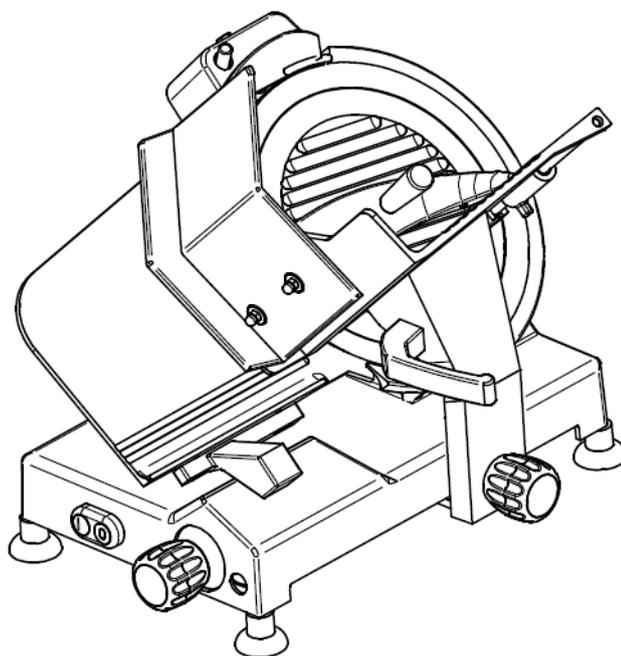


GRAVITY SLICERS

**NS220 – NS250 –
NS250HD – NS300 –
NS300HD – NS350HD**



**Instructions for use and
maintenance**

Edition March 2016



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The manual is made up of 6 progressively numbered pages.

The contents are divided into progressively numbered paragraphs, if in any doubt about the contents and for any further explanation contact the manufacturer or the authorised technical assistance, stating the paragraph number of the pertinent subject

1. INTRODUCTION

The purpose of this manual is to allow the user, above all the direct user, to take every precaution and arrange all human and material means necessary for a safe and lengthy use of these machines.

This manual must be given to the person who will use and maintain the machines and this person will keep the manual in a safe and dry place, ready to be used.

The use and configurations of the machine are the only ones allowed by the manufacturer; do not try to use the machine differently from the indications.

The machines are to be used for cutting only food products of the type and size indicated in the following paragraphs.

The manufacturer declines all responsibility derived from an improper use or use by personnel who has not read and fully understood the contents of this manual; changes and/or repairs carried out on one's own; the use of spare parts that are not original or not specific for the type of machine.

For any explanation or doubts on the contents of this manual, please contact immediately the manufacturer or an authorised technical assistance service.

2. GENERAL INFORMATION

The operating environment must have the following characteristics:

-Temperature.....da -5 °C a +40 °C
 -Relative humidity..... max. 95%

The machine cannot be used in open areas and/or exposed to atmospheric agents and in places with fumes, smoke or corrosive and/or abrasive dust, with the risk of fire or explosion and in any case where the use of antideflagrating components are prescribed.

The slicing machine must be used only by personnel who has carefully read the contents of this manual.

The operators must be over 18 years of age, in perfect mental and physical conditions, have the right attitude and capacity (with the necessary knowledge for manoeuvring and normal maintenance of simple mechanical and electrical components).

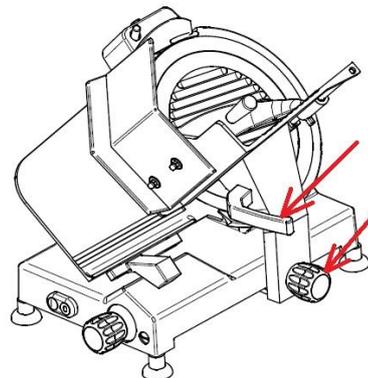
2.1 SAFETY REGULATION



SHARP KNIFE BLADE

To avoid serious personal injury follow all the instructions in this manual

- Install the machine according to the instructions in the paragraph "Installation";
- Install the machine so that it is far from people who must not use it, especially children;
- **Do not touch food while slicing.** The user should only touch the carriage handle or carriage locking knob during slicing;



- **Do not be distracted while using the machine;**
- Do not wear loose clothing or open sleeves, if necessary use headgear to keep hair out of the way;
- Do not let anyone come close to the machine while in use;
- **Do not remove, cover or change the plates that are on the machine** and, if they are damaged, replace them immediately;
- **Do not remove the protective devices** and do not change or exclude the mechanical protective devices;
- If the slicer jams, switch off and unplug before removing obstruction;
- **Only slice permitted products;** do not try to slice any products that are not allowed;
- The area around the machine, where the food is laid and the floor where the operator works must always be kept clean and dry;
- Do not use the machine as a support surface and do not place any object on it that does not pertain to normal cutting operations;
- Do not use the machine with electrical connections of a "temporary" nature, with temporary or non-insulated wires;
- Periodically check the state of the mains cable and the cable gland on the machine body, when necessary have it replaced without delay by qualified personnel;
- **Immediately stop the machine and call the technical assistance service in the case of anomalous function,** suspicion of breakages, incorrect movements, unusual noises, etc.;

- Before cleaning or carrying out any maintenance, disconnect the machine from the electric mains supply;
- Always use gloves that are resistant to cutting and tearing for the cleaning and maintenance operations;
- The goods to be cut must be placed on and removed from the sliding plate with the carriage in a retracted position and the thickness regulating knob in the “O” position;
- The use of accessories for cutting is not allowed unless supplied by the maker specifically for the machine;
- For any exceptional maintenance (replacing grindstones, blade, etc.) please contact the manufacturer or qualified and authorized personnel.

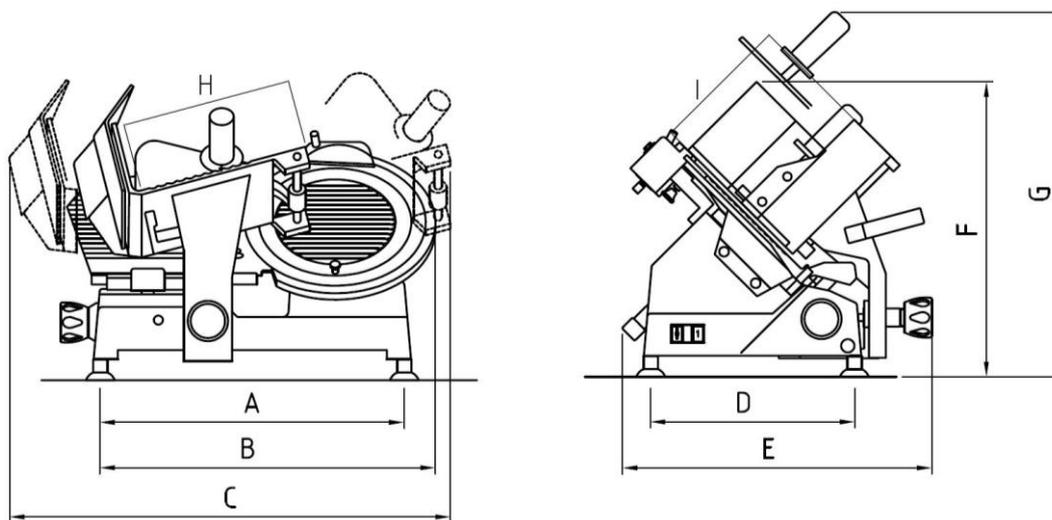
2.2 GUARANTEE AND MANUFACTURER'S RESPONSIBILITY

The manufacturer declines all direct and indirect responsibility deriving from:

- Not following the instructions in the manual;

3. TECHNICAL CHARACTERISTICS

3.1 OVERAL SIZE



Rif.	NS220	NS250	NS250HD	NS300	NS300HD	NS350HD
A	410	410	480	480	540	540
B	480	480	530	530	600	620
C	590	590	630	630	680	760
D	320	320	320	320	370	370
E	430	430	440	440	560	560
F	370	400	450	450	520	530
G	370	410	460	460	570	600
H	195	230	230	230	250	310
I	190	230	230	230	290	330

- Persons using the machine who have not read and understood the contents of this manual;
- Using the machine so that it does not conform to specific regulations in force in the country of installation;
- Unauthorised changes and/or repairs to the machine;
- The use of accessories that are not supplied by the manufacturer and spare parts that are not original;
- The machine is not cleaned correctly with the right product;
- Outstanding events.

2.3 THE USER'S OBLIGATIONS

The user must scrupulously observe the instructions in this manual for the manufacturer's guarantee to be valid and particularly:

- Always respect the limits of the machine;
- Always carry out a constant and diligent maintenance;
- Make sure the persons using the machine are qualified and able to do so, including the fact that they must have read this manual.

		NS220	NS250	NS250HD	NS300	NS300HD	NS350HD
Blade diameter	mm	220	250	250	300	300	350
Height of cut	mm	155	170	170	220	220	250
Length of cut	mm	220	220	260	260	290	290
Slice thickness	mm	0-13	0-13	0-13	0-13	0-14	0-14
Blade speed	RPM	290	290	310	310	300	300
Motor power	Watt	180	180	250	250	370	370
Current	Amp	<2	<2	<2	<2	<2	<2
Voltage (AC)	Volt	230	230	230	230	230	230
Net weight	kg	14.5	16	19	20	29	36

3.2 PRODUCT THAT CAN BE SLICED

The following are products that can be sliced:

- All types of cold cuts (cooked, raw, smoked);
- Boneless meat (cooked or raw at a temperature of no lower than +3 °C);
- Bread and cheeses (those that can be sliced, such as Gruyere, Fontina, etc.).

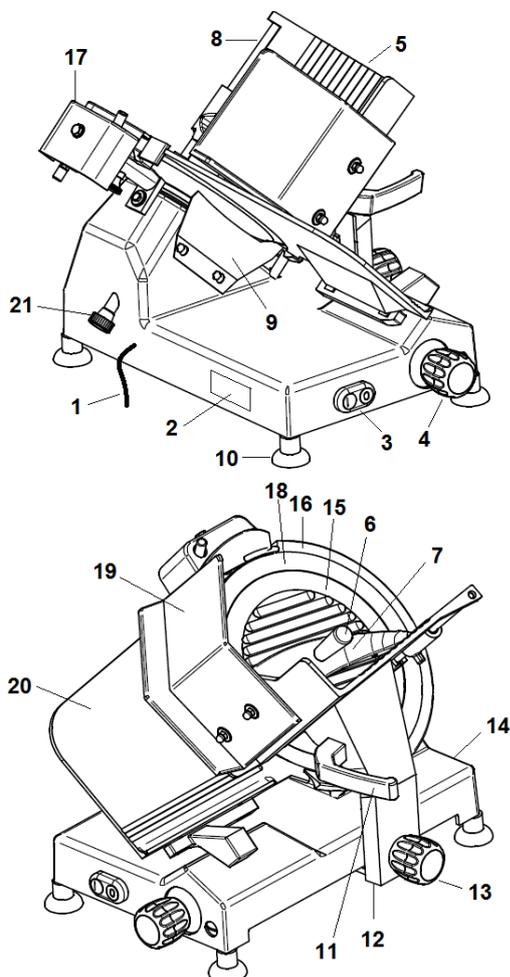
3.3 PRODUCT THAT CANNOT BE SLICED

The following are products that cannot be sliced because they could cause damage to people and equipment:

- Frozen foods;
- Deep-frozen foods;
- Food with bones (meat and fish);
- Vegetables;
- Any other product that could be sliced but not meant for consumption.

ATTENTION: Do not try to slice products that are not allowed.

4. MAIN COMPONENTS



1. Feed cable
2. Identification plate, technical data and EC marking
3. ON/OFF push button
4. Regulating knob for slice thickness
5. Food table
6. Food press handle
7. Food press
8. Rod
9. Slice deflector
10. Foot
11. Knob for table pushing
12. Table support
13. Table locking handle
14. Base
15. Blade cover
16. Blade guard ring
17. Sharpener cover
18. Blade
19. Safety guard
20. Gauge plate
21. Tie rod

5. INSTALLATION

5.1 UNPACKING AND ASSEMBLY

1. When the slicer has been unpacked and removed from its shipping carton, it should be checked carefully for any damage that may have occurred during shipment. Do not plug in the power cord or attempt to operate the slicer prior to this examination. Any damage during shipment must be reported to the freight company and sales agent within 3 days of receiving goods. No claims accepted after this period.
2. Carefully check all slicer components such as the product table, pusher, sharpener, thickness control knob, etc., to make certain they move freely and that there are no obstructions. Turn the thickness control knob as far right as possible. Lubricate the pusher slide bar (on the product table) and the square and round table support rails (underside of slicer) with Food Grade Machine Oil / Grease. Vegetable oil should never be used. Vaseline may be used if no suitable grease can be obtained.
3. Install the Slicer on a firm, level surface. The feet can be adjusted to prevent rocking on a slightly uneven surface.
4. National Standards exist which outline position, spacing and ventilation requirements for appliance installation. Please consult the relevant Standard for requirements on installation space. We recommend a minimum, well ventilated air gap of 100mm. Please ensure a gap of at least 100mm is given or more as specified in the local Standard.

5.2 TESTING PRIOR TO OPERATION

1. Make sure that the ON/OFF switch is in the OFF position, and the thickness control knob is turned as far to the right as possible. In this way the gauge plate is in a position that the knife is not exposed during testing.
2. Plug power cord into correct electrical outlet, and ensure the mains cable does not cause a tripping hazard.
3. Turn the slicer ON and check for smooth knife rotation. Turn the slicer OFF.
4. Slide Product Table back and forth holding on to the Product Table Handle. If there is any rough operation or obstruction, shut off, unplug power cord and call service for assistance.

6. CLEANING AND LUBRICATING

The machines must be properly cleaned at least once a day; if necessary even more.
If the machines have not been used for a while they must be cleaned before use as well.

6.1 PRODUCT TO BE USED

Only use hot water and a biodegradable detergent for dishes with a 7-8 PH, at a temperature of no lower than 30° C using a soft, spongy cloth and a semi-rigid nylon brush for the plate and the sharp food press.

WARNING: For cleaning the sharp areas of the plates, the food press and the blade, we recommend using protective gloves. Rinse well with a lot of hot clean water and dry with a soft cloth or a spongy material.
Do not clean slicer with running water from a tap or hose, etc.

6.2 CLEANING SHARPENING STONES

Each time the sharpener is used, the sharpening stones should be examined for cleanliness. Turn off slicer, close the gauge plate, unplug power cord and remove sharpener. If there is evidence of fatty or metallic build-up in the stones, they must be cleaned. Otherwise, they will not have the abrasive quality necessary to sharpen. Clean stones with a semi-rigid nylon brush. Now replace the sharpener and lock in position.



Dirty Stones Cannot Sharpen!
IF THE SHARPENING STONES HAVE BECOME COATED WITH FOOD FATS OR METALLIC BUILD-UP, THEY WILL NOT SHARPEN EFFECTIVELY.
REMOVING THE SHARPENER EXPOSES THE KNIFE. DO NOT LEAVE UN-ATTENDED.

6.3 LUBRICATION

Before lubricating, disconnect the machine from the power supply and turn the slice thickness regulator to zero.

Every week put a small amount of oil (a few drops) on the transversal sliding bar of the handgrip and on the longitudinal sliding bar of the plate support inside the base of the machine.

Manually slide the groups and clean as necessary removing any excess oil.



ATTENTION: Use only Food Grade Machine Oil / Grease or Vaseline.
DON'T USE VEGETABLE OILS!

7. SHARPENING INSTRUCTION

1. Switch OFF the power.
2. Unplug the slicer.
3. Turn the thickness control knob to the clockwise to place the gauge plate in the fully closed position.
4. Clean the knife completely. Always clean from the centre towards the outside edge of the knife. Never move your hand towards the edge of the knife. Replace the centre plate knife guard.
5. Loosen the sharpener locking knob, raise and rotate the sharpener until the stones sit with one on each side of the knife. Re-tighten the knob to hold the sharpener in its sharpening position.
6. Switch ON the power.
7. Press the sharpening stone push-button to bring the stone against the knife and hold it for five to 10 seconds and release.
8. Press the deburring stone pushbutton to bring the stone against the knife and hold it for two or three seconds and release.
9. Switch OFF the power.
10. Return the sharpener to its stored position and lock in place.
11. Clean slicer before slicing product.

Your slicer is now sharpened, cleaned and sanitized-ready to use.



**KNIFE SHOULD BE SHARPENED AT A MINIMUM ON A WEEKLY BASIS.
DO NOT SHARPEN A KNIFE THAT IS NOT CLEAN. YOU WILL DAMAGE THE SHARPENING STONES
AND BE UNABLE TO SHARPEN THE KNIFE.**

8. TROUBLESHOOTING

Should your slicer fail to function properly, here are a few things you can check before calling FOR ASSISTANCE.

Product not slicing properly; thick and thin or irregular slices.

1. Is the knife sharp? If not, sharpen according to instructions. Remember, only sharpen a clean knife.
2. Does the product size exceed the capacity of the slicer? Too large a product may rub against the sharpener assembly causing interference to normal slicing.
3. Is the product positioned correctly and held securely on product table? If not, product may move or rotate during slicing operation resulting in partial or thick and thin slices.
4. Are all components held securely in place? A loose product table or pusher can cause inconsistent slices.

Knife not sharpening

1. Are sharpening procedures being followed exactly as explained in this manual?
2. Are sharpening stones clean? If not, clean according to instructions.
3. Is the knife clean? If coated with food fats, sharpener stones cannot sharpen. Clean per instructions.
4. Are sharpening stones making solid contact with the knife? If not, have a service engineer adjust them to the proper height.
5. Are sharpening stones severely worn and not making contact with the knife? Are the sharpening stones cracker or chipped? If so, have a service engineer replace and adjust the new stones to the proper position for best sharpening results.

Electrical failure

1. Is slicer fully plugged into a properly grounded outlet? If properly connected, the red or white warning light should be on when switch is in the ON position.
2. Inspect power cord. Has it been damaged, cutting off electrical flow? If so, call for service assistance to replace the power cord.
3. Is ON/OFF switch in the ON position?
4. Are you getting electricity from the wall outlet? Check by plugging in another piece of equipment with the same electrical requirements. Also, check circuit breaker or fuse.
5. If you are getting electrical power and your slicer is still not operating, contact service for assistance.

Thickness control knob not operating gauge plate

1. If the thickness control knob is not opening and closing the gauge plate properly, it is a sign that the internal mechanism has suffered some loss of adjustment. Do not try to adjust the mechanism yourself. Call service for assistance.

If correction of any of the above conditions does not result in a functional slicer, call service for assistance.



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