

# Operation Manual

## Workshop Press

61976, 61977, 61978

# wiltec



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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## Introduction

Thank you for purchasing this quality product. **To minimize the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

## Safety notes/warnings



The owner and/or user needs to have read the operating manual of the device and understood it entirely before using the device. Employees should be careful, competent, trained and qualified for the secure use of devices, especially when working with the workshop press. Warnings should always be read and understood.

- Be familiar with the operating control, the operating procedure, and the warnings.
- Make sure that all crossbeams are tightened and secured.
- Be sure to know the content of this manual.
- This device may not be operated by people (including children) with reduced physical, sensory, and mental abilities or by people who lack the knowledge or experience of handling these machines, unless they are being supervised and trained by a person that is responsible for their safety.
- Children need to be supervised to ensure they do not play with the machine.
- In case anything unexpected happens, notify your supervisor or workshop immediately.
- Always stay focused and do not allow anything to distract you whilst operating the machine.
- Do not use a welding machine near the press.
- Make sure that the work area is optimally lit.
- Ensure to wear solid shoes.
- Use a hairnet for long hair.
- Wear slim fitting clothing, nothing loose fitting, which can be caught in moving parts, etc.
- Do not wear any jewellery (rings, earrings, watches, etc.).
- Make sure not to wear loose straps or belts.
- Only use the press if you feel physically and mentally capable.
- Long durations of work whilst standing can lead to dizziness. Have frequent breaks and drink plenty to stay hydrated.
- Never open the screw connection under pressure/with load.
- Place the press in the lowest position, when refilling hydraulic oil. Only use high-quality hydraulic oil never brake fluid, alcohol, glycerine, cleaning detergent, motor oil, water, polluted oil, or other unsuitable liquids.
- The hydraulic cylinder is under pressure and must not be opened with force.

## Control/inspection

- Before commissioning the press, visually examine it, to spot leakages, damages, loose or missing parts, as well as worn parts. Check the oil level regularly. Adjust the press to the lowest position, when refilling hydraulic oil. Remove the sealing cover, the oil level needs to reach the opening exactly. If required, refill with high-quality hydraulic oil. Exchange the entire oil annually.
- Frequently put lubricants on all moving parts. Check the lifting mechanism regularly for rust, tears and corrosion. Clean the affected areas with an oily cloth.
- In case the press needs to be thrown away, the oil first must be discharged and disposed of correctly, the press needs to be recycled.



## Commissioning

1. Place the workpiece on the frame.
2. Close the valve by turning it clockwise.
3. Activate the pump lever, so that the piston moves towards the workpiece.
4. Adjust the piston, so that there is an even, central balance.
5. Apply pressure via the pump lever onto the workpiece. Do not use excessive amounts of pressure.
6. By turning the valve counter-clockwise, the workpiece can be discharged and stabilised, to avoid any sliding due to pressure.
7. Only take the workpiece from the work surface, when the pressure piston is retracted entirely.

## Warning!

- Read the operating manual thoroughly before operating the device.
- This workshop press may only be used by people who are experienced with operating devices of this kind and are trained accordingly. If you are not familiar with the operation of hydraulic workshop presses, you should be trained accordingly beforehand.
- Do not use the workshop press above the stated capacity.
- This workshop press is solely designed for aligning, bending, and straightening work. Springs and other objects, which could be launched out of the press, are not allowed to be compressed. Additionally, no objects which could be shattered, during the process are allowed to be compressed.
- Before operating the workshop press, make sure there are no damaged parts. Tighten all loose screws.
- Some parts have the tendency to be ejected out of the press. Protect yourself adequately, to avoid injury. Do not reach into the device and close by to the pressure piston. Make sure that the object being processed is placed evenly centred and firmly on the pressure plate, so that it cannot be ejected during the work process and thus cause injury.
- Always wear protective glasses/adequate safety equipment.

## Maintenance

- Always check the workshop press for possible damage before using it. Otherwise, the workshop press may not be put into operation.
- All moving parts, such as the hydraulic piston e.g., should be oiled regularly.
- Check all hydraulic connections/ lines before use and make sure that there are no damages.

## Specifications

- For aligning, bending, and straightening work
- Optimally height-adjustable



## Technical data

		Item number		
		61976	61977	61978
Capacity (t)		6	12	20
Cylinder (mm)		110	136	156
Lifting height (mm)	Min.		55	90
	Max.		680	780
Working height levels (mm)		65, 130, 195, 255	139, 234, 329, 425, 518, 614, 710	55–835
Size (cm)		39 × 50 × 91	1330 × 510 × 500	70 × 60 × 150
Weight (kg)		23	43	68

## Troubleshooting

Problem	Possible cause	Solution
Piston does not move.	The mechanical parts are damaged	Add lubricating oil or grease.
Piston does not move up/moves up slowly.	Container too filled up	Adjust oil level.
	Incorrect connections	Clean moving parts and lubricate them.
Piston does not move up entirely.	Oil level too low	Refill oil.

## Operating instructions

- The 6/12/20 ton shop press comes with two arbour plates. The arbour plates can be used individually or connected as shown below by the arbour lock.
- The gap between the two plates is expandable from approx. 0–13 cm (0–5"). To adjust the space between the two arbour plates, loosen each bolt on the side of the plates, adjust the gap between the plates, then re-tighten the bolts before use.
- To set the pressing plates at a specific height, slide the two pins through opposite adjustment holes on the press frames legs and secure in place using the two R-clips.
- Place the arbour plate onto the press plate, making sure to centre it on the press plate.

**Warning!** If the arbour plates rest on an obstacle (such as bolts, debris, etc.) an uneven base can be created. This can lead to unusual stress on the arbour plates and possibly a break and/ or personal injury.

- Insert the narrower jack handle (the end with the pin) into the larger handle and engage the pin in the "T" slot.
- Using the slotted end of the jack handle, tighten (turn clockwise) the relief valve of the jack.
- Insert the larger tube of jack handle into the jack handle connector located on the side of the jack.
- Pump the handle up and down to extend the jack and operate the shop press.

**Warning!** Should you detect any kind of structural failure, stop using the shop press immediately. If necessary, have the unit repaired by a qualified service technician.

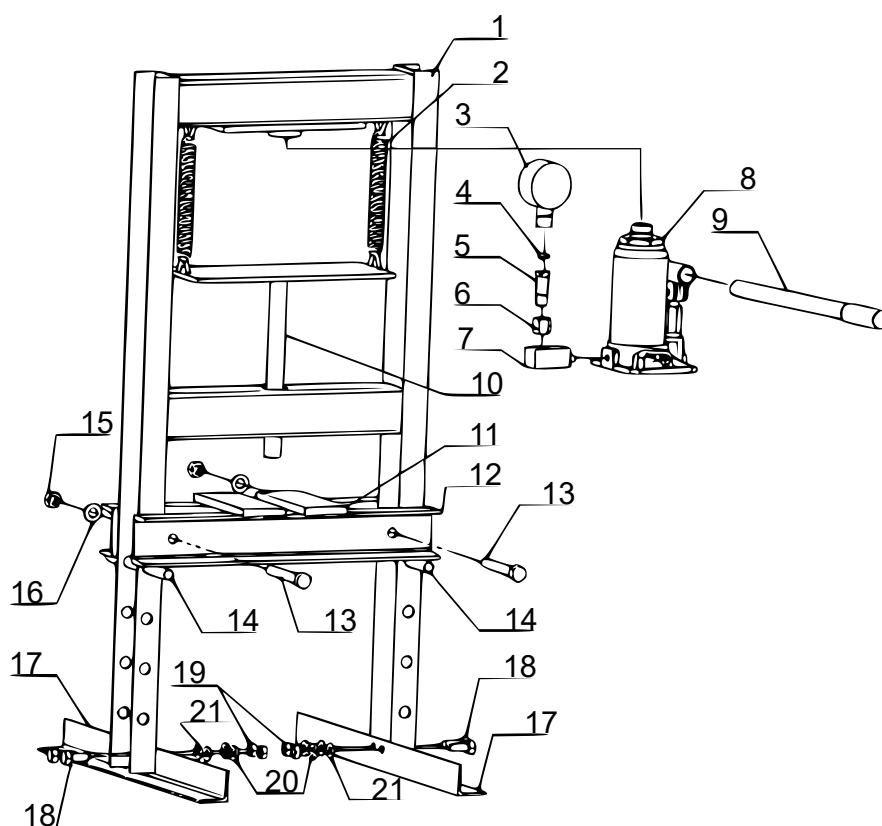
- When finished, remove the jack handle from the jack handle connector and loosen (turn counter clockwise) the relief valve of the jack.

### Deaeration

- Remove the oil fill plug located on the back of the jack to expose the oil fill hole.
- Open the release valve located on the front of the jack above. Insert the jack handle into the pump core. Slowly pump handle to force air out of the oil fill hole.
- As soon as the oil start to come out of the hole, stop pumping. Replace the oil fill plug. Close the release valve.
- Check the oil level. It must be just below the oil filling hole. If necessary, fill up with high-quality hydraulic oil.

### Exploded views and parts list

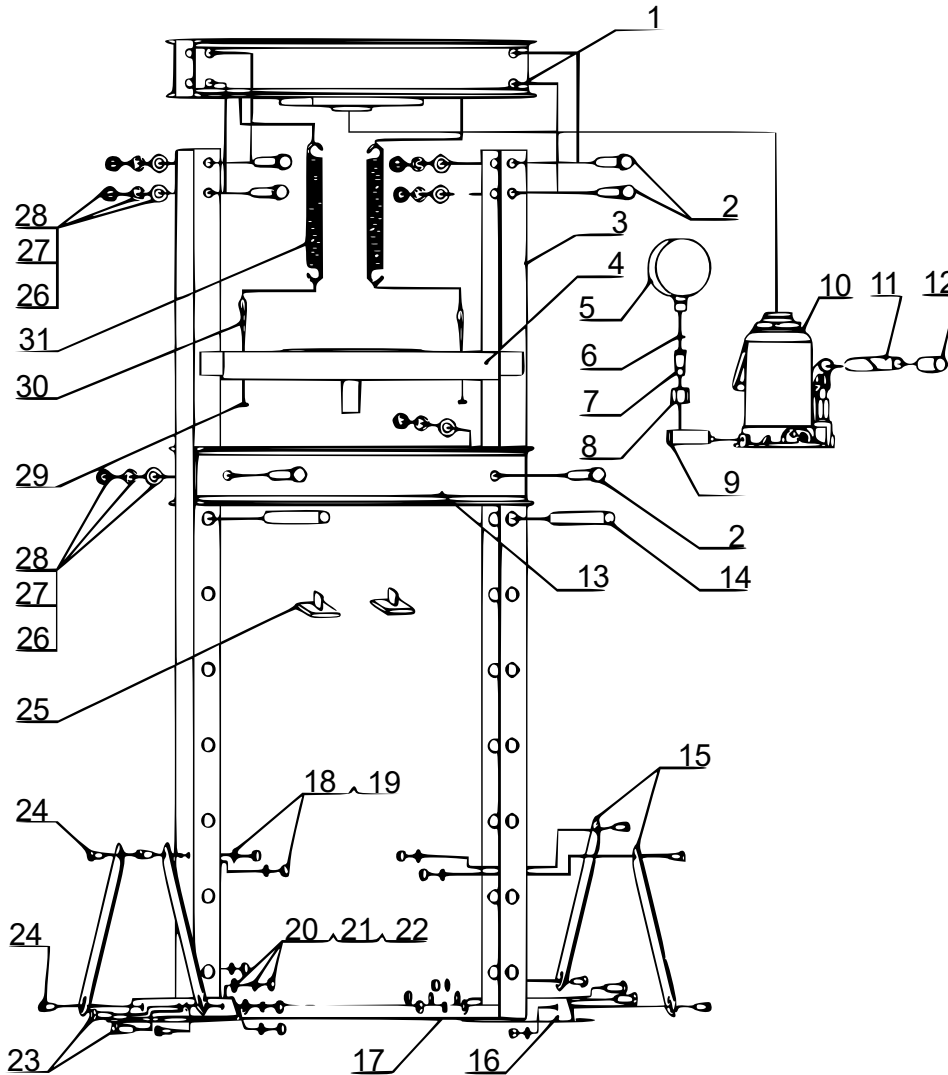
61976



Nº	Name	Qty.	Nº	Name	Qty.
1	Frame	1	12	Work area	2
2	Spring	2	13	Hexagon bolt M12×90	2
3	Pressure gauge	1	14	Pin	2
4	Seal	1	15	Hexagon nut M12	2
5	Display connection	1	16	Washer ø12	2
6	Nut	1	17	Foot	2
7	Corner connection	1	18	Hexagon bolt M10×25	4
8	Hydraulic cylinder	1	19	Hexagon nut M10	4

9	Handle	1	20	Spring washer $\varnothing 10$	4
10	Plate	1	21	Washer $\varnothing 10$	4
11	Press plate	2			

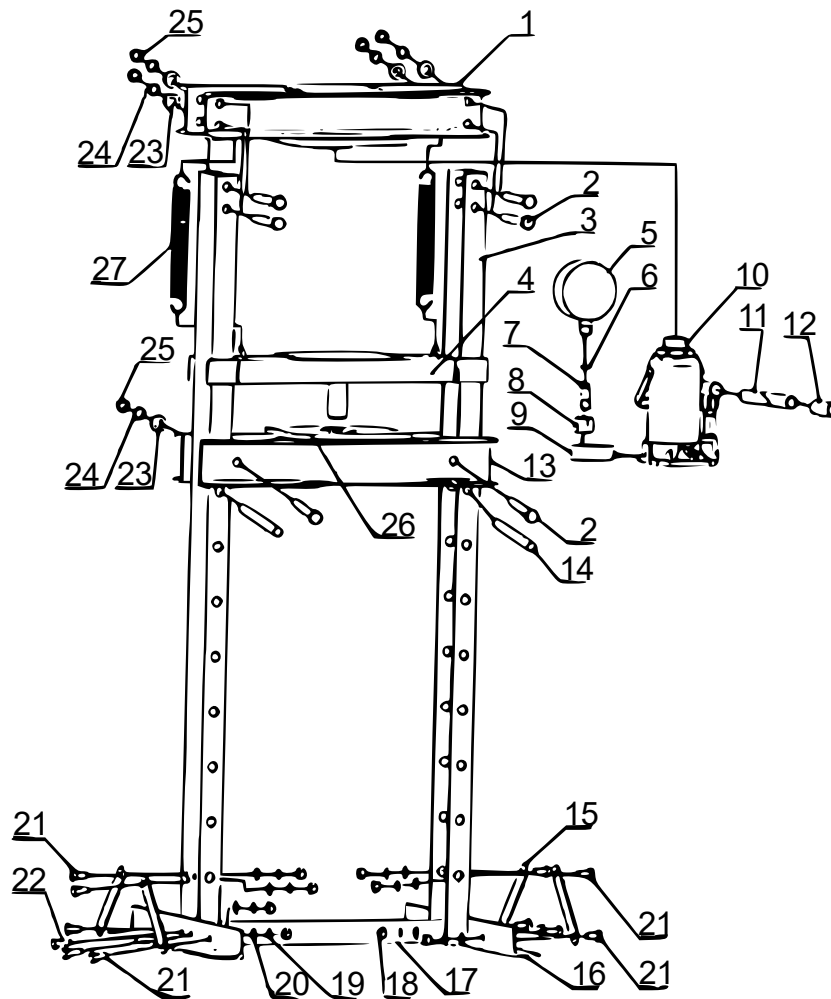
61977



No	Name	Qty.	No	Name	Qty.
1	Traverse	1	17	Connection	1
2	Hexagonal bolts M16×140	6	18	Washer $\varnothing 10$	8
3	Frame	2	19	Hexagonal nut M10	8
4	Centre beam	1	20	Washer $\varnothing 12$	4
5	Pressure gauge	1	21	Spring washer $\varnothing 12$	4
6	Nylon washer	1	22	Hexagonal nut M12	4
7	Pressure gauge connection	1	23	Hexagonal bolts M12×30	4
8	Coupling nut	1	24	Hexagonal bolts M10×20	8
9	Square steel connection	1	25	Work area	2

10	Hydraulic cylinder	1	26	Washer $\varnothing 16$	6
11	Handle	1	27	Spring washer $\varnothing 16$	6
12	Handle cover	1	28	Hexagon nut M16	6
13	Work table	2	29	Hexagon nut M8	2
14	Pin	2	30	Nut M8 $\times$ 30	2
15	Supporting strut	4	31	Spring	2
16	Foot	2			

61978



Nº	Name	Qty.	Nº	Name	Qty.
1	Traverse	1	15	Supporting strut	4
2	Hexagonal bolt M14 $\times$ 110	6	16	Foot	2
3	Frame	2	17	Connection	1
4	Centre beam	1	18	Hexagonal nut M10	12
5	Pressure gauge	1	19	Spring washer $\varnothing 10$	12
6	Nylon washer	1	20	Washer $\varnothing 10$	12
7	Pressure gauge connection	1	21	Hexagonal bolt M10 $\times$ 20	8





<b>8</b>	Connecting nut	1	<b>22</b>	Hexagonal bolt M10×25	4
<b>9</b>	Square steel connection	1	<b>23</b>	Washer ø14	6
<b>10</b>	Hydraulic cylinders	1	<b>24</b>	Spring washer ø14	6
<b>11</b>	Handle	1	<b>25</b>	Hexagonal nut M14	6
<b>12</b>	Handle cover	1	<b>26</b>	Work area	2
<b>13</b>	Work table	2	<b>27</b>	Spring	2
<b>14</b>	Pin	2			

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