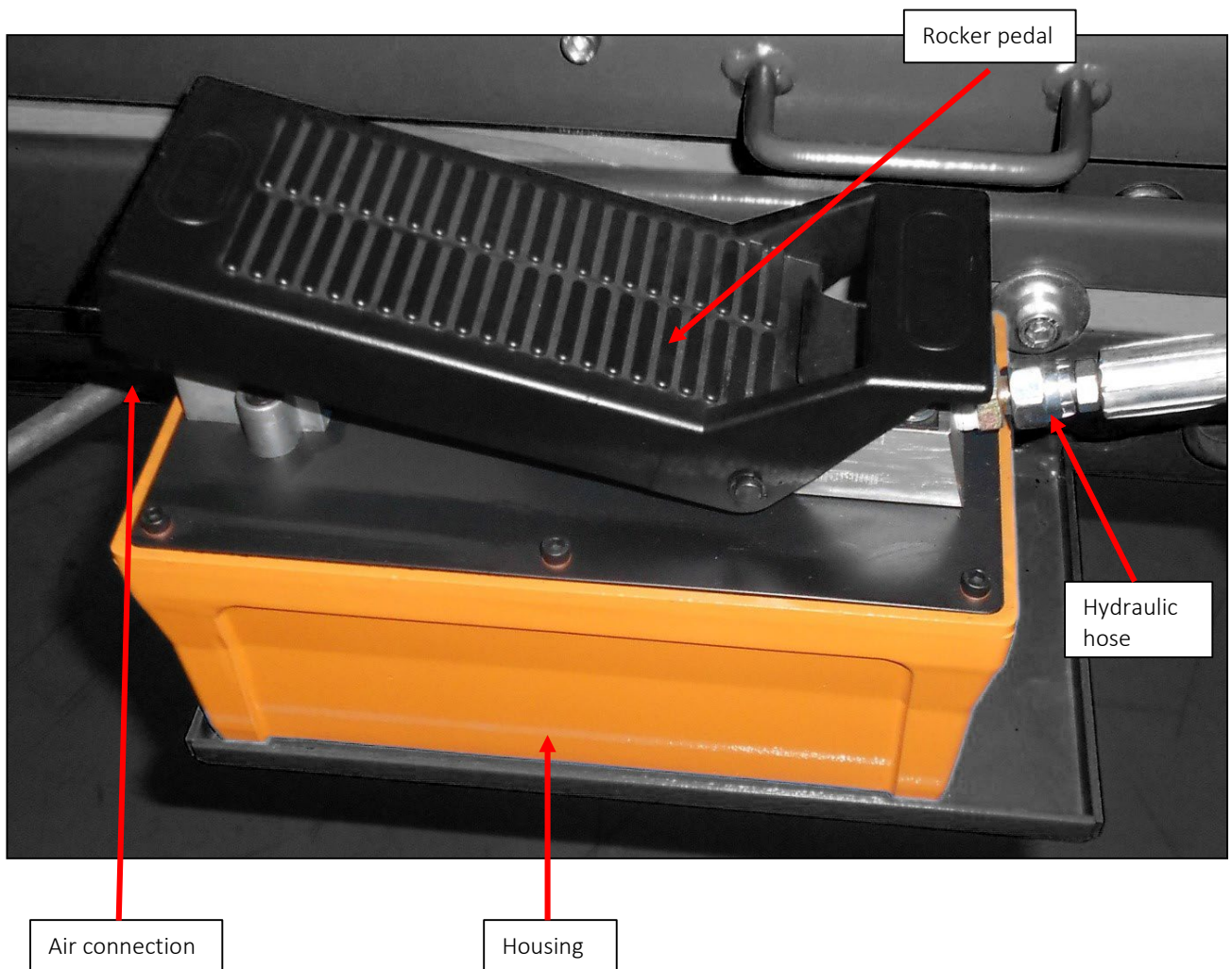
S/N	Check	YES	NO
1	Can the rollers of the axle jack move smoothly along the rail?		
2	Is the axle free jack at an angle?		
3	Are all connections secure and reliable?		
4	Is the axle-free jack lubricated as specified?		

7. Commissioning

7.1 Safety precautions

- If the safety devices are defective or show any signs of damage, the axle free jack must not be put into operation under any circumstances!
- Check that all hydraulic line connections are secure and functioning correctly. If there are no leaks, the lifting operation may be started.
- Only the operator should be present and supervising during a lifting or lowering operation. Always ensure that no persons are in the danger zone.
- Under no circumstances should you move the vehicle or remove heavy objects from the vehicle that could cause significant changes in weight whilst the vehicle is on the axle free jack.
- Lower the axle free jack completely when not in use.

7.2 Descriptions of the hydraulic pump



7.3 Manual

Caution: Once you have raised the axle-free jack to the correct height, you must operate the relief valve before starting maintenance work to activate the safety lock.

Once maintenance work is complete, raise the axle-free jack to release the safety lock, then press the release handle and the manual relief valve to lower the jack.

7.3.1 Lifting

1. Read and understand the operating instructions before starting work. Secure the vehicle before working with the axle jack.
2. Move the axle jack under the axle.
3. Press the pedal on the pump to raise the axle jack.
4. Once the desired height has been reached, press the manual release pedal on the hydraulic pump to engage the safety lock, and check the stability of the raised vehicle again before carrying out any maintenance work underneath it.

7.3.2 Lowering

1. Press the pedal on the pump to raise the axle free jack and release the safety lock.
2. Pull the release handle.
3. Press the manual relief pedal to lower the axle free jack.

8. Troubleshooting

Caution: Do not hesitate to contact the qualified staff at TWIN BUSCH® GmbH if you are unable to rectify a fault yourself. We will be happy to assist you in resolving the issue. In this case, please document the fault and send us photographs 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 faults, their causes and the corresponding troubleshooting steps to aid quicker identification and self-repair.

PROBLEM	CAUSE	SOLUTION
Unusual noise.	Dirty rails.	Clean them.
Unload after lifting.	Oil leak.	Replace the oil hose.
	Cylinder seals defective.	Replace sealing components.
	Defective check valve seal.	Remove and clean, or replace with a new one.
	The relief valve is not working.	Remove and clean or replace with a new one.
	Solenoid valve malfunction.	Remove and clean, or replace with a new one.
Lifting is too slow.	The oil filter is dirty or jammed.	Clean or replace it.
	Air in the oil.	Top up the oil.
	The pressure relief valve is not set correctly.	Readjust it.
	The hydraulic oil is too hot (above 45°C).	Change the oil.
	The cylinder seal is worn.	Replace the seal.

9. Maintenance

Regular maintenance of your axle free jack will ensure long and safe use. Suggestions for maintenance intervals and the tasks to be carried out are listed below.

9.1 Daily inspection and maintenance

A daily inspection of safety-related components must be carried out before each use! This can save you a lot of time by preventing breakdowns, major damage or even injuries.

- Check that the safety lock engages,
- Check that the oil hose is securely connected and that there are no leaks.

9.2 Weekly inspection and maintenance

- Check the mobility of all adjustable and moving parts.
- Check the condition of the safety components.

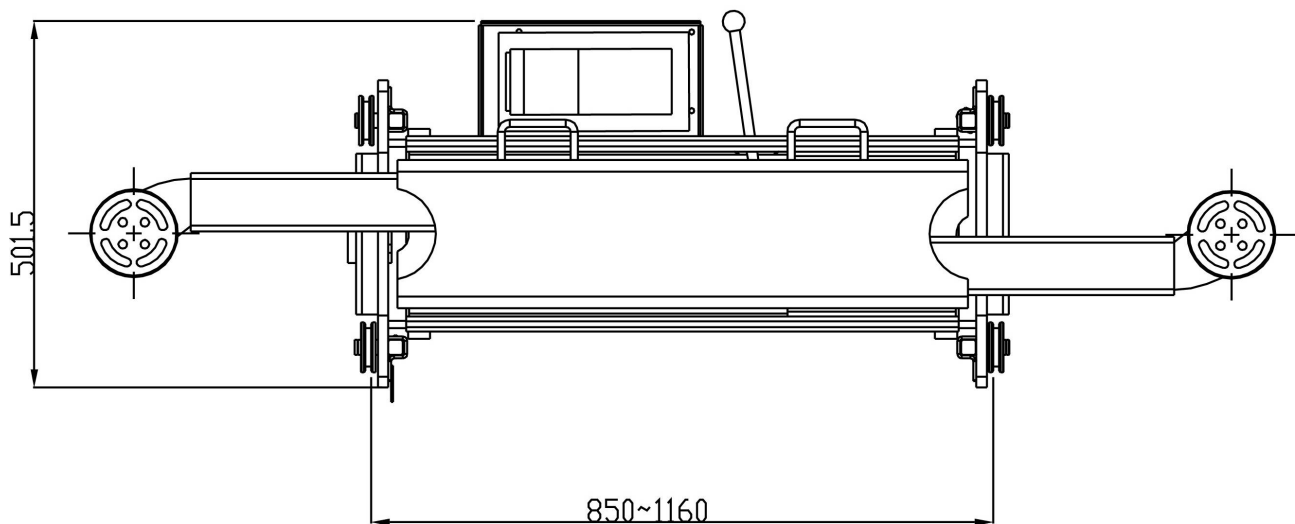
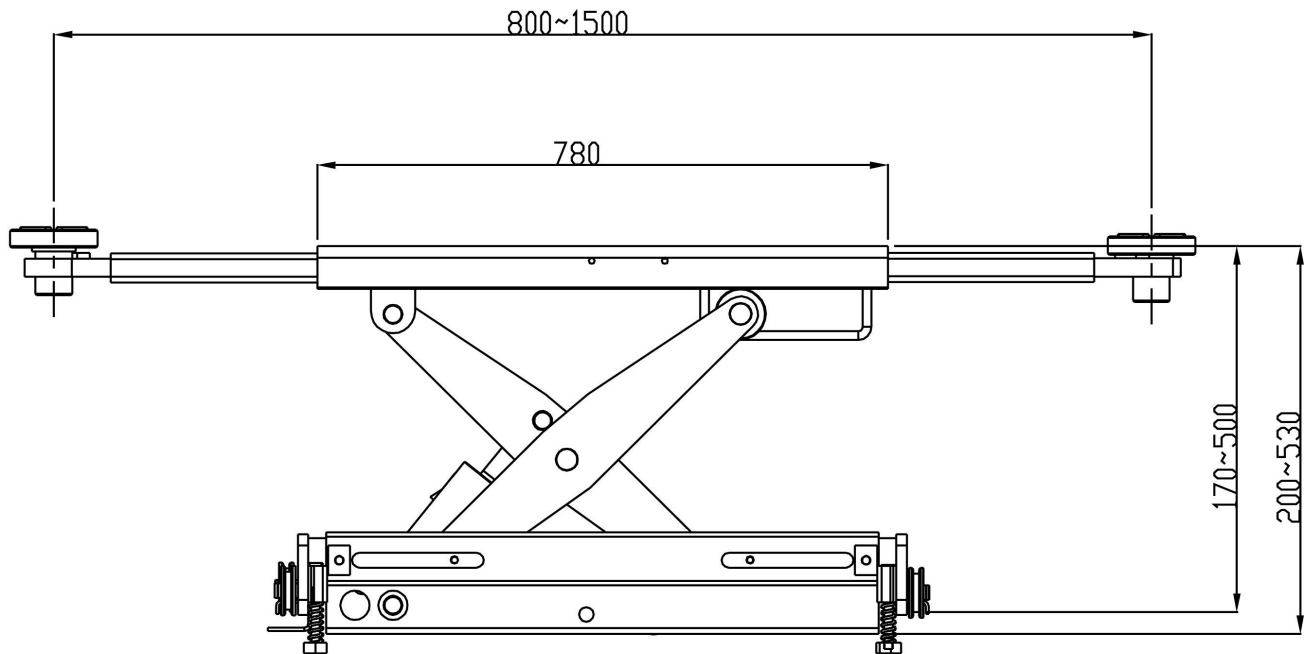
9.3 Monthly inspection and maintenance

- Check the hydraulic system for leaks and retighten the connections.
- Check all moving parts for wear.

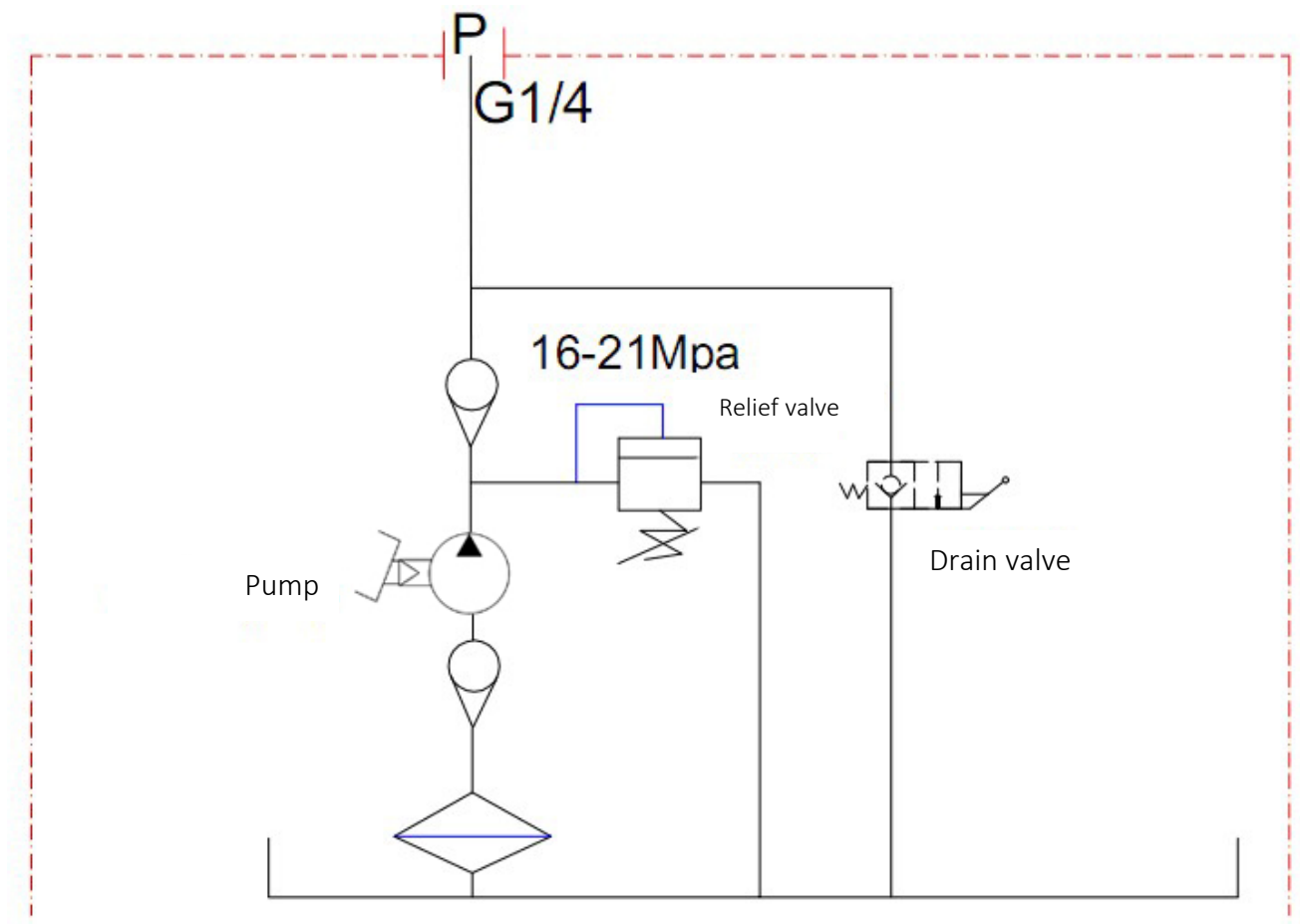
If you follow the above maintenance intervals and tasks, your axle free jack will remain in good condition and damage and accidents will continue to be avoided.

10. Appendix

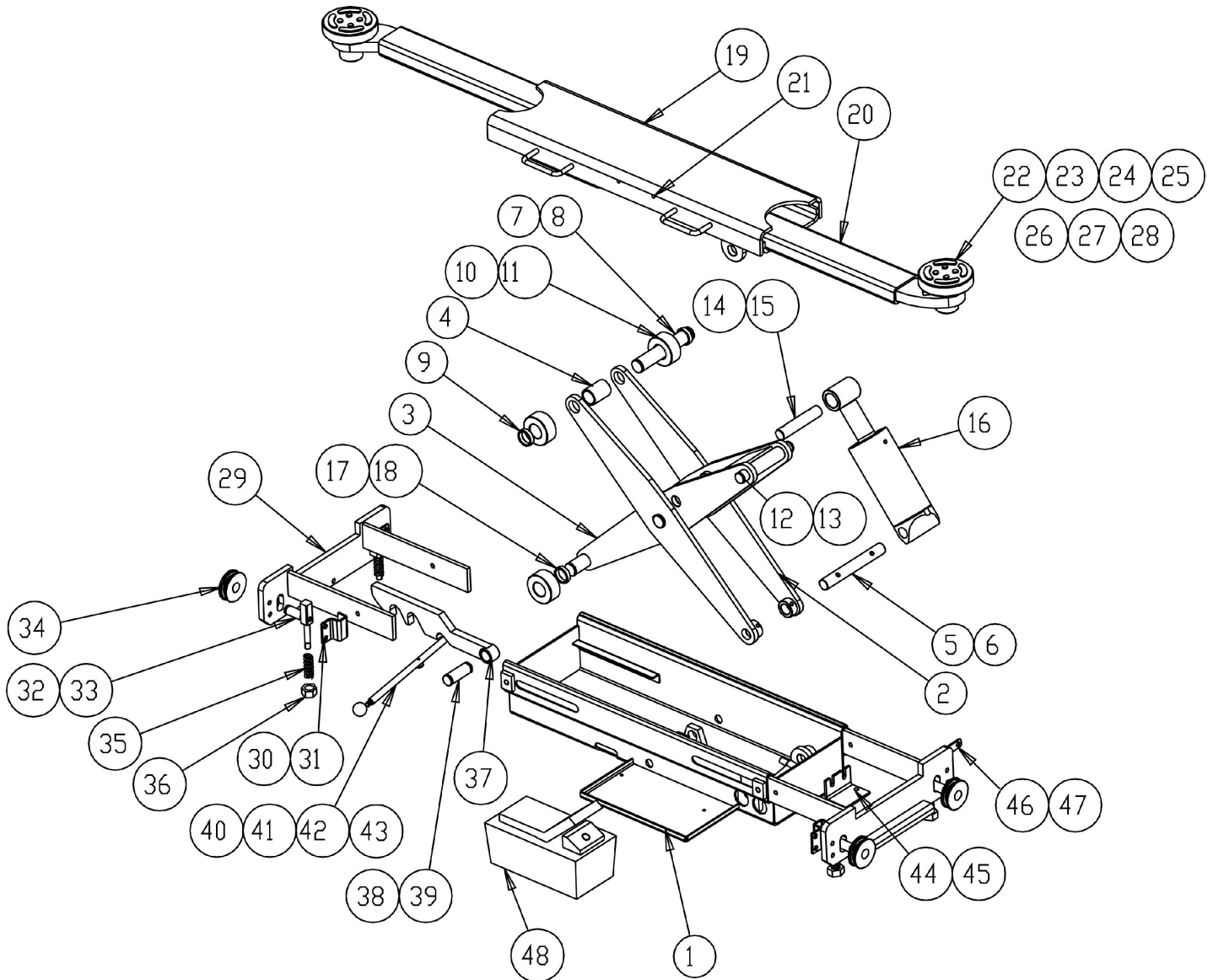
10.1 Dimensions



10.2 Hydraulic system



10.3 Detailed drawing, parts and spare parts list



S/N	Name	Specification	Quantity
1	Mounting plate	FL-8448T-A10-B1	1
2	Scissors A	FL-8448T-A10-B2-C1	2
3	Scissors B	FL-8448T-A10-B3	2
4	Socket	FL-8448T-A10-B2-C4	1
5	Axle pin A	FL-8448T-A10-B2-C5	1
6	Screw	M8*12	2
7	Axle bolt B	FL-8448T-A10-B2-C6	2
8	Retaining ring	D30	4
9	Beech 2	FL-8448T-A10-B2-C7	2
10	Bearing	FL-8448T-A10-B2-C3	2

S/N	Name	Specification	Quantity
11	Bearing SF-1	3030	4
12	Axle pin D	FL-8448T-A10-B3-C4	1
13	Retaining ring	D30	2
14	Axle pin	FL-8448T-A10-B3-C2	1
15	Screw	M8*12	2
16	Cylinder	φ80*85	1
17	Sleeve 2	FL-8448T-A10-B2-C7	2
18	Bearing	FL-8448T-A10-B2-C3	2
19	Crossbar	FL-8448T-A10-B4-C1	1
20	Support arm	FL-8448T-A10-B4-C2	2
21	Screw	M8*20	2
22	Turntable	FL-8224-A7-B3-C1	2
23	External turntable	FL-8224-A7-B3-C2	2
24	Inner turntable	FL-8224-A7-B3-C3	2
25	Turntable rubber	FL-8224-A7-B3-C4	2
26	Ring	34	4
27	Ring B	22	2
28	Screw	M8x16	4
29	Frame	FL-8448T-A10-B5-C1	2
30	U-plate	FL-8448T-A10-B6	4
31	Screw	M10*10	7
32	Stop	FL-8448T-A10-B7	4
33	Retaining ring	D20	4
34	Roller	FL-8448T-A10-B8	4
35	Spring	FL-8448T-A10-B9	4
36	Nut	M12	4
37	Safety grid	FL-8448T-A10-B10	1
38	Axle bolt	FL-8448T-A10-B12	2
39	Retaining ring	D25	2
40	Lever	FL-8448T-A10-B11	1
41	Ball for lever	M10×32	1
42	Screw	M6*25	1
43	U-washer	M6	1
44	Clamp	FL-8448T-A10-B13	2
45	Screw	M10*15	4
46	Mounting plate	FL-8448T-A10-B14	1
47	Screw	M10*20	1
48	Pneumatic pump	NAP-003	1

We provide you with comprehensive information to ensure the safe, efficient and trouble-free installation and reliable operation of your Mashin. Should you nevertheless have any questions or technical queries, the qualified technical staff at TWIN BUSCH® GmbH are always on hand to offer expert, solution-oriented assistance.



The company

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

hereby declares that the **4-post vehicle lift**

TW436P (-230,-400) | 3600 kg

TW445, TW445E (-230,-400) | 4500 kg

TW436P-W, TW445-W | 3000 kg

Serial number:

in this configurations we have placed on the marked complies with the relevant essential health and safety requirements of the following EC-directive(s) in its/their current version(s).

EC-directive(s)

2006/42/EC

Machinery

2014/35/EC

Low Voltage

Applied harmonized standards and regulations

EN 1493:2022

Vehicle Lifts

EN 60204-1:2018

Safety of Machinery – Electrical Equipment of Machines

CE Certificate

M6A 087411 0043 Rev. 01

date of issue: 18.07.2023

N8MA 087411 0044 Rev. 01

place of issue: Munich

technical file no.: 646642304401

Certification body

TÜV SÜD Product Service GmbH,
Ridlerstraße 65,
80339 München

Notified Body Appointment No.: 0123

In the case of improper use, as well as in the case of assembling, modification or changes which are not agreed with us, this declaration will lose its validity.

Authorized person to compile technical documentation is: Michael Glade (address as below)



TWIN BUSCH GmbH

Amperestr. 1 · 64625 Bensheim
Tel. 06251 / 70585-0 · Fax: 70585-29

Authorized signatory: Michael Glade
Bensheim, 17.07.2023 Qualitätsmanagement

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

twinbusch.de | E-Mail: info@twinbusch.de | Tel.: +49 (0)6251-70585-0



You can find more information at ***www.twinbusch.co.uk***

TWIN BUSCH® UK Ltd
9a Linnell Way
Kettering NN16 8PS

Tel.: +44 (0) 1536 522 960
E-Mail: info@twinbusch.co.uk

The technical data and illustrations contained in this user manual are not binding.
We reserve the right to make printing errors, omissions and technical changes.
Due to ongoing product improvements, the actual scope of delivery may differ from the specifications described.