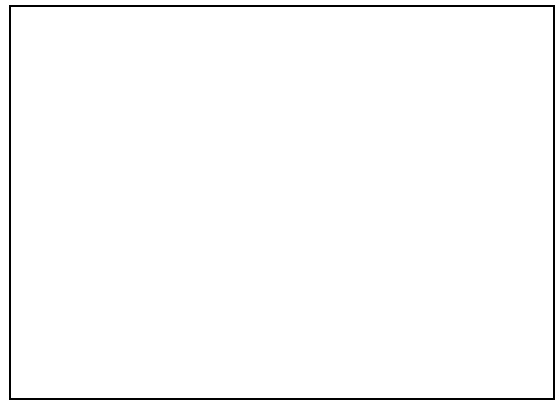


Manual

Pellet Press PP 40



Translation



Copyright

© Copyright by
Retsch GmbH
Retsch-Allee 1-5
42781 Haan
Germany

Table of Contents

1	Notes on the manual	6
1.1	Explanation of signs and symbols	6
1.2	Disclaimer	6
1.3	Copyright	6
2	Safety	7
2.1	Explanations of the Safety Instructions	7
2.2	General Safety Instructions	8
2.3	Repairs	9
2.4	Confirmation Form for the Managing Operator	10
3	Technical Data	11
3.1	Protective Equipment	11
3.2	Degree of Protection	11
3.3	Emissions	11
3.4	Mains connection	11
3.5	Rated Power	11
3.6	Dimensions and Weight	11
3.7	Required Floor Space	11
3.8	Receptacle Volume	12
3.9	Feed Grain Size	12
3.10	Drive power	12
3.11	Pressure Force	12
4	Packaging, Transport and Installation	13
4.1	Packaging	13
4.2	Transport	13
4.3	Temperature Fluctuations and Condensation	13
4.4	Conditions for the Installation Site	14
4.5	Electrical Connection	14
4.6	Type Plate Description	15
4.7	Removing the Transportation Aid	16
5	First Commissioning	18
6	Operating the Device	20
6.1	Use of the Device for the Intended Purpose	20
6.2	Switching On / Off	20
6.3	Emergency Unlocking	20
6.4	Production of a Pellet	21
6.4.1	Free pressing / Pressing in an aluminium cup	21
6.4.2	Pressing in the steel ring	27
6.4.3	Reusing the steel ring	28
6.5	Programme Mode	29
6.5.1	Changing programs	29
6.5.2	Edit program	30
6.5.3	Altering settings	31
7	Error Messages and Information Notes	33
7.1	Error Messages	33
7.2	Information Notes	34
8	Return for Service and Maintenance	35
9	Cleaning, Wear and Maintenance	36
9.1	Cleaning	36
9.1.1	Cleaning the housing	36
9.1.2	Cleaning the pressure chamber	36
9.2	Wear	39
9.3	Maintenance	39

10	Accessories	40
11	Disposal.....	41
12	Index	42

1 Notes on the manual

This manual provides technical guidelines for the safe operation of the device. Read this manual through carefully before installing, putting into service and operating the device. Reading and understanding this manual is essential for handling the device safely and as intended.

This manual does not contain any repair instructions. Please contact your supplier or contact Retsch GmbH directly if anything is unclear or you have questions about these guidelines or the device, or in the case of any faults or necessary repairs.

You can find further information about your device at <https://www.retsch.com> on the pages for the specific device concerned.

Amendment status:

The document amendment 0002 of the "Pellet Press PP 40" manual has been prepared in accordance with the Directive of Machinery 2006/42/EC.

1.1 Explanation of signs and symbols

In this document the following **signs and symbols** are being used:

①	Reference to a recommendation and/or an important information
→	Reference to a chapter, table or figure
⇒	Action instruction
Name	Software menu function
[Name]	Software button
<Name>	Software checkbox

1.2 Disclaimer

This manual has been prepared with great care. We reserve the right to make technical changes. We assume no liability for personal injuries resulting from the failure to follow the safety information and warnings in this manual. No liability will be assumed for damage to property resulting from the failure to follow the information in this manual.

1.3 Copyright

This document or parts of it or its content may not be reproduced, distributed, edited or copied in any form without prior written permission of Retsch GmbH. Damage claims shall be asserted in the case of infringements.

2 Safety

Safety Officer

The operating company itself must ensure the following with respect to persons authorised to work on the device:

- that they have read and understood all regulations contained in the chapter on safety;
- that they are aware before they start work of all instructions and regulations for the target group related to the work;
- that they have easy access to the manual for this device at all times;
- that they have been familiarised with the safe and correct handling of the device before starting work on it, by means of a verbal introduction by a competent person and/or using this manual.

⚠ Improper operation can lead to personal injuries. The operating company itself is responsible for its safety and that of its staff. The operating company itself must ensure that no unauthorised persons have access to the device.

Target group

All those operating, cleaning or working with or on the device.

This device is a modern, powerful product from Retsch GmbH and has been developed in line with the state-of-the art. The device is safe to use when operated correctly and when following the instructions in this manual.

⚠ People under the influence of intoxicating substances (medications, drugs, alcohol) or who are overtired may not operate the device or work on the device.

2.1 Explanations of the Safety Instructions

The following **warnings** in this manual warn of possible risks and damage:

⚠ DANGER	<small>D1.0000</small>
<p>Risk of fatal injuries</p> <p>Source of danger</p> <ul style="list-style-type: none"> – Possible consequences if the danger is ignored. <ul style="list-style-type: none"> • Instructions and information on how to avoid the risk. 	

Fatal or serious injuries may result if the “Danger” sign is disregarded. There is a **very high risk** of a life-threatening accident or lasting personal injury. The signal word **⚠ DANGER** is additionally used in the running text or in instructions.

⚠ WARNING	<small>W1.0000</small>
<p>Risk of life-threatening or serious injuries</p> <p>Source of danger</p> <ul style="list-style-type: none"> – Possible consequences if the danger is ignored. <ul style="list-style-type: none"> • Instructions and information on how to avoid the risk. 	

Life-threatening or serious injuries may result if the “Warning” sign is disregarded. There is an **increased risk** of a serious accident or of a possibly fatal personal injury. The signal word **⚠ WARNING** is additionally used in the running text or in instructions.

⚠ CAUTION

C1.0000

Risk of injuries

Source of danger

- Possible consequences if the danger is ignored.
- **Instructions and information on how to avoid the risk.**

Average to slight injuries may result if the “Caution” sign is disregarded. There is an average or slight risk of an accident or personal injury. The signal word **⚠ CAUTION** is additionally used in the running text or in instructions.

NOTICE

N1.0000

Type of damage to property

Source of the damage to property

- Possible consequences if the information is ignored.
- **Instructions and information on how to avoid the damage to property.**

Damage to property may result if the information is disregarded. The signal word **NOTICE** is additionally used in the running text or in instructions.

2.2 General Safety Instructions

⚠ CAUTION

C2.0002

Risk of injury

Lack of knowledge of the manual

- The manual contains all safety-related information. Disregarding the manual can therefore lead to injuries.
- **Read the manual carefully before operating the device.**



⚠ CAUTION

C3.0015

Risk of injury

Improper modifications to the device

- Improper modifications to the device can result in injuries.
- **Do not make any unauthorised changes to the device.**
- **Only use the spare parts and accessories approved by Retsch GmbH!**

NOTICE

N2.0012

Changes to the device

Improper modifications

- The conformity declared by Retsch GmbH with the European Directives will lose its validity.
- Any warranty claims will be terminated.
- **Do not make any modification to the device.**
- **Use spare parts and accessories that have been approved by Retsch GmbH exclusively.**



2.3 Repairs

This manual does not contain any repair instructions. For safety reasons, repairs may only be carried out by Retsch GmbH or an authorised representative or by qualified service technicians.

In case of repair, please inform...

- ...the Retsch GmbH representative in your country,
- ...your supplier, or
- ...Retsch GmbH directly.

Service address:

2.4 Confirmation Form for the Managing Operator

This manual contains essential instructions for operating and maintaining the device which must be strictly observed. It is essential that they be read by the user and by the qualified staff responsible for the device before the device is commissioned. This manual must be available and accessible at the place of use at all times.

The user of the device herewith confirms to the managing operator (owner) that he has received sufficient instructions about the operation and maintenance of the system. The user has received the manual, has read and taken note of its contents and consequently has all the information required for safe operation and is sufficiently familiar with the device.

The managing operator should for legal protection have the user confirm the instruction about the operation of the device.

I have read and taken note of the contents of all chapters in this manual as well as all safety instructions and warnings.

User

Surname, first name (block letters)

Position in the company

Place, date and signature

Managing operator or service technician

Surname, first name (block letters)

Position in the company

Place, date and signature

3 Technical Data

3.1 Protective Equipment

The PP 40 door closure is monitored.
The device can only be started when the door is closed.

3.2 Degree of Protection

- IP 40

3.3 Emissions

Noise measurement in conformance to DIN 45635-31-01-KL3
The noise characteristic levels are mainly caused by the hydraulic unit at max. pressure.
Workplace-related emissions level L_{pAeq} = up to 60 dB(A)

3.4 Mains connection

100 - 120 V, 50/60 Hz
220 - 240 V, 50/60 Hz
Mains voltage fluctuations +/- 10%

3.5 Rated Power

- 650 VA

3.6 Dimensions and Weight

- Housing height: 495 mm
- Housing width: 335 mm
- Housing depth: 570 mm
- Pressing chamber max. height: 270 mm
- Pressing chamber min. height: 110 mm
- Pressing chamber width: 220 mm
- Pressing chamber depth: 220 mm
- Weight: 120 kg
- Oil type: Hydraulic oil Lg22

3.7 Required Floor Space

Approx. 350mm x 600 mm. It is important to ensure that the device is accessible from the back.

3.8 Receptacle Volume

Depending on the material: 8 – 12 ml

Depending on the design of the pressing tool, the PP 40 can be used with rings or aluminium trays or for free pressing in different sizes:

Ring size	Size of the aluminium tray
Ø 40/32	Ø 40
Ø 40/35	Ø 32
Ø 51.5/35	

3.9 Feed Grain Size

Maximum grain size: < 100µm

3.10 Drive power

- 100 W

3.11 Pressure Force

The pressure force of the PP 40 is 0 - 40 t.

The pressure time can be set from 1-99 seconds.

The maximum pressing force applies to the pressing tool for rings:

Ring size	Maximum pressure force
Ø 40/32	15 t
Ø 40/35	15 t
Ø 51.5/35	30 t

The maximum pressing force applies to the pressing tool for aluminium trays:

Size of the aluminium tray	Maximum pressure force
Ø 32	25 t
Ø 40	40 t

NOTICE Setting a higher pressing force may result in damage to the pressure tool!

NOTICE The use of rings for powder-wax mixtures is prohibited!

4 Packaging, Transport and Installation

4.1 Packaging

The packaging has been adapted to the mode of transport. It complies with the generally applicable packaging guidelines.

NOTICE

N3.0001

Complaint or return

Keeping the packaging

- Inadequate packaging and insufficient securing of the device can jeopardise the warranty claim in the event of a complaint or return.
- **Keep the packaging for the duration of the warranty period.**

4.2 Transport

NOTICE

N4.0017

Damage to components

Transport

- Mechanical or electronic components may be damaged during transport. The device must not be knocked, shaken or thrown during transport.
- **Move the device gently during transport.**

NOTICE

N5.0014

Complaints

Incomplete delivery or transport damage

- The forwarding agent and Retsch GmbH must be notified immediately in the event of transport damage. It is otherwise possible that subsequent complaints will not be recognised.
- **Please check the delivery on receipt of the device for its completeness and intactness.**
- **Notify your forwarding agent and Retsch GmbH within 24 hours.**

4.3 Temperature Fluctuations and Condensation

NOTICE

N6.0016

Damaged components due to condensation

Temperature fluctuations

- The device may be exposed to substantial fluctuations in temperature during transport. The ensuing condensation can damage electronic components.
- **Wait until the device has acclimatised before putting it into service.**

Temporary storage:

In case of an interim storage the device must be stored dry and within the specified ambient temperature range.

4.4 Conditions for the Installation Site

NOTICE

N7.0021

Ambient temperature

Temperatures outside the permitted range

- Electronic and mechanical components may be damaged.
- The performance data alters to an unknown extent.
- **Do not exceed or fall below the permitted temperature range (5 °C to 40 °C ambient temperature) of the device.**
- Installation height: max. 2 000 m above sea level
- Ambient temperature: 5 °C – 40 °C
- Maximum relative humidity < 80 % (at ambient temperatures ≤ 31 °C)

For ambient temperatures U_T between 31 °C and 40 °C, the maximum relative humidity value L_F linearly decreases according to $L_F = -(U_T - 55) / 0.3$:

Ambient temperature	Max. rel. humidity
≤ 31 °C	80 %
33 °C	73.3 %
35 °C	66.7 %
37 °C	60 %
39 °C	53.3 %
40 °C	50 %

NOTICE

N8.0015

Humidity

High relative humidity

- Electronic and mechanical components may be damaged.
- The performance data alters to an unknown extent.
- **The relative humidity in the vicinity of the device should be kept as low as possible.**

4.5 Electrical Connection

⚠ WARNING

W2.0015

Risk to life caused by an electric shock

Connection to socket without a protective earth conductor

- Connecting the device to sockets without a protective earth conductor can lead to life-threatening injuries caused by an electric shock.
- **Always operate the device using sockets with a protective earth conductor (PE).**



NOTICE

Electrical connection

Failure to observe the values on the type plate

- Electronic and mechanical components may be damaged.
- **Connect the device only to a mains supply matching the values on the type plate.**

⚠ WARNING When connecting the power cable to the mains supply, use an external fuse that complies with the regulations applicable to the place of installation.

- Check the type plate for details on the necessary voltage, frequency, and maximum external current source fuse for the device.
- The listed values must agree with the existing mains supply.
- Only use the supplied power cable to connect the device to the mains supply.

The drive for the appliance is equipped with a frequency converter. To fulfil the EMC directive, this is equipped with a mains filter and shielded cables to the drive. If your mains connection for the device includes a residual current device, the fault protection circuit on the frequency inverter may cause the residual current device to trip incorrectly when it is switched on without there being a fault in the device or in the mains installation.

According to the current state of the art, selective, all-current sensitive residual current devices of type B or B+ are recommended in such cases. The tripping current must be sufficiently dimensioned, as capacitive equalising currents that occur only briefly can easily lead to false tripping when switching the unit on.

4.6 Type Plate Description

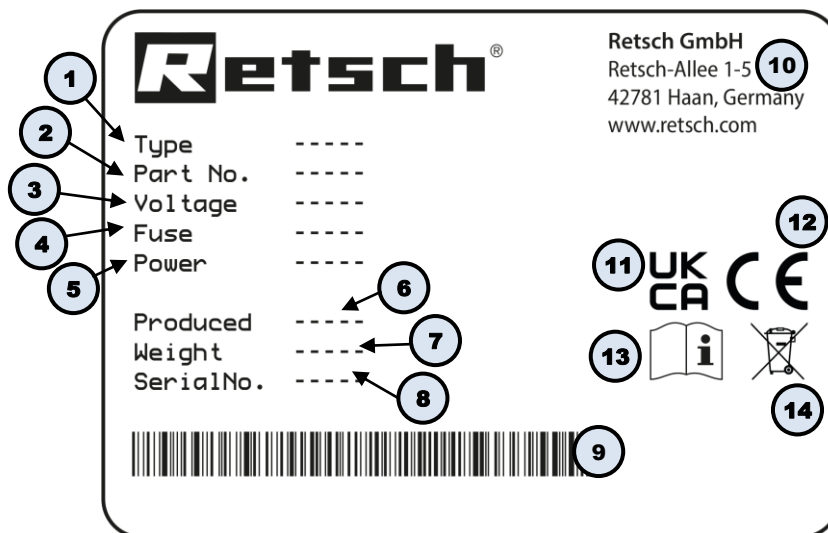


Fig. 1: Type plate

- 1 Device designation
- 2 Part number
- 3 Power version, Mains frequency
- 4 Fuse type and fuse strength
- 5 Capacity, Amperage
- 6 Year of production

- 7 Weight
- 8 Serial number
- 9 Bar code
- 10 Manufacturer's address
- 11 UKCA marking
- 12 CE marking
- 13 Safety warning: Read the manual
- 14 Disposal label

① In the case of queries please provide the device designation (1) or part number (2), as well as the serial number (8) of the device.

4.7 Removing the Transportation Aid

WARNING

W3.0005

Risk of injury due to the device falling down
Lifting the device above head height

- The device can fall causing serious injuries when lifted above head height.
- **Never lift the device above head height!**

The pellet press is supplied in a sturdy 2-part cardboard box.



Fig. 2: Pellet press packaging

- ⇒ Remove the two straps and take the outer cardboard box off the pallet.
- ⇒ Loosen the screws on the inner cardboard box and remove them.



Fig. 3: Remove the inner cardboard box

⇒ Loosen the 4 screws which connect the pellet press to the transport aid.



Fig. 4: Loosen the transport aid screws

⇒ Lift the pellet press onto a sturdy and steady table.

NOTE The table must be designed to bear a weight of approx. 120 kg!


5 First Commissioning

⚠
WARNING

W4.0002

Danger to life through electric shock
Damaged power cable

- Operating the device with a damaged power cable or plug can lead to life-threatening injuries caused by an electric shock.
- **Before operating the device, check the power cable and plug for damage.**
- **Never operate the device with a damaged power cable or plug!**



N
NOTICE

N10.0002

Setting up the device
Disconnecting the device from the mains

- A separation of the device from the mains must be possible at any time.
- **Set up the device in such a way, that the connection for the power cable is always easily accessible.**

Scope of supply:

- 1x PP 40 pellet press
- 1x connection cable
- 1x fuse 4A
- 1x venting hose
- 1x delivery screw cap / press-screw cap (red)
- 1x pressing tool
- 1x pressing-out aid
- 1x 8-mm hexagon socket

⇒ Unscrew the rear metal-sheet panel.



Fig. 5: Remove the rear metal-sheet panel.

⇒ Unscrew the delivery screw cap and replace it with the press-screw cap (red).

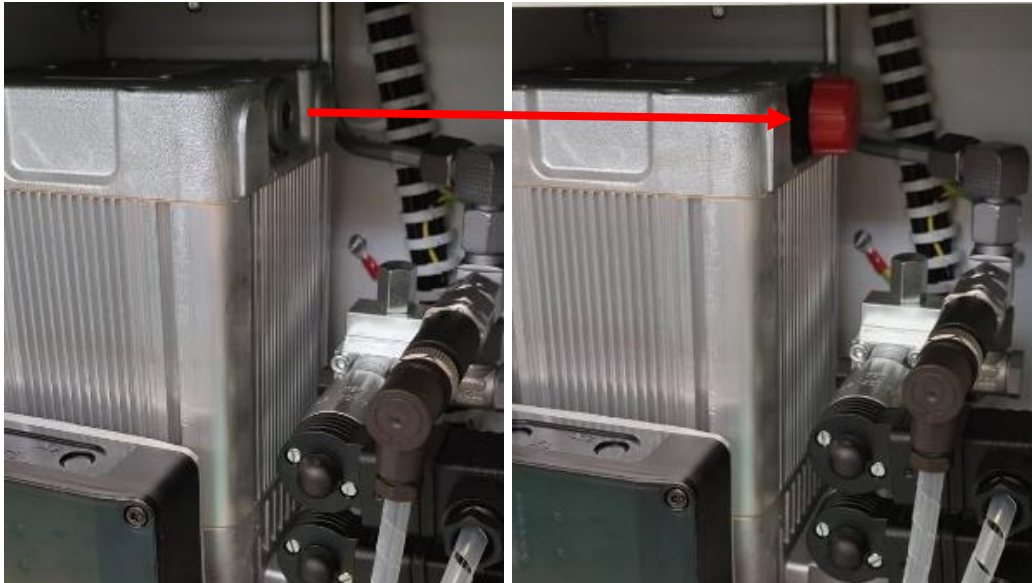


Fig. 6: Replace the delivery screw cap with a press-screw cap.

- ⇒ Screw the rear metal-sheet panel on again.
- ⇒ Connect the connection cable to the press and insert it into a shockproof socket.
- ⇒ Pull the pellet press tool sliding tray out as far as it will go.
- ⓘ Make sure the tool sliding tray is clean and that there is no feed material in it as this would destroy the tool sliding tray during the subsequent pressing procedure.
- ⇒ Insert the pressing tool included in the scope of supply into the tool-sliding tray device and fill the pressing tool.

NOTE Only work with the pressing tool included in the scope of supply.

- ⇒ Put the cover on the pressing tool and push the tool sliding tray into the press again.
- ⇒ Use the mains switch to turn on the press.
- ⓘ Caution: the emergency-stop switch must be pulled.

6 Operating the Device

6.1 Use of the Device for the Intended Purpose

⚠ CAUTION

C4.0005

Risk of injury

Potentially explosive atmosphere

- The device is not suitable for use in potentially explosive atmospheres. Operating the device in a potentially explosive atmosphere can lead to injuries caused by an explosion or fire.
- **Never operate the device in a potentially explosive atmosphere!**

⚠ CAUTION

C5.0006

Risk of injury

Sample material that is harmful to health

- Sample material that is harmful to health can injure people (illness, contamination).
- **Use suitable extraction systems with sample material that is harmful to health.**
- **Use suitable personal protective equipment with sample material that is harmful to health.**
- **Take note of the safety data sheets for the sample material.**



NOTICE

N11.0007

Range of application of the device

Long-term operation

- This laboratory device is designed for eight-hour single-shift operation with a duty cycle of 30 %.
- **This device may not be used as a production machine nor is it intended for continuous operation.**

The Retsch PP 35 pellet press serves to quickly press-mould different minerals, slag, ores, cement, raw material etc.

Soil samples, ores, coal, coke, corundum, metal oxides, minerals, plant samples, slag, silicates, cement, and a lot of other substances can be press-moulded easily and quickly. The pellet press is used successfully in almost all areas of industry and research, particularly where stringent requirements are set for purity, speed, fineness and reproducibility.

The pellet press may only be used as a laboratory device.

6.2 Switching On / Off

The mains switch is located on the back of the device.

6.3 Emergency Unlocking

The emergency stop switch is located on the front of the device.

6.4 Production of a Pellet

The pressure force of the PP 40 is 0 - 40 t.
 The pressure time can be set from 1-99 seconds.

The maximum pressing force applies to the pressing tool for rings:

Ring size	Maximum pressure force
Ø 40/32	15 t
Ø 40/35	15 t
Ø 51.5/35	30 t

The maximum pressing force applies to the pressing tool for aluminium trays:

Size of the aluminium tray	Maximum pressure force
Ø 32	25 t
Ø 40	40 t

NOTICE Setting a higher pressing force may result in damage to the pressure tool!

NOTICE The use of rings for powder-wax mixtures is prohibited!

6.4.1 Free pressing / Pressing in an aluminium cup

⇒ Open the door.



Fig. 7: Open the door

⇒ Pull out the tool sliding tray.



Fig. 8: Pull out the tool sliding tray.

⇒ Take the cover off.



Fig. 9: Take the cover off

⇒ Adjust the catch correctly so that it can hook in as the die moves down.



Fig. 10: Adjust the catch

⇒ Fill the feed material into the aluminium cup or into the pressing tool if doing free pressing.



Fig. 11: Fill in the feed material

⇒ Close the cover.



Fig. 12: Close the cover

⇒ Push the tool sliding tray into the pellet press again and close the door.



Fig. 13: Closed press

⇒ Touch the display.

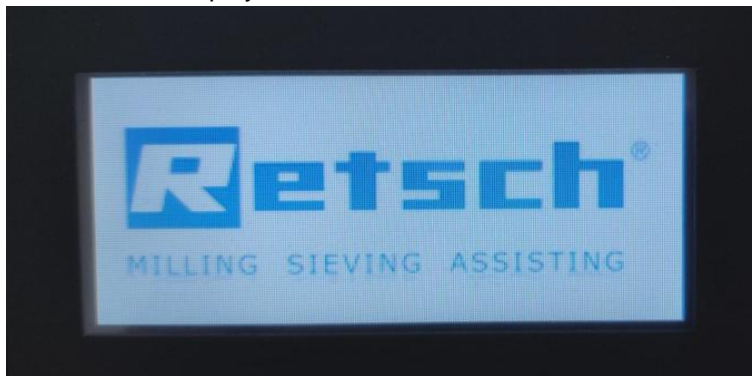


Fig. 14: PP 40 Display

① The software opens.

⇒ Press [Start] to start the pressing procedure.

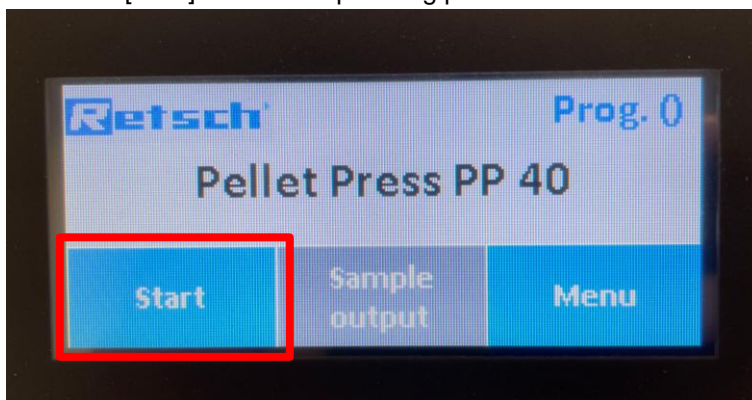


Fig. 15: Start the pressing procedure

① The pressing procedure can be stopped by pressing [Stop].

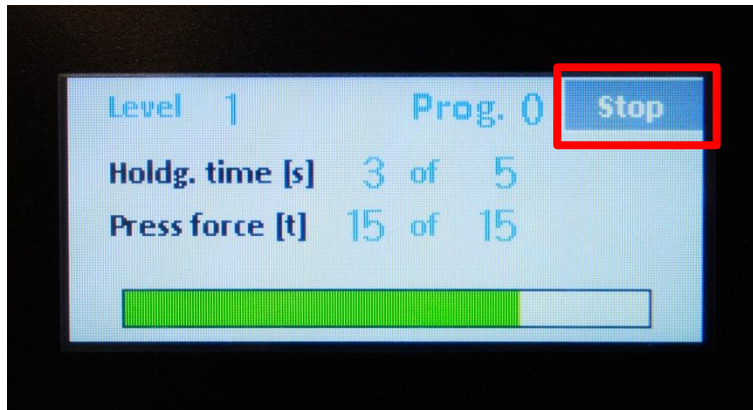


Fig. 16: Stop the pressing procedure

- ⇒ Close the [End of program] message after the end of the program.

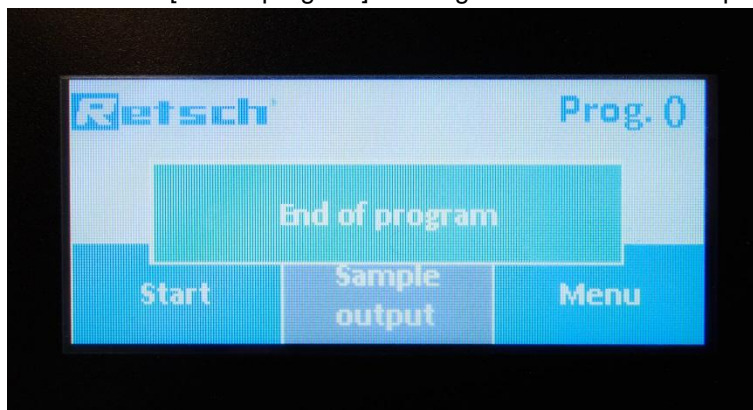


Fig. 17: End of program

- ① Once the “End of program” message appears, the press is blocked for approx. 25 seconds in order to give the cylinder time to return to the initial position.
- ⇒ Open the door, pull out the tool sliding tray and take the cover off.
- ⇒ Put on the pressing-out aid.



Fig. 18: Put on the pressing-out aid

- ⇒ Push the tool sliding tray into the press again.
- ⇒ Close the door.
- ⇒ Select [Sample output].

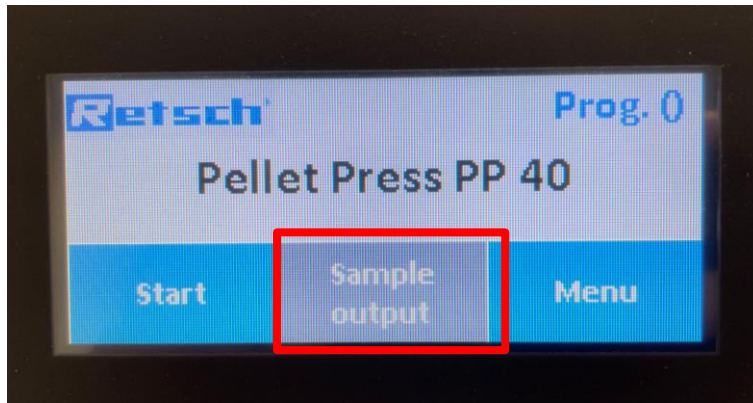


Fig. 19: Activate the sample output.

- ① As long as the cylinder is not in its initial position, a red bar appears in the display. As soon as the cylinder has been pulled back to the initial position, the red bar disappears.

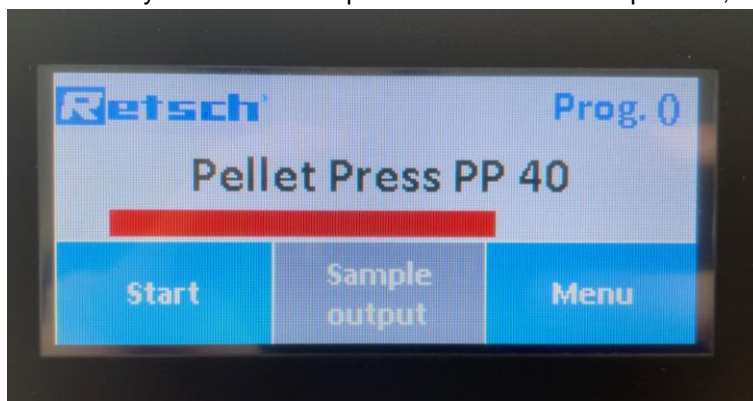


Fig. 20: Cylinder is pulled into the initial position

- ⇒ Touch [Sample output] again to start the procedure.
- ① Once the sample output starts, a green bar appears. This makes it possible to follow the progression of time during the pressing-out procedure.

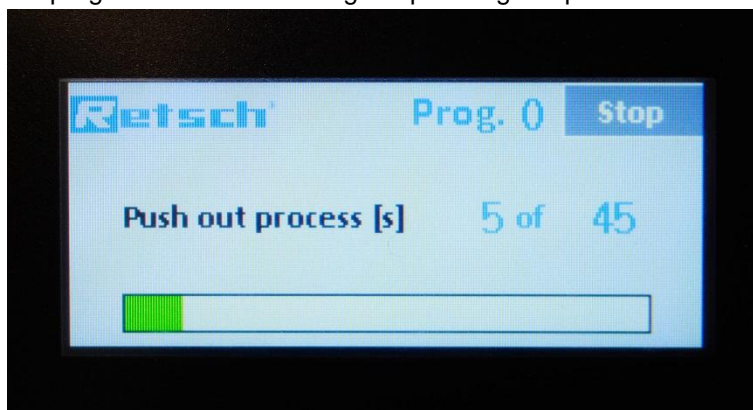


Fig. 21: Progression of time during the pushing-out procedure

After the end of the pressing-out procedure:

- ⇒ Open the press, pull out the tool sliding tray and take the cylinder cover off.
- ⇒ Remove the sample pellet.

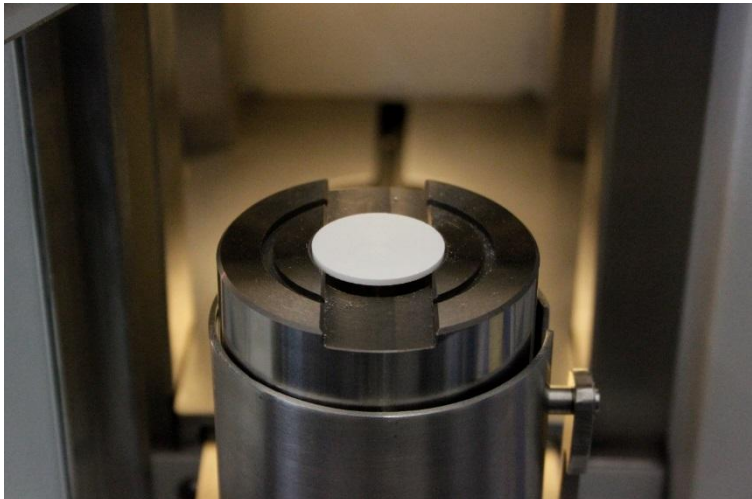


Fig. 22: Finished pellet

6.4.2 Pressing in the steel ring

Insert the pressing tool for steel rings and proceed as described in Chapter 6.4.1. If the pellet is not pressed out completely, the pressing-out time must be extended. See Chapter 6.5.3.

NOTICE The use of rings for powder-wax mixtures is prohibited!



Fig. 23: Pressing tool for steel rings

⇒ Insert the steel ring with the flat rim facing upwards.



Fig. 24: Insert the steel ring.

- ⇒ Fill the feed material into the ring.



Fig. 25: Fill in the feed material

- ⇒ Put the cover on the pressing tool.
- ⇒ Proceed as described in Chapter 6.4.1.
- ⇒ Close the [Programme end] message after the end of the program.
- ⇒ Open the press, pull out the tool sliding tray and remove the steel ring with the sample.

6.4.3 Reusing the steel ring

- ⇒ Insert the steel ring into the tool included in the scope of supply.
- ⇒ Put the die onto the sample in order to then carefully knock the sample out with the aid of a hammer.
- ⇒ Clean the steel ring and remove any residual clinging feed material so that it can be used again.



Fig. 26: Remove sample out of the steel ring.

6.5 Programme Mode

- ① The pellet press can store 10 programs. They are called up with stored program numbers 0-9. The 0 program is always loaded when the press is turned on.

6.5.1 Changing programs

- ⇒ Touch the display at any point.
- ⇒ Touch [Menu].

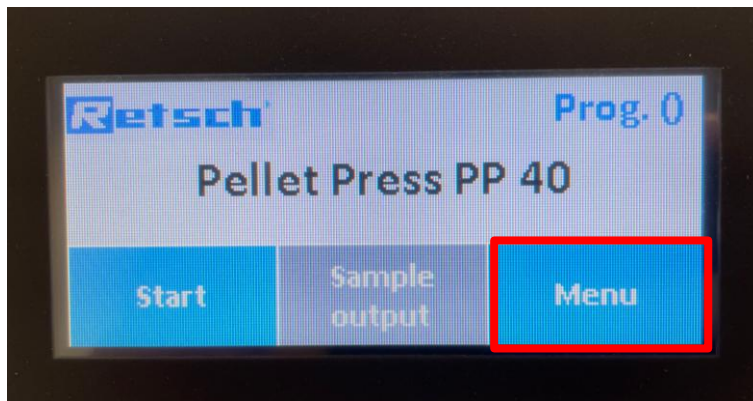


Fig. 27: Touch menu

- ⇒ Touch [Change program].

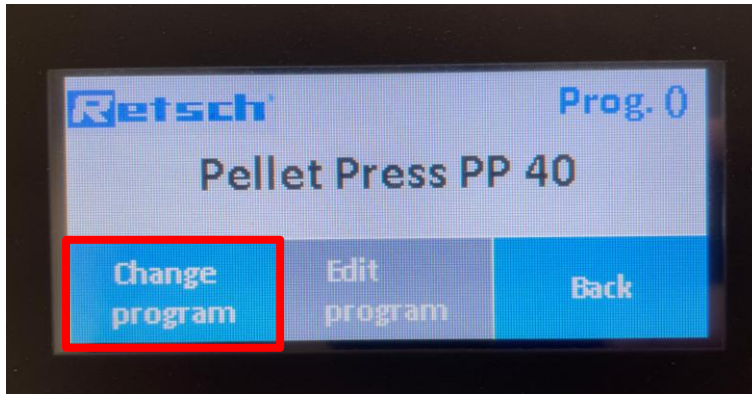


Fig. 28: Change program

- ① It is only possible to view and switch between programs here. It is not possible to alter parameters here (see “Edit programs”). To view the different programs, select the program display on the top right.

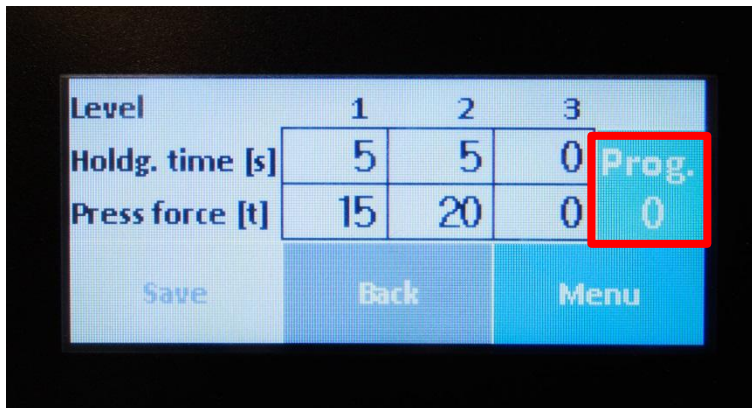


Fig. 29: Show programs

- ⇒ Select the desired program and confirm with [ENT].
- ⇒ Touch [Menu] to return to the main screen.

6.5.2 Edit program

- ① Here is where all previously stored parameters, such as pressure force and holding time, can be altered. It is also possible to enter new parameters.
- ⇒ Proceed as in the previous chapter.
- ⇒ Instead of [Change program], touch [Edit program] now.

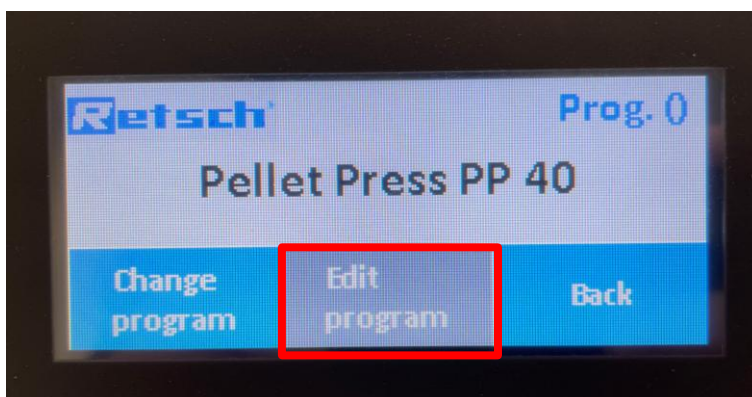


Fig. 30: Edit program

- ⇒ Enter password 1234 and confirm with [ENT].

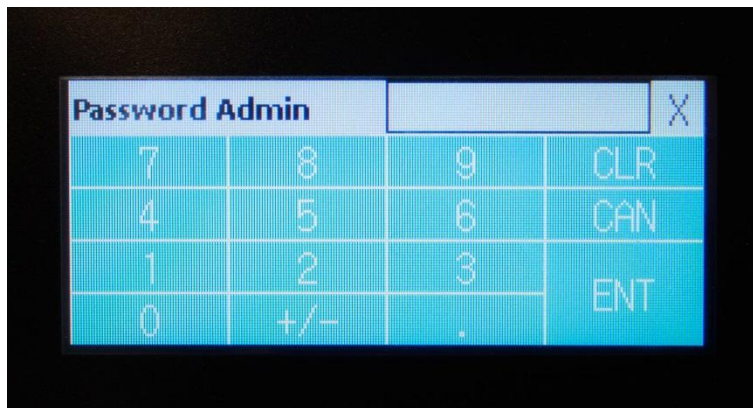


Fig. 31: Enter password

- ① The maximum pressure force is 40 tonnes. The parameters can be reduced!
- ⇒ Enter the desired holding times and pressure force for 1 / 2 / 3-step pressing.
- ⇒ Confirm each selection with [ENT].

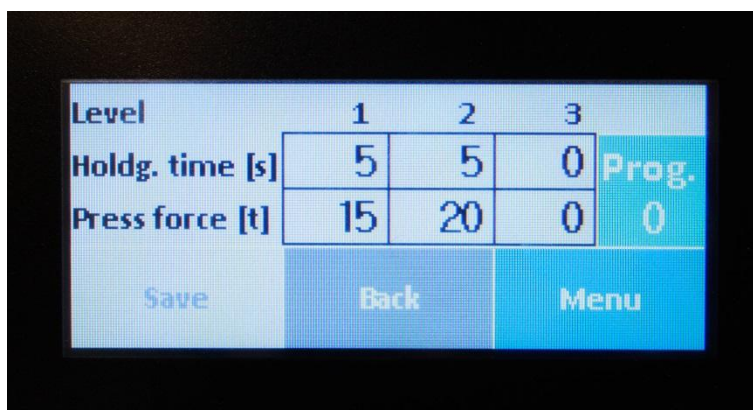


Fig. 32: Enter holding times and pressure force

- ⇒ Press [Save].

6.5.3 Altering settings

- ⇒ Touch the [Retsch logo] on the display.

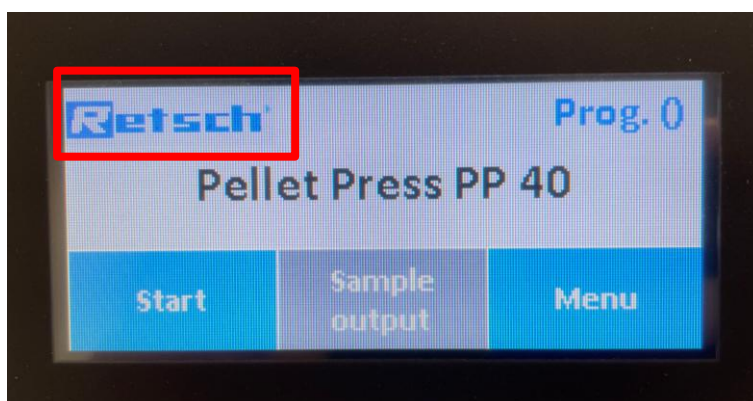


Fig. 33: Retsch logo on display

⇒ Enter password 9876 and the settings menu will appear.

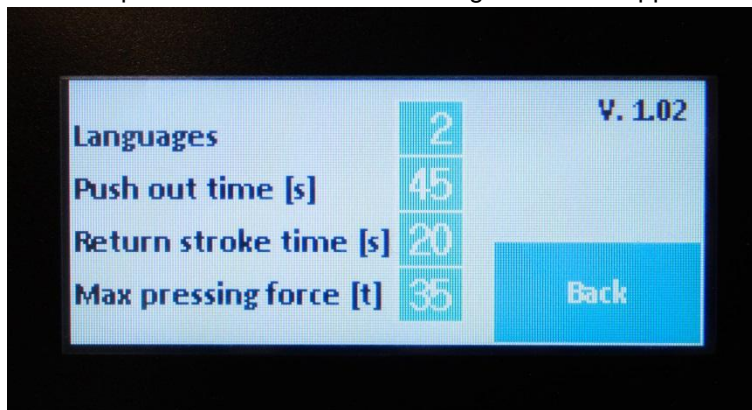


Fig. 34: Settings menu

⇒ Select now from:

- Languages: 1 = German, 2 = English, 3 = French
- Push-out time: time in seconds to press a pellet out of the pressing tool (0 to 45 s) with the aid of [Sample output].
- Return stroke time: the time the cylinder needs to return to the initial position (20 to 50 s) after the pressing procedure.
- Max. pressing force: depending on the pressing tool, a pressure force limit can be entered here (max. = 40 t).

7 Error Messages and Information Notes

7.1 Error Messages

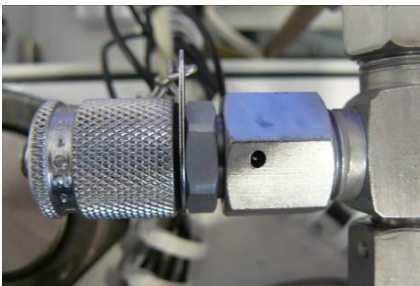
Error messages inform the user about detected device or programme errors. In the event of an error message, a fault has occurred, in which the operation of the device or the programme is automatically interrupted. Such faults must be resolved before next startup.

The pellet press does not build up any pressure:

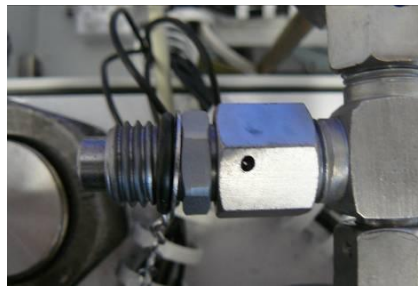


Fig. 35: Error message

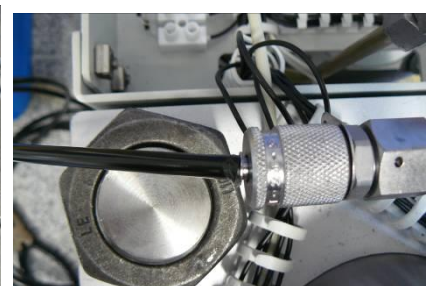
- ① If no pressure builds up, the cylinder must be vented.
- ⇒ Pull out the mains plug.
- ⇒ Unscrew the rear plate.
- ⇒ Loosen the screws on the hood and pull it forwards and off.
- ⇒ There is a venting connection at the point where the cylinder is connected and the venting tube can be connected here.
- ⇒ Run the other end of the hose into a container.
- ⇒ Connect the mains cable and use the mains switch to turn on the press.
- ① The emergency stop switch must be pulled.
- ⇒ Press [Sample output].
- ⇒ Use the mains switch to turn off the press as soon as oil runs into the container.
- ⇒ Twist off the venting tube and screw on the dummy plug.
- ⇒ Pull out the mains plug.
- ⇒ Pull the hood over the press and screw it securely.
- ⇒ Screw on the rear panel.
- ⇒ Connect the mains cable again and put the press into operation again.
- ① If the press still does not build up any pressure, please check the oil level.
If this is alright, please call us.



dummy plug



dummy plug screwed off



venting hose

7.2 Information Notes

Notices inform the user on specific device or programme processes. The operation of the device or programme may be interrupted briefly, but there is no fault. The information notice must be acknowledged by the user to continue the process. Information notices provide additional information for the user as an aid, but do not represent any device or programme errors.

8 Return for Service and Maintenance



Fig. 36: Return form

The acceptance of devices and accessories of the Retsch GmbH for repair, maintenance or calibration can only be effected, if the return form including the decontamination declaration service has been correctly and fully completed.

- ⇒ Download the return form located in the download section "Miscellaneous" on the Retsch GmbH homepage (<http://www.retsch.com/downloads/miscellaneous/>).
- ⇒ When returning a device, attach the return form to the outside of the packaging.

In order to eliminate any health risk to the service technicians, Retsch GmbH reserves the right to refuse the acceptance and to return the respective delivery at the expense of the sender.

9 Cleaning, Wear and Maintenance

⚠ CAUTION

C6.0013

Risk of injury

Improper repairs

- Unauthorised and improper repairs can cause injuries.
- **Repairs to the device may only be carried out by Retsch GmbH , an authorised representative or by qualified service technicians.**
- **Do not carry out any unauthorised or improper repairs to the device!**

9.1 Cleaning

⚠ WARNING

W5.0003

Risk to life caused by an electric shock

Cleaning live parts with water

- Cleaning the device with water can lead to life-threatening injuries caused by an electric shock if the device has not been disconnected from the power supply.
- **Only carry out cleaning work on the device when it has been disconnected from the power supply.**
- **Use a cloth moistened with water for cleaning.**
- **Do not clean the device under running water!**



NOTICE

N12.0009

Damage to the housing and device

Use of organic solvents

- Organic solvents may damage plastic parts and the coating.
- **The use of organic solvents is not permitted.**

9.1.1 Cleaning the housing

- ⇒ Clean the housing on the device with a moistened cloth and, if necessary, a standard household cleaning agent. Make sure no water or cleaning agent gets inside the device.

9.1.2 Cleaning the pressure chamber

- ⇒ Pull the tool sliding tray out as far as it will go.

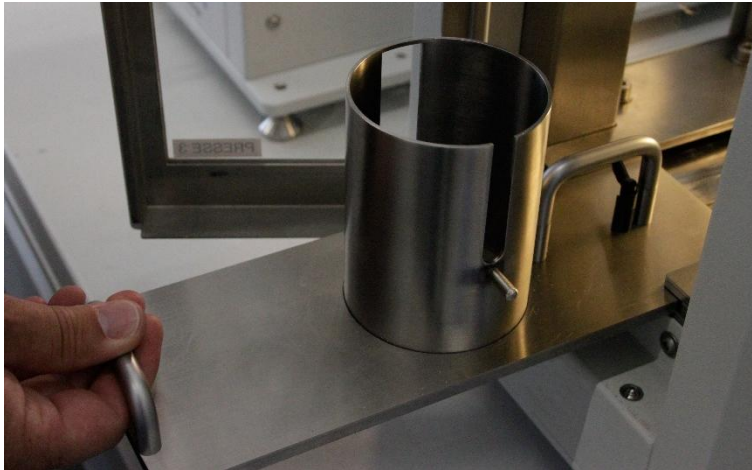


Fig. 37: Pull the tool sliding tray out

⇒ Pull up the latch at the back of the tool sliding tray.

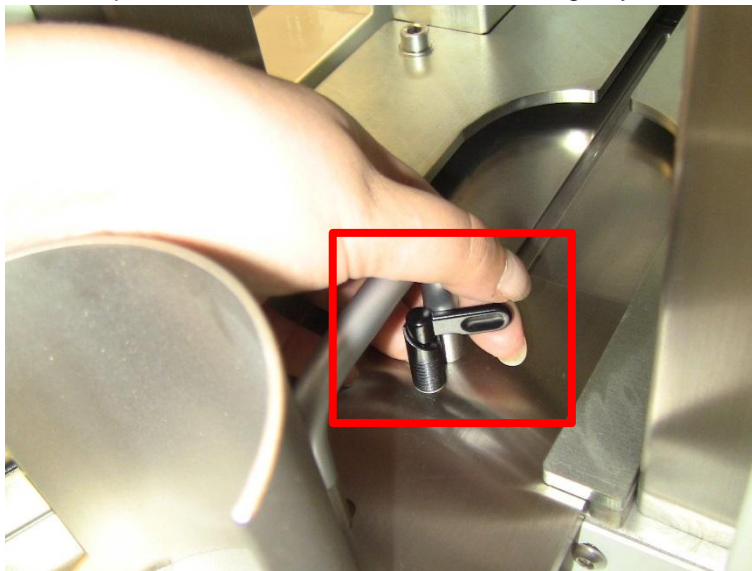


Fig. 38: Pull up the latch

⇒ Holding the grips, take the tool sliding tray out of the press.



Fig. 39: Remove the tool sliding tray.

⇒ Using a hexagon socket screw key 6, loosen and remove the four screws in the pressing chamber.



Fig. 40: Loosen / remove the screws in the pressing chamber.

⇒ Take the individual parts out of the pressing chamber and clean it with a brush.

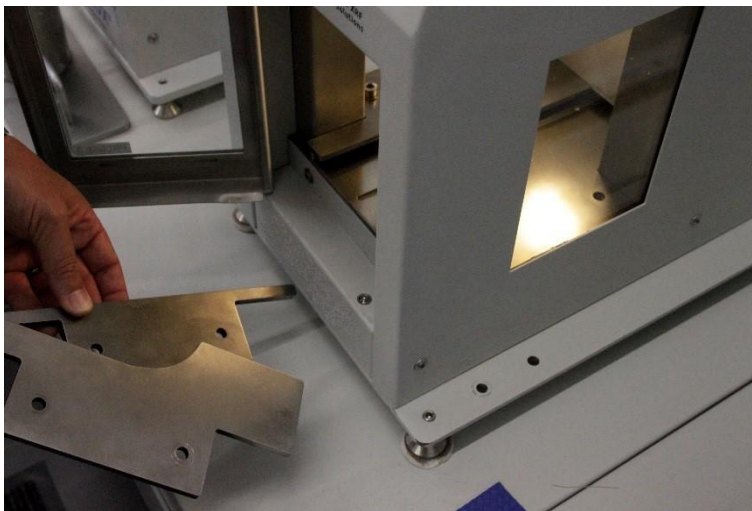


Fig. 41: Remove the individual parts.



Fig. 42: Clean the pressing chamber.

9.2 Wear

Depending on the frequency of pressing operations, tool sliding trays and pressing tools can become worn.

The tool sliding trays and the pressing tools should be checked regularly for wear and replaced when necessary.

9.3 Maintenance

To assure the operational reliability of your pellet press, conduct visual checks regularly. In particular, parts that are subject to wear and tear, such as pressing tools and tool sliding trays, should be checked for proper functioning and the absence of damage. Contact our service department when necessary.

10 Accessories

Information on available accessories as well as the respective manuals are accessible directly on the Retsch GmbH homepage (<https://www.retsch.com>) under the heading "Downloads" of the device.

Information on wear parts and small accessories can be found in the Retsch GmbH general catalogue also available on the homepage.

In case of any questions concerning spare parts please contact the Retsch GmbH representative in your country, or Retsch GmbH directly.

11 Disposal

In the case of a disposal, the respective statutory requirements must be observed. In the following, information on the disposal of electrical and electronic devices in the European Community are given.

Within the European Community the disposal of electrically operated devices is regulated by national provisions that are based on the EU Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE).

Accordingly, all devices supplied after August 13th 2005 in the business-to-business area, to which this product is classified, may no longer be disposed of with municipal or household waste. To document this, the devices are provided with the disposal label.

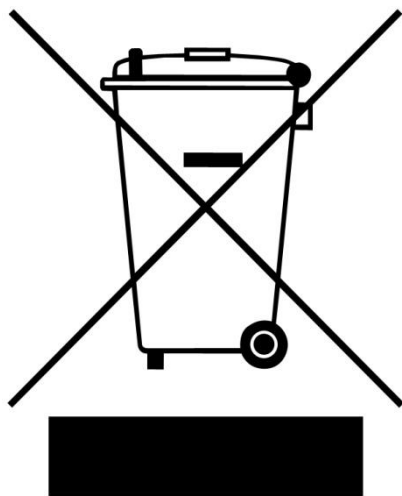


Fig. 43: Disposal label

Since the disposal regulations worldwide and also within the EU may differ from country to country, the supplier of the device should be consulted directly in case of need.

This labelling obligation is applied in Germany since March 23rd 2006. From this date on, the manufacturer must provide an adequate possibility of returning all devices delivered since August 13th 2005. For all devices delivered before August 13th 2005 the end user is responsible for the proper disposal.

12 Index

A

Accessories	40
Altering settings	31
Ambient temperature	14
Amendment status.....	6
Amperage	15

B

Bar code	16
----------------	----

C

Calibration.....	35
Capacity	15
CE marking	16
Changing programs	29
Cleaning.....	36
Complaints.....	13
Condensation.....	13
Confirmation form for the managing operator.....	10
Copyright	6

D

Degree of protection	11
Delivery screw cap.....	18
Device designation	15
Dimensions	11
Disclaimer	6
Disconnection from the mains	18
Disposal	41
label.....	41
regulations.....	41
Disposal label	16
Drive power.....	12

E

Edit program	30
Electrical connection.....	14, 15
Emergency unlocking	20
Emissions	11
Error messages	33
Explanations of the safety instructions	7
External fuse	15

F

Feed grain size	12
Fehlermeldung.....	33
First commissioning	18
Frequency	15
Fuse strength.....	15
Fuse type	15

G

General catalogue	40
General safety instructions	8

H

Humidity	14
----------------	----

I

Information notes	33, 34
Installation	13
Installation height	14
Installation site conditions	14

L

Languages	32
Long-term operation.....	20

M

Mains connection	11
Mains frequency.....	15
Mains supply	15
Maintenance	10, 35, 36, 39
Manual	6, 8, 10
Manufacturer's address	16
Max. pressing force.....	32
Maximum relative humidity	14

N

Notes on the manual.....	6
--------------------------	---

O

Operating instructions	10
Operating the device.....	20
Organic solvents	36

P

Packaging	13
Part number	15
Pellet press does not build up any pressure.....	33
Power version	15
Press-screw cap	18
Pressure force.....	12, 21
Pressure Force	12
Production of a Pellet.....	21
Programme mode	29
Protective equipment	11
Push-out time.....	32

R

Range of application of the device.....	20
Rated power.....	11
Receptacle volume	12
Repair	9, 35, 36
Repair instructions	9
Required floor space.....	11
Return	13
for service and maintenance	35
Return device.....	41
Return form	35
Return stroke time.....	32

S

Safety	7
Safety Officer	7

Scope of supply	18	description	15
Serial number	16	U	
Service address	9	UKCA marking	16
Signs	6	Use of the device for the intended purpose	20
Small accessories	40	V	
Spare parts	40	Voltage	15
Switching on / off	20	W	
Symbols	6	Warning.....	7
T		Information	8
Target group	7	Warranty claim	13
Technical data	11	Warranty claims	9
Temperature fluctuations	13	Wear.....	36, 39
Temperature range	14	Wear parts	40
Temporary storage	13	Weight	11, 16
Transport	13	Y	
Transport damage	13	Year of production.....	15
Transportation aid			
removing	16		
Type plate	15		

PELLET PRESS

PP 40 | 20.757.xxxx

EU DECLARATION OF CONFORMITY

We, represented by the undersigned, hereby declare that the above device complies with the following directives and harmonised standards:

Machinery Directive 2006/42/EC

Applied standards, in particular:

DIN EN ISO 12100 Machine Safety - General Design Principles

Electromagnetic compatibility 2014/30/EU

Restriction of hazardous substances (RoHS) 2011/65/EU

Authorised person for compilation of the technical documentation:

Julia Kürten (Technical Documentation)

Furthermore, we declare that the relevant technical documentation for the above device has been prepared in accordance with Annex VII Part A of the Machinery Directive and we undertake to submit the documentation to the market surveillance authorities on request.

In the event of a modification of the device not agreed on by Retsch GmbH, as well as the use of non-approved spare parts or accessories, this declaration loses its validity.

Retsch GmbH

Haan, 11/2023



Dr. Frank Janetta, Head of Development





Retsch[®]

Copyright

© Copyright by
Retsch GmbH
Retsch-Allee 1-5
42781 Haan
Germany