

OPERATING INSTRUCTIONS

FLEXTOL CUB GRINDER ART-CUB



Version 2.0 (November 2022)



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INTRODUCTION

Thank you for your selection of Flextool equipment.

Flextool has specialised in the design and manufacture of quality products since 1951.

We have taken care in the assembly and testing of this product. Should service or spare parts be required, prompt and efficient service is available from our branches.

General Safety Instructions for the Operation of Power Equipment

The goal of Flextool is to provide power equipment that helps the operator work safely and efficiently. The most important safety device for this or any tool is the operator. Care and good judgement are the best protection against injury. All possible hazards cannot be covered here, however we have highlighted some of the important items. Operators should look for and obey Caution, Warning and Danger signs placed on equipment, and displayed in the workplace. Operators should also read and follow safety instructions packed with each product.

Learn how each machine works. Even if you have previously used similar machines, carefully check out each machine before you use it. Get the "feel" of it and know its capabilities, limitations, potential hazards, how it operates, and how it stops.

APPLICATIONS

- Removing trowel marks, worn sealants, plaster, paint and surface blemishes.
- Terrazzo floors
- Finish grinding joint surfaces

FUNCTION AND CONTROLS

The CUB Floor Grinder is fitted with 1.8KW single-phase motor. The motor offers a direct drive to the grinding plate with the incorporation of a flexible coupling between the motor and the plate. The shroud system of this grinder is unique in design, automatically adjusting to suit segment height and floor angle. This shroud system, when used in conjunction with an appropriate dust collector eliminates dust loss during grinding. The shroud has a removable section to enable the operator to grind close against the wall. Please note that dust loss is likely when this section is removed.

The grinder comes complete with a water connection for wet grinding should this be required. This incorporates a ball valve allowing the operator to regulate the water supply to obtain the best grinding results.

The grinder has a foldable handle, which enables it to be easily transported in the boot of most small vehicles. The rear wheels can also be extended outward should the operator want more stability from the grinder. This requires the use of a 13 mm spanner.

The operator can also raise or lower the height of the handle to maximize their comfort when using the grinder.

HAZARDS AND RISKS

GENERAL GUIDELINES

- NEVER allow an untrained person to operate machine without adequate instruction.
- ENSURE all users read, understand and follow the operating instructions.
- SERIOUS INJURY may result from improper or careless use of this machine.
- USE correct manual handling techniques when moving the grinder. The machine is fitted with wheels for transport.

Crystalline silica and silicosis

Flextool Dust Collectors are designed for the safe capture of fine concrete dust particles including crystalline silica that is generated in workplace processes such as crushing, cutting, drilling, grinding, sawing or polishing of stone, concrete and other man-made products that contain silica. Exposure to crystalline silica can be extremely harmful to your health and cause a wide range of respiratory illnesses.

Flextool recommends that all operators of equipment used in the above listed activities familiarise themselves with the "Working with silica and silica containing products" safety handbook available on the Safe Work Australia website:

www.safeworkaustralia.gov.au

! MECHANICAL HAZARDS

DO NOT operate the machine unless all protective guards are in place.

KEEP hands and feet clear of rotating and moving parts as they will cause injury if contacted.

- ENSURE both the machine and the operator are stable by setting up on a level surface. Make sure the machine does not tip over, slide or fall while in operation or unattended.
- DO NOT leave the machine in operation while it is unattended.
- EXERCISE CARE when operating the unit. Extended exposure to vibration or repetitive work actions may be harmful to hands and arms.
- NEVER stand on the unit while it is operating.
- ONLY USE the recommended grinding plate or shoes. Allow the machine to cool before servicing or replacing parts, severe burns may be caused by coming in contact with hot discs or segments.
- ENSURE that repairs to the motor and machine are carried out by qualified personnel.



! ELECTRICAL HAZARDS

- ENSURE that the grinder is disconnected from electric power source and motor operation switch is in the OFF position before removing the guards or making adjustments.
- ENSURE that the area requiring grinding does not contain any "live" electrical cables, gas, water or communication services which may be damaged by the action of the unit.
- ENSURE that electrical cables and plugs are in good working condition before using the grinder.
- ENSURE if the grinder is used in a wet / damp environment that a residual current device (RCD) safety switch is used to reduce the risk of electric shock
- ENSURE if an extension cord is used, it is suitable for outdoor use and in good working condition. Never connect multiple extension cords and limit the extension cord length to 20m
- BEFORE USE check the condition of all cables, the motor starter box, and power lead / plug to ensure it is in good working condition. If there are any signs of deterioration and / or damage, do not use the grinder
- DO NOT adjust any settings within the motor starter box as they have been set to ensure the correct operation of the grinder

! NOISE HAZARDS

- EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.
- WEAR approved hearing protection as required by Occupational Health and Safety regulations while operating the machine to limit noise exposure.

PROTECTIVE CLOTHING

- WEAR eye protection and dust mask when working in a dusty environment.

! ADDITIONAL HAZARDS

- BEWARE of uneven or slippery work surfaces, which could create slips, trips and falls.
- EXERCISE care when working in the vicinity of unprotected holes or excavations.

SAFETY PRECAUTIONS IN OPERATIONS

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

1. Do not use the grinder for longer than prescribed in your local environmental working regulations, as the noise load from extensive daily use may result in hearing loss.
2. Always use protective earplugs or earmuffs, goggles, gloves and correct 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 dealer.
4. Do not add weight to the machine to make the grinder work faster. Instead reduce the number of segments on the grinding plate to increase performance.

5. Be sure that re-tipped and new grinding plates are properly balanced.
6. Do not run the grinder with grinding head raised any higher than necessary, i.e. tipped back on handle.
7. Always ensure that the folding handle latch is secure.
8. When grinding, the machine is exposed to high vibration. Occasionally check fasteners for tightness.

OPERATION

The grinder is designed for both dry and wet grinding. For dry grinding, ensure a suitable dust collector is used with H-Class HEPA filtration system.

STARTING THE GRINDER

1. Check the grinding plate being used is suitable for the material being ground.
2. Check that the grinding plate being used is in good order and properly attached, with all countersunk bolts firmly in place. Check this occasionally during use, as they can work loose during operation.
3. Check that the folding handle latch are tight is firm.
4. Transfer weight from the grinding head by pushing downward on the handles, this helps reduce motor start load (never lifting grinding plate off the ground by more than 1-2mm)
5. Start the motor by pressing the green switch on the starter box.
6. Lower the grinding plate and commence grinding.

SHUTTING DOWN THE GRINDER

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

CARE AND PREVENTIVE MAINTENANCE

- Check folding handle latch periodically. This is adjustable. To adjust, loosen the lock nut on the latch and then screw in the threaded paw until a satisfactory tensions has been achieved.
- Inspect the grinding plates or shoes before each use.
- Check all fasteners for tightness as the machine is subject to vibration.
- Clean the underside of the unit regularly to prevent a build-up of material.



TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES AND CORRECTION
Grinder runs for 5-15 minutes, then stops	■ Motor thermal overload tripped. Allow to cool, then reset thermal overloads. ■ Extension cable too long and/or not made from heavy enough cable. Get electrician to check extension lead compatibility.
Grinder runs but does not perform adequately	■ Ensure correct grinding plate or shoes are being used for the substrate being ground
Grinder vibrates during use	■ Grinding plates not correctly balanced. Replace or rebalance grinding plates. ■ Worn drive coupling, replace coupling and reset grinding level to ensure head weight pressure is even

SPECIFICATIONS

Model	Grinding Width mm (in)	Operating Weight kg (lb)	Voltage V/Hz	Max Current A	Power Output kW	Power Output hp	Motor Speed rpm	IP Rating	Dust Outlet mm (in)	Lifting Hook	Overload Protection	Product Code
ART-CUB	250 (9.8)	46 (101)	240 50/60	9.57	1.8	2.4	1440	55	50 (2)	Yes	Yes	FT1RTCUB-UNIT





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This manual summarises our best knowledge of the product based on the information available at the time of publication. You should read this manual carefully and consider the information in the context of how the product will be used. Our responsibility for products sold is subject to our standard terms and conditions of sale.

DISCLAIMER:

Any advice, recommendation, information, assistance or service provided by us in this manual is given in good faith and is believed by us to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by us is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon us by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. The product can be expected to perform as indicated in this manual so long as operation and operational procedures of the individual products are followed as recommended in this manual.

Design and technical specifications may be subject to changes.

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FOR MORE INFORMATION

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