

Weidmann

Operating Instructions for the WEIDMANN Type WP-U-Junior Piercing Press



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The purpose of these operating instructions

These operating instructions must be retained for the entire service life of the piercing press and must be observed whenever any activities are undertaken in connection with the piercing press.

If you sell the piercing press on to a third party, you must hand these operating instructions over to the purchaser concerned.

General safety information and general safety instructions

You may be exposed to the risks set out below whenever you use the piercing press, and you must therefore take the following protective measures:

The spindle dropping down: Always be sure to apply the brake on the spindle



Parts falling off: Wear safety shoes in line with EN20345



Parts flying off: Wear safety goggles in line with EN166 and protective gloves



Description of the piercing press

Mechanical piercing press, manually operated.

The manufacturer rejects all liabilities for any defects that may arise as a result of any modification that may have been made to the piercing press without the written approval of the manufacturer.

Intended use

This press is intended for use by adults within indoor spaces in trading and industrial premises.

These presses can be used for all pressing-in and pressing-out operations, at pressure forces of up to 2 tonnes. The press is also suitable for the following tasks: broaching, straightening, pressing, bending, riveting, embossing, stamping and assembly tasks.

The following are examples of improper use: splitting wood and the simultaneous operation of the hand wheel by more than one person.

Only those people who have read the necessary information within the operating instructions may work with the press, or interfere with the press or its operation.

Important information about the piercing press

The piercing press is constructed in line with the current status of technology and meets the requirements of the Swiss Federal Law on Product Safety, as well as the Swiss Ordinance on Product Safety.

Dimension Diagram (Layout/Plan view), see Page 10

Drawing of Punch Insert, see Page 11

Illustration of All Parts /Replacement Parts, see Page 12

Transport, handling and storage of the piercing press and/or components

The following people may be involved in these procedures: third parties; mechanics; transport agents

The following procedure must be adopted during transport:

- ◆ Prepare a small pallet 80x60cm and 1 wooden batten, measuring 260 mm
- ◆ Use straps to secure the vertical piercing press at the press head. See “Dimension Diagram” on Page 10.
- ◆ Lift the piercing press

Risk caused by gravitational force

Check strap for damage and carrying capacity. The weight of the piercing press is set out in the “Dimension Diagram” on Page 10.

Suspend the strap from the crane hook in accordance with the instructions

Secure the strap in accordance with the “Dimension Diagram” on Page 10



- ◆ Use a crane to position the piercing press in the centre of the pallet
- ◆ Use the hand wheel (ring or star-shaped hand wheel) to lift the press spindle all the way to the top
- ◆ Lay the wooden batten transversely across the press table and secure to the pallet with a steel strap

**Risk of the steel straps flying off into a person’s eyes and when they are cut
Wear protective glasses in accordance with EN166**

Wear protective gloves



- ◆ Move the press spindle completely to its lowest position and apply the spindle brake

Risk of crushing

Do not place your hands within the area of risk caused by the spindle



Risk of being pulled in

Do not touch the gear rim



- ◆ Pack the piercing press
- ◆ Use a pallet truck to transport the pallet, in accordance with instructions
- ◆ Unload the piercing press from the pallet: see section on “Putting into operation” on page 4

Putting into operation

This operation may be undertaken by: third parties; mechanics

The following procedure must be adopted when the equipment is first put into service:

- ◆ Cut off the steel straps

Risk of the steel straps flying off into a person's eyes and when they are cut
Wear protective glasses in accordance with EN166

Wear protective gloves



- ◆ Unpack the press
- ◆ Check whether the spindle brake is applied; if not, apply it now
- ◆ Use straps to secure the vertical piercing press at the press head. See "Dimension Diagram" on Page 10.
- ◆ Lift the piercing press

Risk caused by gravitational force

Check strap for damage and carrying capacity. The weight of the piercing press is set out in the "Dimension Diagram" on Page 10.

Suspend the strap from the crane hook in accordance with the instructions

Secure the strap in accordance with the "Dimension Diagram" on Page 10



- ◆ Line the piercing press up slowly at the intended location

Risk caused by gravitational force / risk of tipping over

The bases of the piercing press must only be set up on flat, clean surfaces

Set up the piercing press where you can ensure the necessary free space is available (see the "Dimension diagram" on Page 10)

Please note that there must also be enough ambient lighting to carry out the work



- ◆ Loosen the belt
- ◆ Use M10 screws to anchor the piercing press at the holes on the workbench intended for that purpose
- ◆ Locate the rotary table in the indentation provided in the table plate

Risk caused by incorrect loading

For workpieces weighing more than 5 kg, use the following method to evaluate the handling method:

www.suva.ch/88190.d. Use lifting gear if necessary.



Setting up

This operation may be undertaken by: users; third parties; mechanics

The following method must be used for setting up:

- ◆ Check whether the spindle brake is applied; if not, apply it now

Risk of crushing

Do not place your hands within the area of risk caused by the spindle

Apply the spindle brake



- ◆ Rotate the rotary table to the required slot width
- ◆ Remove the rotary table if it is not in use

Risk caused by incorrect loading

For workpieces weighing more than 5 kg, use the following method to evaluate the handling method:

www.suva.ch/88190.d. Use lifting gear if necessary.



Tool fixing

- ◆ Hold the insert punch/tool underneath on the press spindle
- ◆ Loosen the clamping screw on the press spindle
- ◆ Remove the insert punch/tool
- ◆ Insert the insert punch/tool
- ◆ Use the clamping screw on the press spindle to secure the insert punch/tool

Risk caused by falling objects

Any insert punches/tools not fabricated by the manufacturer must be manufactured in accordance with the drawing of the insert punch on Page 11.

If the insert punch/tool is loose, tighten the clamping screw.



Operating the press (production)

This operation may be undertaken by: users; third parties; mechanics

At the operational stage (production), the procedure below must be followed:

- ◆ Take the workpiece and place it upon the rotary table or table plate

Risk caused by incorrect loading

For workpieces weighing more than 5 kg, use the following method to evaluate the handling method:

www.suva.ch/88190.d. Use lifting gear if necessary.



- ◆ Take the insert and place it in the intended location on the workpiece
- ◆ Use the hand wheel (ring or star-shaped hand wheel) to move the press spindle onto the workpiece

Risk of crushing

Do not place your hands within the area of risk caused by the spindle

Apply the spindle brake



Risk of being pulled in

Do not touch the gear rim



- ◆ The press spindle may only be moved if no part of the body is within the area of risk
- ◆ The press spindle presses on the workpiece
- ◆ Use the press spindle to press the workpiece at the required position
- ◆ Raise the press spindle
- ◆ Remove the workpiece

Risk caused by incorrect loading

For workpieces weighing more than 5 kg, use the following method to evaluate the handling method:

www.suva.ch/88190.d. Use lifting gear if necessary.



Cleaning

This operation may be undertaken by: users; third parties

Cleaning tasks must be carried out as follows:

- ◆ Use a cleaning cloth to clean the press spindle on a weekly basis

Maintenance

This operation may be undertaken by: third parties; mechanics

Maintenance tasks must be carried out as follows:

- ◆ Use slideway oil to lubricate the press spindle on a weekly basis
- ◆ Use a universal grease to lubricate the grease nipple on the drive mechanism every 6 months
- ◆ Check the Teflon brake disk on the hand wheel every year and replace as necessary

Replacing the Teflon brake disks

Only original replacement parts may be used for this procedure (Order no.: Teflon brake disk).

- ◆ Lower the press spindle onto the table plate

Risk of crushing

Do not place your hands within the area of risk caused by the spindle

Apply the spindle brake



Risk of being pulled in

Do not touch the gear rim



- ◆ Loosen and then remove the screw on the gear rim
- ◆ Remove the gear rim.
If the gear rim is stuck, turn an M12 screw inside the thread and use a hammer to strike the head of that screw
- ◆ Take the gear rim off the spindle
- ◆ Loosen and remove the star handle in the centre of the hand wheel
- ◆ Remove the plate washer and spacing washer
- ◆ Remove the hand wheel
- ◆ Remove the slot key
- ◆ Remove the Teflon brake disc
- ◆ Pull the pinion out

- ◆ Remove and replace the Teflon brake disc on the toothed side
- ◆ Replace the pinion
- ◆ Replace the Teflon brake disc
- ◆ Insert the slot key
- ◆ Mount the hand wheel
- ◆ Fit the galvanised spacing washer
- ◆ Fit the black plate washer with the indentation onto the hand wheel
- ◆ Fit and tighten the star handle in the centre of the hand wheel
- ◆ Slide on the gear rim
- ◆ Use a screw to fix the gear rim in place

Production stoppage

This operation may be undertaken by: third parties; mechanics

The following procedure must be used in the event of production stoppages:

- ◆ Rotary table (slot width) in the wrong position: turn to the correct position as necessary
- ◆ Foreign body between table plate and workpiece: remove foreign body as necessary

Malfunction of the piercing press

This operation may be undertaken by: third parties; mechanics

The following procedure must be used in the event of a malfunction of the piercing press:

- ◆ The press spindle lowers of its own accord: apply the spindle brake

Taking out of service

This operation may be undertaken by: third parties; mechanics

The following procedure must be used to take the equipment out of service:

- ◆ Raise the rotary table and lift it out of the centring hole on the table
- ◆ Move the press spindle completely to its lowest position and apply the spindle brake

Risk of crushing

Do not place your hands within the area of risk caused by the spindle



Risk of being pulled in



Do not touch the gear rim

- ◆ Loosen the M10 screws from the workbench
- ◆ Use a crane to place the piercing press on a pallet (see operating method for Transport, Page 3)

Disposal

This operation may be undertaken by: third parties; mechanics; transportation providers, disposal specialists

The following procedure must be used for disposal of the equipment:

- ◆ Remove oil and grease
- ◆ Dismantle plastic components and dispose of them correctly
- ◆ Dispose of metal components correctly

CE Conformity Declaration

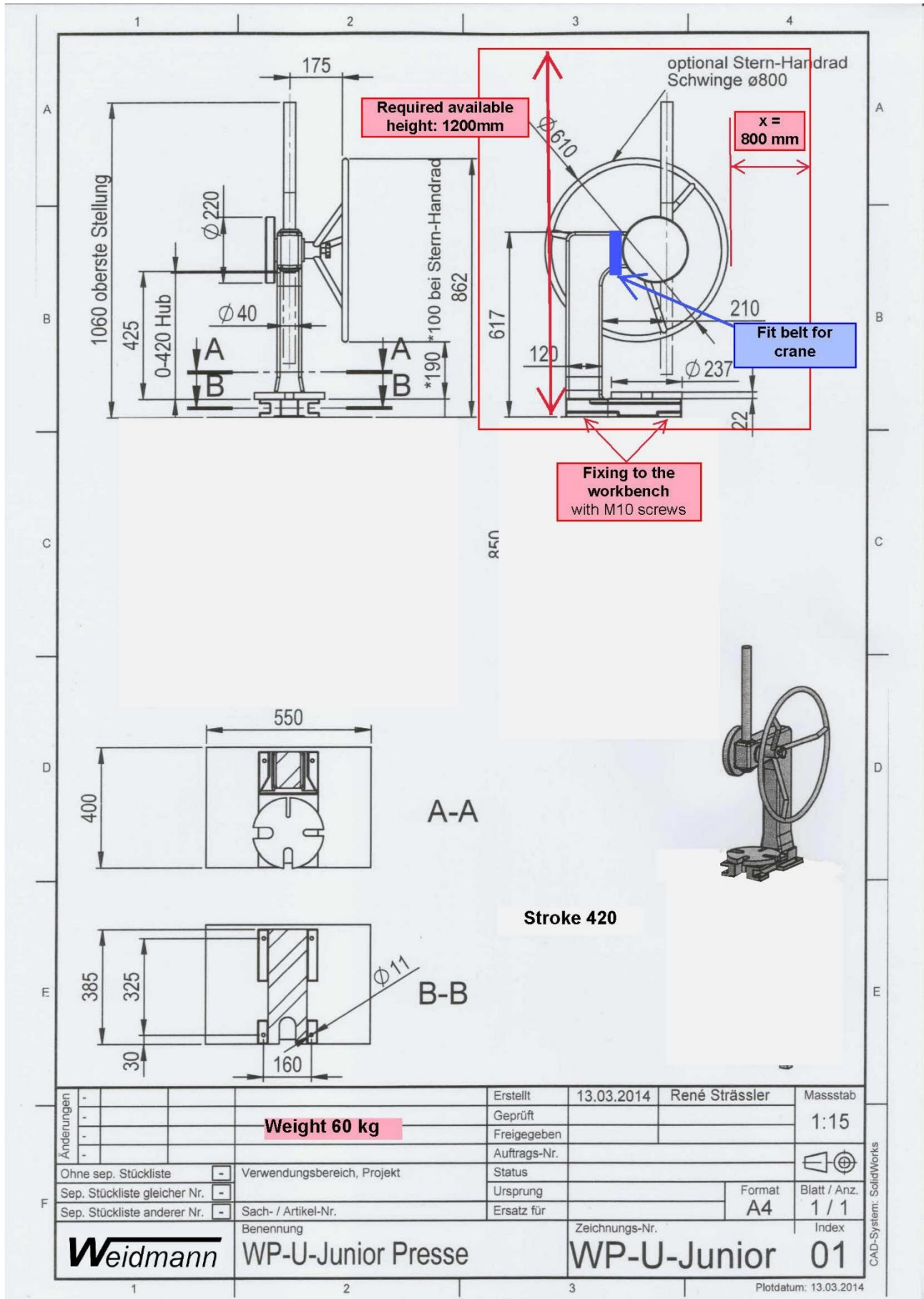
We hereby declare that we **may not attach any CE label** to our piercing presses, since these presses are operated solely by human effort and do not include any lifting procedures. As a result, they do not fall within the scope of EU Machinery Directive 2006/42/EC.

Extract from EU Machinery Directive 2006/42/EC

Within the meaning of Article 1 of the Machinery Directive, machines must, according to Article 2 of the Machinery Directive, exhibit one of the following characteristics in respect of their drive systems:

- an assembly, fitted with or intended to be fitted with a drive system other than directly applied human or animal effort, consisting of linked parts or components, at least one of which moves, and which are joined together for a specific application
- an assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort.

Dimension Diagram (Layout/Plan View)



Drawing of Punch Insert

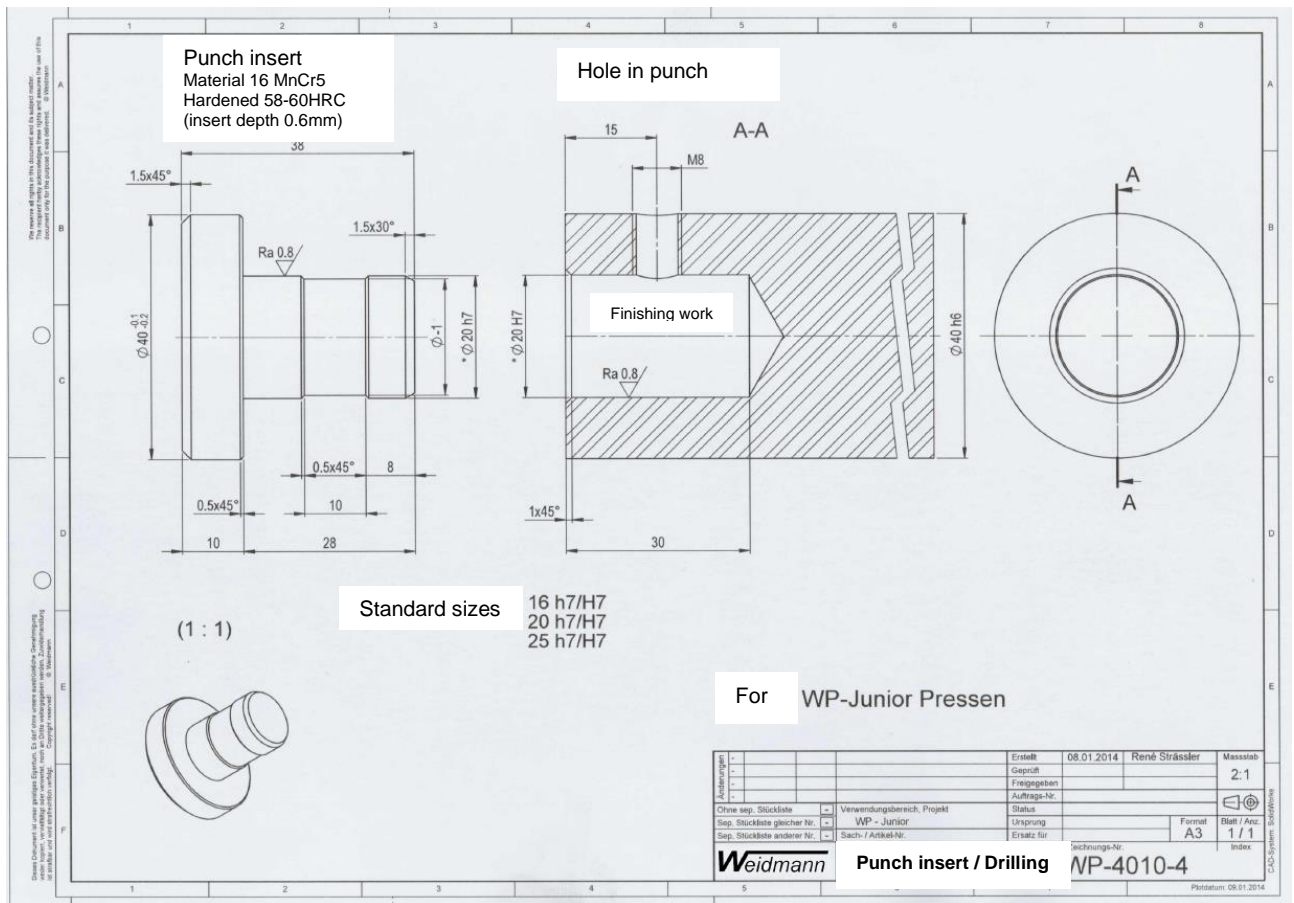
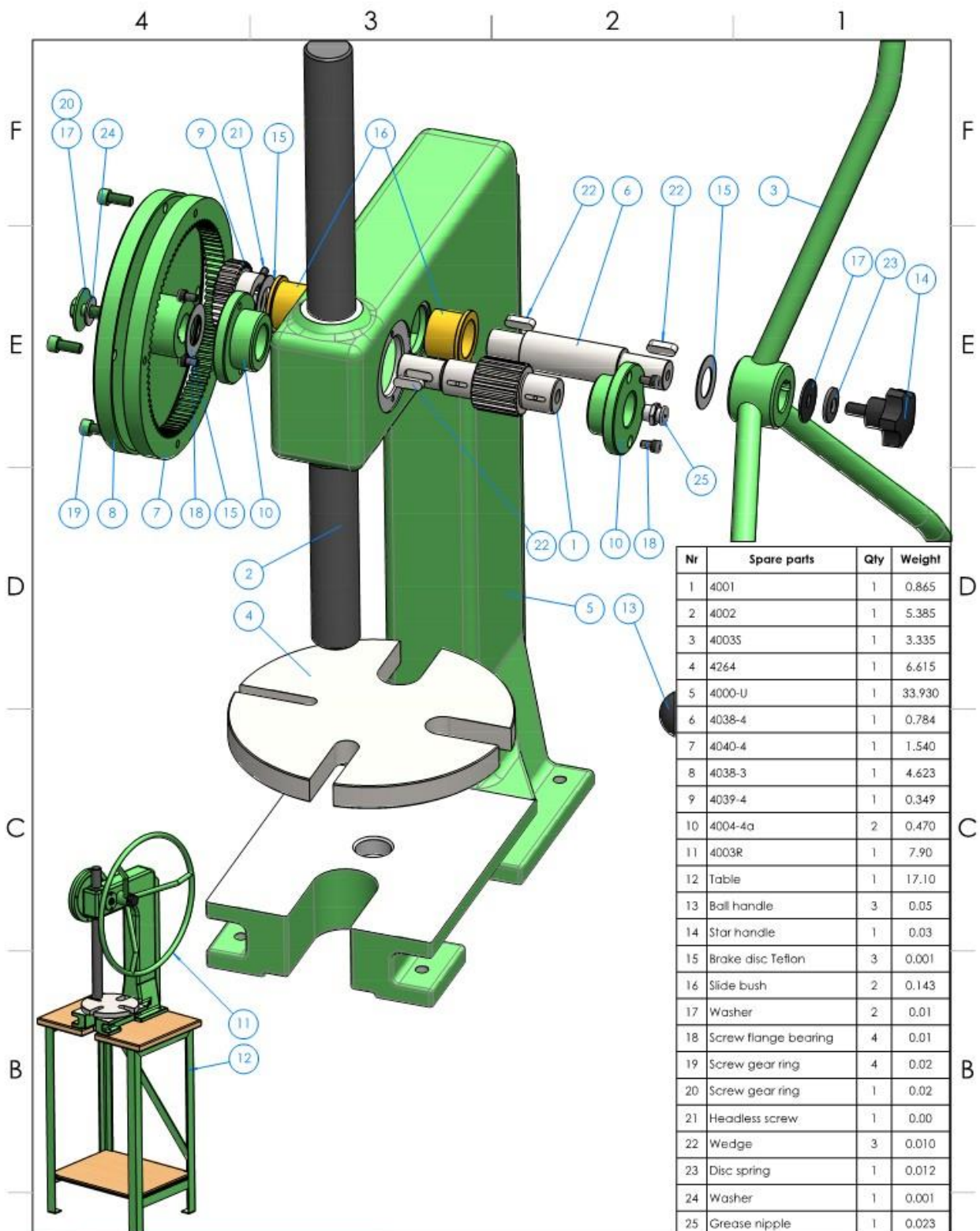


Illustration of all Parts/Replacement Parts



Nr	Spare parts	Qty	Weight
1	4001	1	0.865
2	4002	1	5.385
3	4003S	1	3.335
4	4264	1	6.615
5	4000-U	1	33.930
6	4038-4	1	0.784
7	4040-4	1	1.540
8	4038-3	1	4.623
9	4039-4	1	0.349
10	4004-4a	2	0.470
11	4003R	1	7.90
12	Table	1	17.10
13	Ball handle	3	0.05
14	Star handle	1	0.03
15	Brake disc Teflon	3	0.001
16	Slide bush	2	0.143
17	Washer	2	0.01
18	Screw flange bearing	4	0.01
19	Screw gear ring	4	0.02
20	Screw gear ring	1	0.02
21	Headless screw	1	0.00
22	Wedge	3	0.010
23	Disc spring	1	0.012
24	Washer	1	0.001
25	Grease nipple	1	0.023

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SPARE PARTS

Bemerkungen :
Datiert : 04/04/2022

Typ WP-U-Junior

A4

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