

Charlton®



1200/1600W PADDLE MIXERS

MODEL NO: PM1200 & PM1600

PART NO: 6479560 6479565

OPERATING & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC10/23

INTRODUCTION

Thank you for purchasing this CLARKE Paddle Mixer.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

SPECIFICATIONS

| | PM1200 | PM1600 |
|--------------------------------|------------------------|-------------------|
| Product Dimensions (L x W x H) | 840 X 330 X 195 mm | 880 x 330 x 195mm |
| Weight | 4.45 kg | 5.2 kg |
| Chuck connection | M14 female thread | |
| Paddle length | 590mm (fitted) | |
| IP Rating | IPX0 | |
| Rated Voltage / Frequency | 230 V / 50 Hz | |
| Input Wattage | 1200 W | 1600 W |
| Input Ampere (typical load) | 4.45 A | 7.4 A |
| Rated No Load Spindle Speed | 0-750 rpm (variable) | 0-600/ 0-900 rpm |
| Duty Cycle Classification | S1 (continuous) | |
| Sound pressure | 92 dB (A) | |
| Sound Power Measured (Lwa dB) | 100 dB (A) | |
| Guaranteed sound power level | 103 dB (A) | |
| Uncertainty factor | 3.0 dB | |
| Vibration (handle) | 3.157 m/s ² | |
| Uncertainty factor | 1.5 m/s ² | |

GENERAL SAFETY PROCEDURES



CAUTION: FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN PERSONAL INJURY, AND/OR DAMAGE TO PROPERTY.

WORK ENVIRONMENT

1. Keep the work area clean, tidy and well lit. Cluttered and dark areas invite accidents
2. DO NOT operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

PERSONAL SAFETY

1. Stay alert, watch what you are doing and use common sense when operating a power tool. DO NOT use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in personal injury.
2. Avoid accidental starting. Ensure the switch is in the off position before plugging in. Plugging in power tools that have the switch on invites accidents.
3. DO NOT overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
4. Dress properly. DO NOT wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
5. Gloves, manufactured to the current UK & European safety standards should be worn.
6. Eye protection manufactured to the current UK & European safety standards should be worn when operating rotating equipment. Eye protection must provide protection from flying particles from the front and the side.

GENERAL USE AND CARE OF POWER TOOLS

1. ALWAYS check for any damage or condition that could affect the machine's operation. Any damaged part should be properly repaired.
2. NEVER use the mixer if it is defective or operating abnormally.

3. NEVER abuse the mains power cable. Never yank the cable to disconnect it from the socket. Keep the cable away from sharp edges/hot surfaces.
4. NEVER carry out any alterations or modifications to this product.
5. NEVER wipe the machine clean with solvents. Wipe plastic parts with a soft cloth, slightly dampened with soapy water.
6. NEVER attempt any repairs yourself. If you have a problem with this product contact your local CLARKE dealer.
7. DO NOT use the machine for any purpose than that described in this manual.
8. ALWAYS maintain the machine with care. Keep it clean for the best and safest performance.
9. DO NOT force a power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate which it was designed.
10. DO NOT use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
11. Store idle tools out of the reach of children and DO NOT allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
12. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
13. Use the power tool and accessories in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could result in a hazardous situation.

ELECTRICAL SAFETY

1. Power tool plugs must match the outlet. NEVER modify the plug in any way. DO NOT use adapter plugs with earthed (grounded) power tools. Correct plugs and matching outlets will reduce the risk of electric shock.
2. DO NOT abuse the cable. NEVER use it for carrying, pulling or unplugging the power tool. Keep the cable away from heat, oil, sharp edges or moving parts. Damaged or entangled cables increase the risk of electric shock.
3. DO NOT expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock. If operating the power

tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.

4. When operating a power tool outdoors, use an extension cable suitable for outdoor use. Use of a cable suitable for outdoor use reduces the risk of electric shock.

ADDITIONAL PRECAUTIONS FOR PAINT MIXERS

1. NEVER use third party mixing attachments. Replacement parts can be obtained from you CLARKE dealer.

Please keep these instructions in a safe place for future reference.

SAFETY SYMBOLS

The meanings of the markings and symbols on the product are shown below

| | | | |
|---|---|---|---|
|  | Read this manual before use and keep in a safe place for future reference |  | Wear eye protection when using this product |
|  | Wear ear protection when using this product |  | Wear protective clothing |

ENVIRONMENTAL PROTECTION



Do not dispose of this product with general household waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of according to the laws governing Waste Electrical and Electronic Equipment.

Through the purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

ELECTRICAL CONNECTIONS



WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS FULLY BEFORE CONNECTING THE MACHINE TO THE MAINS SUPPLY.

This product is provided with a standard 13 amp, 230 volt (50Hz), BS 1363 plug, for connection to a standard, domestic electrical supply. Should the plug need changing, make sure that a plug of identical specification is used.

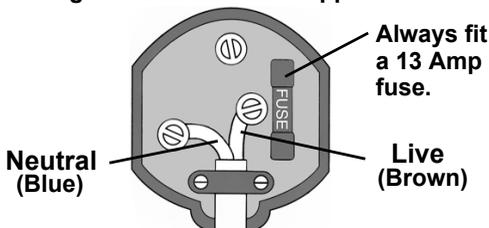


**WARNING: THE WIRES IN THE CABLE ARE COLOURED AS FOLLOWS:
BLUE = NEUTRAL BROWN = LIVE**

If the colours of the wires in the power cable do not correspond with the markings on the terminals of your plug, proceed as follows.

- Connect the **blue** wire to the terminal which is marked **N**.
- Connect the **brown** wire to the terminal which is marked **L**.

Plug must be BS1363/A approved.



make sure that the outer sheath of the cable is firmly held by the clamp

We recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

If in doubt, consult a qualified electrician. **DO NOT** attempt any repairs yourself

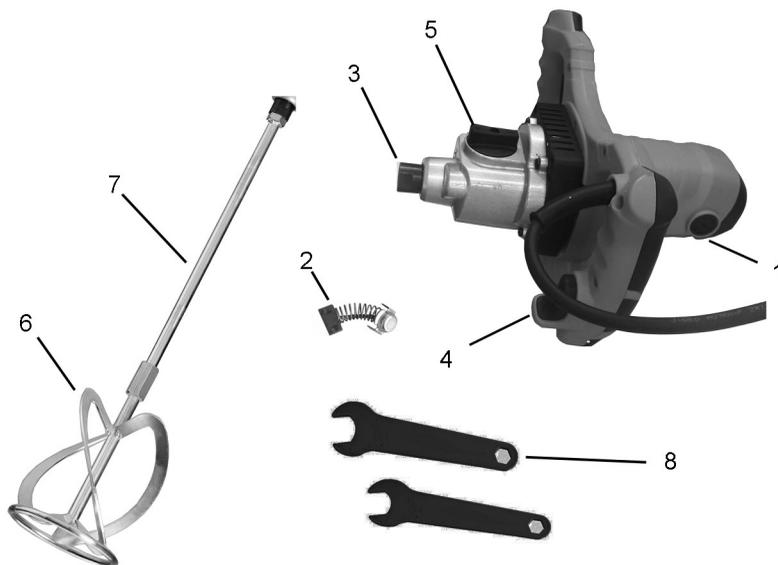


This symbol indicates that this is a Class II product, and does not require an earth connection.

CABLE EXTENSIONS

Always use an approved cable extension suitable for the power rating of this tool (see specifications), the conductor size should also be at least the same size as that on the machine, or larger. When using a cable reel, always unwind the cable completely

OVERVIEW



| No | Description |
|----|----------------------------|
| 1 | Carbon brush cover |
| 2 | Replacement carbon brushes |
| 3 | Tool holder |
| 4 | Safety trigger |

| No | Description |
|----|----------------------------------|
| 5 | Dual Speed control (PM1600 only) |
| 6 | Mixing paddle |
| 7 | Drive shaft |
| 8 | Spanners |

The items above are supplied loose in the carton. If any are missing or damaged please contact the CLARKE dealer where you purchased the product.

BEFORE USE



WARNING: BEFORE REMOVING, OR INSTALLING THE MIXING BLADE, MAKE SURE THAT THE MAINS PLUG HAS BEEN REMOVED FROM THE MAINS POWER SUPPLY.

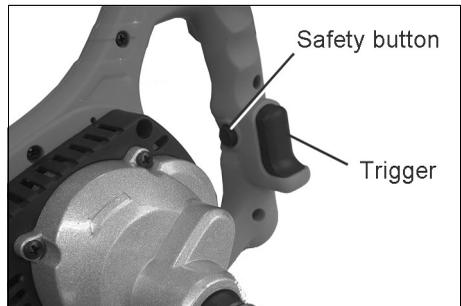
FITTING THE MIXING BLADE

1. Screw the mixing blade shaft into the tool holder.
2. Use the two spanners supplied to tighten the mixing blade locking nut as shown.
3. Screw the mixing paddle to the other end of the drive shaft and tighten with the spanners.



SWITCHING ON AND OFF

1. Ensure the mixing container is securely positioned on the floor.
2. Dip the mixing paddle into the substance to be mixed.
3. Set the speed control to low speed
4. Always hold the mixer with both hands.
5. Press and hold the safety trigger interlock button, then squeeze the trigger switch. Gradually increase the mixing speed to the desired maximum speed (so that the substance will not splash around and the motor will not be overloaded).



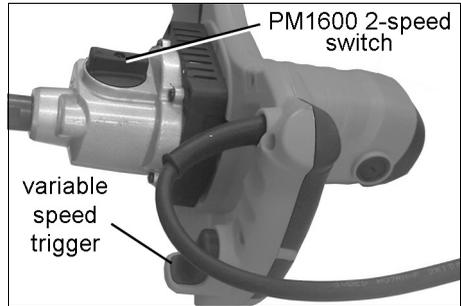
WARNING: THE MIXING BLADE WILL CONTINUE TO RUN FOR A SHORT PERIOD AFTER THE TRIGGER SWITCH HAS BEEN RELEASED. WAIT FOR IT TO STOP BEFORE REMOVING THE MIXING BLADE FROM THE MATERIAL BEING MIXED.

6. To stop, release the trigger switch before removing from the substance being mixed.
7. Disconnect the power supply and clean off the mixing paddle.

VARIABLE SPEEDS

The PM1200 trigger switch offers variable speed control by squeezing harder to increase the speed.

The PM1600 has two speed settings in addition to the variable speed trigger, and possesses a soft start feature.



CARE & MAINTENANCE

GENERAL MAINTENANCE

1. After use, clean the mixing blades and allow to dry.
2. Keep the unit clean and free from build up of any residual media material.

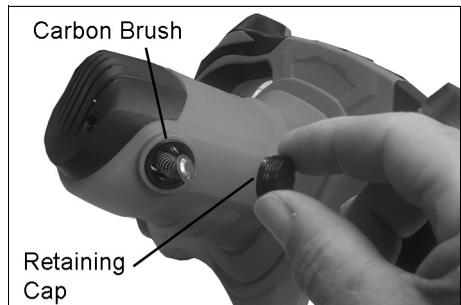
The drive motor and bearings are sealed units and require no regular maintenance. Should you require assistance, contact your local CLARKE service agent.

With the exception of changing the carbon brushes, there are no other user serviceable parts on this mixer.

Always have any damaged or worn parts repaired or replaced by qualified service personnel.

CHANGING THE CARBON BRUSHES

1. Remove the dust caps from the top and bottom of the mixer.
2. Remove the brush caps using a flat bladed screwdriver.
3. Remove the old carbon brushes and replace it with a new ones (a spare pair of brushes is supplied).



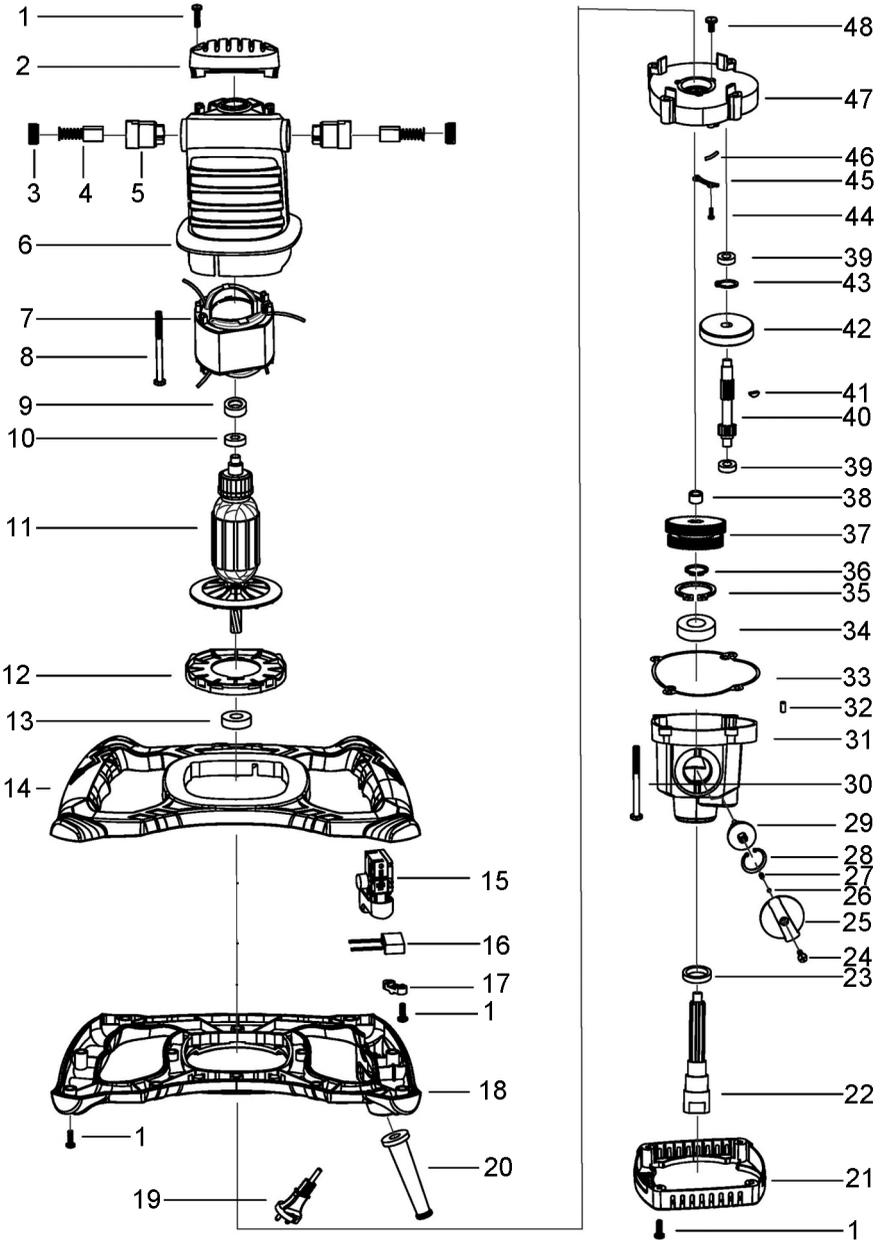
CLEANING & STORAGE

Clean the exterior the machine if required using a mild detergent. Never immerse the machine in water.

To reduce overheating, keep the cooling vents free of debris.

Store the machine in a clean, dry location, out of reach of children.

COMPONENT PARTS-PM1600

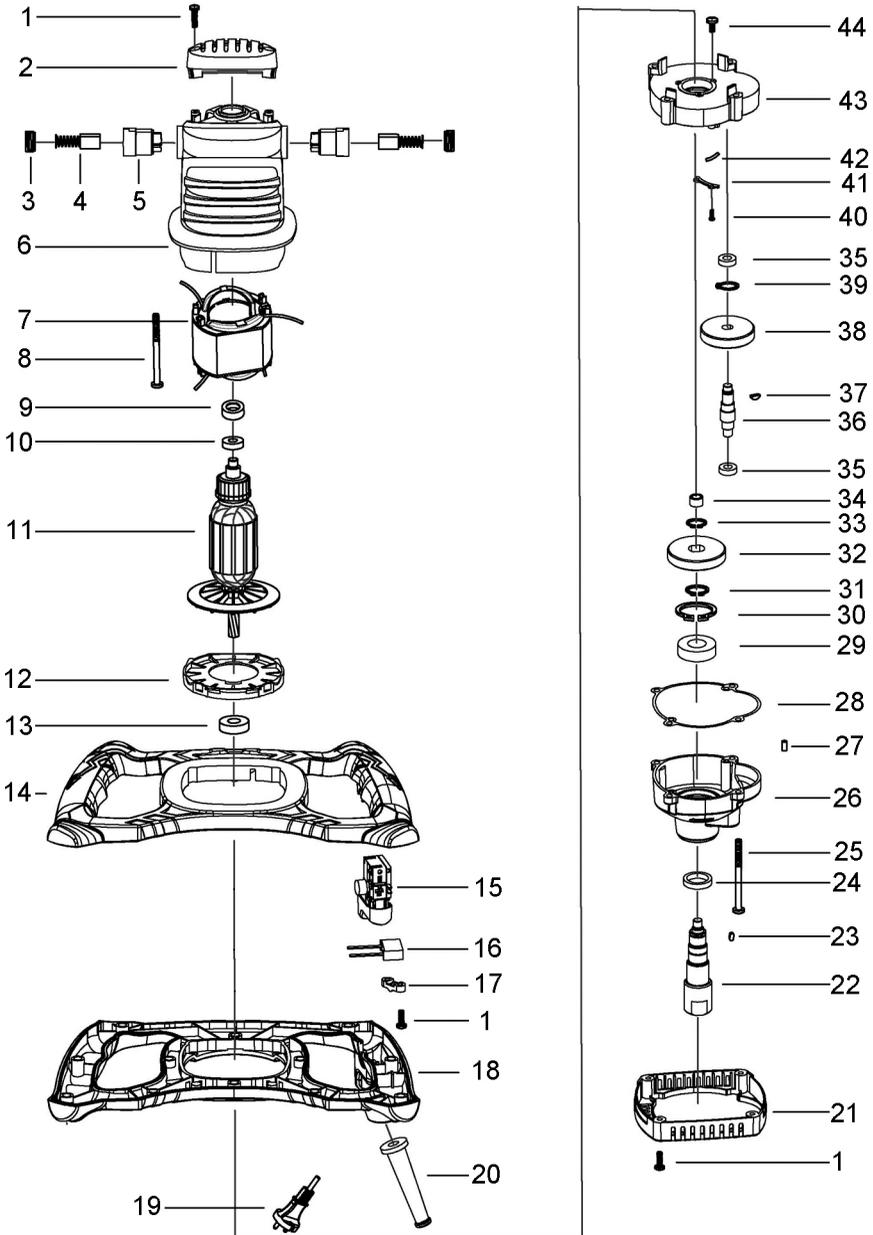


COMPONENT PARTS - PM1600

| No | Description |
|----|--------------------|
| 1 | Screw ST3.9x13 |
| 2 | Rear cover |
| 3 | Carbon brush cover |
| 4 | Carbon brush |
| 5 | Brush holder |
| 6 | Housing |
| 7 | Stator |
| 8 | Screw ST4.8x60 |
| 9 | Bearing holder 22 |
| 10 | Bearing 608 |
| 11 | Rotor |
| 12 | Fibre sealing ring |
| 13 | Bearing 6001 |
| 14 | Upper handle |
| 15 | Switch |
| 16 | Capacitor |
| 17 | Cable clamp |
| 18 | Lower handle |
| 19 | Plug |
| 20 | Cable Sheath |
| 21 | Fan cover |
| 22 | Spindle |
| 23 | Oil port cover |
| 24 | Screw M4x14 |

| No | Description |
|----|---------------------------|
| 25 | Speed shift knob |
| 26 | Steel ball |
| 27 | Spring |
| 28 | Circlip 28 |
| 29 | Bush |
| 30 | Screw st4.8x50x25 |
| 31 | Gearbox |
| 32 | Pin |
| 33 | Oil seal gasket |
| 34 | Bearing 6003 |
| 35 | Circlip 35 |
| 36 | Circlip 17 |
| 37 | Second driven gear |
| 38 | Bearing 607 |
| 39 | Second connecting spindle |
| 40 | Key 3x10 |
| 41 | Helical gear |
| 42 | Circlip 10 |
| 43 | Bearing 698 |
| 44 | Screw M3x8 |
| 45 | Connector |
| 46 | Oil seal |
| 47 | Middle cover |
| 48 | Screw M4x6 |

COMPONENT PARTS-PM1200



COMPONENT PARTS - PM1200

| No | Description |
|----|--------------------|
| 1 | Screw ST3.8x13 |
| 2 | Rear cover |
| 3 | Carbon brush cover |
| 4 | Carbon brush |
| 5 | Brush holder |
| 6 | Housing |
| 7 | Stator |
| 8 | Screw ST4.8x55 |
| 9 | Upper handle |
| 10 | Speed control |
| 11 | Corner moulding |
| 12 | Lower handle |
| 13 | Bearing holder |
| 14 | Bearing 608 |
| 15 | Rotor |
| 16 | Capacitor |
| 17 | Cable clamp |
| 18 | Handle |
| 19 | Cable plug |
| 20 | Cable sleeve |
| 21 | Fan cover |
| 22 | Spindle |

| No | Description |
|----|--------------------|
| 23 | Key 5x10 |
| 24 | Oil seal |
| 25 | S/t Screw 4.8x50 |
| 26 | Gearbox |
| 27 | Pin |
| 28 | Oil seal gasket |
| 29 | Bearing 6003 |
| 30 | Circlip 35 |
| 31 | Circlip 17 |
| 32 | Large gear |
| 33 | Circlip 14 |
| 34 | Bearing HK0808 |
| 35 | Bearing 698 |
| 36 | Primary gear shaft |
| 37 | Woodruff key |
| 38 | Helical gear |
| 39 | Shaft ring 10 |
| 40 | Screw M3x8 |
| 41 | Oil cover |
| 42 | Connector |
| 43 | Middle cover |
| 44 | Screw M4x6 |

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended. Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

DECLARATIONS OF CONFORMITY - PM1600





Hemmill Street, Epping, Essex, CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

The Electromagnetic Compatibility Regulations 2016
The Supply of Machinery (Safety) Regulations 2008
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The following standards have been applied to the product(s):

EN 55014-1:2021, EN 55014-1:2017/A11:2020, EN 55014-2:2021,
 EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A1:2019, EN 62841-1:2015,
 EN 62841-2-10:2017, EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014,
 EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015,
 EN 62321-7-2:2017, EN 62321-8:2017

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The UKCA mark was first applied in: 2023

| | |
|----------------------|----------------------------------|
| Product Description: | Paddle Mixers |
| Model Number(s): | PM1200 & PM1600 |
| Serial/Batch Number: | Refer to product/packaging label |
| Date of Issue: | 11/09/2023 |

Signed: 
 J.A. Clarke
 Director

PM1600 UKCA, Clarke DOC 091123 Page 1 of 1





Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

2014/30/EU *Electromagnetic Compatibility Directive*
 2006/42/EC *Machinery Directive*
 2011/65/EU *Restriction of Hazardous Substances (RoHS) Directive*

The following standards have been applied to the product(s):

EN 55014-1:2021, EN 55014-1:2017/A11:2020, EN 55014-2:2021,
 EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A1:2019, EN 62841-1:2015,
 EN 62841-2-10:2017, EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014,
 EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015,
 EN 62321-7-2:2017, EN 62321-8:2017

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2023

| | |
|----------------------|----------------------------------|
| Product Description: | Paddle Mixers |
| Model Number(s): | PM1200 & PM1600 |
| Serial/Batch Number: | Refer to product/packaging label |
| Date of Issue: | 11/09/2023 |

Signed: 
 J.A. Clarke
 Director

PM1600 CE Clarke DOC 091123 Page 1 of 1

DECLARATION OF CONFORMITY - PM1200



Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

- 2014/30/EU Electromagnetic Compatibility Directive
- 2006/42/EC Machinery Directive
- 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive

The following standards have been applied to the product(s):

- EN 55014-1:2021, EN 55014-1:2017/A1:2020, EN 55014-2:2015, EN 55014-2:2021,
- EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-2:2013/A1:2019, EN 62841-1:2015,
- EN 62841-2-10:2017, EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014,
- EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015,
- EN 62321-7-2:2017, EN 62321-8:2017

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2023

Product Description: Paddle Mixers
 Model Number(s): PM1200 & PM1600
 Serial/Batch Number: Refer to product/packaging label
 Date of Issue: 11/09/2023

Signed:

J.A. Clarke
 Director

PM1200 CE Clarke DOC 091123

Page 1 of 1



Hemmill Street, Epping, Essex, CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

- The Electromagnetic Compatibility Regulations 2016
- The Supply of Machinery (Safety) Regulations 2008
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The following standards have been applied to the product(s):

- EN 55014-1:2021, EN 55014-1:2017/A1:2020, EN 55014-2:2015, EN 55014-2:2021,
- EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-2:2013/A1:2019, EN 62841-1:2015,
- EN 62841-2-10:2017, EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014,
- EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015,
- EN 62321-7-2:2017, EN 62321-8:2017

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The UKCA mark was first applied in: 2023

Product Description: Paddle Mixers
 Model Number(s): PM1200 & PM1600
 Serial/Batch Number: Refer to product/packaging label
 Date of Issue: 11/09/2023

Signed:

J.A. Clarke
 Director

PM1200 UKCA Clarke DOC 091123

Page 1 of 1

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS



AIR COMPRESSORS

From DIY to industrial, Plus air tools, spray guns and accessories.

GENERATORS

Prime duty or emergency standby for business, home and leisure.

POWER WASHERS

Hot and cold, electric and engine driven - we have what you need

WELDERS

Mig, Arc, Tig and Spot. From DIY to auto/industrial.

METALWORKING

Drills, grinders and saws for DIY and professional use.

WOODWORKING

Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS

Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS

Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS

Angle grinders, cordless drill sets, saws and sanders.

STARTERS/CHARGERS

All sizes for car and commercial use.



PARTS & SERVICE: 0208 988 7400

Parts Enquiries
Parts@clarkeinternational.com

Servicing & Technical Enquiries
Service@clarkeinternational.com

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

Clarke INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com