

K-Kub Single Phase Floor Grinder

Operating Manual



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Introduction and Description

This manual is intended to provide operation and service information required for the safe and efficient use of the K-Kub Floor Grinder.

Operating or servicing the unit other than in accordance with the instruction given in the manual may result in subjecting the machine to conditions beyond its capability, which may result in the failure of the machine or personal injury to the operator.

IMPORTANT:

- **Read the operating manual and warranty conditions given before attempting to operate the floor grinder. Special attention must be given to the section entitled “Safety Precautions.”**

The K-Kub Floor Grinder is a sturdy, reliable and easy to use machine.

The K-Kub Floor Grinder is fitted with 2.2kW single phase motor. This motor offers direct drive to the grinding plate with the incorporation of a flexible coupling between the motor and the plate.

The K-Kub shroud system is unique in design, automatically adjusting to suit segment height and floor angle. This shroud system when used in conjunction with an appropriate industrial vacuum unit eliminates dust loss during grinding. The shroud has 2 removable sections to enable the operator to grind close up to the wall etc. Please note dust loss is possible when this section is removed.

The K-Kub comes complete with a water connection for wet grinding should this be required. There is also a ball valve which allows the operator to regulate the water supply to obtain the best grinding results.

The K-Kub has a foldable handle which makes it easily transportable in any small vehicle. The rear wheels can be extended outwards should the operator require more stability from the grinder. This requires the use of an 8mm Allen key. The operator can also raise and lower the height of the handle to maximise their comfort during their use of the grinder.

Technical Data

Motor HP	3 HP
Motor KW Rating	2.2 kW
Motor RPM	1450 rpm
Unit Weight	45 kg
Plate Type	Standard 250mm plate or K-Kub shoes
Plate Bolt Types	M12x25 countersunk socket bolts
	M8 x 16 mm Hex head engineers bolt
Main Construction	Powder coated steel

Ensure all re-tipped and new grinding plates are properly balanced.

Operation

The K-Kub is designed to be used either for wet or dry floor grinding. If the floor that has to be ground is dry ensure a suitable industrial vacuum is connected and also ensure the operator is wearing suitable breathing respiratory equipment. Contact your local work place health authority to ensure that their requirements regarding respiratory equipment are being met.

Starting the Grinder

1. Check the grinding plate being used is suitable for the material being ground and **THAT THEY ARE CORRECTLY BALANCED.**
2. Check that the grinding plates used are in good order and are properly attached, with all countersunk bolts firmly in place. Check this occasionally during use, as they can become loose during working.
3. Check that the grinding plate is adjusted so that it sits level on the ground.
4. Check all nuts and bolts on folding handle latch are tight and firm.
5. Raise the grinding plates from the floor.
6. Start the motor by pressing the Green switch on the starter box.
7. Lower the grinding plate and commence grinding.

Stopping the grinder

1. De-press the red stop button on the starter box.

Safety Precautions

The K-Kub floor grinder has been designed to minimise noise and vibration levels and to provide maximum safety to the operator. However, incorrect use of the grinder may cause serious injury to the operator hence the following precautions must be taken.

1. Do not use the grinder for longer than prescribed in your local environment working regulations, as the noise load from extensive daily use may result in hearing defects.
2. Always use protective earplugs or earmuffs, goggles, gloves and protective footwear.
3. Do not modify the grinder in any manner, or use a machine that has been modified by anyone other than the manufacturer or authorised dealers.
4. Do not add weight to the machine to make the grinder work harder. Instead reduce the number of segments on the grinding plates to increase the performance.
5. Make sure that re-tipped plates and new grinding plates are balanced properly.
6. Do not run the grinder with the grinding head raised higher than necessary, i.e. tipped back on the handle.
7. Always make sure that the folding handle latch is secure and has not vibrated loose after use.
8. When grinding the machine is exposed to high vibration. Occasionally check the machine if any nut or bolt has loosened due to the vibration.
9. Do not allow water or cotton to enter the interior of the motor.

Fault Diagnosis

Symptom	Possible Cause	Action
Grinder runs for 5 – 15 minutes, then stops	Motor thermal overload tripped	Allow to cool, reset thermal overloads
	Extension cable too long and/or not made from	Then get electrician to check extension lead

	heavy enough cable	compatibility
Grinder runs but does not perform adequately	Motor defective	Repair or replace
Grinder vibrates during use	Grinding plates not correctly balanced	Replace or re-balance the grinding plates
Grinding noise coming from grinding head when up on jockey wheel	Excessively worn motor bearings	Have motor serviced

Maintenance

Daily cleaning: The motor in use should always be kept clean. No water droplets, cotton etc should be allowed to get into the interior of the motors.

Check on load current: While the motor is in operation, constant care should be taken to keep the load current below the rated value.

Running sound: During the operation of the motor there must be no rubbing noise shriek or other random noise. Stop the motor immediately and restart after the corrections have been made.

Check the folding handle latch periodically. This is adjustable. To adjust loosen the lock nut on the latch and then screw in the treaded paw until a satisfactory tension has been achieved.

The wheel bearing are sealed type so they do not require regular greasing.

****NB to minimize vibrations and uneven blade wear, rotate plate every 2 hours.**

Failure to do so can lead to premature wear of the flexible coupling.

Manufacturer Guarantee

General warranty conditions

- Six months warranty on the frame from the delivery date.
- Warranty covers all functional disturbances caused by defects in material or manufacturing.

- When liable under the warranty, Kaladari Industries is free to decide whether to offer a repayment, replacement or repair.
- Shipping costs are to be paid by the purchaser.
- Any parts replaced are property of Kaladari Industries.
- Kaladari Industries assumes no liability for indirect damage and other costs such as loss of production.
- Warranty claim will only be considered when reported immediately upon discovery of the defect.

The warranty Does Not Cover

- Damage caused by faulty connection or improper handling.
- Damage caused by poorly balanced grinding plates. This includes any business that re-tips their own grinding plates and is not able to provide a receipt clearly showing that they have had their plates properly balanced.
- Cost to cover repairs undertaken by non authorised dealers.
- Fair wear and tear
- Damage caused by imperfect maintenance, improper use or damage in transit.

The warranty ceases on change of ownership of the equipment and in the case of repairs undertaken by a non-authorized agency without Kaladari Industries express authorisation.

Unit Details and Serial Numbers

Unit Serial Numbers

Unit Serial Number: _____.

Model: _____.

Unit Production Details

Month of Manufacture: _____.

Date of Inspection: _____.

Inspected By: _____.

Date of Final Shipping To Customer: _____.