



Metcalfe MP7
7 Litre Countertop Mixer

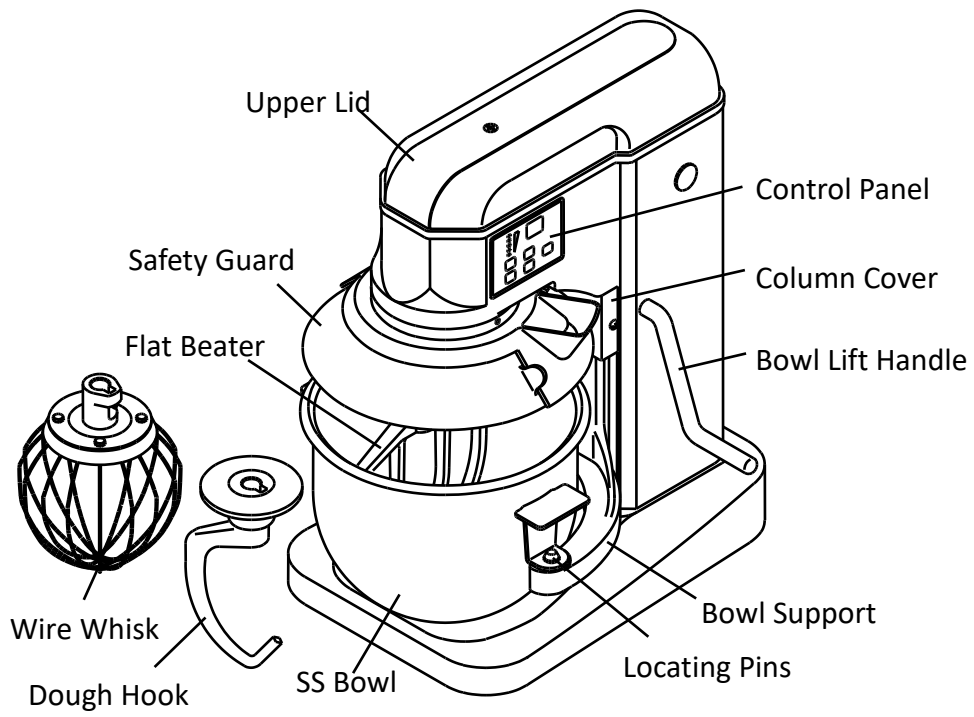
Installation & Operating Instructions



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Your Mixer



Metcalfe MP7 (7 Litre Heavy Duty Mixer)

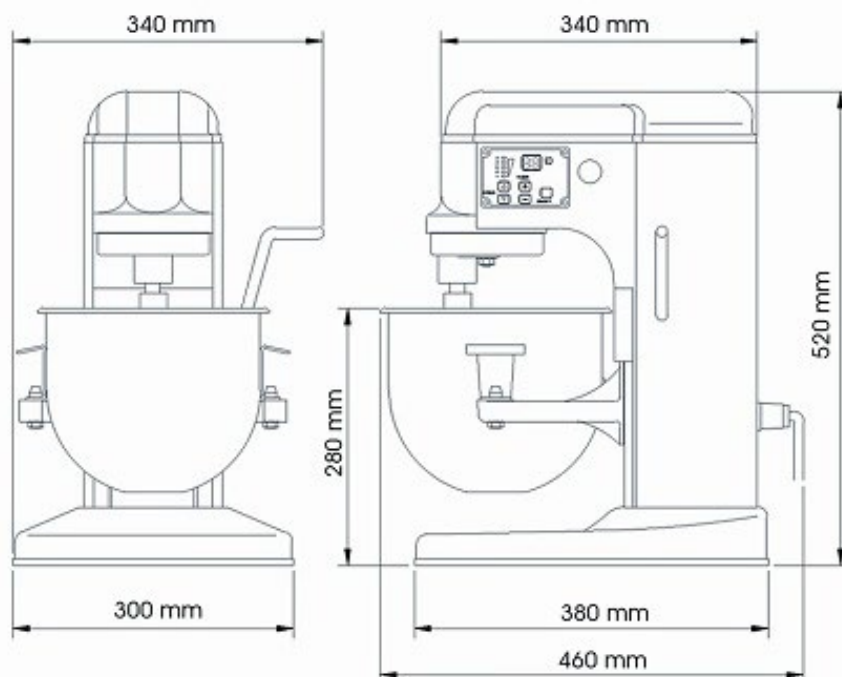
The Metcalfe MP7 planetary mixer has a powerful, variable speed motor. It comes complete with a 7 litre stainless steel removable bowl, beater, whisk and dough hook. It is also fully interlocked for safety whilst in use.

Features

- Heavy duty 7ltr, gear driven, countertop, planetary mixer
- Particularly suitable for bakeries, hotels, restaurants, canteens etc
- Easy to operate
- Planetary mixing action ensures perfect results
- High torque 600w motor allows mixing of stiffer doughs and larger batches
- Automatic electronic 5-speed control and digital timer
- All in one digital Control Panel
- 5 Variable speeds from 193 rpm to 495 rpm
- Non-stop shifting speed
- 30 minute timer
- Interlocking bowl guard and bowl lift
- Perspex safety guard with ingredient chute and automatic shut-off when guard is opened at any speed
- Overload protection (NVR device)
- Long lasting lubricant providing abrasion resistant transmission
- Transmission gears are made of heat treated, hardened steel
- All metal and die-cast aluminium body
- Quiet operation
- CE approved

Specifications

Model	Capacity (Litres)	Phase (Ø)	Motor (Volt)	Frequency (Hz)	Power (kW)	Dimensions D x W x H (mm)	Net Weight (Kg)
MP7	7	1	230	50	0.60	460 x 340 x 520	18



Installation

Unpacking

Unpack the mixer immediately after receipt. Please inspect the mixer to ensure no damage and all parts i.e. Bowl, Beater, Whisk & Dough Hook have been provided. If the machine is found to be damaged, keep all the packaging material and contact us immediately or contact your source of the equipment. Never attempt to operate the machine with damaged parts. Report any deficiencies to the dealer that supplied the machine.

You should receive with your mixer:

- 1 x Stainless Steel Bowl
- 1 x Beater
- 1 x Whisk
- 1 x Dough Hook

If any of the above items were not received with your mixer, please refer to page 13 for contact details and inform us immediately for replacements.

Before using the mixer please read this manual thoroughly. Do not proceed with any installation nor operation if you have any questions or do not understand anything within this manual. Please see contact details on page 13 for assistance.

Location

Select a location for the machine keeping these points in mind:

- Counter must be level - It is recommended that the machine is level from front to back and from side to side. This will ensure the greatest stability.
- Easy access for cleaning, maintenance and servicing
- Clearance for operating controls, installing and removing attachments and bowl
- Sufficient space for adding ingredients during mixing
- The surface must be able to support a load of 30kgs
- The rear ventilation outlet of the mixer must not be blocked.

Ambient Conditions

- The minimum requirement for all electrical equipment's correct operation is an air temperature of between +5°C and +40°C.
- Electrical equipment operates correctly when the relative humidity does not exceed 95% at a maximum temperature of +40°C.
- Electrical equipment operates correctly at altitude up to 1000m.
- Electrical equipment is designed to withstand and be protected against the effects of transportation, and storage temperature within a range of -25°C to +55°C and for short periods not exceeding 24h at up to +70°C.

Electrical Connection

- Before connecting the mixer to an electrical supply, please read the specifications on the rating plate to ensure that they comply with those of the electrical supply.
- The machine works off 220/240V 50Hz 1 phase supply and comes fitted with a 3-pin 13amp fused plug.
- An electrical supply should be available within the reach of the included power cord. **DO NOT** use extension cords to connect the machine's power cord to the electrical supply. The low AMP supply could damage the mixer or cause a fire.
- All wiring connections must be checked and tight.

Once the electrical connection has been made, the machine is ready for use.

Operation

Fitting the Bowl

NOTE: Install the bowl **BEFORE** attaching the agitator.

1. Lower the bowl lift handle anti-clockwise and down to its resting position.
2. Lift the bowl by the handles and slowly position the locking pin located at the rear of the bowl into the hole in the middle rear of the cradle.
3. Lower the bowl onto the pins located on either side of the bowl cradle.



Bowl Lift & Guard

Move the bowl lift handle anti-clockwise to lower the bowl. It is necessary to lower the bowl to change the tools, and to provide better access for filling and emptying the bowl. To raise the bowl, move the bowl lift handle clockwise until it hits the upper stops.

The bowl cradle and guard are electrically interlocked so that the mixer will only operate when the bowl is in the raised position. In addition to this the bowl safety guard must be locked by rotating into position (left to right) and the guard is locked in place. This ensures total user safety at all times.

Once the guard has been opened and the bowl lowered the mixer can only be restarted by pressing the start button.

During operation additional ingredients can be added via the ingredients chute located on the right-hand side of the bowl guard.

Tool Selection

The beater, whisk and dough hook are meant for the work implied by their names. Do not use the beater for dough making or the whisk for anything other than whisking, aerating or mixing light mixtures. These are the typical uses for each of the tools supplied:



Whisk

Light mixes such as whipped cream, mayonnaise, egg whites, pancakes and soufflés



Beater

Firm mixes such as light pastry, cakes, biscuits, icing, fillings and mashed vegetables



Dough Hook

Heavy mixes such as dough and pastry

Fitting Attachments

NOTE: Install the bowl **BEFORE** attaching the mixing tool.

NOTE: It is easier to install the attachment prior to adding ingredients into the bowl.

Open the bowl guard and lower the bowl.

Slide the attachment slowly upwards onto the planetary shaft, fitting the shaft pin through the slot in the attachment. (Figure A)

Rotate the attachment clockwise to secure it onto the planetary shaft.

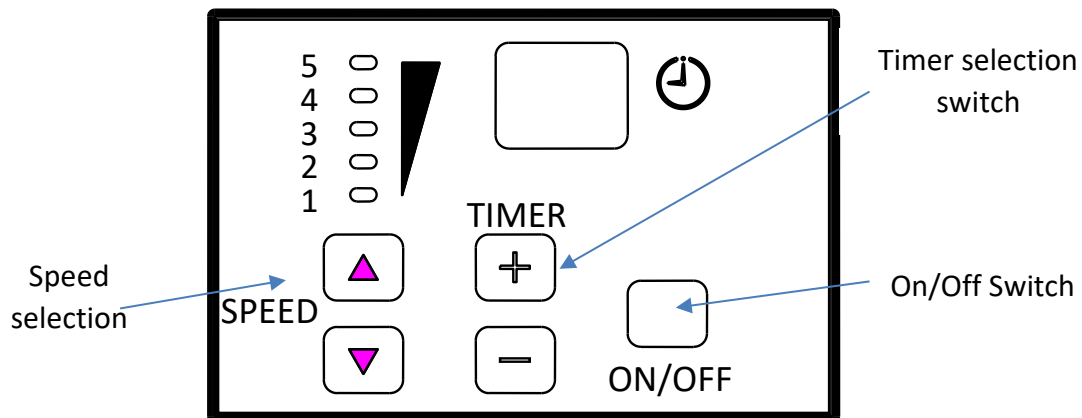
NOTE: Attachments should always rotate in a clockwise direction around the bowl. If an attachment is moving counter-clockwise please contact a licensed electrician immediately to remedy incorrect wiring.



(Figure A)

Operation

New mixers, bowls and agitators (beaters, whisks and dough hooks) should be thoroughly washed with hot water and mild soap solution and thoroughly rinsed with clean water before being used for the first time.



- Before you can start the machine, you will have to lift the bowl and close the perspex safety guard.
- Select time required if using the timer.
- Press on button to start the machine.
- The speed can be adjusted by pressing the up and down arrows on the panel.
 - Number 1 is the slowest speed and number 5 is the highest speed.
 - The speed selected depends largely on the quantity and consistency of the product. Slow Speed is for heavy mixtures such as dough, biscuits, etc. and High Speed is for fast, light work, such as whipping cream, beating eggs, and mixing thin substances.
 - It is recommended that mixing is always started at the lowest speed and progressively increased to the desired setting.

Speed 1 – For slow beating, mashing and kneading yeast dough.

Speed 2 – For mixing cookie and cake batters.




Speed 3 – For beating, creaming and medium fast whipping.

Speed 4 – For whipping heavy cream, egg whites and boiled frostings.

Speed 5 – For whipping small amounts of heavy cream and egg whites.

- Never place your hand or any kitchen utensil in the bowl whilst the mixer is in operation.
- Never operate this machine with safety covers removed or with safety switches inoperative.
- When mixing is complete, turn off the machine and lower the bowl by lift handle/lever then take off the attachment.
- Then take out the bowl together with attachment.
- Finally take out the mixed ingredients.
- Please follow the capacity chart on the following page. Overloading or not following the chart will damage the mixer and void the warranty.

Recommended Mixing Capacities

PRODUCT	MP7			
	Bowl size	7 litre		
Egg Whites	0.3 ltr	✓		
Mashed Potatoes	1.5 kg		✓	
Mayonnaise (Qts. Oil)	2 ltr	✓	✓	
Waffle/Pancake Batter	2.8 ltr		✓	
Whipped Cream	1.7 ltr	✓		
Fondant Icing	1 kg			
Cup / Layer Cake	2 kg		✓	
Pound Cake	2 kg		✓	
Sponge Cake	1.3 kg	✓		
Pie Dough	1.8 kg		✓	
Bread or Roll Dough (Light/Med, 60% AR)	1.8 kg			✓ 1 st only
Bread or Roll Dough (Heavy, 55% AR)	1.1 kg			✓ 1 st only
Thin Pizza Dough, Pasta, Basic Egg Noodle (40% AR) 5 min max mix time	0.8 kg			✓ 1 st only
Medium Pizza Dough (50% AR)	1.4 kg			✓ 1 st only
Thick Pizza Dough (60% AR)	0.9 kg			✓ 1 st only
Raised Donut Dough (65% AR)	0.8 kg			✓ 1 st & 2 nd
Whole Wheat Dough (70% AR)	1 kg			✓ 1 st & 2 nd

Mixing Heavy Dough

The moisture content of heavy dough is a critical factor when selecting the correct mixing speed. You should never use 2nd speed when mixing heavy dough with an Absorption Ratio (AR) of 50% or less.

To determine the Absorption Ratio (AR) of a product, divide the water weight by the flour weight.

Example: Calculate the Absorption Ratio of a mixture containing 50g of water and 100g of flour. $5 \div 10 = 0.50 = 50\% = \text{AR}$

1kg = 2.20462 lb ; 1 lb = 0.45359 kg

- If high gluten flour is used, reduce above dough batch size by 10 %
- Capacities listed are based on flour at room temperature and water at 20°C. If using chilled flour, water below 20°C, or ice, reduce batch size by 10%

Cleaning Instructions

ALWAYS disconnect from the power source when cleaning or servicing this machine.

ALWAYS remove the attachment/s after each batch. If not, the attachment/s can become stuck on the shaft and difficult to remove.

NEVER attempt to clean this machine while it is in motion, serious injury could result.

NEVER use a scrubber pad, steel wool, or abrasive material to clean the mixer.

NEVER use bleach or bleach based cleaner.

Recommended Cleaning

Part	Required Action	Frequency
Attachments	Hand wash using soap and water, rinse, dry and sanitise.	Clean after each use
Guard	Hand wash using soap and water, rinse, dry and sanitise.	When required
Bowl	Using a sponge or cloth, soap and water, apply pressure to ensure the bowl is clean, rinse, dry and sanitise. The bowl can also be placed in a dishwasher	Clean after each use
Bowl Guard	Hand wash using soap and water, rinse, dry and sanitise.	Clean after each use
Bowl Cradle	Hand wash using soap and water, rinse, dry and sanitise.	Daily
Planetary Shaft	Wipe with a clean damp cloth, dry & sanitise.	Clean after each use
Exterior	Hand wash using soap and water, rinse, dry and sanitise.	Daily
Hub Interior	Wipe with clean damp cloth, dry & sanitise.	Daily

Maintenance

Regular maintenance is necessary on all mixers if they are to run smoothly and problem free.

Part	Required Action	Frequency
Bowl Slide Rods	Apply food quality grease on the bowl slide rods. Raise and lower the bowl to distribute the grease onto the rods.	If the bowl becomes difficult to raise or lower.

Troubleshooting


Problem	Possible Causes	Action Required
Mixer will not turn	Bowl guard not in closed position	Rotate guard to the right until fully closed.
	Bowl not raised	Raise bowl to highest position.
	Power not connected correctly	Check all power connections. Plug into a live socket (<i>do not use extension cord!</i>). Test socket with another item.
	Building circuit breaker is off	Check breaker box
	Internal overload tripped	Wait two minutes. Press stop button then press start button. (<i>If overload continues to trip, reduce batch size and/or adjust recipe!</i>)
Mixing stops during mixing	Internal overload tripped	Wait two minutes. Press stop button then press start button. (<i>If overload continues to trip, reduce batch size and/or adjust recipe!</i>)
	Damaged or broken transmission belt	Replace belt
Mixer is noisy	Mixer is not installed on level surface	Adjust surface or relocate mixer
	Bowl not seated correctly	Ensure bowl is seated into bowl cradle correctly
	Attachment not fitted properly	Remove and re attach attachment into position correctly
	Overloading bowl	Reduce batch size (see capacity chart)
	Damaged or worn belt	Replace belt
	Planetary ring gear needs more grease	Technician to inspect for source of noise
Safety guard seized (will not move freely)	Clean & lubricate slide sheath	Technician must drop down planetary assembly to access mat & sheath
Attachments won't go onto the planetary shaft easily	Lack of lubrication and /or cleaning of the planetary shaft	Wipe planetary shaft with a clean damp cloth and lubricate the shaft with mineral oil or food quality grease
Mixing time is too long	Three-phase mixer is wired incorrectly	Attachments should rotate clockwise around bowl. If not, electrician must rewire
	Batch size too small	Increase batch size
Bowl lift sticking or not operational	Lack of lubrication on bowl slides	Lubricate bowl slides with food quality grease. If still sticking, technician must clean bowl lift mechanism
Mixer will not mix medium or heavy loads	Incorrect or low voltage	Contact electrician

Problem	Possible Causes	Action Required
Attachments touching bottom or sides of bowl	Defective or dented bowl	Remove dents or replace bowl
	Defective attachment	Replace attachment
Broken whisk wires	Batch size too large for mixer Items too firm Speed too high	Reduce batch size (see Capacity Chart) Adjust recipe Reduce speed
	Hand utensil dropped into bowl while mixing	Stop mixer before working on mixture
Broken beater	Ingredients too cold or too large (e.g. frozen butter/cream cheese cut in chunks)	Wait for ingredient to reach room temperature before mixing Reduce chunk size
Broken dough hook	Batch size too large for mixer	Reduce batch size (see Capacity Chart) Adjust recipe
	Ingredients too cold or too large	Wait for ingredients to reach room temperature before mixing Reduce chunk size
Discoloration of mixed product	Bowl has not been cleaned thoroughly	Clean bowl again (refer to page 10)

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 rear of the machine.

			
metcalfe TM			
Tel: +44 (0)1766 830 456		Fax: +44 (0)1766 831 170	
Serial No:			
Model:		Phase:	
V	Hz	W	
M:	Yr:	Kg	

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

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 specially 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) are covered by a 2-year warranty (1st year parts and labour, 2nd year parts only) and full after sales service.

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

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

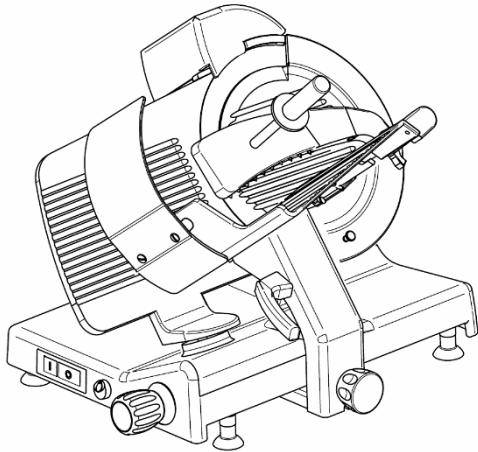
- Mixer attachments (beater, whisk and dough hook)
- Parts purchased or supplied for the repair of Metcalfe equipment

This warranty does not cover the following:

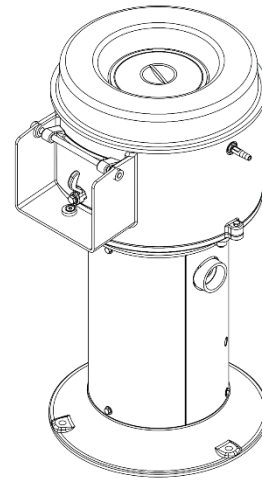
- Failure due to neglect, abuse, careless handling or misuse of machine
- Failure caused due to improper maintenance
- Blender clutches
- Knives and gears on can openers
- Sharpening of slicer blades
- General wear and tear

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

Some other products in the Metcalfe portfolio:



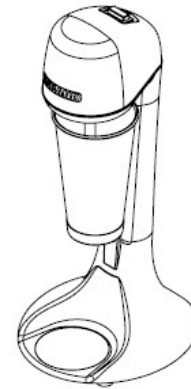
NS Slicer Range



Peeler Range



Ceado



Roband



Food Preparation Machines

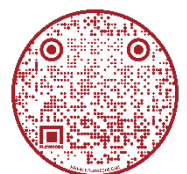
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halde.com

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