

## Metcalfe Catering Equipment Ltd

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## **METCALFE SM5 & SM7 PLANETARY MIXER**

# **Operating & Maintenance Instructions**









## **SM5 PROFESSIONAL PLANETARY MIXER**

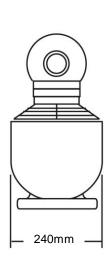
The Metcalfe SM5 Mixer is a professional planetary machine with a powerful, variable speed motor. The SM5 comes complete with a 5 litre stainless steel removable bowl, beater, whisk and dough hook. It is also fully interlocked for safety whilst in use.

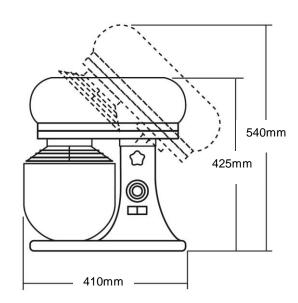
## **FEATURES**

- Head lifts for easy bowl and tool removal
- Removable 5 litre stainless steel bowl
- Beater, whisk and dough hook
- Constant mixing with step-less speed control
- Variable speed DC motor
- Gear drive, planetary transmission
- Overload protection (NVR device)
- Wire safety guard to allow easy addition of liquid to the mixer bowl

## **TECHNICAL SPECIFICATIONS**

Weight (kg)	Speed of Shaft (r/min)	Electrical Supply	Power (w)	Dimensions (mm)
16	75-660	230V 50Hz	200	410 x 240 x 425





## **Capacity (Maximum loads)**

Sponge mix	0.9 kg	Liquid/flour mix	0.9 kg
Eggs	12	Croissant	1 kg
Brioche	1 kg	Pizza	0.5 kg
Mash	1.3 ka		

## **SM7 PROFESSIONAL PLANETARY MIXER**

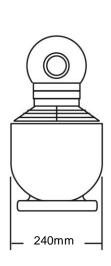
The Metcalfe SM7 Mixer is a professional planetary machine with a powerful, variable speed motor. The SM7 comes complete with a 7 litre stainless steel removable bowl, beater, whisk and dough hook. It is also fully interlocked for safety whilst in use.

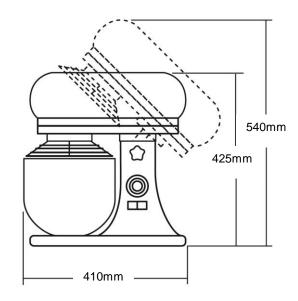
## **FEATURES**

- · Head lifts for easy bowl and tool removal
- Removable 7 litre stainless steel bowl
- Beater, whisk and dough hook
- Constant mixing with step-less speed control
- Variable speed DC motor
- Gear drive, planetary transmission
- Overload protection (NVR device)
- Wire safety guard to allow easy addition of liquid to the mixer bowl

## **TECHNICAL SPECIFICATIONS**

Weight (kg)	Speed of Shaft (r/min)	Electrical Supply	Power (w)	Dimensions (mm)
18	75-660	230V 50Hz	280	410 x 240 x 425





# **Capacity (Maximum loads)**

Sponge mix	1.1 kg	Liquid/flour mix	1.1 kg
Eggs	14	Croissant	1.3 kg
Brioche	1.3 kg	Pizza	0.7 kg
Mach	1 5 kg		

#### **OPERATION**

The machine works off 230volt 50Hz 1Phase supply, and comes fitted with a 3-pin 13amp fused plug.

**Installation of attachments**: Loosen securing knob on side, raise head and lock in place using securing knob. Place attachment on shaft and turn 45<sup>1</sup>/<sub>2</sub> counter clockwise.

**Installation of stainless steel bowl**: Place bowl on bowl seat and turn bowl to lock into position.

**Procedure for starting machine**: After ingredients have been placed in the bowl, lower the head and tighten the securing knob, turn speed control switch to lower setting, turn on machine by pressing green "start" button, and then set required speed gradually after attachment is lowered. When operation is complete, turn speed control switch to lower setting, then press red "off" switch.

## **ACCESSORIES & FUNCTIONS**

Wire whisk: used for stirring liquid ingredients, such as cream and eggs.

**Beater:** used for stirring batters, powder and shredded ingredients, such as fillings.

**Dough Hook:** used for stirring more sticky ingredients, such as dough.

#### **SAFETY NOTES**

Always unplug the machine from the mains when not in use.

Do not place your hand into the mixing bowl during operation.

Please clean the attachments by using hot, soapy water – **do not place them** in a dishwasher.

Do not operate the machine beyond the limited time to avoid reducing its service life.

Do not lift head or move machine by using the wire safety guard.

The machine should be mounted on a stable and clean surface. Keep it away from heated or wet conditions, and away from equipment which have strong electromagnetic fields or which can produce such conditions.

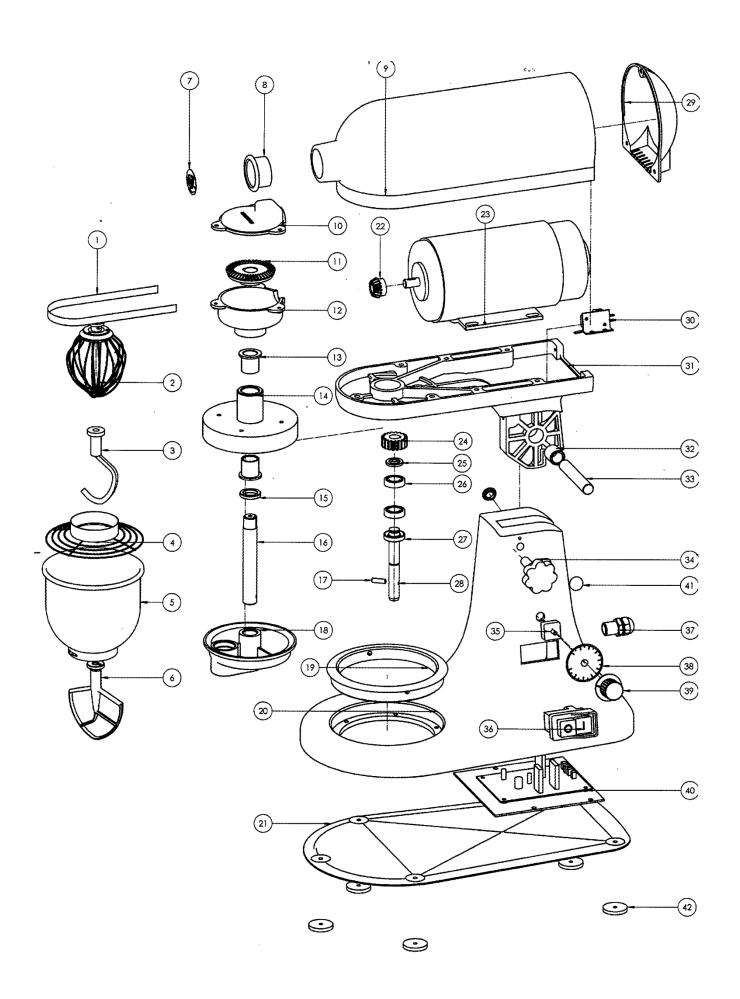
Keep the machine in a clean condition at all times. Make sure it is unplugged prior to cleaning. Use only a soft wet cloth. Do not use any harsh or spray detergents.

#### **TROUBLESHOOTING**

Fault	Problem	Solution
Shaft will not rotate	Power is connected incorrectly	Check the plug
when machine on	Fuse has blown	Replace fuse (13amp)
Motor is	Voltage is too low	Check voltage
overheating and	Overload	Reduce amount of ingredients
rotating speed slows down	Incorrect attachment is fitted	Choose correct attachment
Attachments hit inside of bowl	Attachment is misshapen	Check attachment

WARNING – IF EQUIPMENT DOES NOT WORK, PLEASE ENSURE IT IS SERVICED BY A METCALFE APPOINTED ENGINEER

# **BREAKDOWN DRAWING**



# **SM PARTS LIST**

Item	Part Number	Part Name
1	SM57/50402004	Long labels
_	SM7/50402115	
2	SM57/40102800	Wire whip
3	SM57/40102000	Hook
	SM5/40101800	SM5 Safety Guard
4	SM7/40200100	SM7 Safety Guard (Wire)
	SM7/50405382	SM7 Safety Guard (Plastic)
5	SM5/50401001	Bowl (SM5)
	SM7/50401016	Bowl (SM7)
6	SM57/40101900	Flat beater
7	SM57/50402071	Round stickers
8	SM57/50405014	Front cover
9	SM57/40100800	Cover
10	SM57/50405003	Upper cover of gear
11	SM57/50405008	Large spiral bevel gear
12	SM57/50405006	Lower cover of gear
13	SM57/50405005	Gear set
14	SM57/40100500	Inner gear
15	SM57/40101400	Ring gear lining
16	SM57/40100900	Gear shaft
17	SM57/50306015	Pin 5x16
18	SM57/40101000	Operations frame
19	40100700	Bowl seat
20	40100100	Base
21	SM57/50405007	Toe-boards

Item	Part Number	Part Name
22	SM57/50405076	Small spiral bevel gear
23	SM5/50501004	Motor (SM5)
	SM7/50501006	Motor (SM7)
24	SM57/40101200	Planet gear
25	50404010	Planet gear pad
26	SM57/50301018	Bearing 6901
27	SM57/50310001	Oil seal 24x12x5
28	SM57/40101300	Planet shaft
29	SM57/50405013	Back cover
30	SM57/50506057	Distance switch
31	SM5/40100400	Rotating base
32	SM57/50405004	Shaft set
33	SM57/40100300	Rotating shaft
34	SM57/50405070	Plum wrench 40x10x35
35	SM57/50506068	Potentiometer
36	SM57/50506072	Power switch
37	SM57/50514001	Waterproof joint PG9
38	SM57/50402088	Speed mark
39	SM57/50506042	Speed control
40	SM5/50508012	PCB (SM5)
70	SM7/50508009	PCB (SM7)
41	50405019	Rotating Shaft Cover
42	SM57/50405189	Rubber Mat



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#### **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 to 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, 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.

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

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



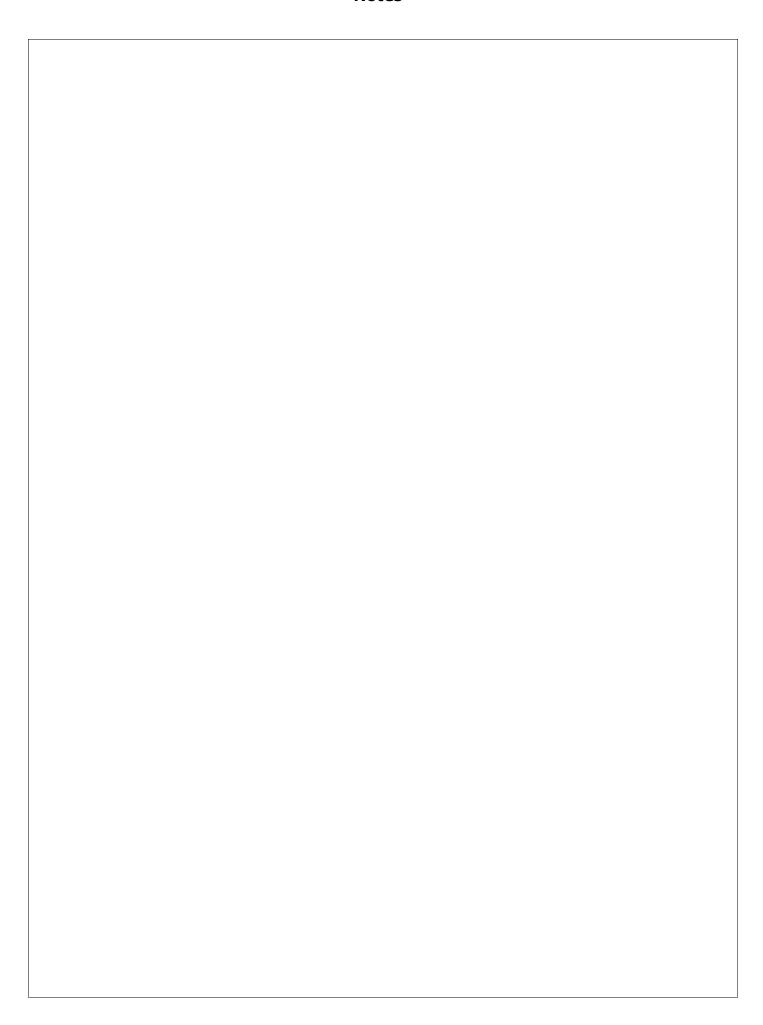




# Notes

# Notes

# **Notes**



# **Electrical PAT Certificate**

Test Detail	Results
Item:	
Class:	Class 1 / Class 2
Date:	/ /
Appliance ID:	
User ID:	M.C.E.
Visual:	
Earth Current:	amps
Class 1 Earth Result/RPE:	Ω
RISO:	МΩ
1 EA:	MA
Class 2 RISO:	МΩ
1 EA:	MA
Insulation (500V):	МΩ
Load:	KVA
Leakage:	MA
Polarity (leads only):	

	Test Detail	Results
Item:		
Class:		Class 1 / Class 2
Date:		/ /
Appliance	e ID:	
User ID:		M.C.E.
Visual:		
Earth Cur	rent:	amps
Class 1	Earth Result/RPE:	Ω
	RISO:	МΩ
	1 EA:	MA
Class 2	RISO:	МΩ
	1 EA:	MA
Insulation	(500V):	МΩ
Load:		KVA
Leakage:		MA
Polarity (I	eads only):	

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Class 1	Earth Result/RPE:	Ω
	RISO:	МΩ
	1 EA:	MA
Class 2	RISO:	MΩ
	1 EA:	MA
Insulation (500V):		MΩ
Load:		KVA
Leakage:		MA
Polarity (leads only):		

Test Detail		Results
Item:		
Class:		Class 1 / Class 2
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Appliance ID:		
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Earth Current:		amps
Class 1	Earth Result/RPE:	Ω
	RISO:	МΩ
	1 EA:	MA
Class 2	RISO:	МΩ
	1 EA:	MA
Insulation (500V):		МΩ
Load:		KVA
Leakage:		MA
Polarity (leads only):		