

FLOOR COATINGS REMOVAL

FLOOR GRINDERS
AND VACUUM CLEANERS



HOW-TO-GUIDE

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Floor grinders and vacuum cleaners are ideal for removing tough floor coatings such as paint and clear coats or the residue left from floor coverings such as laminate tiles to restore a level and clean surface. When working with surfaces that contain asbestos it is essential that it is carried out in accordance with regulations and local authorities.

HOW DOES A FLOOR GRINDER WORK?

Floor grinders are machines fitted with an abrasive disc or discs that are powered in a circular motion to clean, restore, and finish floors. grinders and vacuums are walk-behind electrically powered requiring only sufficient connections to a local power source.



CHOOSING YOUR FLOOR GRINDER:

Beacon stock Scanmaskin and Blastrac grinders, below is a brief description to help you find the best machine for your project. For full technical specifications see the relevant product guides.

Scan Combiflex 330

One of the most versatile machines in the Scanmaskin range that offers a 330mm single grinding disc, designed for edging long stretches, removing light coatings, and preparing smaller surface areas. Can be quickly and easily changed from a grinder into an edger. Discs can be configured with 3, 6, or 9 metal, ceramic, or resin bond diamond tools.

Adapting these allows for more aggressive cutting when required, or grinding of softer surfaces by distributing the weight and using additional tools. Available in various power configurations, as well as single and variable speeds. RS is a regulated speed.



Scanmaskin 18

Designed for grinding and sanding different types of wood and concrete surfaces including painted, damaged, or old wood floors. Ideal for cleaning concrete floors of hard-to-remove coverings like laminate adhesives and paint.

Adjustable speed depending on the surface being worked on, this is important when sanding wooden floors or grinding concrete floors. Large selection of tooling is available for use on the Scanmaskin 18 machine.



Blastrac BGS-250

A single-disc heavy-duty grinder designed for small to medium surfaces. This user-friendly machine is low vibration and offers the ability to adjust grinding depths. Ideally for leveling and cleaning concrete surfaces. Has a dust hose connection for eliminating messy dusty project sites.

The Blastrac BGS-250 is easy to transport due to its' low weight and front handle design.



For full technical specifications see the [BGS-250 datasheet](#)

ScanDust 2900

Ideal for all Scanmaskin's smaller grinders, the cylindrical design acts as a pre-separator forcing the heavy particulates straight to the bottom of the cyclone. This means only the fine dust needs to go through the filter increasing its' longevity and suction performance. Uses filter socks which can easily be disposed of when working with hazardous materials such as asbestos, if not contaminated with hazardous materials they can be washed and reused.

The SD 2900 is fitted with two HEPA 13 filters that manage hazardous particles. The bagging system makes managing dust easy. It has a 20m/60ft of folded plastic bag which provides around 25 dust free changes.



Full technical data is available in the [Scanmaskin Guide 2022](#).

Husqvarna DE120

The Husqvarna H-class duct collector is powerful, compact, and easy to transport. It is suitable for use with a wide range of large power tools such as floor grinders. Offering an intelligent HMI which notifies the user on any errors or maintenance required. Fitted with a HEPA filter that complies with EN1822 certifications and has a separate pre-filter. The machine offers a built-in filter alarm notifying the users when filters need changing. Ideal for heavy-duty applications.



**** Brand of grinders and vacuums available to hire may vary from branch to branch, please contact your local depot for more information.**

It is important to note any cleaning of filters or servicing should be carried out in a controlled environment and by a recognized and experienced company that can do this safely and properly without wider contamination and ensuring optimum performance of the equipment on a project.



SCANMASKIN GRINDER MAINTENANCE

It is recommended the following daily Inspections are carried out:

- The wheels for damage
- The grinding head, which includes discs and hubs. Check for dirt between the Scan-On plate and the grinding hub as this can lower the flexibility of the grinding head.
- The machine for any damage that might have occurred and any screws that might have loosened.

HOW TO PUT THE MACHINE INTO 'SAFETY OFF POSITION'?

When the machine is not in use, it is essential to ensure it is in a safe condition where it will not be a hazard. Follow the steps below to secure your machine

- 1** Switch off the machine
- 2** Switch off vacuum cleaner or dust collector if you are using one
- 3** Wait until all the drives have come to a complete stop
- 4** Make sure it is disconnected from the mains power
- 5** Ensure it is protected against an unintended start



BLASTRAC GRINDER MAINTENANCE

Blastrac recommends regular maintenance for safety and to ensure to avoid expensive repair costs. See below manufacturer inspection and maintenance instructions:

1. Every 3 hours check the contents of the relevant dust collector
2. Daily checks:
 - a. Safety devices are functioning correctly
 - b. Electric connections are clean and not containing any foreign bodies
 - c. Electric motors are clean and free from any other contaminants
 - d. Ensure there is sufficient power. See section on voltage drops
 - e. Make sure hose connections are tight and fixed seats
 - f. Ensure the dust bins are fresh and are empty
 - g. Check the diamond discs for wear and tear, damage, and that they are free from debris
3. Every 3 months dust the machine and wipe down with a damp lint-free cloth
4. Annually the machine should be serviced by specialised company. Contact Beacon International to book your service.



For full operating and maintenance instructions see the BGS-250 Operating Instructions

Note: It is important that if the machines are being used for hazardous materials such as asbestos that any maintenance or servicing carried out is in accordance with regulations and local council guidelines.

SCANDUST 2900 DUST COLLECTOR

It is highly recommended that servicing and maintenance be carried out by an experienced and qualified company. Contact Beacon International to arrange your service.

- See note below on changing filters when working with hazardous materials.

Note:

It is important to note that when working with hazardous materials such as asbestos that filter changes should only be carried out in a controlled environment and by an experienced supplier.



HUSQRVANA D120 DUST EXTRACTOR

Husqrvana breaks out its maintenance schedule into before use daily, weekly, every 6 months or 600 h, every 12 months or 2000 h.

Before use:

- Carry out purge of filter
- Check the rubber cone for signs of wear and tear
- Check machine plug and power cable
- Inspect plastic parts and controls for loose connections, wear and tear, or damage
- Inspect hose and hose connections
- Check lifting eyes

Daily:

- Check the asbestos regulated bag is properly fitted. Beacon International supplies equipment with asbestos bags already attached. If a bag needs changing it should be done in an enclosed environment and securely attached using cable ties. We highly recommend contacting your local depot for guidance if a bag change is required.
- Review filter purge
- Check lifting eyes

Weekly:

- Check the wheels for damage and bad connections
- Check the filter seals

Every 6 months or every 600h

- Replace HEPA filter (this should only be carried out in a controlled environment)

Every 12 months or every 2000h

- Replace the prefilter if the suction had decreases
- Rubber cone and filter cleaning rubber parts need to be replaced

Note:

It is important to note that when working with hazardous materials such as asbestos that filter changes should only be carried out in a controlled environment and by an experienced supplier.



TROUBLESHOOTING GUIDE SCANMASKIN GRINDERS:



Your machine isn't starting or feels weak and stops when coming into contact with the ground:

Ensuring there is enough power to run the machine is essential. See our section on powering your machine and voltage drops.

Solutions

- Check the fuse box on site
- Inspect cables
- Check there is enough power from the main distribution point to the end of the cable nearest the machine.
- Check the extension cable isn't too long

SUFFICIENT POWER TO THE GRINDER AND VACUUM CLEANER

It is important to note there some key dos and don'ts to making sure there is sufficient power supply to run a grinder and vacuum cleaner. Firstly, power is required for the grinder and vacuum cleaner, so these points apply for both machines.

We frequently get questions about issues with power and feel it is essential to highlight the impacts of voltage drops when running machinery.

WHAT IS A VOLTAGE DROP?

A voltage drop is a normal decrease in power from the source of distribution through the electrical cable or wire. The drop occurs from the resistance of the current running through the electrical cable or wire. This is more commonly a problem in larger buildings

- Establish if your power is 1-phase or 3-phase as this will impact what is required

HOW TO REDUCE THE IMPACTS OF A VOLTAGE DROP?

Working on the most common 1-phase and needing a 110v to run each machine at an optimum level, you must:

- Where possible use the shortest extension lead especially if it is 1.5mm thick, this is to reduce the voltage drop from the distribution point to the machine.
- If a longer cable is required, then it is crucial that the thickness of the cable increases to deliver the required load to the machines.
- If multiple extensions are being connected then ensure that the cable thickness of cable increases as well to maintain distribution levels. This is due to the natural decrease of the current moving between two extensions and potentially over a longer distance.
- Make sure that the cables are completely unraveled as the heat generated will have a negative impact on the power being supplied.



The start button needs to be depressed for the machine to work:

Solutions

- Make sure the motor has not overheated. If so, leave it to cool.
- Check the control device it may need replacing.



The machine is vibrating a lot:

Solutions

- Check the grinding speed is not too high
- There is damage causing the vibration, contact your supplier or Scanmaskin

TROUBLESHOOTING GUIDE BLASTRAC GRINDER:



There is excessive vibration or unusual noises coming from the machine:

Solutions

- Check the condition of the couplings, they may need cleaning
- Inspect the bearing on the axle as this may need replacing
- Inspect the whole machine for any other broken or worn parts as they can impact the performance of the machine



The motor on the grinder is triggering while running

Solutions

- Make sure the machine is not being overloaded, reduce the load to see if this helps
- Inspect the motor, defects can cause it to trigger

TROUBLESHOOTING GUIDE SCANDUST 2900 VACUUM CLEANERS:



Your vacuum has poor suction:

Solutions

- Check the asbestos bag is securely sealed on the main filter and ensure there are no holes
- Main or HEPA filter may need cleaning or to be replaced. Do not do this yourself if the machine has been used on hazardous materials such as asbestos. This needs to be carried out in a controlled environment to ensure particles do not spread and cause further exposure or contamination.



Strange noise coming from the vacuum motor:

Solutions

- Immediately turn off and unplug the machine, then get in touch with the supplier.



The vacuum or dust bag is being sucked into the cyclone/filter housing:

Solutions

- Make sure the valve at the bottom is not blocked or obstructed and can be fully closed.



Your machine won't start and the green light is turned OFF

Solutions

- Check the dust collector is turned on and that it has sufficient suction
- Check the dust hose connections and make sure it is not blocked
- Inspect the measuring points located in the dust connection hose and at the back of the differential pressure switch
- Make sure the air hoses are not blocked or twisted
- Check the filter is not clogged and in need of replacing
- Ensure the set point of the differential pressure switch is set at -10 mbar.

TROUBLESHOOTING GUIDE HUSQVARNA DUST COLLECTORS



Motor cuts out and won't start again:

Solutions

- Check power supply
- Make sure there is enough power (see the section on voltage drops)
- Ambient temperature is too high and impacting the product
- Contact Beacon International to check and repair the machine



Machine is running but there is no suction:

Solutions

- Make sure the machine is not being overloaded, reduce the load to see if this helps
- Inspect the motor, defects can cause it to trigger



Suction is low:

Solutions

- Check there is sufficient power (see section on voltage drop)
- HEPA or prefilter might be blocked. Contact Beacon International for further assistance or to arrange repair of the machine, especially when working with hazardous materials such as asbestos
- Ensure the top cover is not loose and there are no broken seals



There is dust escaping from the machine:

Solutions

- Make sure the filters are installed correctly and are not blocked. Do not change these outside of a controlled environment and without the relevant PPE when working with hazardous materials such as asbestos



Machine is making abnormal sounds:

Solutions

- Contact Beacon International for assistance and to arrange repair the machine

OTHER INFORMATION

PPE RECOMMENDATIONS:

Safety glasses *Manufacturers recommend these should be worn at all times

Safety boots *Manufacturers recommend these should be worn at all times

Ear defenders

Gloves

It is advisable to wear heavy-duty gloves that offer anti-vibration protection, a lot of the machines are low vibration but it is still recommended.

Respiratory Protective Equipment (RPE)

Masks are important when carrying out work on-site where there is a risk of inhaling dangerous dust particles. Exposure to hazardous materials over long periods of time can have devastating impacts on a construction worker's long-term health. To be sure a mask is protecting you or your team properly, a face fit test should be carried out by an experienced professional.

HAVE A PROBLEM WITH YOUR FLOOR GRINDER, DUST EXTRACTOR, DUST COLLECTOR, OR H-CLASS VACUUM CLEANER?

Beacon International has experienced engineers at all our depots who can service asbestos plant and in specialised facilities. If you have a problem with your machine or it just requires service, contact your local depot where one of the team will be able to help you further.

HOW TO BUY OR HIRE FLOOR GRINDERS OR VACUUM CLEANERS?

Beacon International is an official agent for Scanmaskin, Blastrac and Husqvarna products which are available on our website to buy or hire. It is important to note that hiring of any products from us is only available to MyAccount customers. This is a premium service that offers a range of benefits including 10% off website list prices, 24/7 access to invoices, your very own tailored price lists, and much more. To get an account, simply complete our quick online application form, and we will do the rest!

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