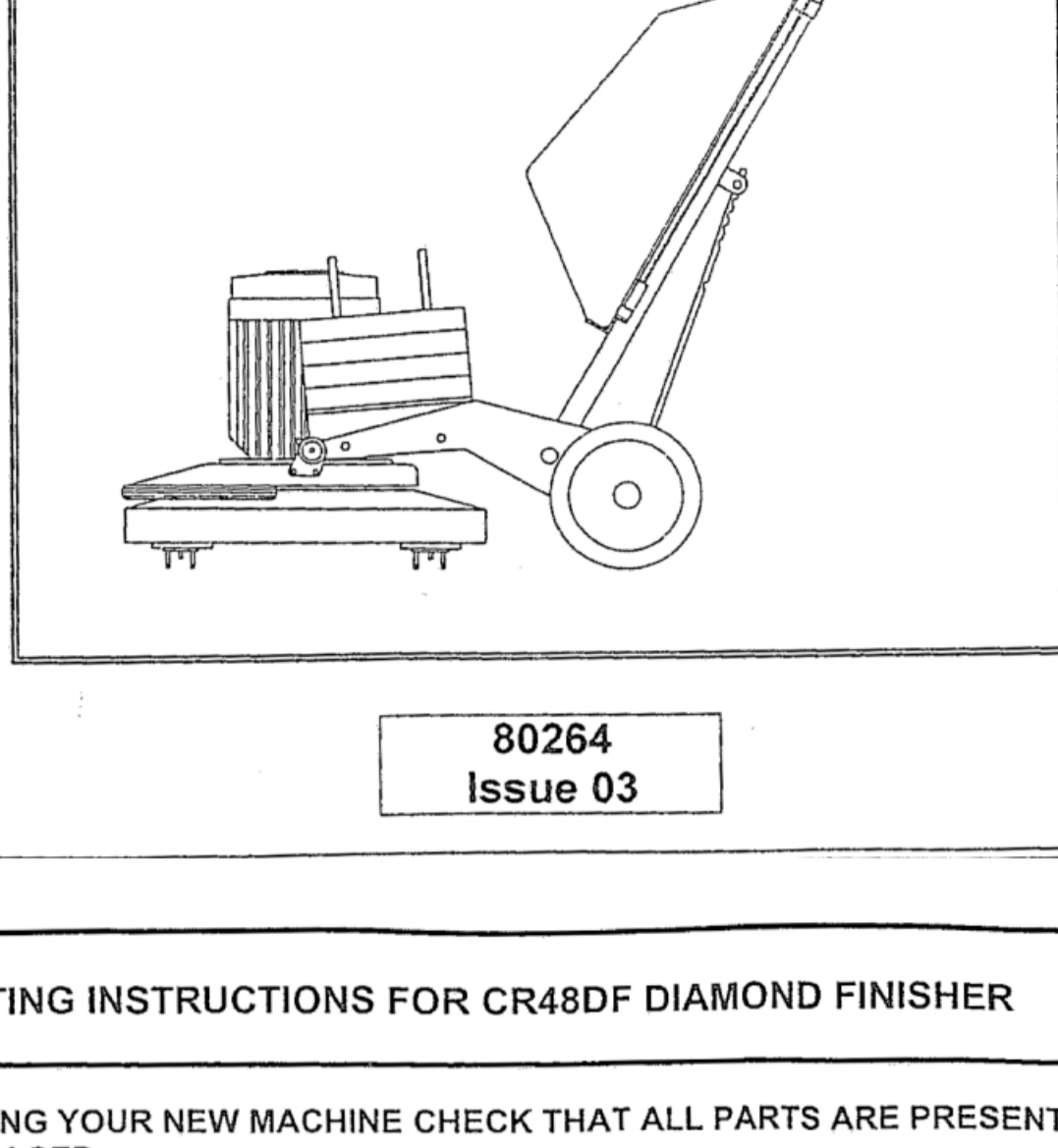


CIMEX-USA

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DIAMOND FINISHING MACHINES

OPERATING INSTRUCTIONS



80264
Issue 03

OPERATING INSTRUCTIONS FOR CR48DF DIAMOND FINISHER

BEFORE USING YOUR NEW MACHINE CHECK THAT ALL PARTS ARE PRESENT AND UNDAMAGED. IN THE EVENT THAT THE MACHINE WAS DELIVERED DAMAGED CONTACT YOUR SUPPLIER OR CIMEX DIRECT. Tel: 01202 499699.

PREPARING THE MACHINE FOR USE

General Safety

Cimex machines are designed solely for the commercial cleaning of floors. Keep children and animals away from the work area. Keep the mains supply cable away from the revolving brushes to avoid damage.

Electrical Safety

Check the mains supply is compatible with the voltage and frequency indicated on the machine data plate located on the rear of the handle.

Fit an appropriate plug to the supply cable as follows,

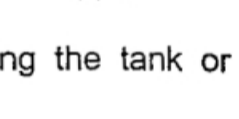
**BROWN lead to LIVE
BLUE lead to NEUTRAL
GREEN/YELLOW lead to EARTH**

Fuses: All 240 volt machines -13 amps
All 110 volt machines -15 amps

CHECK MACHINE DATA PLATE - CONSULT AN ELECTRICIAN IF IN ANY DOUBT

MACHINE SPECIFICATIONS

Voltage	240 or 110 volts
Frequency	50/60 Hz (cycles)
Motor Power	1500 watts
Head Speed	880 RPM
Working Width	480mm
Tank Capacity	25 litres
Noise Level	65 dB(A)
Cable Length	15 m
Weight	50 kg (without weights)
Length	750mm
Width	480mm
Height (upright)	1120mm
Pad Pressure (without weights)	38 gm/cm ²
Pad Pressure (with weights)	76 gm/cm ²



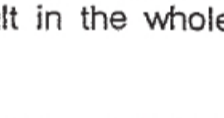
OPERATING INSTRUCTIONS

MACHINE OPERATION

- Check the machine for transit damage. Do not attempt to use the machine with any part missing or damaged.
- Fit brushes or drivebacks before plugging the machine into the mains supply.
- Always disconnect the machine from the supply before emptying the tank or changing brushes and pads.
- To fit brushes or pads tip the machine back to raise the head, tilt the head back to rest on the rim.
- Brushes and drivebacks are simply pushed onto the brush pins, being held in place by rubber grommets.
- Fit diamond discs to the drivebacks. The outer diameter of the discs should align with the outer diameter of the driveback. Keep diamond discs in their sets of three, to maintain even wear.
- Lower the machine head to the floor, ensuring the discs are level.
- Adjust the machine handle for user comfort by means of the locking lever at the rear of the handle tube.
- Fill the solution tank with water, or water plus lubricant to the required dilution - for chemicals see chart.
Important: The water or solution used in the tank must be **CLEAN**. Only use clean buckets when filling the tank. Powder or dirt will block the water channels. Use CIMEX cleaning agents for best results.
- Start the machine by pulling the 'Dead man's handle' (Right hand lever) up towards the handle bar - stop by releasing.

PROCESSING THE FLOOR

- It is recommended that the surrounding floor area is protected with plastic sheet, sealed at the edges with adhesive tape.
- When the floor area is sealed off, the actual processing of the marble can commence.
- Begin with the CR48DF tank full of water, using green discs for a badly scratched floor, but finer grades if damage is less - see table.
- Open the solution valve at the base of the tank and switch the machine on by use of the DMH. Start at least one head diameter away from the edge of the work area, or tape
- Walk at half speed down the edge of the marble floor keeping the head of the machine at the edge of the tape. The disc will ride over the tape should you accidentally run onto it.
- Dispense enough solution to keep the floor wet while the machine is operating. When you reach a wall or the end of the power cord return over the same path just walked.
- Each area of the floor should be covered at least twice at half walking speed. Some floors may require extra passes to process thoroughly.
- On reaching the original starting point position the machine to process another path, parallel to the first, overlapping by two inches.
- When the entire floor has been covered using green discs, use a wet vacuum with a squeegee attachment to vacuum up the water and marble residue from the floor.
- Repeat the process with the black, red, and yellow discs in turn.
- Complete the processing with the yellow/white discs. In areas too small to use the CR48DF, it will be necessary to use a hand polisher with single abrasive disc.
- Wet vacuum all remaining solution to dry the floor quickly.
- **NOTE:** If the floor has lippage, or an area of the floor has lippage, it should be wet vacuumed after each processing grit. Lippage will damage abrasive discs, and fragments could be picked up and scratch the marble. The floor should be vacuumed at any point if marble slurry is very heavy.
- As the floor dries, remove the plastic sheet and tape.
- Where carpet or fabric materials are wet with water and marble residue, flush with clean water and extract with the wet vacuum. This process may need to be repeated two or three times to remove residue.
- Where marble residue has dried on a hard surface, a clean dry cloth will quickly remove it.
- Following clean-up, damp mop twice with clear water to remove marble residue. The floor will then appear dull and hazy.



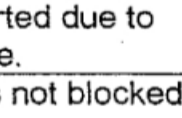
- The polishing procedure should be performed after a **twenty-four hour** drying period. On smaller floors the marble may be mechanically dried. The drivebacks should be changed to 'Instalock' drivebacks for the polishing process. Polish using the CR48DF and clean Diasteel pads part numbers 10035 - 8", 10037 - 10", and 10039 - 12". The floor should be buffed for at least 30 minutes to completely dry out the polish. Do not leave the machine stationary during this procedure as marks will be left on the floor which may result in the whole procedure having to be repeated.
- Apply polish from a spray bottle - apply sparingly just ahead of the machine as you work. Do not leave wet polish on the floor - work in immediately as it can cause spotting on the floor.

NOTE:

- 1) While processing, the technician should frequently inspect abrasive pads for wear or damage. The green, black, red, and yellow grits will process 4000 to 10000 square feet, while the yellow/white and blue pads will process 800 to 1200 square feet
- 2) The survey should determine which disc is used to begin the process. Normally the green discs are the starting grit, except where lippage is extreme, or damage is very slight.
- 3) To eliminate lippage, weights may be added to the machine, up to four on each side.
- 4) The operator should examine the marble following each processing grade to determine whether the removal of wear or scratching is effective.

MAINTENANCE

- After use, wipe over the machine with a damp cloth. Cleaning machines should always be kept clean.
- Inspect the cable and mains plug, check for any loose parts, screws, nuts, etc. Report any damage immediately.
- Remove brushes or pads after use and clean under running water.
- Do not store the machine with the brushes on.
- Do not use discoloured (rusty) polishing pads.
- Empty water from tank immediately after use. Flush through regularly.



FAULT FINDING

1. Motor not running	Check machine is plugged in. Check the fuse is not blown. Check circuit breaker has not tripped. Check the cable is undamaged.
2. Machine stalls during operation	Check pads or brushes are clean and undamaged Check extension cable current rating (if one is being used). Check the electrical plug connections.
3. Machine vibrates	Check fitting of pads. Check pads or brushes are clean and undamaged. Check the thickness of the brushes or pads (all three must be even). Check the brushes are not distorted due to being left on the machine in store.
4. Cleaning solution does not flow	Check the tank is clean, outlet is not blocked, and all valves are open.

Cimex machines and materials are backed by a comprehensive service network. If repairs become necessary, or spare parts are required, these can be obtained from your local Cimex Authorised Agent, who will be pleased to draw up a Service Agreement with you in order to provide a regular maintenance schedule and keep your equipment in optimum condition.

The full range of discs, detergents and polishes is also available.

All Cimex machines are guaranteed for a period of One Year from date of delivery.

Failure to maintain the machine may invalidate the warranty.

Do's	Clean down after use Flush tank with clean water
Don't's	Touch rotating bowl Remove switch-box cover Use machine with damaged cable or other parts

DIAMOND FINISHER BLADES & ATTACHMENTS



Steel Wire Brush
Designed for light scarifying removal of rubber carpet backing, grease, oil, wax, paint, ice, and food build up. Will not damage underlying surfaces
Available for 16", 20", & 25" machines



Yellow Longer-lasting Smooth Grind Diamond Blade
Single longer-lasting smooth grind blade with 18 diamond segments effective for faster smooth grinding on concrete floors in preparation for coatings, sealers, and paints. Grinds sharp aggregates such as flint and granite, removes surface imperfections from epoxy mortars, and smooths rough surfaces or trowel marks.
Available for 20", 25" & 30" machines



Medium Wire Brush
With 1.6mm diameter wire bristles designed for general scarifying, removal of rubber carpet backing, grease, oil, wax, dried paint, ice, and food build up. Will not damage underlying surfaces
Available for 20", 25" & 30" machines



Yellow Heavy Duty Smooth Grind Diamond Blades
Two of our longest lasting smooth grind blade rings with 28 diamond segments effective for smooth grinding of concrete floors in preparation for coatings, sealers, and paints. Grinds sharp aggregates such as flint and granite, and removes surface imperfections from epoxy mortars.
Available for 20", 25" & 30" machines



Heavy Duty Wire Brush
With 2mm diameter wire bristles designed for heavy scarifying, removal of rubber carpet backing, grease, oil, wax, dried paint, ice, and food build up. Will not damage underlying surfaces
Available for 20", 25" & 30" machines



Blue Ultra Diamond Blade
Single long-lasting blade ring with 12 diamond segments. Fastest blades for quick grinding on concrete floors in preparation for coatings, sealers, and paints. Ideal for smoothing rough surfaces or trowel marks, or repairing surface damage to concrete slabs. Also used for removing urethanes or epoxy thin coats, leveling high spots, or removing thin mastics and thin-set.
Available for 20", 25" & 30" machines



Bronze (Non-Spark) Wire Brush
With PhosBronze wire bristles designed for safe cleaning near combustible materials, general scarifying, removal of rubber carpet backing, grease, oil, wax, dried paint, ice, and food build up. Will not damage underlying surfaces
Available for 16", 20", & 25" machines



Blue Quick Diamond Blade
Single longer-lasting blade ring with 18 diamond segments. Blades are effective for fast grinding on concrete floors in preparation for coatings, sealers, and paints. Ideal for smoothing rough surfaces or trowel marks, or repairing surface damage to concrete slabs. Also used for removing urethanes or epoxy thin coats, leveling high spots, or removing thin mastics and thin-set.
Available for 16", 20", 25" & 30" machines



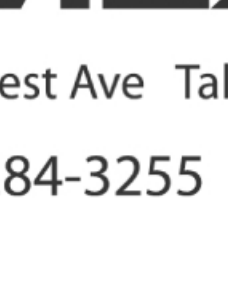
Steel Cutter Scarifiers
Effective scarifying tool with pointed steel scarifier teeth designed for grinding steel, concrete, and asphalt, removal of paint, mastics, thin-set, resins, tar, fiber glass, specialty coatings, industrial build-ups, and rubber carpet backing. And for light profiling of concrete and steel in preparation for coating seal and/or paint.
Available for 16", 20", 25" & 30" machines



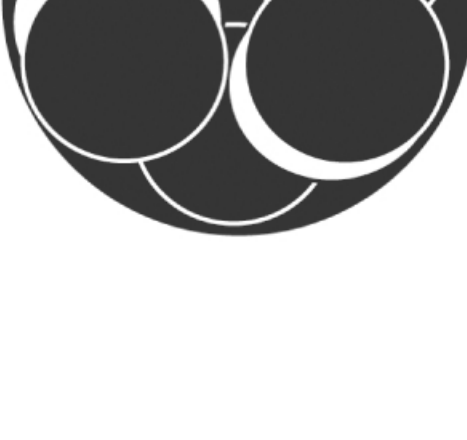
Blue Heavy Duty Quick Diamond Blades
Two of our longest lasting blade rings that contain 28 diamond segments. Blades are effective for fast grinding on concrete floors in preparation for coatings, sealers, and paints. Ideal for smoothing rough surfaces or trowel marks, or repairing surface damage to concrete slabs.
Available for 20", 25" & 30" machines



Carbide Scrapers
With four sided blades designed to skim off paint, mastics, resins and remove tar, fiber glass, specialty coatings, industrial build-ups, and carpet backing. Will not damage underlying surfaces
Available for 16", 20", 25" & 30" machines



Horseshoe Weights
Add-on 35lb. stackable weights. (Sold singly)
Available for 16", 20", & 25" machines



CIMEX-USA

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