

Operating Manual Industrial Pre-Rotating Grinder

IR250-D

Translation of the German Original



Contents

1	Operating manual IR250-D	5
1.1	Introduction to the IR250-D	5
1.1.1	Operating manual	5
1.1.2	Scope of application.....	5
1.1.3	Target group and mandatory reading	5
1.1.4	Pictures and drawings.....	5
1.1.5	Warnings and instructions for use	6
1.1.6	Abbreviations and symbols	6
1.2	Manufacturer address.....	6
1.3	Device identification	7
2	Safety.....	8
2.1	Intended use	8
2.2	General safety guidelines	8
2.3	User requirements	8
3	Structure.....	9
3.1	Structure of the IR250-D.....	9
3.2	Equipment.....	10
3.3	Accessories	10
3.4	Options.....	11
3.4.1	Antistatic system	11
3.4.2	Cooling	12
3.5	Materials	12
3.6	Control elements for activation and deactivation.....	13
4	Commissioning the IR250-D	14
4.1	Unpacking and installation.....	14
4.2	Condition as delivered	14
4.3	Reporting Damage.....	14
4.4	Weight of the IR250-D.....	15
4.5	Transport of the IR250-D.....	15
4.6	Assembly and installation	16
4.7	Electrical / electronic configuration	17
4.8	Start-up	18
4.9	Storage	19
5	Operation.....	20
5.1	Preparation for grating	20
5.2	Installing the grating drum	22
5.3	Installing the grating blades.....	23
5.4	Swing the funnel back in place	24
5.5	Grating	25
5.6	Feeding the device	25
6	Touchscreen operation	26
6.1	Main menu	26
7	System maintenance	31
7.1	Cleaning.....	31
8	Troubleshooting	32
8.1	Elimination of malfunctions.....	32
8.1.1	The grating goods are not grated well	32
8.1.2	The grating goods do not exit the machine.....	32
8.1.3	The grating drum stands still and the machine is too loud	32
8.1.4	The machine cannot be switched on	32

8.1.5	The machine switches off on its own.....	32
8.1.6	Grating drum or grating blades weigh on the axle	32
8.1.7	The grating performance is deteriorating (the expected volume cannot be achieved)	32
8.2	Service opening	33
8.3	Addresses for service and information	33
9	Technical Specifications	34
9.1	Dimensional drawing	34
9.2	CE Conformity Declaration	35
9.3	Supplement directive 1935/2004	36
9.4	Supplement directive 10/2011 art. 15.....	37
9.5	Supplement directive WEEE 2012/19/EU	38
10	Warranty	39
Fig. 1:	Nameplate	7
Fig. 2:	System designation IR250-D.	9
Fig. 3:	Accessories	10
Fig. 4:	Antistatic system at the outlet	11
Fig. 5:	Antistatic function ON/OFF button	11
Fig. 6:	Cooling device	12
Fig. 7:	Cooling connections	12
Fig. 8:	Master switch	13
Fig. 9:	Control.....	13
Fig. 10:	Locking brake	15
Fig. 11:	Locking brake Figure 12: Stop catch	16
Fig. 13:	Push down the locking brake Figure 14: Brake locked	16
Fig. 15:	CEE plug with phase reverser 1	17
Fig. 16:	Open the lock	20
Fig. 17:	Open the lock on the funnel	20
Fig. 18:	Lift the funnel by turning the lever clockwise.....	20
Fig. 19:	Swing out the funnel	21
Fig. 20:	Open grating area.....	21
Fig. 21:	Insert the grating drum.....	22
Fig. 22:	Fasten the grating drum.....	22
Fig. 23:	Insert the grating blades	23
Fig. 24:	Fasten the grating blades	23
Fig. 25:	Swing the funnel over the grating compartment.....	24
Fig. 26:	Lock the funnel	24
Fig. 27:	Main menu.....	26
Fig. 28:	"Program" submenu.....	26
Fig. 29:	Program for walnuts.....	27
Fig. 30:	Program for hazelnuts	27
Fig. 31:	Program for almonds	28
Fig. 32:	Program for cheese	28
Fig. 33:	Recommendation for optimal adjustment.....	29
Fig. 34:	On/off	29
Fig. 35:	Info screen.....	30
Fig. 36:	Remove the funnel	31
Fig. 37:	Service openings	33
Fig. 38:	Dimensional drawing	34
Fig. 39:	CE Conformity Declaration	35

Generated:	Reviewed:	Revised:	Status:	Page 3 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

Fig. 40: Directive 1935/2004.....	36
Fig. 41: Directive 10/2011.....	37
Fig. 42: Directive WEEE	38

Generated:	Reviewed:	Revised:	Status:	Page 4 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

1 Operating manual IR250-D

1.1 Introduction to the IR250-D

This section informs on the scope of application and structure of the operating manual.

1.1.1 Operating manual

This operating manual enables the correct use and safe application of the Pre-Rotating Grinder IR250-D made by Brunner-Anliker AG.

Important: The operating manual must be readily accessible for all users of IR250-D and therefore kept close to the machine.

1.1.2 Scope of application

This operating manual applies exclusively to the IR250-D pre-rotating grinder.

Date of issue of this operating manual: 11.2022

The manual provides instructions on the preparation, operation and maintenance of the fully functional IR250-D and information on how to eliminate malfunctions. It is not meant, however, for the execution of repairs of cutter defects. If repairs become necessary, please contact your supplier or the manufacturer.

1.1.3 Target group and mandatory reading

The operating manual addresses all users of the IR250-D.

Mandatory reading

All users are to read section 2 "Safety", page 7, before they start working with the IR250-D.

1.1.4 Pictures and drawings

All pictures and drawings used in this operating manual are for illustrative purposes only and might differ from the configuration of your IR250-D.

Generated:	Reviewed:	Revised:	Status:	Page 5 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

1.1.5 Warnings and instructions for use

Please observe the following warning symbols and instructions for use.

HAZARD



HAZARD

Indicates that **death or serious physical injury will occur** if the respective precautions are **not** taken.

WARNING



WARNING

Indicates that **death or serious physical injury may occur** if the respective precautions are **not** taken.

CAUTION



CAUTION

Indicates that **minor bodily injury or damage to property may occur** if the respective precautions are **not** taken.

NOTE

NOTE

User information for technically correct and efficient use of the product or for better understanding of the product characteristics.

1.1.6 Abbreviations and symbols

We use abbreviations and easy to recognize symbols at the page margins only for measuring units and the above mentioned warning and usage symbols. (Examples: see “Warnings and instructions for use”, page 6).

In this manual, the IR250-D pre-rotating grinder will also be referred to as the “device”.

1.2 Manufacturer address

Brunner-Anliker AG
Flughofstrasse 55
8152 Opfikon-Glattbrugg
Switzerland

Phone:

+41 44 804 21 00

Mail:

mail@brunner-anliker.com

Generated:	Reviewed:	Revised:	Status:	Page 6 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

1.3 Device identification

Please indicate the device ID stamped on the nameplate attached to the side of the IR250-D for all inquiries and spare part orders. This will help us to answer your questions fast and correctly.

Information on the IR250-D nameplate for device identification (example):

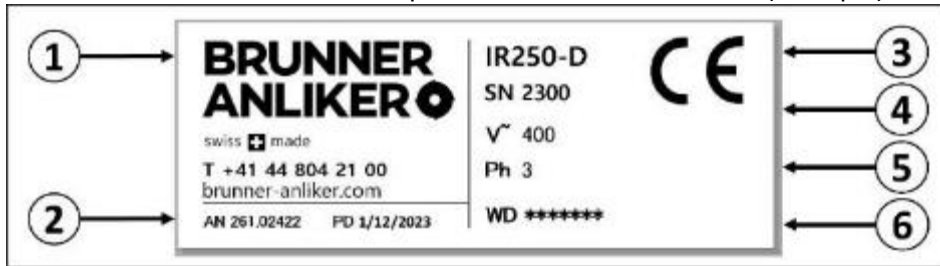


Fig. 1: Nameplate

Item	Item
1 Producer / contact data	5 Motor performance characteristics
2 Item number / production date	6 Wiring diagram
3 Device name and certifications	7
4 Serial number	

Table 1: Nameplate

2 Safety

This section provides information on the general safety guidelines that need to be observed when handling and working with the IR250-D pre-rotating grinder.

2.1 Intended use

The intended use of the IR250-D is the grating of various cheeses, nuts, chocolate and reworking in processing plants. The various cutting discs enable different grinding results. Only original grinding discs and the spare parts recommended by the manufacturer may be used.

The intended use includes the compliance with the manufacturer instructions and conditions for installation, startup, maintenance and operation of the IR250-D.

Any use that does not comply with the intended one and in particular the use of third-party or defective cutting discs is, without prior written consent given by the manufacturer, considered as contrary to its intended use. The manufacturer cannot be held liable for damages resulting from improper use of the IR250-D.

2.2 General safety guidelines

The following safety guidelines apply to the handling of the IR250-D:

- Every user is responsible for his own safety and health. The user is not allowed to carry out jobs whose risk he cannot assess. Such jobs need to be executed by persons qualified accordingly.
- All those working with the device must have been instructed on its use, read and understood the manufacturer's operating manual. See also "User requirements", page 8.
- The instructions provided in this operating manual must be adhered to.
- The user is obligated to operate the device in its fully functional state only and eliminate changes or defects, especially when related to safety issues, immediately.
- It is expressly prohibited to remove or alter safety devices and protective covers.

2.3 User requirements

All those handling the device must have been instructed on its use beforehand. Any specific special training is, however, not necessary.

CAUTION



CAUTION

Risk of injury if handled inexpertly! All those working with the device need to have read and understood the operating manual or be instructed by experienced users prior to its utilization.

Generated:	Reviewed:	Revised:	Status:	Page 8 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

3 Structure

This section informs on the structure and accessories of the device.

3.1 Structure of the IR250-D

The device is mounted on caster wheels and can therefore be moved.

For dimensional details, please refer to the dimensional drawing (Fig. 31).

System designation

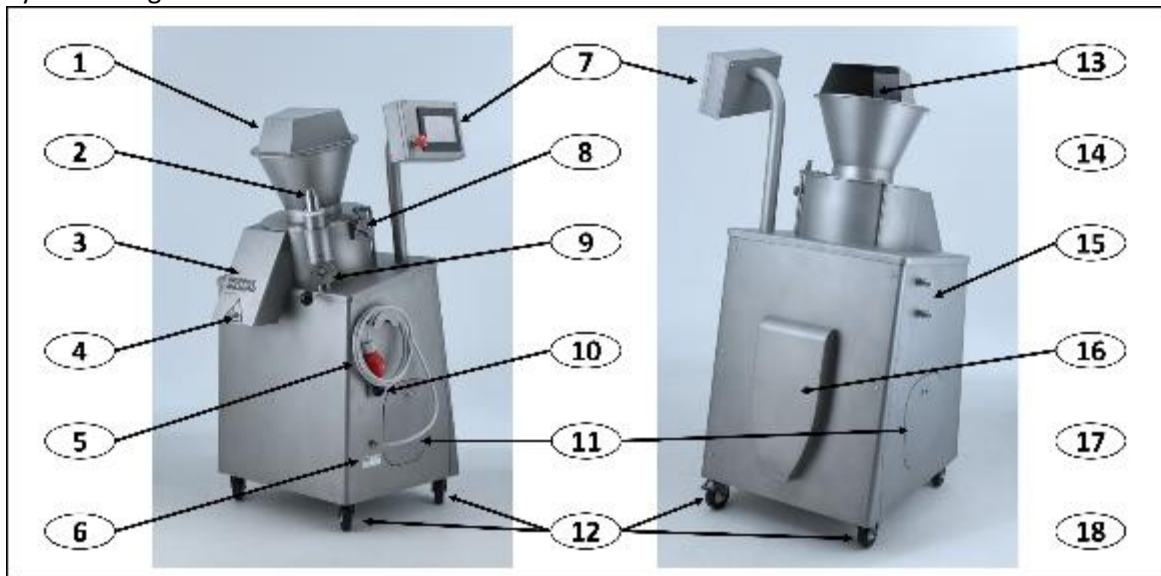


Fig. 2: System designation IR250-D.

Item	Item
1 Filler funnel	9 Lever for opening the hopper
2 Slide rail	10 Master switch
3 Outlet	11 Service opening
4 Outlet with antistatic system (option)	12 4 caster wheels with locking brake
5 Cable with CEE plug on cable bracket	13 Filler spout
6 Nameplate	14
7 Operating panel with touchscreen	15 Connection for cooling
8 Lock	16

Table 2: System designation

3.2 Equipment

The configuration of the industrial pre-rotating grinder IR 250-D depends on the customer purchase order.

The standard device consists of the following components:.

- IR250-D basic unit
- Set of accessories
- Grating drum
- Grating blades

3.3 Accessories

The device can be customized with the following accessories:

They can be ordered and retrofit at any time.



Fig. 3: Accessories

Table 3: Accessories for the industrial pre-rotating grinder IR 250-D.

Item	Item
1 Double grating drum	4 Standard grater blade
2 Grating drum	5 Aggressive grater blade
3 Puree drum	6 Tool set

3.4 Options

3.4.1 Antistatic system

The IR 250-D can be equipped with an antistatic system.
The system prevents static charging of grated foods.



Fig. 4: Antistatic system at the outlet



Antistatic function On / Off

Fig. 5: Antistatic function ON/OFF button

HAZARD



Potential danger to wearers of pacemaker.
When approaching or touching the device, in particular the electrode, a malfunction of the pacemaker cannot be ruled out!

WARNING



Ozone may be develop during electrode operation. The ozone concentration produced near the electrodes depends on a variety of conditions such as electrode current and voltage, air circulation, etc. and cannot be specified as a fixed value.

The AGW value is used to assess the concentration of ozone at the workplace. The user is obligated to ensure that the maximum permissible AGW value stays below the value prescribed in the respective country.

Generated:	Reviewed:	Revised:	Status:	Page 11 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

3.4.2 Cooling

The device can be equipped with an optional cooling device.
The area under the grating drum is cooled.



Fig. 6: Cooling device



Fig. 7: Cooling connections

3.5 Materials

All equipment parts of the device that come into contact with food and are subsequently retrofitted or replaced must comply with the requirements of EC directive no 1935/2004.

Generated:	Reviewed:	Revised:	Status:	Page 12 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

3.6 Control elements for activation and deactivation

The device has a master switch attached to the right side of the housing.
The device (operating panel with touchscreen) is switched on and off with this master switch.



Fig. 8: Master switch

The device is operated via the touchscreen on the control panel.
Different modes are available depending on the food to be processed.
See item 6, Operation via touchscreen

For emergencies, an emergency stop button is located on the control panel.



Touchscreen

*On/off button for the optional
antistatic function

Emergency stop button
For emergency use only

Fig. 9: Control

NOTE

The emergency stop button must only be used in an emergency

- The machine itself is operated exclusively via the touchscreen.

Generated:	Reviewed:	Revised:	Status:	Page 13 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

4 Commissioning the IR250-D

4.1 Unpacking and installation

The device is consigned in a transport box.

Move the device out of the transport box on a makeshift ramp of sheet metal or wooden boards.

CAUTION



Tipping hazard

The device weighs around 260 kg and may fall over when moved out of the box.

It should always be held by two people when it is moved out on the loading ramp.

Watch the center of gravity.

Or transport the device by means of a forklift truck. To prevent damage, wooden slats suitable for transport must be underlaid. Make sure not to trap any cables.

The device should not be lifted by hand. If manual lifting cannot be avoided, the device must be raised and carried by two people.

The machine has four caster wheels with brakes. Engage the caster wheel brakes at its place of use before carrying out any jobs on or with the device and release them only if the vegetable cutter needs to be moved.

Place the device on a plane and stable surface. Make sure to leave enough space on all sides for safe operation.

4.2 Condition as delivered

The IR250_D was cleaned at the manufacturer before dispatch.

We recommend, however, to clean the device prior to its first use with a food grade cleaning product.

4.3 Reporting Damage

Notify the forwarder, insurance agent, supplier / service center immediately if the IR250-D is consigned damaged due to insufficient packaging or inadequate transport. See page 6 or 33 for the contact address-

Generated:	Reviewed:	Revised:	Status:	Page 14 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

4.4 Weight of the IR250-D.

The device weighs 260 kg

NOTE

Note

- Check the consignment for completeness. Compare the contents with the delivery note. If components are missing, please contact your supplier.
- Notify our after-sales service, the forwarder and the insurance agent immediately if the device is consigned damaged due to insufficient packaging or inadequate transport.

CAUTION



CAUTION!

- Lifting and carrying heavy loads can damage the musculoskeletal system.

4.5 Transport of the IR250-D

The device stands on caster wheels and can be easily transported from one place to another. Remember to open the caster wheel brakes prior to moving the device. At its new place of use, lock the brakes by pushing down the brake catches.

Make sure to disconnect the device from the mains before transport.

Release the caster wheel brakes only if the device needs to be moved!

To release, push down the catches on each of the four parking brakes (Figure 10).



Fig. 10: Locking brake

At the place of use of the device, the four caster wheels must be locked with their brakes. To lock the wheels, push down the STOP catch with your foot.

Generated:	Reviewed:	Revised:	Status:	Page 15 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA



Fig. 11: Locking brake



Figure 12: Stop catch

Make sure all four caster wheel brakes are locked!



Fig. 13: Push down the locking brake



Figure 14: Brake locked

4.6 Assembly and installation

Ensure ergonomic work conditions: Always place the device on a plane and solid surface with a minimum space of 800 mm x 1100 mm.

Leave enough space around the device for obstacle-free removal of the funnel and insertion of the grating drums, for the infeed of food products and for placement of the collection container for the grated products

Connect the machine as close as possible to the power outlet. Avoid tripping hazards! Do not route the cables where people walk frequently!

If you are uncertain about the installation site and/or have questions regarding installation itself, please contact Brunner-Anliker AG (the contact address is provided on page 6 or 33).

Generated:	Reviewed:	Revised:	Status:	Page 16 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

4.7 Electrical / electronic configuration

The connection cable of the IR250-D (400Volt) is two meters long.

To avoid tripping hazards, do not route the cable across passageways.

Check the direction of rotation after the device was moved to another location; adapt the plug if necessary. To change the direction of rotation, simply turn the phase reverser 1 as shown in Figure 6!



Fig. 15: CEE plug with phase reverser 1

This job must be carried out by an authorized electrician.

HAZARD



HAZARD!

- Defective electrical components may be live and pose a life-threatening hazard.
- Do not drive over, crush or pull on the cable(s).
- Disconnect the device from the mains before working on the electrical equipment.
- Eliminate defects on electric components / modules immediately. In the event of and to avoid acute danger, the device must not be operated in defective or inadequate condition.

CAUTION



CAUTION!

- Please observe the electrical data on the nameplate (see also page 7) before connecting the device to the mains supply.

NOTE

Note

- Brunner-Anliker AG does not accept any liability for events and damages originating from the electrical installation
- Protection against unexpected start-up: observe the national regulations!

Generated:	Reviewed:	Revised:	Status:	Page 17 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

4.8 Start-up

Please observe the following guidelines for first startup and test run.

- Ensure that there are no foreign bodies in the vegetable cutter's filler spouts!
- Check the direction of rotation and adapt the plug if necessary. This job must be carried out by an authorized electrician.
-

HAZARD



HAZARD!

- Do not change or modify or add any equipment which might impair the safety or function of the device. Otherwise the device no longer complies with the CE standards.
- Check the device safety functions at regular intervals. Malfunctions may massively impair the functions and result in severe injury to persons and/or damage to the device!

CAUTION



CAUTION!

- Always adhere to the local accident prevention regulations!

NOTE

Note

- The user must have read and understood the operating manual and in particular the section on safety regulations before working with the machine..

Generated:	Reviewed:	Revised:	Status:	Page 18 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

4.9 Storage

If the IR 250-D is not used for a longer period of time, observe the following conditions to keep it fully functional:

- Keep the storage place dry and clean.
- Do not expose the device to extreme cold or heat.
- Keep the device clean.
- Pack and cover the device against the ingress of dirt and dust.

NOTE

Note

- Brunner-Anliker AG cannot be held liable for damages caused by corrosion due to improper storage, e.g. in moist rooms or similar.

Please contact our after-sales service before returning the machine into service after a prolonged period of standstill.

All mechanical parts need to be inspected. In particular:

- check all components for corrosion (and deterioration) damage.
- check all grating drums for damage and cutting quality.

Generated:	Reviewed:	Revised:	Status:	Page 19 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

5 Operation

5.1 Preparation for grating

In dependence of the required grating result, insert the appropriate grating drum or check which grating drum has been inserted.

For this purpose, open the lock, take hold of the funnel lever and raise the funnel. The funnel can now be swung out



First open the lock

Fig. 16: Open the lock



At the same time, turn the funnel lever to the right (clockwise all the way) and raise the funnel.

Fig. 17: Open the lock on the funnel



Fig. 18: Lift the funnel by turning the lever clockwise

Generated:	Reviewed:	Revised:	Status:	Page 20 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA



Now the funnel can be swung out.

Fig. 19: Swing out the funnel



The funnel is now completely swung to the side and the grating drum and blades can be inserted or removed.

Fig. 20: Open grating area

Generated:	Reviewed:	Revised:	Status:	Page 21 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

5.2 Installing the grating drum

Hold the upper ring with both hands and insert it slowly into the device.



Fig. 21: Insert the grating drum

WARNING



- The grating tips of the grating drum are extremely sharp and now lie open
- Risk of cuts and skin abrasions!

To secure the grating drum, tighten the two socket head screws well with the appropriate wrench.



Fig. 22: Fasten the grating drum

If the screws cannot be placed, the grating drum is installed in the wrong way. Rotate the grating drum by 90°, insert the screws and tighten them.

WARNING



- It is essential to fit and tighten the bolts as otherwise the grating drum is not securely fastened.
- If the screws are not placed and tightened, the machine may be damaged during operation.

5.3 Installing the grating blades

Insert the grating / granulating blades and fasten with the central socket head screw.



Fig. 23: Insert the grating blades



Fig. 24: Fasten the grating blades

NOTE

- Ensure that no loose parts remain in the grating drum / housing.

Generated:	Reviewed:	Revised:	Status:	Page 23 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

5.4 Swing the funnel back in place

The funnel can now be swung back in place and locked.



Fig. 25: Swing the funnel over the grating compartment



Fig. 26: Lock the funnel

HAZARD



- Use both hands to swing the funnel all the way home. Risk of crushing hands and fingers if the hopper swings back out.

NOTE

- Hold the grating drum with both hands on the upper ring.
- Hold the grating blades at the hub!

NOTE

- Ensure that no loose parts remain in the grating drum / housing.

WARNING



- The grating tips of the grating drum are extremely sharp and now lie open
- Risk of cuts and skin abrasions!

Generated:	Reviewed:	Revised:	Status:	Page 24 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

5.5 Grating

Once prepared, the device can be started on the touchscreen. Gradually fill your product into the filler spout.

WARNING



- Do not reach into the outlet spout from below!

5.6 Feeding the device

Once prepared and started, feed in your product continuously.
Maximum product size.

Cheese 100 mm x 100 mm x 50 mm

Generated:	Reviewed:	Revised:	Status:	Page 25 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

6 Touchscreen operation

6.1 Main menu

The main menu (Home screen) provides the following options.

- Programs
- Service
- Info
- The Menu button takes you back to the main menu.

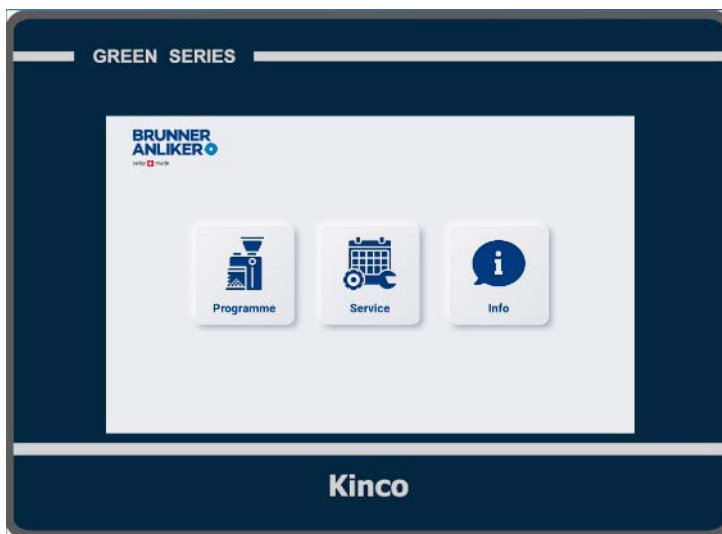


Fig. 27: Main menu

When you tap the desired icon, the corresponding submenu opens. Figure 28 shows the submenu of the "Program" option



Fig. 28: "Program" submenu

Before you select any of the submenus shown (e.g. cheese), press the reset button.

Generated:	Reviewed:	Revised:	Status:	Page 26 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

If

- 1) the device has been locked correctly
 - 2) and the emergency stop button is not pushed
- the reset button fades out

If the reset button remains visible, the safety systems are active, e.g.

- 1) the lid was not locked correctly
- 2) the emergency stop button is active (pushed)
- 3) this is an electronic fault (contact service)

Figure 29 shows the program for grating walnuts

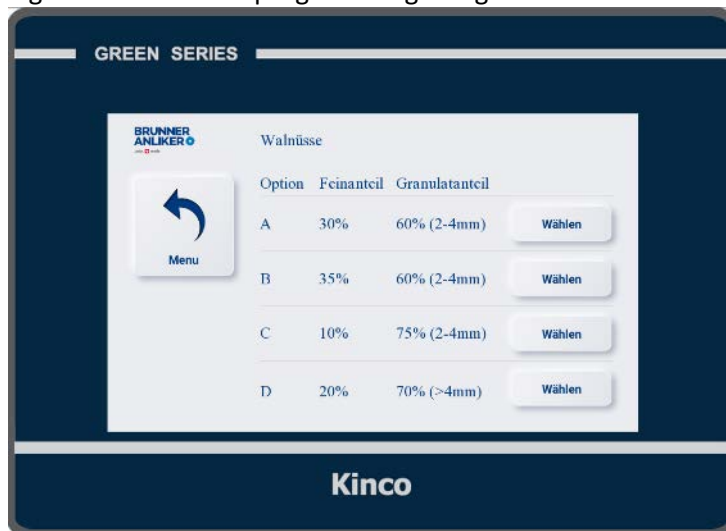


Fig. 29: Program for walnuts

Figure 30 shows the program for grating hazelnuts

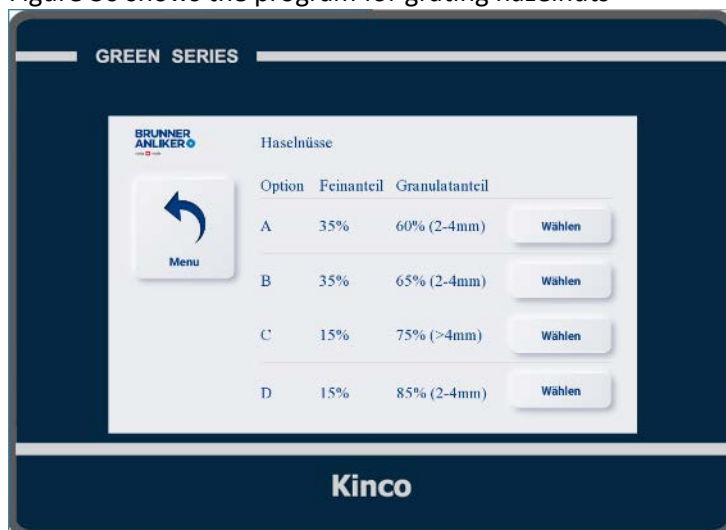


Fig. 30: Program for hazelnuts

Figure 31 shows the program for grating almonds

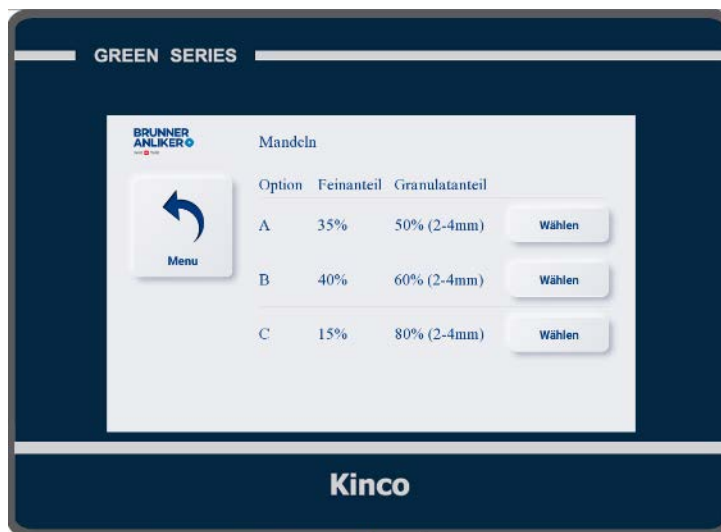


Fig. 31: Program for almonds

Figure 32 shows the program for grating cheese

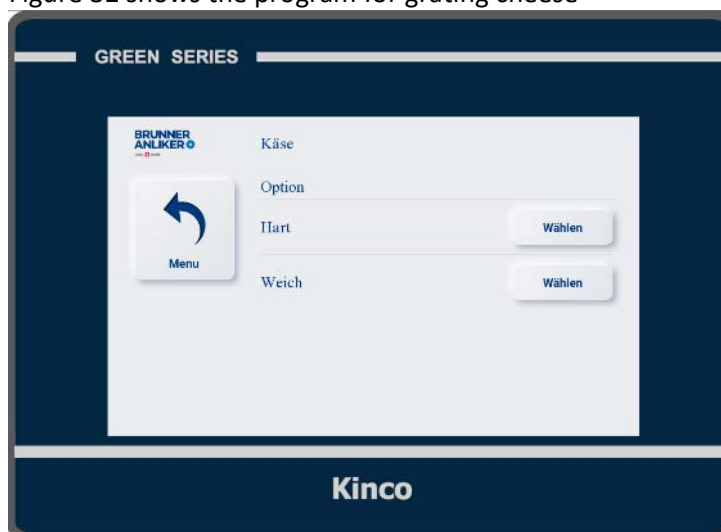


Fig. 32: Program for cheese

As a conclusion to each submenu, the optimal setting with appropriate device setup is recommended.

The screen shows the recommended setting



Fig. 33: Recommendation for optimal adjustment

Figure 34 shows the submenu of the "Operation" option

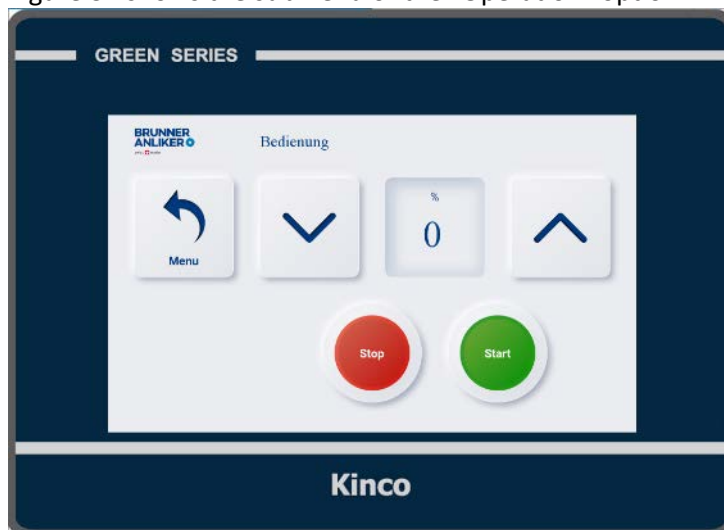


Fig. 34: On/off

Figure 35 shows the submenu of the "Info" option



Fig. 35: Info screen

Generated:	Reviewed:	Revised:	Status:	Page 30 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

7 System maintenance

7.1 Cleaning

The IR 250-D is made of low-maintenance stainless steel and is therefore easy to clean.

First switch off and unplug the device.

Dismantle the device if you wish to clean the single components (see installation and replacement of the grating drum). To remove the funnel, simply pull it off the funnel holder mandrel.

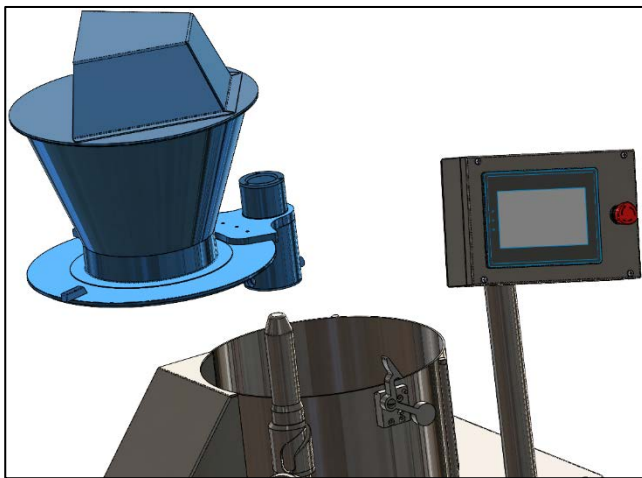


Fig. 36: Remove the funnel

The grating compartment and single components can now be cleaned without any problems. Clean with a moist cloth or dishwater with standard dishwashing detergent and/or disinfectant. All components that can be dismantled (grating drum, cutting drum, grating blades etc.) can be easily cleaned in the dishwasher.

WARNING



- The touchscreen must only be cleaned with water, without the use of aggressive cleaning agents (e.g. acids or alkaline soap) and without pressure (no high-pressure cleaner or water hose)

8 Troubleshooting

The following section describes malfunctions which might occur during operation, and their elimination.

8.1 Elimination of malfunctions

As the device is very robust, malfunctions are hardly to be expected. In the event of a malfunction, follow the instructions on the next pages.

First of all, switch off the device. In case of unpleasant smells, unplug the mains plug.

8.1.1 The grating goods are not grated well

- You might have inserted a grating wing that does not fit the grating drum.

8.1.2 The grating goods do not exit the machine

- The outlet funnel might be clogged. This can happen if the grating products are gluey or greasy or when the device is overfilled. Switch off the machine. Open the device and remove the obstruction.

HAZARD



- Do not reach into the outlet spout from below.

8.1.3 The grating drum stands still and the machine is too loud

- The motor is running, grating drum and grating blades are standing still. Please contact our service center.

8.1.4 The machine cannot be switched on

- The housing (filler funnel) is not fully closed!

8.1.5 The machine switches off on its own

- The circuit breaker has responded. Wait 30 seconds, then switch the device back on.

8.1.6 Grating drum or grating blades weigh on the axle

- Grating drum or grating blades may be damaged, bent or the hub is obstructed. Contact our service center.

8.1.7 The grating performance is deteriorating (the expected volume cannot be achieved)

- The grating discs are blunt; contact our service center

Generated:	Reviewed:	Revised:	Status:	Page 32 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

8.2 Service opening

To allow access to the control unit, the unit has two service openings on the side.



Fig. 37: Service openings

8.3 Addresses for service and information

Please contact our service center for all problems and questions that are not described or cannot be solved.

Address: Brunner-Anliker AG
Flughofstrasse 55
8152 Opfikon-Glattbrugg,
Switzerland

T: +41 44 804 21 00
F: +41 44 804 21 90

Internet: brunner-anliker.com/

Mail: mail@brunner-anliker.com

Generated:	Reviewed:	Revised:	Status:	Page 33 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

9 Technical Specifications

Table 4 Technical specifications

Machine type	IR 250
Dimensions L x W x H	800 x 900 x 1510 mm
Weight	260 kg
Protection category	IP26
Electric motor	3.0 KW
Electrical connection	3 x 400V, 50Hz (3P+N+E)

9.1 Dimensional drawing

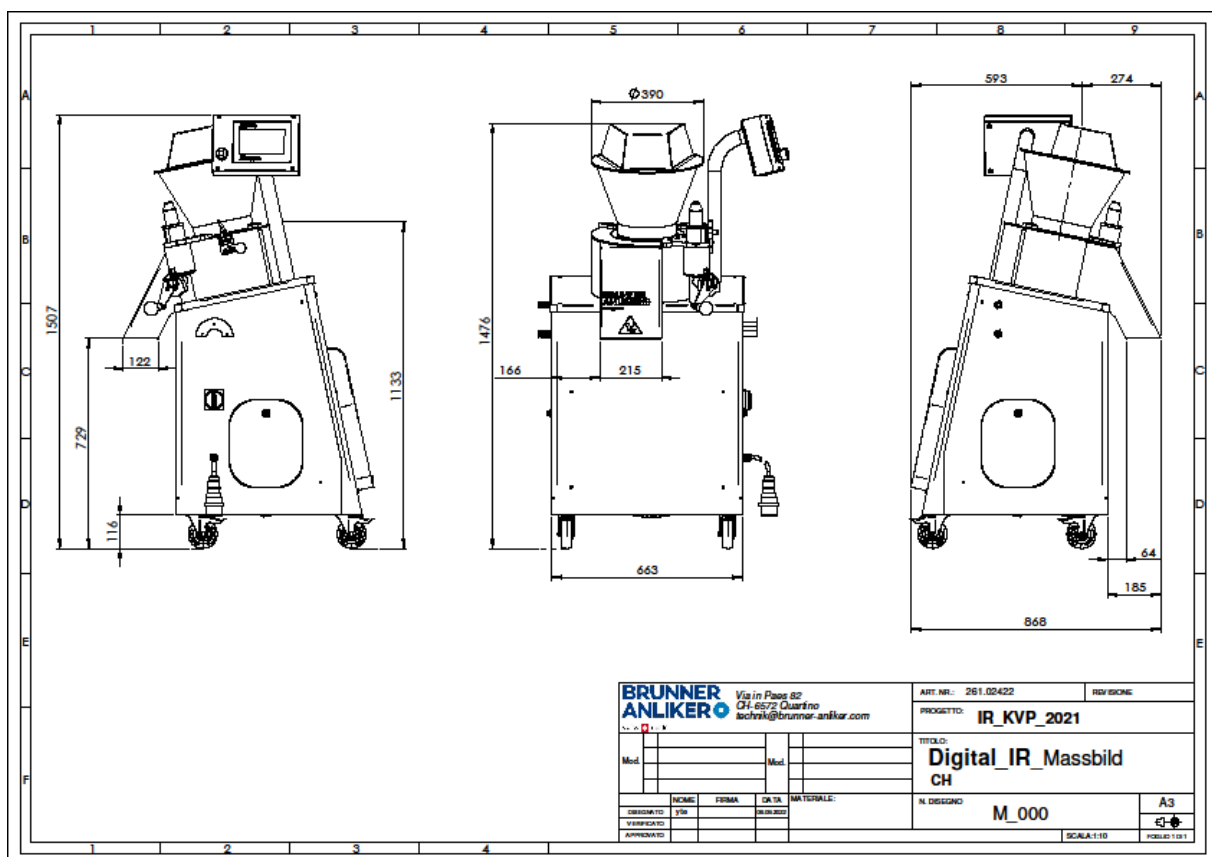


Fig. 38: Dimensional drawing



9.2 CE Conformity Declaration



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EG-Konformitätserklärung CE Déclaration de conformité EC Declaration of conformity

<p>Wir / Nous / We,</p>		<p>Brunner-Anliker AG Flughafenstrasse 55 8152 Opfikon-Glattbrugg, Schweiz</p>	
<p>erklären in alleiniger Verantwortung, dass das Produkt déclarons de notre seule responsabilité que le produit bearing sole responsibility, hereby declare that the product</p>		<p>Beschreibung des Produkts Industrielle Prä-Rotationsreihe</p> <p>Description du produit Description of product</p> <p>Typenreihe / Série type / Type series IR250-D</p>	
<p>auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder normativen Dokumenten übereinstimmt: auquel se rapporte la présente déclaration est conforme aux normes ou aux documents normatifs suivants. referred to by this declaration is in conformity with the following standards or normative documents.</p>			
<p>Bestimmungen der Richtlinie Désignation de la directive provisions of the directive</p> <p>2006/42/EG: Maschinenrichtlinie 2006/42/CE: directive Machines 2006/42/EC: Machinery Directive</p>		<p>Titel und/oder Nummer sowie Ausgabedatum der Norm(en): titre et/ou numéro ainsi que date d'émission de la/des norme(s) : title and/or number and date of issue of the standard(s):</p> <p>DIN EN ISO 12100:2011-03 DIN EN ISO14119:2014-03 DIN EN 60204-1 :2007-06</p>	
<p>Mitteilung über Anerkennung der Qualitätssicherung: Communication sur la reconnaissance de l'assurance de la qualité: Report on the acknowledgment of the quality assurance:</p>			
<p>Ausstellung: Brunner-Anliker SA Ralph Moretti / PCO Via in Paes 82 6572 Quartino, Schweiz</p> 		<p>Quartino, November 2022</p>  M. Benkovic Technischer Direktor / Technical Director	

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Ralph Moretti	Michel Benkovic	Unterlagennummer:	Index
15.11.2022			AA

Fig. 39: CE Conformity Declaration

Generated:	Reviewed:	Revised:	Status:	Page 35 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

9.3 Supplement directive 1935/2004



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Declaration of Conformity

as set forth in EC directive 1935/2004



for objects that come into contact with food

We hereby declare that all system components which are part of machine IR250-D and come into contact with the products, including those which are incorporated or replaced at a later point in time, fully comply with the requirements set forth in EC directive 1935/2004 (in its applicable version).

Under normal and foreseeable conditions, the components that come into contact with the products are transferred to food in such a way that they do not imperil human health.

Neither do they cause an unacceptable change to the food composition, nor do they affect or hinder its investigation by the human senses without the use of technical or other auxiliary means.

This declaration is not valid if changes have been carried out without the consent of the manufacturer.

Published by Brunner-Anliker SA Ralph Moretti / PCO Via in Paes 82 6372 Quartino, Schweiz		Quartino, Nov. 2022	
		 M. Benkovics Technischer Direktor / Technical Director	

Generated:	Reviewed:	Revised:	Status: 300 released	Page: 1
Ralph Moretti	Michal Benkovics	Ralph Moretti	Document number:	Index
				AA

Fig. 40: Directive 1935/2004

Generated:	Reviewed:	Revised:	Status:	Page 36 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA

9.4 Supplement directive 10/2011 art. 15



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brunner-anliker.com

Declaration of Conformity

as set forth in EC directive Nr. 10/2011 Art.15

for objects that come into contact with food

We hereby declare that all system components which are part of machine IR250-D and come into contact with the products, including those which are incorporated or replaced at a later point in time, fully comply with the requirements set forth in EC directive Nr. 10/2011 Art.15 (in its applicable version).

Under normal and foreseeable conditions, the components that come into contact with the products are transferred to food in such a way that they do not imperil human health.

Neither do they cause an unacceptable change to the food composition, nor do they affect or hinder its investigation by the human senses without the use of technical or other auxiliary means.

This declaration is not valid if changes have been carried out without the consent of the manufacturer.


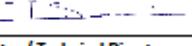
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			Page: 1 Index

Fig. 41: Directive 10/2011

Generated: Ralph Moretti 08. Mai 2023	Reviewed:	Revised:	Status: Document number:	Page 37 of 39 Index AA
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9.5 Supplement directive WEEE 2012/19/EU





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Manufacturer self-declaration

as set forth in directive WEEE 2012/19/EU

We hereby declare that machine IR250-D complies with the fundamental requirements set forth in directive WEEE (2012/19/EU (in its applicable version)).

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		M. Benkovics	Technischer Direktor / Technical Director

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Fig. 42: Directive WEEE

Generated: 08. Mai 2023	Reviewed:	Revised:	Status: Document number:	Page 38 of 39 Index AA
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10 Warranty

During the warranty period, the machine may only be repaired and maintained by the manufacturer. Upon request, the manufacturer may authorize certain exceptions in writing. The warranty exclusively relates to the part to be replaced and its replacement at the manufacturer's factory, but not to a service in connection with a warranty repair not conducted by the specialist staff at our service center (refer to page 33) or by the manufacturer

Generated:	Reviewed:	Revised:	Status:	Page 39 of 39
Ralph Moretti			Document number:	Index
08. Mai 2023				AA