

CLAMPRO®

METALWORKER



MULTI PURPOSE SHARPENER

MODEL NO: CMPS1

PART NO: 6480235

OPERATION & MAINTENANCE INSTRUCTIONS



GC1112

INTRODUCTION

Thank you for purchasing this CLARKE multi-purpose sharpener.

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.

IMPORTANT

Please read all of the safety and operating instructions carefully before using this product. Please pay particular attention to all sections of these instructions that display warning symbols and notices.



WARNING! This symbol is used throughout the user guide whenever there is a risk of personal injury. Ensure that these warnings are read and understood at all times.

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.

GENERAL SAFETY RULES



WARNING: WHEN USING ELECTRIC TOOLS, MACHINES, OR EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY.

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries. Keep work area well lit.
2. **NEVER** use power tools in damp, wet, or poorly lit locations. Don't expose to rain. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. **KEEP CHILDREN AWAY.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cable.
4. **STORE IDLE EQUIPMENT.** When not in use, tools must be locked up in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **DO NOT FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended.
6. **DRESS PROPERLY.** Do not wear loose clothing or jewellery which could be caught in moving parts.
7. **USE EYE AND HAND PROTECTION.** Always wear approved impact safety goggles.
8. **DO NOT ABUSE THE POWER CABLE.** Do not yank it to disconnect it from the socket. Do not carry tools by the cable.
9. **DISCONNECT POWER.** Unplug when not in use, before servicing, and when changing accessories.
10. **AVOID UNINTENTIONAL STARTING.** Be sure the switch is in the OFF position when not in use and before plugging in.
11. **STAY ALERT.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
12. **CHECK DAMAGED PARTS.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Do not use the tool if the switch does not turn on and off properly.
13. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces such as pipes, radiators.
14. **REPLACEMENT PARTS AND ACCESSORIES.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool.
15. **DO NOT OPERATE TOOL IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.** If there is any doubt, do not operate the tool.
16. **KEEP AWAY FROM LIQUIDS.** Tool is designed for dry sharpening operations only.
17. **HEAT PRODUCED WHEN SHARPENING.** The sharpening head and any bits or tools being sharpened will become hot. Be careful when handling; allow drill bits & tools to cool before storing.

ELECTRICAL CONNECTIONS



WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.

This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

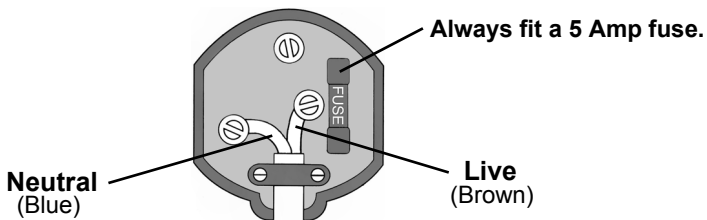


**WARNING! The wires in the power cable of this product are coloured in accordance with the following code:
Blue = Neutral Brown = Live**

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

- The wire which is coloured **Blue** must be connected to the terminal which is marked **N** or coloured **Black**.
- The wire which is coloured **Brown** must be connected to the terminal which is marked **L** or coloured **Red**.

Plug must be BS1363/A approved.



Ensure that the outer sheath of the cable is firmly held by the clamp

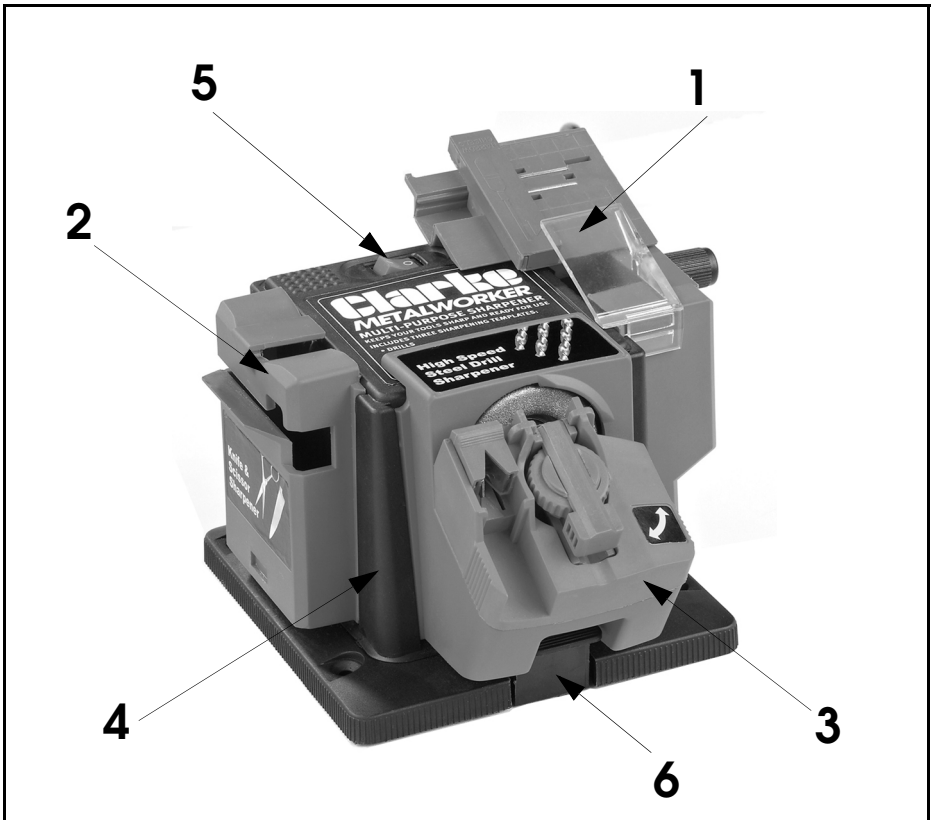
We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

If in any 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.

PRODUCT OVERVIEW



NO	DESCRIPTION
1	Chisel & Plane Sharpener Attachment
2	Knife & Scissor Sharpener Attachment
3	High Speed Steel Drill Sharpener Attachment
4	Power Unit
5	ON/OFF Switch
6	Retaining Catch/Interlock Switch

SETTING UP THE SHARPENER

This sharpener should only be used on a stable, horizontal surface. It is intended to be screwed down onto a workbench using the mounting holes in the base. Use 4 x 1" No 8 counter-sunk screws (not supplied) for this purpose.

The sharpener is fitted with an interlock which prevents the motor from starting unless one of the sharpening attachments is clipped into its operating position on the power unit.

To attach each sharpening attachment, slide it fully down the slots on the front of the power unit until it latches into place.

To release any sharpening attachment, unclip it by pressing the release catch down. Always wait for the grinding wheel to stop before removing the attachment. Store all the attachments on the power unit when not in use.



Plug the sharpener into a suitable mains power outlet.

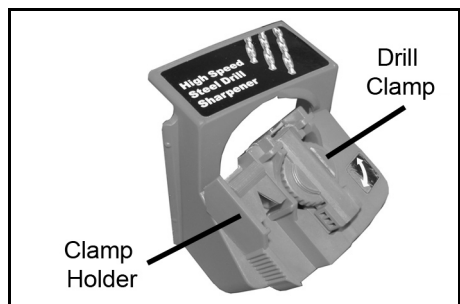
HIGH-SPEED DRILL SHARPENER

Using this attachment, you can sharpen any high speed drill bits from 7/64" (3.1mm) to 3/8" (10mm). The sharpener holds the drill bit at the correct sharpening angle.

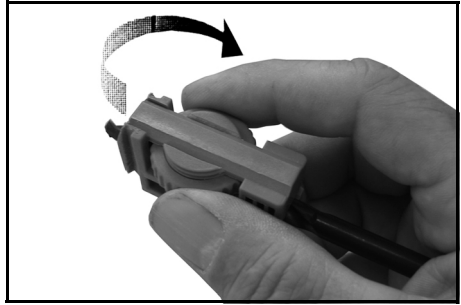
Do not use with masonry or hammer drill bits.

SHARPENING PROCEDURE

1. Slide the drill sharpening attachment onto the front of the power unit and clip into place.

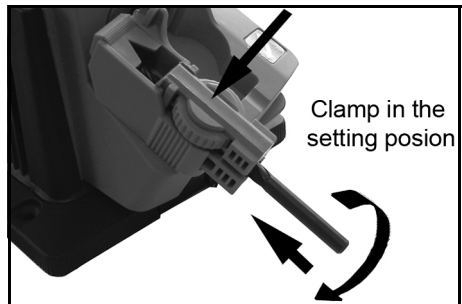


2. Remove the drill clamp from the clamp holder and insert a drill bit, gripping it lightly with the drill clamp so that the drill can still move.



3. Slide the drill clamp into the grooves in the holder and slide the drill bit forward in the setting position until the tip of the drill bit touches the metal drill end stop.

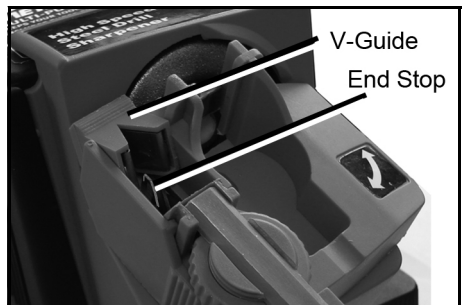
- This will set the distance between the drill bit and the grinding wheel.



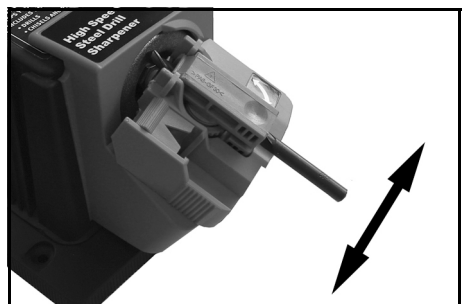
4. Turn the drill bit until it sits within the V-guide.

- This will set the drill bit with its cutting edges vertically above each other, so that the bit can be sharpened equally on both its edges.

5. With the bit in this position, tighten the clamp and remove it, complete with the drill bit.



6. Transfer the clamp from the setting position to the sharpening position.



7. The drill bit should exactly touch the grinding wheel and will be held at the correct angle .

8. Turn the unit on and start sharpening.

- Exert a slight downward pressure onto the bit and pivot the holder back and forth while sharpening.

- The bit should be constantly rotated whilst being sharpened.

- Examine bit according to the sharpening hints below.

9. Turn the clamp over and sharpen the other edge in the same way.

10. Try to ensure that both sides of the drill bit are sharpened, using the same amount of time and pressure.

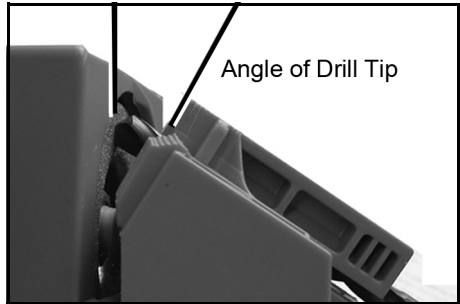
- Check that both sides are the same shape and that the tip is exactly in the centre of the drill.

- Check that the trailing edge of each cutting surface is lower than the leading edge.

- Check that both sides are equal.

11. Repeat the above steps as necessary.

12. Switch the power unit off and ensure the grinding wheel has stopped before removing the sharpener attachment from the power unit.



SHARPENING HINTS

- If the tip of the bit starts to turn blue, it is overheating. Reduce the amount of pressure and sharpening time. Allow the bit to cool between sharpening cycles.
- If one edge is longer than the other, sharpen the long edge of the drill bit a little more.
- If you are sharpening a broken (rather than blunt) bit and the time required to restore the shape is too long, rough the bit into shape first using a bench grinder.

KNIFE AND SCISSOR SHARPENER

Using this attachment, you can sharpen any straight or curved blade but not serrated blades.

SHARPENING KNIVES

1. Slide the knife and scissor attachment onto the power unit.
2. Switch on the power unit.
3. Hold the knife by its handle, insert the blade into the guide slot.



4. As soon as the blade touches the grinding wheel, draw it across the wheel with a light, steady pressure towards the tip end before removing. Do not press hard.



5. Insert the second side of the blade into the other top guide slot and repeat as above.
6. Repeat sharpening each side in turn until a clean sharp edge is attained.
7. Switch the power unit off and ensure the grinding wheel has stopped before removing the sharpener attachment from the base unit.



SHARPENING SCISSORS

1. Slide the knife and scissor attachment onto the power unit
2. Switch on the power unit.
3. Open the scissors fully and slide the first blade through the front guide slot with the other blade to the right hand side.
4. Draw the blade across the grinding wheel from pivot to tip using only a light pressure.
5. Remove and turn the scissor over to sharpen the second blade.
6. Repeat if necessary until clean, sharp edges are achieved.
7. Switch the power unit off and ensure the grinding wheel has stopped before removing the sharpener attachment from the power unit.



CHISEL AND PLANE SHARPENER

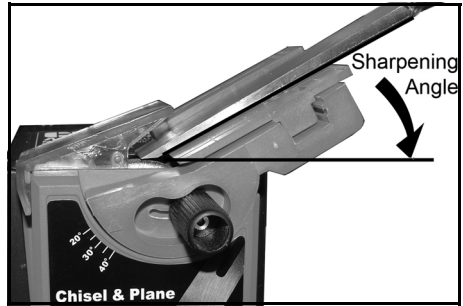
Using this module you can sharpen chisels and plane blades up to 2" (50mm) wide at a grinding angle from 20-40°.

SHARPENING BLADES

1. Slide the chisel and plane blade attachment onto the power unit.
2. Place the blade against the back lip of the support plate. The magnet helps hold the blade in position.



3. Take care that the sharpening angle matches the existing bevelled angle of the blade tip. This avoids removing too much metal unnecessarily and keeps the plane blade at its optimum cutting angle.



4. Adjust it to suit and set the angle securely using the adjusting knob. Note the angle on the scale before tightening.



5. Switch the power unit on.

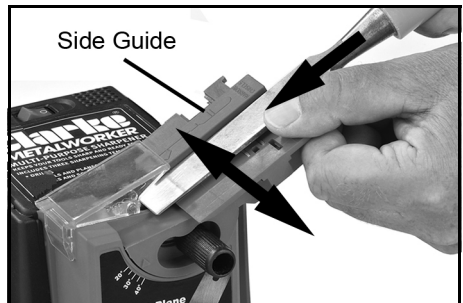
6. Slide the blade and plate with light, steady pressure, back and forth across the grinding wheel in a continuous motion.

- Do not hold the blade stationary as this will cause irregular sharpening.

7. Gradually ease the blade down the plate while sharpening. Press very gently, repeating each step.

8. Lift the blade away and check that the bevelled edge and tip are evenly sharp across the blade width. If not, adjust the grinding angle and try again.

9. Use the extra side guide to act as a spacer when sharpening narrow chisels.



10. Switch the power unit off and ensure the grinding wheel has stopped before removing the sharpener attachment from the base unit.

- It is recommended that after grinding, the chisel or plane blade tip is honed using an oiled stone.

MAINTENANCE

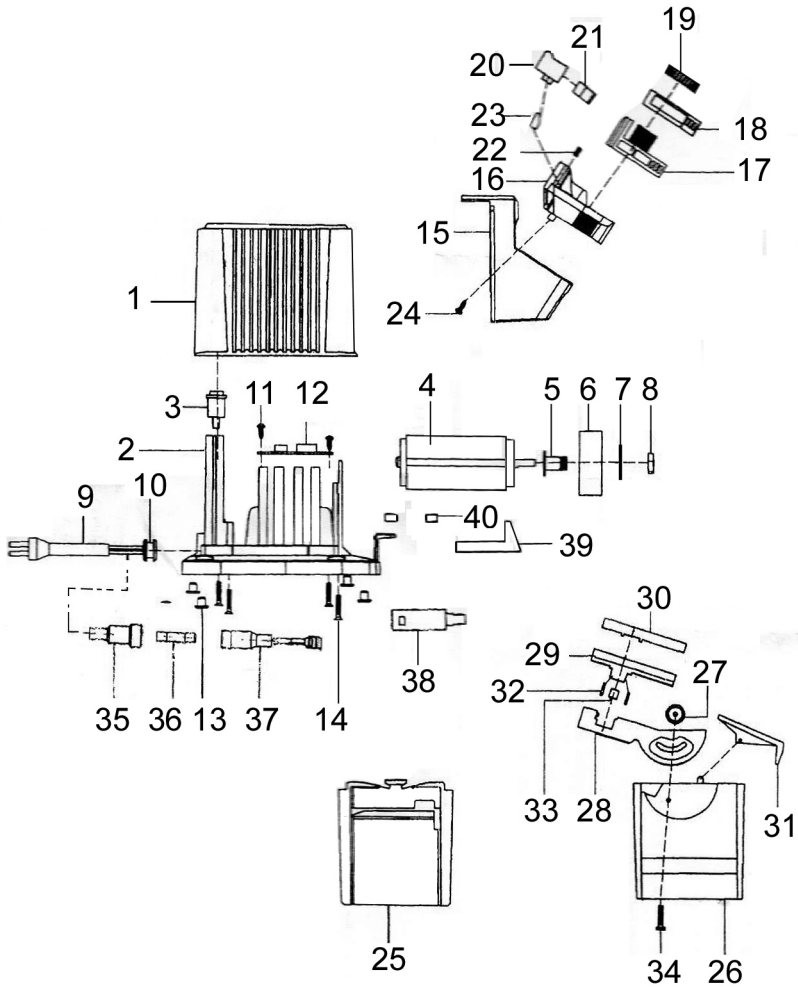
CLEANING

1. Keep the surface of your sharpener free of grit, dirt, and grease. Use soapy water or non-toxic solvents. Do not use petroleum based solvents.
2. If the motor does not operate, it needs to be serviced or replaced by a qualified technician.

SPECIFICATION

Model Number	CMPS1
Voltage	230 V @ 50 Hz
Operating Temperature	-15°C - + 40°C
Drill Bit Sizes And Type	3.0 mm to 10 mm HSS
Maximum Chisel Blade Width	51 mm
Duty Cycle	S3 15% (90 sec on, 510 secs off)
No Load Speed	6700 rpm
Sound Pressure Level (L _{pA} dB)	74 dB(A)
Guaranteed Sound Power (L _{wA} dB)	87 dB(A)
Dimensions (L x W x H)	192 x 143 x 116 mm plus removable sharpening attachments
Weight	1.65 Kg

PARTS LIST AND DIAGRAM



ID	DESCRIPTION	PART NO	ID	DESCRIPTION	PART NO
1	Motor Housing	HTCMPS101	21	End Stop	HTCMPS121
2	Base	HTCMPS102	22	Steel Strip	HTCMPS122
3	Rocker Switch	HTCMPS103	23	Steel Blade	HTCMPS123
4	Motor	HTCMPS104	24	Pivot Screw	HTCMPS124
5	Wheel Boss	HTCMPS105	25	Knife/ Scissors Module	HTCMPS125
6	Grinding Wheel	HTCMPS106	26	Plane/blade Module	HTCMPS126
7	Washer	HTCMPS107	27	Locking Knob	HTCMPS127
8	Nut	HTCMPS108	28	Adjustable Plate	HTCMPS128
9	Power Cable	HTCMPS109	29	Sliding Blade Holder	HTCMPS129
10	Cable Gland	HTCMPS110	30	Chisel Side Guide	HTCMPS130
11	Screw	HTCMPS111	31	Transparent Guard	HTCMPS131
12	Printed Circuit Board	HTCMPS112	32	Steel Edge	HTCMPS132
13	Rubber Foot	HTCMPS113	33	Magnet	HTCMPS133
14	Screw	HTCMPS114	34	Screw	HTCMPS134
15	Drill Module Frame	HTCMPS115	35	Fuse Holder	HTCMPS135
16	Swivelling Frame	HTCMPS116	36	Fuse	HTCMPS136
17	Drill Upper Clamp	HTCMPS117	37	Fuse Holder	HTCMPS137
18	Drill Lower Clamp	HTCMPS118	38	Interlock Switch	HTCMPS138
19	Drill Clamp Knob	HTCMPS119	39	Interlock Switch Arm	HTCMPS139
20	Drill V- Guide	HTCMPS120	40	Cable Clamp	HTCMPS140

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemncill 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 directive(s):

2004/108/EC *Electromagnetic Compatibility Directive.*
2006/42/EC *Machinery Directive.*
2006/95/EC *Low Voltage Equipment Directive.*
2002/95/EC *Restriction of Hazardous substances.*

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

*EN 55014-1:2006, EN 55014-2:1997+A1:2001, EN 55014-2:1997+A2:2008, EN 61000-3-2:2006,
EN 61000-3-3:2008, EN 61029-1:2009, EN 61029-2-4:2003+A1:2003*

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

The CE mark was first applied in: 2009

Product Description: Multi Purpose sharpener
Model number(s): CMPS1
Serial / batch Number: N/A
Date of Issue: 24/08/12

Signed:

J.A. Clarke
Director

A SELECTION FROM THE VAST RANGE OF

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

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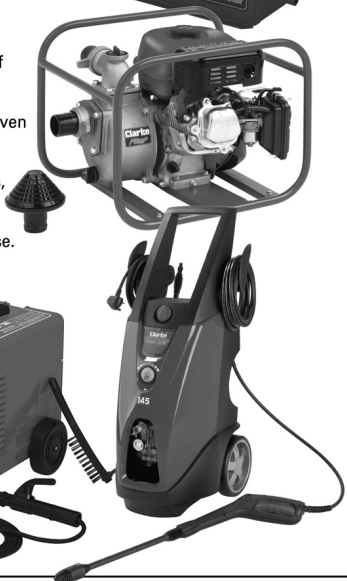
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