



## Metcalfe Medium Duty Slicers

NS220, NS250 & NS300

### Installation & Operating Instructions



Model Shown NS220 & NS250

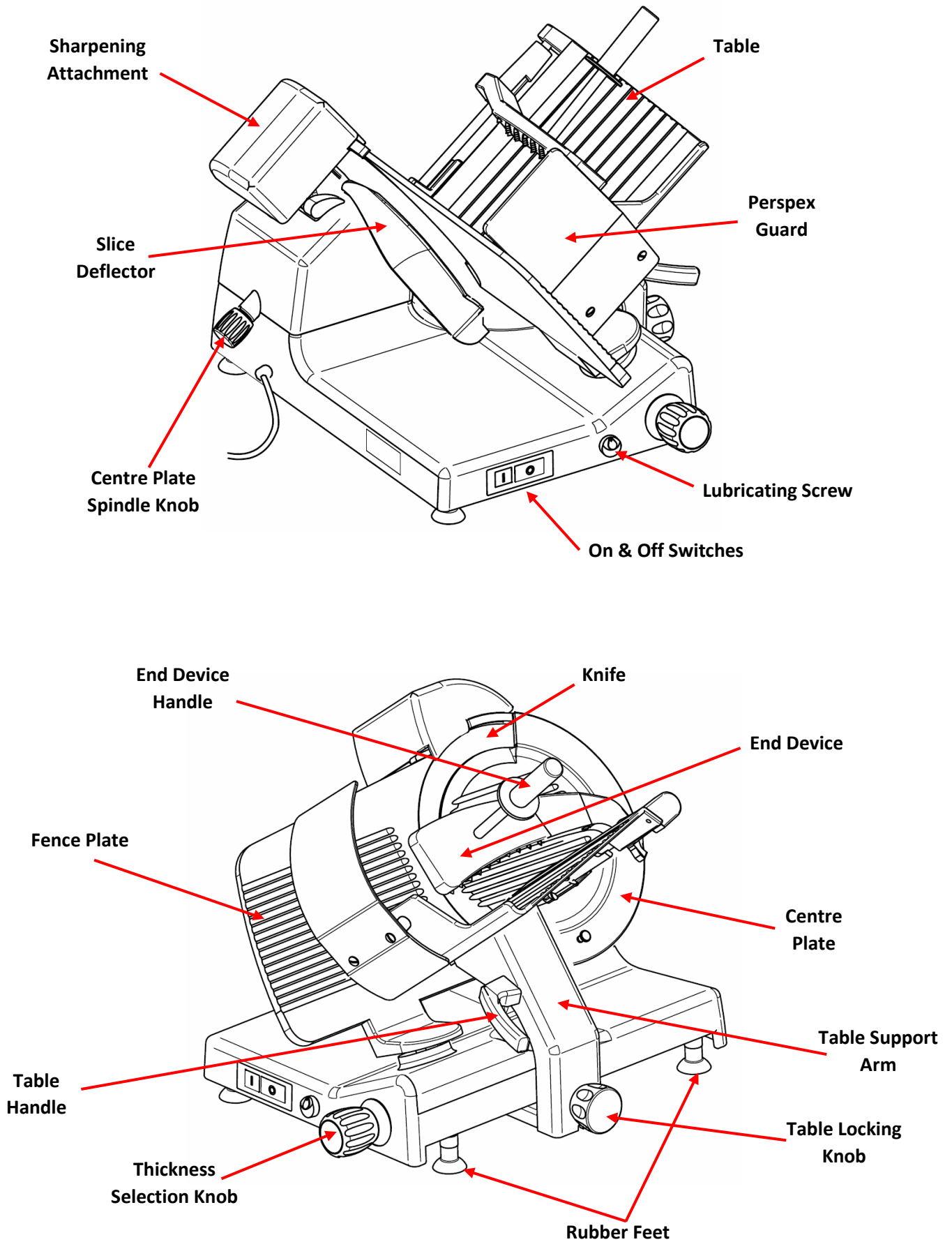


Model Shown NS300

## Index

Your Slicer .....	2
NS220 - Technical Data .....	3
NS250 - Technical Data .....	4
NS300 - Technical Data .....	5
Optional Extras .....	6
Installation	
Suitable Products for Slicing .....	7
Unpacking .....	7
Installation .....	7
Operation .....	8
Cleaning Instructions	
Disassembly .....	9-10
Cleaning .....	10-11
Reassembly after Cleaning .....	11-12
Sharpening the Knife .....	12-13
Lubricating your Slicer .....	14
Slicer Safety Tips .....	14
Troubleshooting .....	15
Maintenance .....	15
Spare Parts & Service .....	16
Product Information .....	16
Warranty .....	17

## Your Slicer



*(Image may differ to actual slicer)*

## Metcalfe NS220 (220mm blade) Medium Duty Slicer

### Features

- High quality, gravity feed slicer
- Hollow ground chromed carbon steel blade
- Powerful twin poly 'v' belt driven transmission gives a smooth cutting action and silent running
- Easy set thickness control, cuts from 0 to 13 mm for precision cut
- Carriage slides on ball bearings
- Entirely detachable for easy cleaning
- CE Approved
- Suitable for restaurants, cafés & bars

### Technical Specifications

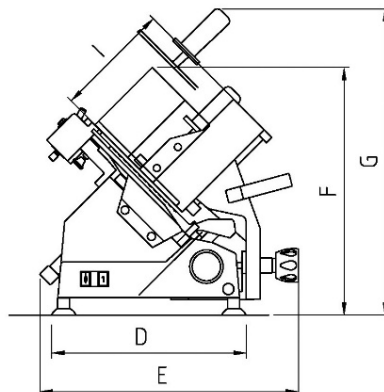
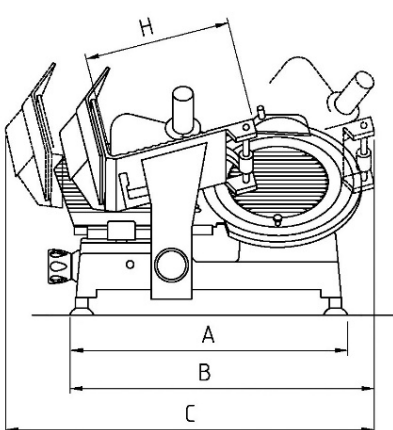
Model	Blade (mm)	Phase (Ø)	Motor (Volt)	Frequency (Hz)	Current (Amp)	Power (kW)
NS220	220	1	220	50	0.59	0.13

### Capacity

Model	Cutting Capacity (mm)		Carriage Movement (mm)	Max Slice Thickness (mm)
NS220	● 155	□ 155 x 185	240	13

### Dimensions | Shipping Information

Model	Overall Dimensions D x W x H (mm)	Net Weight (kg)	Packed Dimensions D x W x H (mm)	Packed Weight (kg)	Volume (m3)
NS220	445 x 610 x 390	14.5	640 x 640 x 480	17.5	0.197



A – Feet Distance (width)	410 mm
B – Footprint Cut	480 mm
C – Max Distance Beginning / End Movement	610 mm
D – Feet Distance (depth)	320 mm
E – Max Depth Distance	445 mm
F – Height	380 mm
G – Max Height Distance	390 mm
H – Table Length	195 mm
I – Table Width	190 mm

## Metcalfe NS250 (250mm blade) Medium Duty Slicer

### Features

- High quality, gravity feed slicer
- Hollow ground chromed carbon steel blade
- Powerful twin poly 'v' belt driven transmission gives a smooth cutting action and silent running
- Easy set thickness control, cuts from 0 to 13 mm for precision cut
- Carriage slides on ball bearings
- Entirely detachable for easy cleaning
- CE Approved
- Suitable for restaurants, cafés & bars

### Technical Specifications

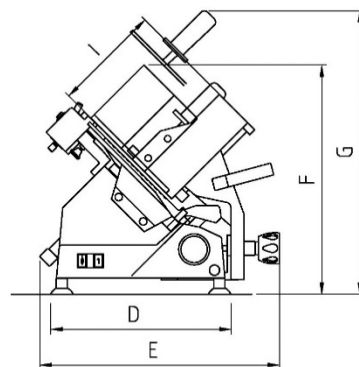
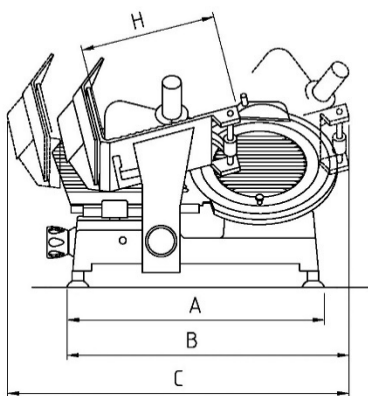
Model	Blade (mm)	Phase (Ø)	Motor (Volt)	Frequency (Hz)	Current (Amp)	Power (kW)
NS250	250	1	220	50	0.59	0.13

### Capacity

Model	Cutting Capacity (mm)		Carriage Movement (mm)	Max Slice Thickness (mm)
NS250	● 175	□ 170 x 205	240	13

### Dimensions | Shipping Information

Model	Overall Dimensions D x W x H (mm)	Net Weight (Kg)	Packed Dimensions D x W x H (mm)	Packed Weight (Kg)	Volume (m3)
NS250	445 x 610 x 440	20	640 x 640 x 480	23	0.197



A – Feet Distance (width)	410 mm
B – Footprint Cut	480 mm
C – Max Distance Beginning / End Movement	610 mm
D – Feet Distance (depth)	320 mm
E – Max Depth Distance	445 mm
F – Height	410 mm
G – Max Height Distance	440 mm
H – Table Length	230 mm
I – Table Width	230 mm

## Metcalfe NS300 (300mm blade) Medium Duty Slicer

### Features

- High quality, gravity feed slicer
- Hollow ground chromed carbon steel blade
- Powerful twin poly 'v' belt driven transmission gives a smooth cutting action and silent running
- Easy set thickness control, cuts from 0 to 14 mm for precision cut
- Carriage slides on ball bearings
- Entirely detachable for easy cleaning
- CE Approved
- Suitable for restaurants, cafés & bars

### Technical Specifications

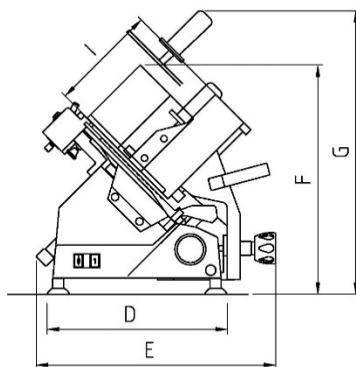
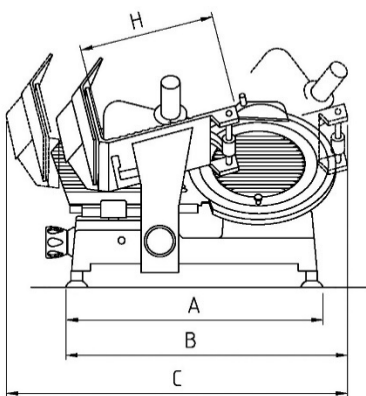
Model	Blade (mm)	Phase (Ø)	Motor (Volt)	Frequency (Hz)	Current (Amp)	Power (kW)
NS300	300	1	220	50	0.82	0.18

### Capacity

Model	Cutting Capacity (mm)		Carriage Movement (mm)	Max Slice Thickness (mm)
NS300	• 210	□ 210 x 230	270	12

### Dimensions | Shipping Information

Model	Overall Dimensions D x W x H (mm)	Net Weight (Kg)	Packed Dimensions D x W x H (mm)	Packed Weight (Kg)	Volume (m3)
NS300	475 x 630 x 490	20	640 x 640 x 580	22.5	0.238



A – Feet Distance (width)	485 mm
B – Footprint Cut	560 mm
C – Max Distance Beginning / End Movement	630 mm
D – Feet Distance (depth)	625 mm
E – Max Depth Distance	475 mm
F – Height	470 mm
G – Max Height Distance	490 mm
H – Table Length	230 mm
I – Table Width	230 mm

## Optional Extras



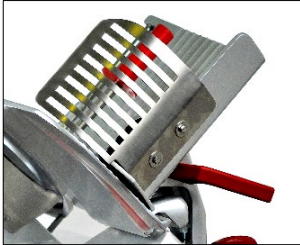
Teflon Coated Parts, 20% increased in gliding property



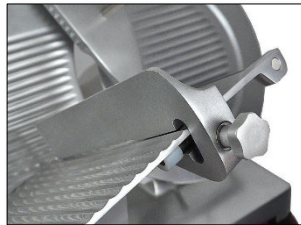
Stainless Steel Knife Remover



Aluminium Knobs Kit



Stainless Steel Guard



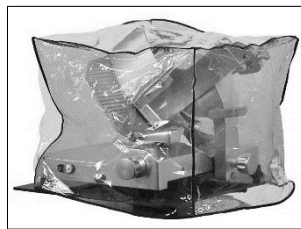
Product Hold Bar for Gravity Plate



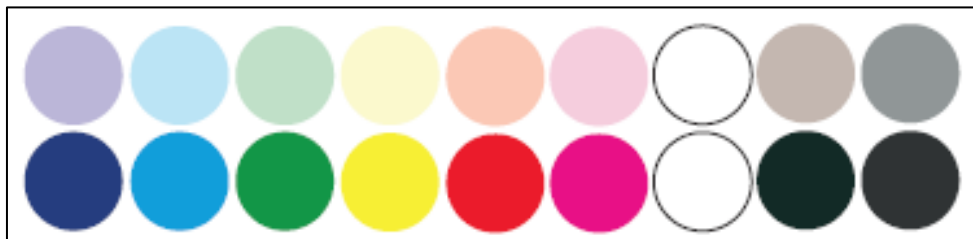
Serrated Blade



Tray Extension Device



Plastic Cover



Painting Customisation

**For more information and prices please contact the sales department (see page 16).**

# Installation

## Suitable Products for Slicing

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 cheese (those that can be sliced, such as Gruyere, Fontina, etc.)

The following are products that cannot be sliced because they could cause damage to the machine:

- Frozen food (Only with Serrated Blade see page 6)
- Deep-frozen food
- Food with bones (meat & fish)
- Vegetables
- Any other products not meant for consumption

## Unpacking

Unpack the slicer immediately after receipt. Please inspect the slicer to ensure there is no damage and that all parts are included i.e. Knobs, Feet and Knife Removing Tool. If the machine is found to be damaged, keep all the packaging material and contact us or contact your source of the equipment immediately.

You should receive with your slicer:	1 x Metcalfe Tasteless Oil	1 x Flat Head Screwdriver
	1 x Instruction Manual	1 x Knife Removing Tool

If any of the above items were not received with your slicer, please refer to page 16 for contact details and inform us immediately for replacements.

***Please ensure that you complete the product information section on page 16.***

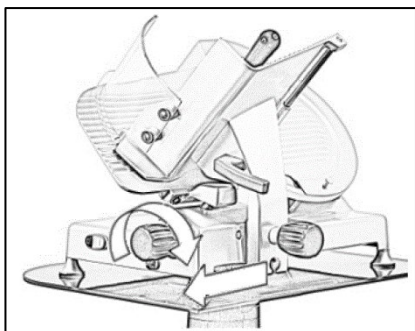
## Installation

1. Read this manual thoroughly before installation and operation. DO NOT proceed with any installation nor operation if you have any questions or do not understand anything in this manual. Please see Metcalfe Catering Equipment Ltd contact details on page 16 to resolve any queries you may have.
2. Make sure to clean and sanitise the entire slicer before use (see Cleaning Instructions on Pages 10-11).
3. Select a location for the slicer that is level, smooth, solid, dry, non-skid and suitable to withstand the weight of the slicer plus the food to be sliced.

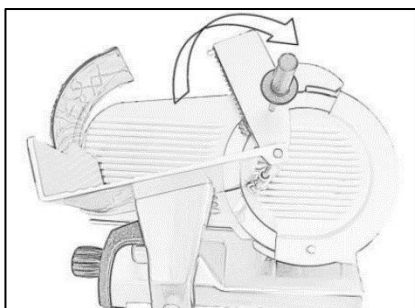


## Operation

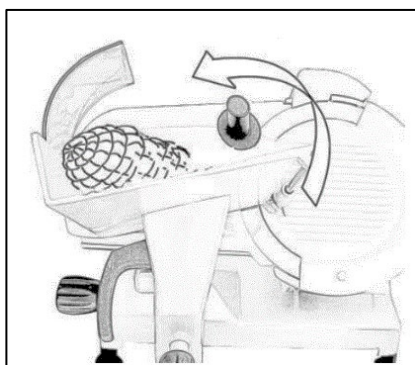
1. Ensure the slicer is turned off and that the thickness selection knob is set to "0".
2. Pull back the carriage completely (towards the operator) to the loading position.



3. Lift the end device up, into the rest position.



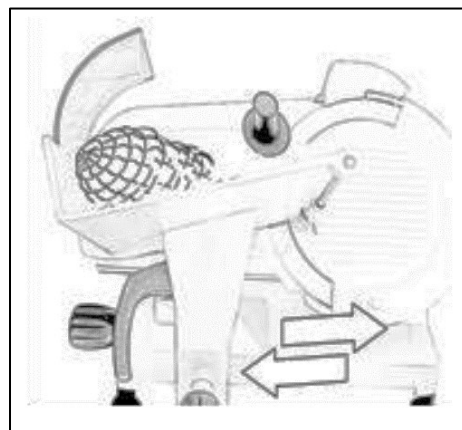
4. Place product onto the table, the product will press against the fence plate because of its weight. Block it with the end device by lowering it onto the product and pressing down slightly.



5. Rotate the thickness selection knob anti-clockwise to the desired setting.
6. Turn the slicer on by pushing the start button. The power indicator light, which is located between the on/off switch, will illuminate.

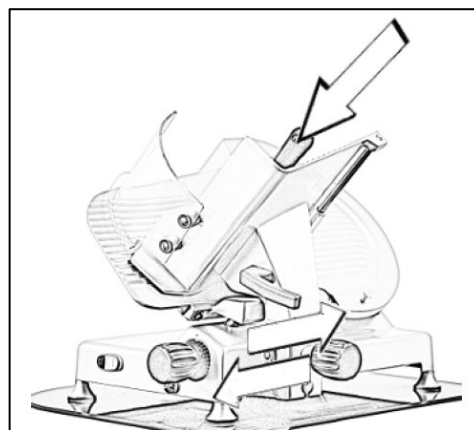
**DO NOT hold the food product with your hand. Never put your hand on or around the table while the slicer is on. The end device handle is the only part of the slicer you should touch while slicing.**

7. Grip the handle attached to the meat table support and manually push the carriage back and forth. This handle and the end device handle are the only parts of the slicer you should touch while slicing. **DO NOT** catch slices with your hands, let slices drop onto the receiving area.



**If a product needs to be adjusted during slicing, first turn the slicer off and then pull the table all the way towards you.**

8. When the weight or size of the product does not allow a proper slice, use the end device handle and apply some pressure to the product.



9. After the last slice stroke, pull the carriage all the way towards you. Turn the slicer off by pressing the stop button, the power indicator light will go out. Turn the thickness selection knob clockwise until it stops to close the slicer table.
10. You can now unload the product from the table.

## Cleaning Instructions

Daily cleaning should be considered mandatory for all equipment used in the preparation of food. When using a meat slicer and with the possibility of cross contamination, these units should be cleaned before slicing each new product. Once your slicer makes contact with any food product, the entire slicer, including removable parts, must be thoroughly cleaned. This process is to be repeated at the end of each working day. If the machine has not been used for a while it must be cleaned before use.

In order to ensure the slicer is cleaned properly and to avoid damage, the instructions below should be followed.

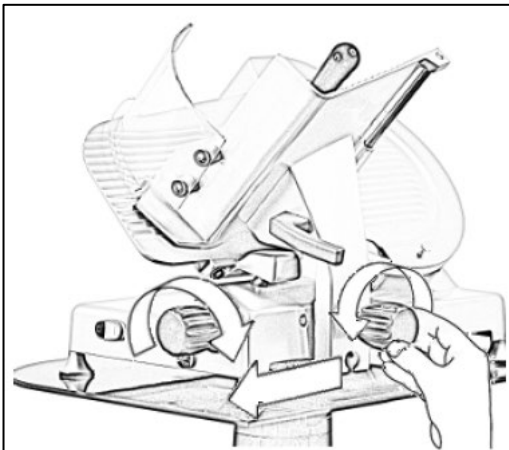
### Disassembly

Turn slicer off and unplug from mains.

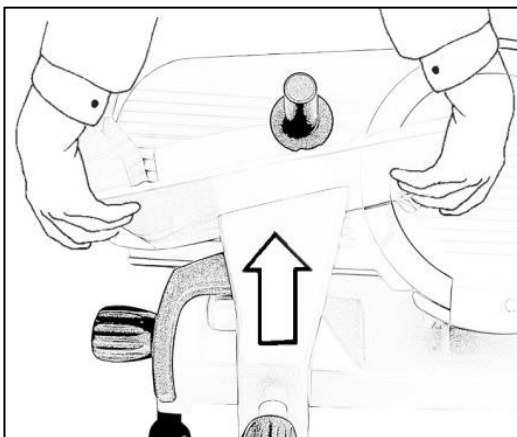
Turn the thickness selection knob clockwise past "0" until it stops so the fence plate covers the blade.

#### Disassembling the table

- With the thickness selection knob on "0" pull back the carriage all the way to the left.
- Whilst supporting the table, turn the table locking knob anti-clockwise all the way until you hear the click of the pin locking into place.

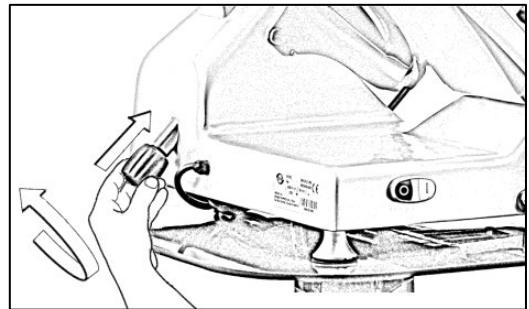


- Once fully unscrewed lift the whole of the table and carriage from the machine.

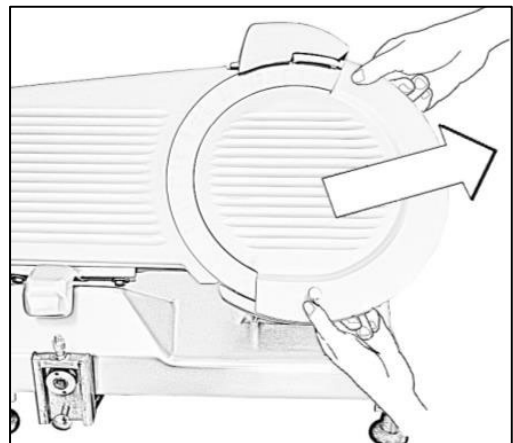


#### Disassembling the centre plate (blade cover)

- Unscrew the centre plate spindle knob (anti-clockwise) and remove from the rear of the machine.



- Lift the centre plate using the knob located at the bottom.

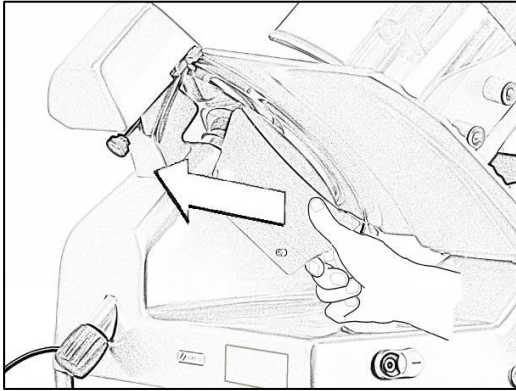


#### Disassembling the knife

- Fit the knife removing tool (supplied with machine) over the knife and secure it by tightening the two knobs.
- Once the knife removing tool is secure loosen the four screws securing the knife to the pulley.
- Pull off the knife removing tool with the knife **ALWAYS REMOVE HOLDING THE KNOBS.**

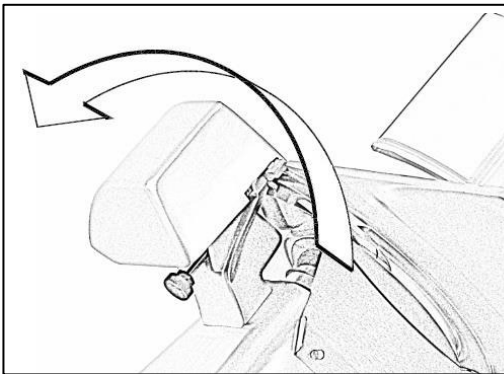
### Disassembling the slice deflector

- Remove the slice deflector by sliding it to the left

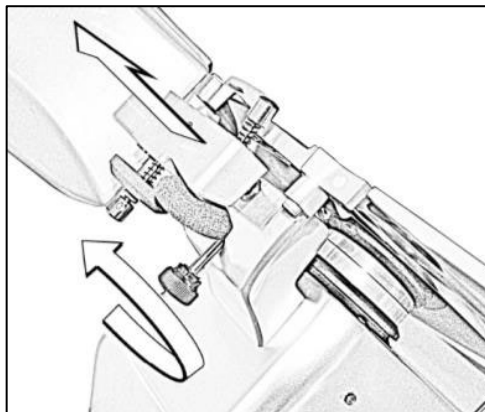


### Disassembling the sharpener

- Lift the sharpener cover.



- Loosen the screw at the rear of the knife sharpener without removing it (about 10 turns).
- Then remove the sharpener by pulling it upwards from the slicer.

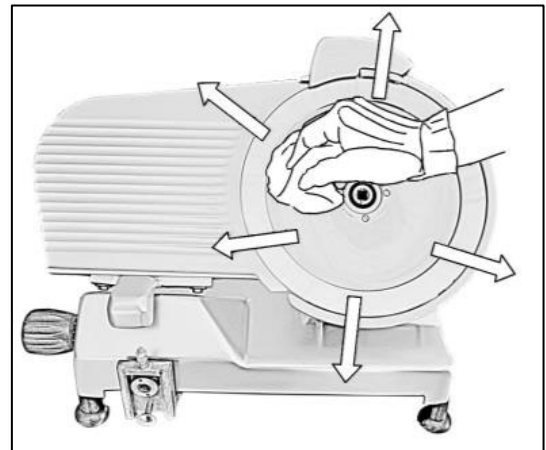


## Cleaning

- Only use warm water and a mild detergent to clean all parts, using a soft, spongy cloth and nylon brush.
- Do not use other metal products to scrape or remove stubborn deposits of sliced product.
- Never leave any leftover product on the slicer (Clean at least once a day).
- DO NOT clean the unit, or any parts of the unit in a dishwasher.
- Rinse all parts after cleaning with clean water and dry with a soft cloth.
- Do not use abrasive cleaners, acids, steel wool or high pressure water jets which might damage the machine.
- Clean the machine body with a damp cloth or sponge, rinsing frequently with hot water. Dry carefully.

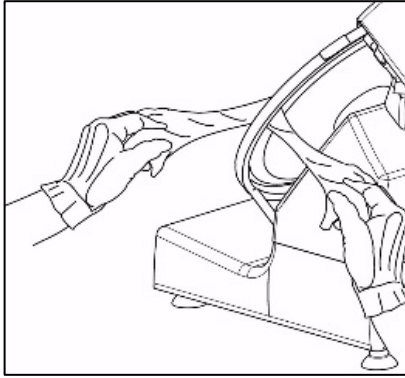
### Cleaning the knife

- To clean the knife whilst still on the machine, use a damp cloth on the blade and move it slowly from the centre outwards to the edge.

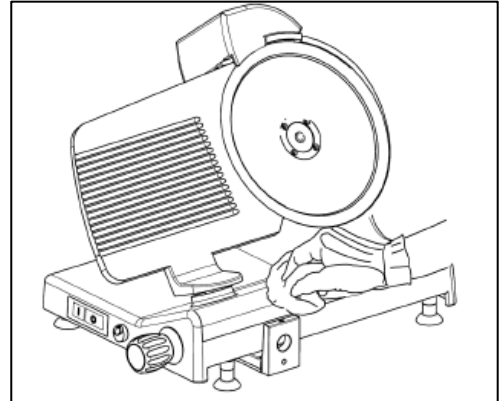


- Dry the knife in the same way.

- To clean the back knife guard, pass a damp cloth between the blade and the back knife guard.



- Clean the machine body with a damp cloth or sponge, rinsing frequently with hot water. Dry carefully.



## Reassembly After Cleaning

### Reassembling the sharpener

- Ensure the screw at the rear is loose (about 10 turns). Reposition the sharpener and turn screw until tight



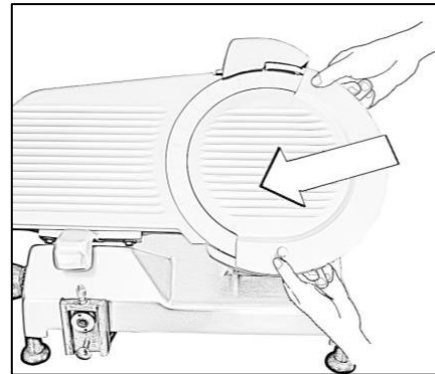
### Reassembling the slice deflector

- Insert the slice deflector over pins and slide back into position.

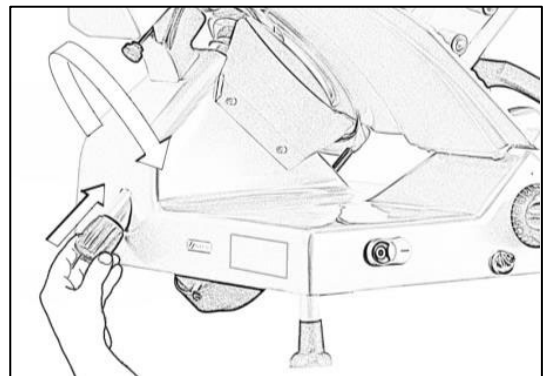


### Reassembling the centre plate

- Insert the centre plate over the knife and ensure that the flutes are flush with the flutes on the fence plate.



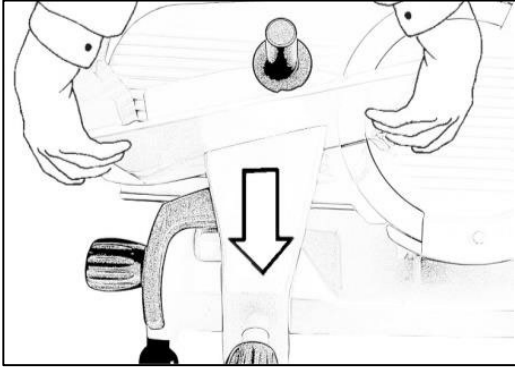
- Insert the centre plate spindle completely and rotate clockwise to secure.



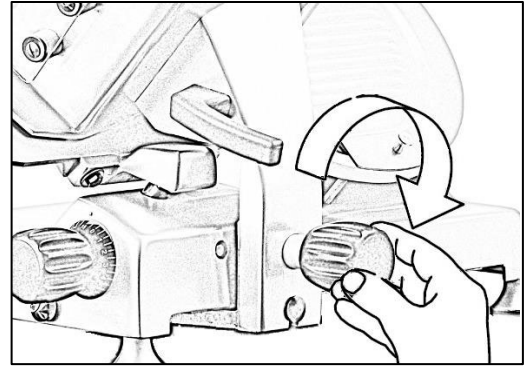


## Reassembling the table

- Insert the table on the carriage



- Tighten the table locking knob



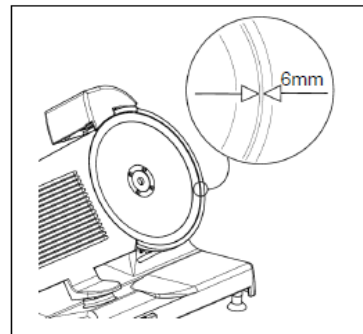
- Check that the table moves freely from left to right
- Check that the thickness selection knob works correctly

---

## Sharpening the Knife

### When and How Often to Sharpen the Knife

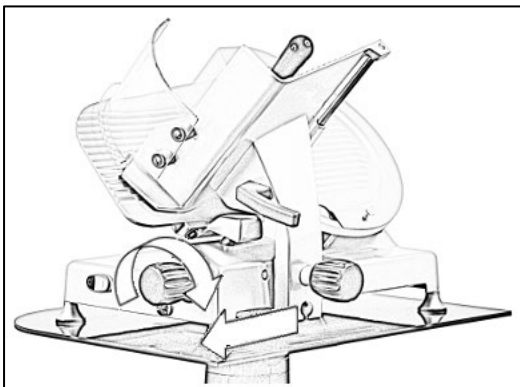
- Symptoms of a dull knife are excess waste on the unsliced portion.
- The blade needs to be sharpened periodically to provide consistent slices and maximum food product.
- Sharpening the blade lightly every few days is more effective than heavy sharpening at less frequent intervals.
- **WARNING:** The blade can be sharpened up until the distance between the cutting edge of the blade and the inside border of the blade guard ring is no more than 6 mm, corresponding to a decrease of about 10 mm of the size of the original diameter. Once this value has been reached, it is **NECESSARY TO REPLACE THE BLADE.**



### Sharpening the Knife

**NOTE:** Before starting check that the grindstones have been cleaned.

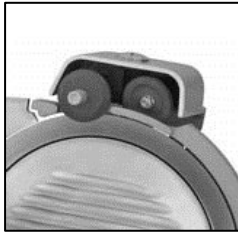
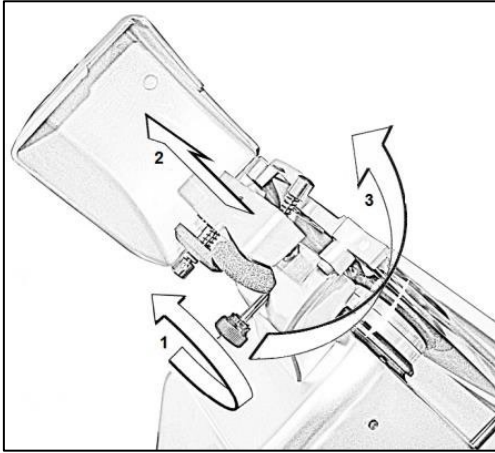
- Turn the slicer off and rotate the thickness selection knob clockwise until it stops and the slicer fence plate covers the knife.
- Pull back the carriage all the way to the left.



- Clean and dry both sides of the blade before sharpening. Please refer to cleaning instructions.
- Lift the sharpener cover.

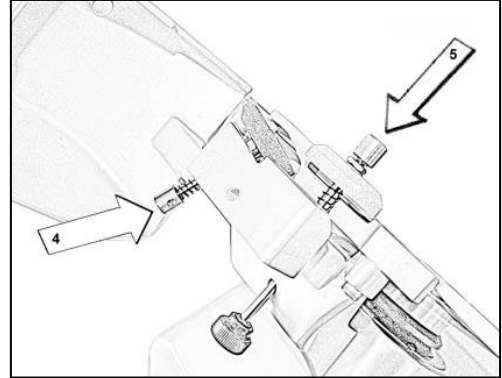


- Loosen sharpener release knob by turning it anti-clockwise several times (1).
- Lift sharpener up (2), rotate it clockwise 180° (3) and lower it into position with the knife fitting between the two stones.



- Tighten sharpener release knob to secure sharpener.

- Plug in and select the start button on the slicer.
- Push the sharpening stone button (4) and keep it pressed for 10-15 seconds
- Press the deburring button (5) for 2-3 seconds (more could damage the blade edge).



**TURN SLICER OFF** before inspecting.

- Return the sharpener body to the rest position and close the cover.
- Tighten sharpener release knob.
- Clean the entire slicer.

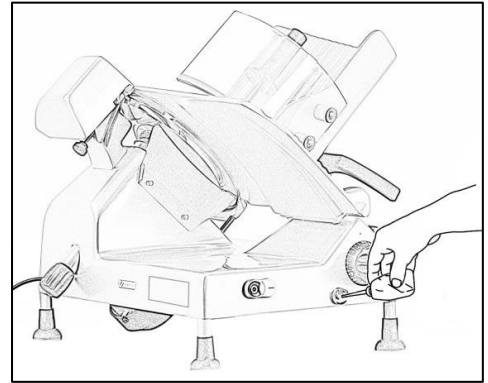
## Lubricating Your Slicer

**NOTE:** Use only the tasteless oil provided or white Vaseline oil. **Do not** use vegetable oils!

### Lubricating the bottom runner guide bars (weekly)

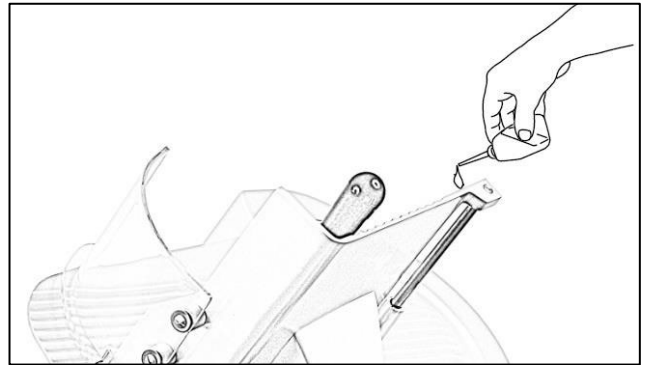
- Move the carriage as close as possible to the operator
- Insert the oiler in the special hole/lubricating screw
- Squeeze the oiler so that a small amount of oil goes into the hole
- Remove the oiler and slide the carriage 3 to 4 times.

NB: Not all machines are equipped with a lubricating screw.  
If so, lift the machine and lubricate the carriage bar directly.



### Lubricating the transversal guide rods of the table and end device (weekly)

- Put a small amount of oil on the rod and slide the group 3 to 4 times.
- Clean as necessary removing any excess oil.



## Slicer Safety Tips

### To avoid serious personal injury:

- **NEVER** touch the slicer without training and authorisation from your supervisor or if you are under the age of 18. Read this instruction manual first.
- **ONLY** install the slicer on a level, non-skid surface that is non-flammable and located in a clean, well-lit work area and away from children and visitors.
- **NEVER HOLD THE FOOD PRODUCT WHILE SLICING.** Hold only the end device handle while slicing.
- **BEFORE CLEANING, SHARPENING, SERVICING, OR REMOVING ANY PARTS** always turn the slicer off, turn the thickness selection knob clockwise until it stops and unplug power cable.
- **NEVER** touch rotating knife.
- **ALWAYS** keep hands clear of all moving parts.
- **ALWAYS** turn slicer off, turn the slicer thickness selection knob clockwise until it stops.
- **NEVER** place the power cord over the unit.

## Troubleshooting

If the slicer is not working correctly please check the list below before contacting an engineer or Metcalfe Catering Equipment Ltd.

Problem	Possible Causes	Action Required
Pressing the start button does not start the machine.	No electricity.	Check that the plug is correctly inserted.
Pressing the start button the machine starts but the working light does not come on.	Light is defective.	Do not use the machine if the light does not work. Contact Service for assistance.
The machine starts but the motor heats up too much and gives off a bad odour.	Defective motor.	Do not use the machine. Contact Service for assistance.
The machine vibrates.	Defective transmission.	Contact Service for assistance.
Excessive resistance in cutting the product.	The blade is not sharp.	Sharpen the blade.
The blade slows or stops under stress.	Loose belt.	Contact Service for assistance.
Sharpening is no longer regular.	Grindstones are excessively dirty.	Clean the grindstones.
	Grindstones are worn out.	Replace the grindstones. Contact Service for assistance.
The sliced product is frayed and irregular.	The blade is not sharp.	Sharpen the blade.
	The blade is excessively used.	Replace the blade. Contact Service for assistance.
The machine does not stop when the button is pressed.	Control circuit is defective.	Pull out the plug to stop the machine immediately and contact Service for assistance.

If the problems persist and the assigned solution does not remedy the problem, please call our Service Department.

## Maintenance

**Only the maintenance listed below is recommended for the operator to carry out, all other maintenance should be done by an approved engineer:**

- Knife sharpening.
- Lubrication of the bottom runner guide bars and end device (weekly).
- Check the condition of the electrical cable and the cable gland on the base of the machine (periodically).
- Replace Knife.
- Replacing the sharpening stone.

**Maintenance to be carried out by engineer only:**

- Replacing the components of the electrical system under the base.
- Repairing the structural parts, repairing and/or replacing components under the base.

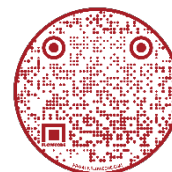


## Spare Parts and Service

For more information on Metcalfe spare parts, accessories and service support, including breakdown drawings and parts lists please contact us on the details below.

Please always quote the Serial Number of the machine. This can be found on the serial number plate which is located on the right-hand side of the machine's base.

<b>Metcalfe Sales &amp; Spares Department</b>	<a href="mailto:sales@metcalfecatering.com">sales@metcalfecatering.com</a>
<b>Metcalfe Service Department</b>	<a href="mailto:service@metcalfecatering.com">service@metcalfecatering.com</a>
<b>Metcalfe Website</b>	<a href="http://www.metcalfecatering.com">www.metcalfecatering.com</a>
<b>Metcalfe Telephone Number</b>	01766 830 456



Additional copies of this instruction manual can be obtained by either visiting our website or contacting the sales department.

## Product Information

Please complete the below details and keep in a safe place. Ensure that you complete the Model No & Serial No sections for future reference when enquiring about spare parts and technical assistance.

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Model No: \_\_\_\_\_ Serial No: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

Name of Dealer: \_\_\_\_\_

**Please retain this information for your records**

## **Metcalfe Warranty**

All Metcalfe products are guaranteed against defects in material and workmanship for a period of one year from date of invoice, except where specifically noted.

The Company's obligation under this warranty is limited to repairing or replacing, without charge, any part or parts found to be defective under normal use, in accordance with the specified operations manual and capacity ratings.

On all return to factory warranty items, it is the responsibility of the purchaser to return the entire unit to the factory, in a clean condition, properly packed and labelled.

All repairs, alterations or replacement of materials or parts not authorised by Metcalfe will automatically void all warranties in their entirety.

All Metcalfe slicers (except Simple Line) and EC20 chipper are covered by a 2-year warranty (1<sup>st</sup> year parts and labour, 2<sup>nd</sup> year parts only) and full after sales service.

All Metcalfe MP mixers are covered by a 3-year warranty (1<sup>st</sup> years parts and labour, 2<sup>nd</sup> and 3<sup>rd</sup> year parts only) and full after sales service.

### **There is a limited 6-month warranty on the following:**

- Mixer attachments (beater, whisk and dough hook)
- Chipper blades
- Parts purchased or supplied for the repair of Metcalfe equipment

### **This warranty does not cover the following:**

- Failure due to incorrect installation
- Failure due to neglect, abuse, careless handling or misuse of machine
- Failure caused due to improper maintenance
- Blender clutches
- Knives and gears on can openers
- Sharpening of slicer blades
- General wear and tear

**Metcalfe and its suppliers reserve the right to make changes in design and specification to any product without prior notification.**

## Notes

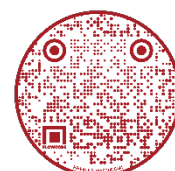
[illegible]

10/2024

---

**Metcalfe Catering Equipment Ltd**

Haygarth Park  
Blaenau Ffestiniog  
Gwynedd, LL41 3PF



 01766 830 456    sales@metcalfecatering.com    www.metcalfecatering.com