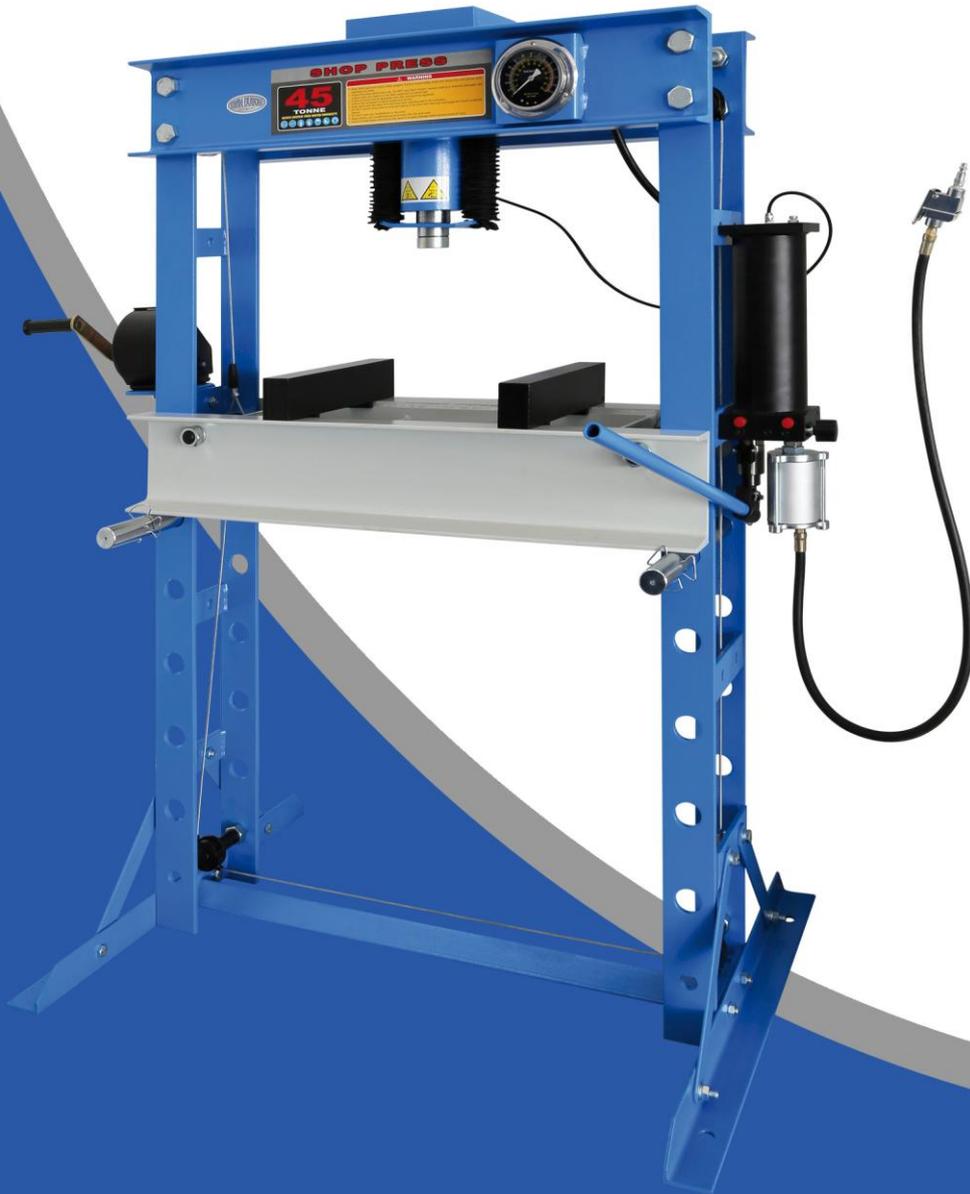




TW SP245

Shop Press 45 ton

twinbusch.de



Instruction Manual



Read this entire manual carefully before installation or operation of the press. Follow the instructions strictly.

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Operation Manual

1. Important Information

1.1 Hazard Symbols Used in the Manuals

This manual includes the hazard symbols defined below when the operations or maintenance job involves a potential danger. These symbols describe the level of danger involved in performing a job on the tool and the precautions to take to avoid the hazard.

1.2 Safety Requirements

Important

Make sure to read, understand, and strictly follow all safety related instructions before operation or maintenance of this equipment.

Intended Users

This manual is to be made available to all persons who are required to install, configure or service equipment described herein, or any other associated operation.

Application Area

The equipment described is intended for machinery production and assembling spare parts. It is used to press, size, assemble, and rivet small parts and not for other use.

Personnel

Installation, operation and maintenance of the equipment should be carried out by qualified personnel. A qualified person is someone who is technically competent and familiar with all safety information and established safety practices with the installation process, operation and maintenance of this equipment; and with all the hazards involved.

1.3 Safety Instruction



Before maintenance on pressured parts in the machine, you **MUST** release the pressure in the pressured system. At the same time, **DO NOT** stand in the direction facing the charger, the operator should on the opposite side and remember **DO NOT** strike, press or transfer until it is discharged.

NOTE: Immediately stop operating the equipment if not working properly. Contact a certified technical support engineer for repair. The equipment must not be operated without approval from the certified technical support engineer.

2. Specifications

2.1 Application Area

The machinery described is intended for machinery production and assembling spare parts. It is used to press, size, assemble, and rivet small parts in process and not for other use.

2.2 Mechanical Information

No.	Item	Unit	Value
1	Capacity	Ton	45
2	Stroke	mm	190
3	Working Range	mm	165~865
4	Gross weight	Kg	310

3. Prepare before using

3.1 Transport



The units are generally too heavy to be moved by hand. Therefore, use the correct transport and lifting equipment.

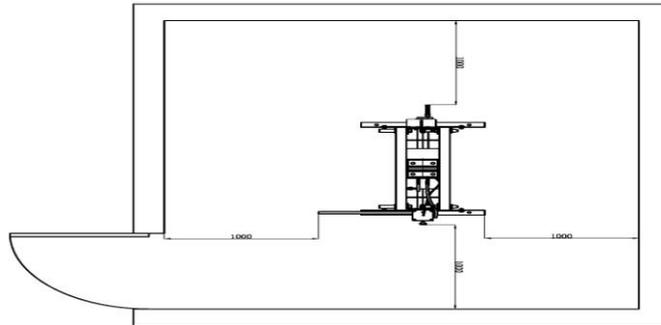
Before moving the machine, please make sure to use the proper lifting equipment and follow the instructions as follows.

3.2 Working Area Conditions

Users should provide enough space for the equipment and the environment should be clean, non-flammable, corrosive and dust free.



A working area of 1000 mm is to be kept free both in front of and behind the machine while it is in operation so that it is always easily accessible.



3.3 Unpacking



When unpacking the machine, please make sure to use the proper tools, wear protective clothing, gloves, and a safety helmet.

Make sure that the product and parts in box are complete and identical with the part list. If not, please contact the manufacturer.

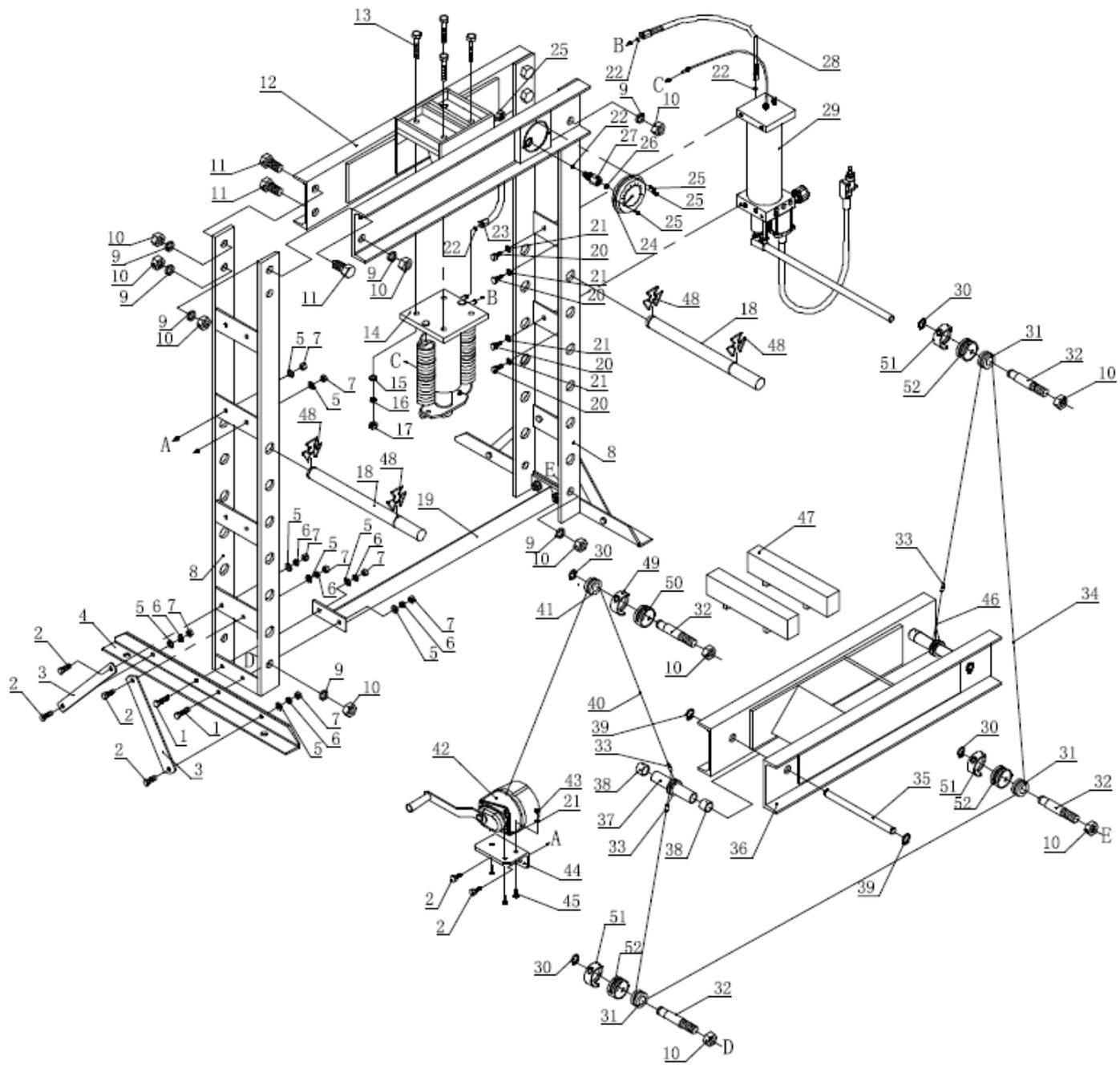
4. Maintenance

Daily Maintenance

Clean the outside of the press with a dry clean cloth and periodically lubricate the hoist, wheel shaft assembly, the joints and all moving parts with a light oil.

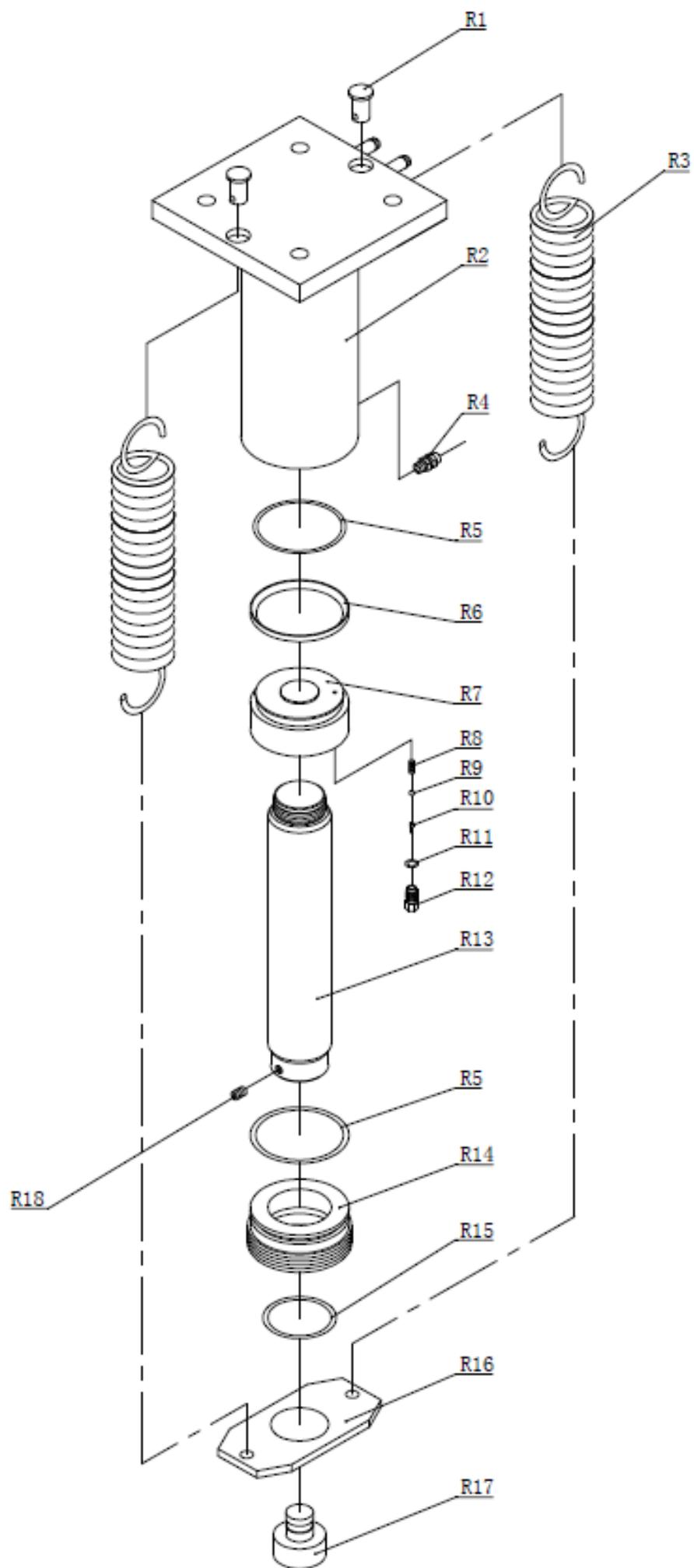
Check the hydraulic oil

Remove the oil filler nut (on the top of the reservoir, if the oil is not adequate, fill with (ISO6743) hydraulic jack oil as necessary, then replace the oil filler nut, purge away air from the hydraulic system as described before.



Part No.	Description	Qty	Part No.	Description	Qty
1	BOLT	4	27	CONNECTOR	1
2	BOLT	10	28	HOSE 2	1
3	SUPPORT	4	29	PUMP ASSY	1
4	BASE	2	30	RETAINING RING	4
5	WASHER	14	31	SMALL ROLLER	3
6	LOCK WASHER	14	32	BOLT	4
7	NUT	14	33	SLEEVE	3
8	POST ASSY	2	34	WIRE ROPE	1
9	LOCK WASHER	10	35	BED FRAME PIN	2
10	NUT	14	36	BED FRAME	1
11	BOLT	6	37	SLEEVE ASSY	2
12	BED FRAME	1	38	BUSHING 2	4
13	BOLT	4	39	RETAINING RING	4
14	RAM ASSY	1	40	WIRE ROPE	1
15	WASHER	4	41	BIG ROLLER	1
16	LOCK WASHER	4	42	HANDLE WINCH	1
17	NUT	4	43	NUT	3
18	PIN	2	44	FISED PLATE	1
19	LOWER CROSS MEMBER	1	45	BOLT	3
20	BOLT	4	46	CONNECTOR	3
21	WASHER	7	47	BLOCKS	2
22	O-RING	4	48	RETAINING RING	4
23	HOSE 1	1	49	SHIELD 1	1
24	PRESSURE GAUGE	1	50	SHIELD 2	1
25	NUT	1	51	SHIELD 3	3
26	NYLON RING	1	52	SHIELD 4	3

Part No.	Description	Qty	Part No.	Description	Qty
P1	BRACKET	1	P28	SCREWS	3
P2	PIN	2	P29	CAPER	3
P3	BIG PUMP CORE	1	P30	RELEASE VALVE	1
P4	PIN	3	P31	O-RING	1
P5	SMALL PUMP CORE	1	P32	RELEASE VALVE SEAT	1
P6	RETAINING RING	1	P33	WASHER	1
P7	PTFE RING	1	P34	SCREWS	1
P8	O-RING	1	P35	LOCK WASHER	1
P9	U-RING	1	P36	U-RING LIMIT	1
P10	PUMP CORE SEAT	1	P37	STEEL BALL	3
P11	O-RING	1	P38	PUMP ASSY	1
P12	WASHER	2	P39	SCREWS	1
P13	HANDLE CONNECTOR	1	P40	WASHER	2
P14	SCREWS	1	P41	WASHER	2
P15	AIR PUMP	1	P42	SCREWS	2
P16	STEEL BALL	3	P43	AIR HOSE	1
P17	SCREWS	5	P44	AIR VALVE	1
P18	WASHER	5	P45	CONNECTOR	1
P19	SPRING	3	P46	R PIN	1
P20	SPRING	2	P47	STEEL BALL	2
P21	VALVE SEAT	2	P48	NYLON RING	1
P22	STEEL BALL SEAT	2	P49	CONNECTOR	1
P23	STEEL BALL SEAT	1	P50	O-RING	1
P24	SPRING	2	P51	HANDLE	1
P25	SPRING	1	P52	HOSE	1
P26	SCREWS	2	P53	CONNECTOR	1
P27	O-RING	3			



Part No.	Description	Qty.	Part No.	Description	Qty.
R01	PIN	2	R10	VALVE ROD	1
R02	RAM	1	R11	NYLON RING	1
R03	SPRING	2	R12	SCREW	1
R04	CONNECT	1	R13	PISTON	1
R05	O RING	2	R14	NUT	1
R06	SEAL RING	1	R15	O RING	1
R07	PISTON CAP	1	R16	SPRING PLATE	1
R08	SPRING	1	R17	Serrated Saddle	1
R09	BALL	1	R18	SCREW	1



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