



Original instructions in English

OPERATING INSTRUCTIONS BG-180EC

VERSION 1.2





EC DECLARATION OF CONFORMITY

in accordance with Appendix II sub A of Directive 2006/42/EC

We,

BLASTRAC B.V.
 Utrechthaven 12
 NL - 3433 PN NIEUWEGEIN
 The Netherlands

Declare under our sole responsibility that the grinding machine as described below,

Model: BG-180 EC

Serial number: XXXXXB

satisfies the conditions set out in the:

Machinery Directive
 Low Voltage Directive
 EMC Directive

(2006/42/EC);
 (2006/95/EC);
 (2004/108/EC);

Where appropriate, are in conformity with the following harmonized standards:

NEN-EN-ISO 12100:2010
 NEN-EN-IEC 60204-1:2006/C11:2010

In case of changes to the machine without our written authorization this declaration loses its validity.

Nieuwegein 17-11-2015

Michiel Kalisvaart
 Operational Manager



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1. Introduction

Before use, operators must be provided with information, instruction and training for the use of the machine and the substances for which it is to be used, including the safe method of removal and disposal of the material collected. All persons who are working with or maintaining this machine must read the manual carefully and understand it fully. In case you sell the unit, hand it on to the next owner.

Keep this manual always with the machine, to enable it to be referred to at any time.

Any other work not covered by this operating manual must not be carried out.

This machine is designed for industrial use by professionals. **Only authorized and trained personnel may operate this machine.** This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. **Blastrac BV** offers a course on the use of the machine in order to make the operating and maintenance personnel familiar with all elements of the machine.

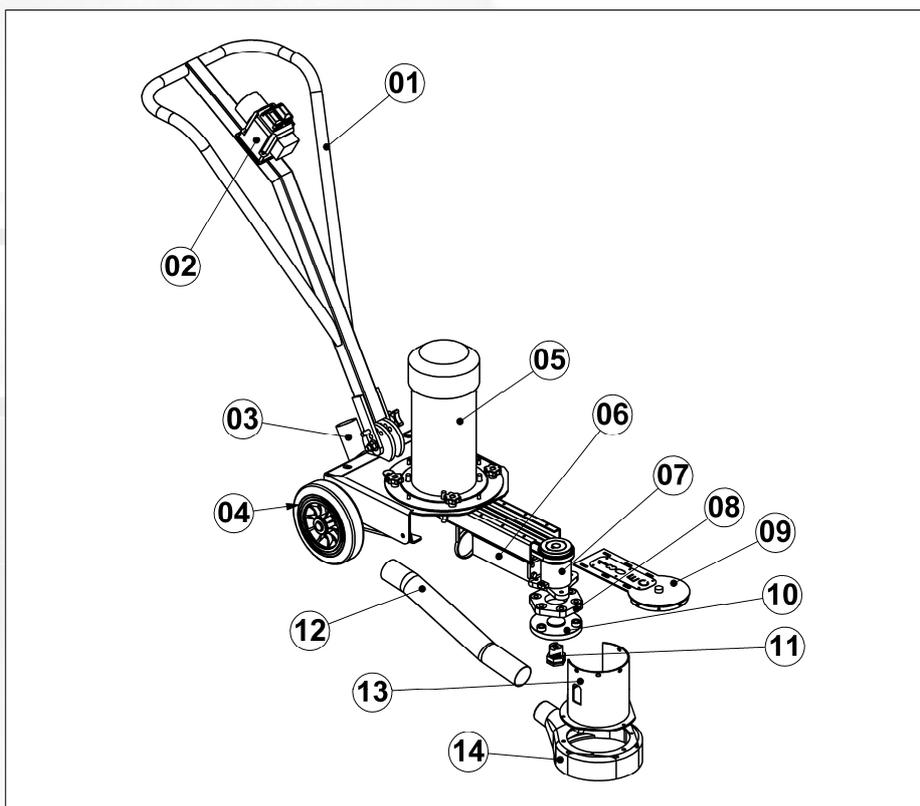
2. Machine description

The Blastrac grinding machine BG-180EC is exclusively designed to process horizontal surfaces indoor. The machine must not be used for other purposes. The manufacturer will not be liable for damage resulting from incorrect usage. In these cases the user takes responsibility for all risks.

Typical range of application of the BG-180EC are for example: To remove undulated concrete surfaces, glue residues and coating defects. Also to prepare the surface for coatings and to polish the surface. The machine may not be used without an adequate dust extraction system. A specially designed Blastrac dust collection system ensures dust-free operation of the machine and clean air at the workspace.

The BG-180EC can process an output width of 180 mm, and gives excellent performance due to its high economic efficiency and easy handling. The machine is capable of levelling uneven and undulating floors and edges, this process is suitable for an optimisation of surfaces, concrete polishing and removing tiger striping after shot blasting. This machine may not be used on wood.

Alternatively the machine can be used to smooth floor surfaces as a preparation operation for coatings to be applied. Depending on the application the diamond disc holder can be fitted with several different types of diamond-grinding discs. The number of revolutions the tools run at are 2800 revs/min.



1	Steer
2	Control box
3	Dust hose connection
4	Wheel
5	Motor 2,2 kW
6	Weight block
7	Bearing house
8	Buffer
9	Cover
10	Adapter diamond
11	Diamond plate nut
12	Dust hose
13	Cover
14	Dustcap



3. General Safety Rules



Warning!

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, explosions and / or serious injuries.

Only authorized and trained personnel may operate this machine.

In case of any inappropriate usage, improper operation or repair, the producer shall be exempt from liability.

3.1 Work area safety

- a) Do not use the machine outside, in rain, damp or wet locations. Do not use on wood.
- b) Avoid dangerous environments: do not work in the presence of explosive atmospheres, in the presence of flammable liquids, gases or dust. Remove materials or debris that may be ignited by sparks.
- c) In some cases sparks could be created by grinding.
- d) The surface to be treated must be clean, make sure to remove all stones, screws etc..**
Any stones, screws, bolts, pieces of wire etc. could cause serious damage to the machine!
- e) Make sure there is enough ambient light on the work area. Cluttered or dark areas invite accidents.
- f) Keep children and bystanders away while operating the machine. They are likely not to foresee the potential dangers of the machine. Distractions could cause you to lose control of the machine.
- g) Persons who are not operating the machine must not be permitted to stay in the surrounding area of at least 5 meter from the machine.
- h) Never use the machine when the surface is not clear and if there is a risk of stumbling or tripping.
- i) Remove electrical cables and dust hose from the surface to be treated.
- j) Make sure that there is nothing standing or situated on the surface to be treated.
- k) Make sure the machine can travel over all inequalities on the surface, small inequalities like weld seams or (floor) joints are no barriers for the machine.
- l) Never operate the machine when workplace is wet. Never stay in the rain with the machine.**
- m) Check if there are any obstacles that can snag the cables when the machine is moving.
- n) Remove reinforcing steel or other objects protruding from the surface in order to prevent damage to the compounds or diamond discs.
- o) Warning!**
Make sure that the surface to be treated does not contain dangerous materials such as:
 - **combustible or explosive dusts or substances.**
 - **carcinogenic or pathogenic substances.**
- o) The work area must be sealed off using a red and white safety chain and a danger sign.

3.2 Electrical safety

- a) Use only extension cables for extending the main cable that are sized and marked in accordance with the overall power consumption of the machine. Do not use damaged extension cables.
- b) Electrical cables must be rolled entirely off of the reels.
- c) Any damage to the electric cables and/or electrical components is not permitted.
- d) The voltage on the identification plate must comply with the power supply.
- e) Use an electrical power supply connection with earth connection and earth leakage circuit breaker.
- f) The circuit breaker of the power supply must have a 'D' characteristic. Circuit breakers with a 'C' or 'B' characteristic can give problems when switching the motor on.
- g) Keep the machine original; The machine is always equipped with an earthed connection, do not change this** and always use earthed cables with an earthed plug.
- h) Inspect and test the electrical components regularly. The electrical components have to satisfy with the requirements set out in the harmonised norm EN60204-1.
- i) Always call a skilled electrician or your distributor when you have questions about the safety of the electrical components.
- j) Work on electrical equipment or operating materials may only be undertaken by a skilled electrician or by trained persons under the guidance and supervision of a skilled electrician as well as in accordance with the electrical engineering regulations.
- k) Do not abuse the cables. Never use the cables for carrying, pulling or unplugging the machine. Keep cables away from heat, oil, sharp edges or moving parts. Damaged or entangled cables increase the risk of electric shock.



- l) Be careful with water on the treated surface. Electrical cables must not come into contact with water.
- m) During a long standstill of the machine, cover the machine with plastic foil.
- n) If the machine is to be operated using power from a generator, the generator must be operated in accordance with the current legal regulations and directives in force. (this applies to the protective earth conductor in particular) in order to ensure that all safety devices are functioning and to eliminate possible damage to electrical components.

3.3 Personal safety

- a) **Always wear Personal Protective Equipment while working with the machine.**
- b) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.
- c) Stay alert, watch what you are doing and use common sense when operating the machine.
- d) Disconnect the power supply before any inspections, adjustments and/or maintenance work is started.
- e) All persons in the proximity of the machine, must wear ear protectors and safety shoes.
- f) Always seek professional medical attention immediately in case of injury.

3.4 Machine safety general

- a) Safety functions and operating functions must work correct.
- b) No loose bolts and nuts permitted.
- c) Never operate machine without the guards and/or safety devices in place.
- d) Never change anything on the safety devices on the machine!
- e) The machine, especially the handle grip must be free of fats/oils and has to be dry.
- f) All repair work has to be done by qualified Blastrac personnel, this guarantees a safe and reliable machine.
- g) Always use original Blastrac spare parts and grinding disks. This will ensure the best performance. Only original Blastrac parts meet the factory specifications and quality. Otherwise Blastrac BV cannot guarantee the safety of the machine. The part numbers can be found in the Service Manual.
- h) If **safety-critical changes** occur to the machine or its working method, the machine must be **shut down immediately!** The cause of the fault must be established, and rectified.
- i) In the event of **operational malfunctions** the machine must be **shut down immediately** and secured!
- j) Do not **open** or **remove protective guards** while driving gears are running.

3.5 Maintenance safety

- a) Disconnect the power supply before starting inspections and repairing on the machine.
- b) Wait for standstill of all drives before any inspections, adjustments and/or maintenance work is started.
- c) Block machine in a stable position before doing any maintenance work.
- d) Failures due to inadequate or incorrect maintenance may generate very **high repair costs** and long standstill periods of the machine. **Regular** maintenance therefore is imperative.
- e) Operational safety and service life of the machine depends, among other things, on proper maintenance.
- f) Prevent premature wear by keeping the machine as dust free as possible. Clean the machine for this reason regularly with a dust collector and non-aggressive materials. Never use a high pressure water cleaner to clean the machine.
- g) It is advisable to stock all spare parts or wear parts that cannot be supplied quickly. As a rule, production standstill periods are more expensive than the cost for the corresponding spare part.
- h) Do not use any **aggressive** cleaning materials!
- i) Use lint-free **cleaning cloths!**
- j) For the electrical parts, use a tool that is insulated against voltages.

3.6 Safety regarding dust collectors

- a) Always use a Blastrac dust cleaner to ensure a dust-free operation of the machine and clean air at the workspace. Also the airflow helps to cool the machine and prevents overheating.
- b) Read the operating instructions before using the dust collector.
- c) The dust container/bag of the dustcollector must be emptied regularly. Comply with the local waste treatment regulations considering the removed material.
- d) The dust hose must be connected properly with a hose clamp and industrial tape.
- e) The dust hose must be undamaged and free of obstructions.
- f) Always switch on the dust collector first!



3.7 Grinding safety

- a) The machine contains rotating parts, which are protected with a cover. Always leave the diamond disc on the floor while the motor is turning.
- b) The buffer can become worn out with use, because of this there can be higher vibrations than normal. Check for this reason the buffer for deformation and damage before every use.
- c) Always put a diamond disc or blade nut under the adapter diamond when the machine stands still.
- d) Make sure the diamond disc is not damaged or worn out.
- e) Always disconnect the power supply before u start changing the disk.
- f) When mounting or removing a diamond disc; lay down the machine so it is lying on the handle. Make sure the machine will not fall back down. A second person can stand on the handle to make sure it will not fall back down.
- g) For changing the disk u should wear Personal Protective Equipment like a dust mask, safety goggles, gloves, protective shoes, and close fitting protective clothing. Use the vacuum cleaner to prevent excessive dust.
- h) Caution! The grinding disk will heat up during grinding, don't risk getting burned, always wear protective gloves when handling them.
- i) The machine contains rotating parts; because of this never pull the machine backwards with a turning motor.
- j) Be careful with the machine and pull or let down the machine slowly, big shocks can damage the electrical parts.

3.8 Transport safety

- a) Be aware of your surroundings and machine operating level. Do not side hill, do not run on steep incline, this could cause machine to tip over.
- b) The net weight of BG-180 EC is 60 kg. Use a crane or lift when transporting the machine.
- c) When lifting the machine from the ground, always use the lowest lifting speed. The cables must first be tensioned at this speed; they must not be slack when the machine is lifted from the ground.
- d) During hoisting make sure to be at a safe distance from the machine with the most optimal view on the machine and working environment.
- e) Never stand directly below the machine.
- f) When transporting the machine do so in such a manner that damage due to the effects of the use of force or incorrect loading and unloading is avoided.
- g) Always drive backwards when driving up to a ramp or grade, and forwards when driving of the ramp.
- h) Chock wheels for transport and keep control handle in neutral position.
- i) Don't leave the machine unsecured on jobsites.
- j) Park the machine always on a flat horizontal and levelled surface.
- k) Make sure the electrical cable and dust hose are disconnected.
- l) Store the cleaned and dry machine in a humid free room. Protect the electrical motor from moisture, heat dust and shocks.
- m) Never use the machine for lifting persons or items.



Signs on the machine

The following stickers are placed on the machine. Meanings of these symbols are:

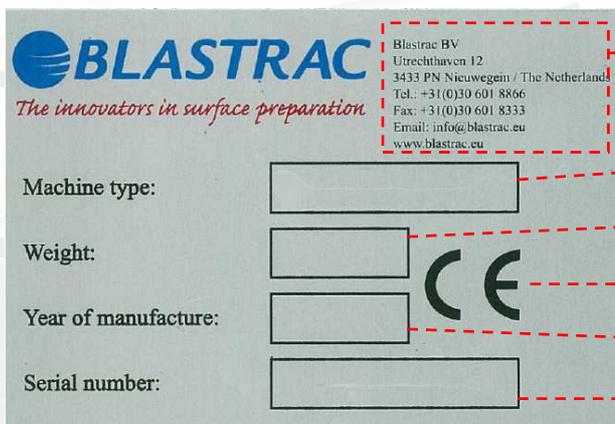


- Danger, disconnect electrical supply before working on this equipment



- Wear a dust mask class FFP2 or higher
- Ear protection is obliged
- Safety glasses with lateral protection are obliged
- CE-mark on this machine
- Wear protecting gloves
- Safety shoes obliged
- Consult the manual before operating the machine

Personnel must tie back long hair and not wear loose clothing or jewellery including rings.



Name, address, telephone & fax number, Email address and website.

The machine type.

The net weight of the machine in kilogram.

CE mark.

The year of manufacture.

The serial number of the machine.

4. Initial operation

Before using the machine it is important to inspect the machine. It is not permitted to use the machine if the machine safety is not according the checkpoints below. Before switching on the machine make sure that no-one can be endangered when the machine starts up!

4.1 Checkpoints of electrical safety

- Use only extension cables that are sized and marked in accordance with the overall power consumption of the machine.
- Electrical cables must be rolled entirely off of the reels.
- Any damage to electric cables is not permitted.
- Use an electrical power supply connection with earth connection.

4.2 Checkpoints of machine safety

Check if:

- The safety functions and operating functions work correct.
- The diamond disk is not damaged.
- There is no damage to the electrical components.
- There are no loose nuts or bolts.
- There is no damage to the dust hose and if it is connected correctly.

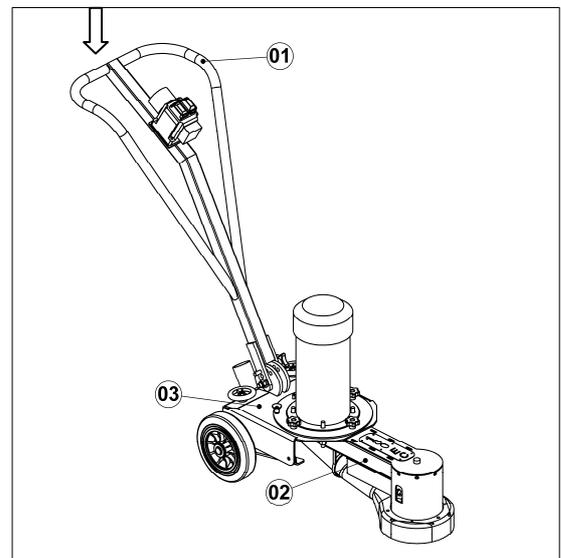
4.3 Manual moving of the machine

To move the machine press down the handgrips of the machine until the front part rises approximately 10 cm from the ground.

It can now be pushed around on its wheels.

The machine should only be moved around when the dust hose and power supply cable are disconnected.

WARNING! Always make sure the diamond disk and motor have come to a complete standstill before moving around the machine.



4.4 Transport with lifts or cranes

If the machine is to be transported by the means of a crane or a fork lift truck, make sure that the lifting means is of sufficient capacity to lift the weight of the machine, this gross weight is 58 kg, it is also shown on the shield-type bolted to the machine.

Fasten any lifting slings to the points (2) or (3) on the machine frame, these points are also suitable as a fixing point for fastenings, during transportation of the machine on or in a vehicle.

When transporting the machine in a vehicle drive in such a manner that damage due to the effects of the use of force or incorrect loading and unloading is avoided. Secure the machine with a tightening load strap over the lower frame (3) and frame arm (2). Use at least two straps, and tighten down with the load straps to the bodywork of the vehicle.

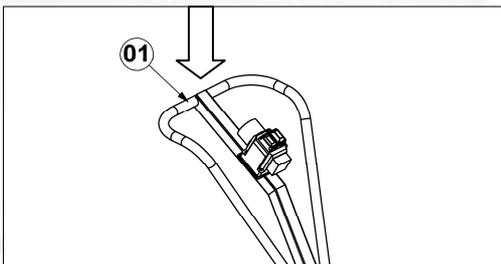
4.5 Before start-up

Before start-up the operating personnel must be familiar with the safety regulations given in this manual.

- Put the grinding machine and the dust collector on to the surface to be processed.
- Fit the appropriate diamond grinding disc that is required for this particular process. Please read **chapter 7** of this manual.
- Use an extension cable (CEE 16 Amp), to connect the machine and the dust collector to the electricity supply point, these electric supply points should be protected and equipped with an earth connection and earth leakage circuit breaker. In case of doubt ask the local safety officer.
- Check the dust hose for damages and obstructions. Make sure the dust bin of the dust collector unit is empty. Observe the local regulations regarding waste disposal.
- Connect the grinding machine and the dust collector unit with the flexible dust hose. Use hose clamps at the connections.
- Before grinding, clean the surface to be treated. There should not be any trash, stones, cloths, or liquid on the surface.
- Remove all objects from the surface that can damage the machine. Remove reinforcing steel or other objects protruding from the surface in order to prevent damage to the machine, the seals or diamond disc.
- Check the water leveler on top of the grinding head, level the machine by turning the 2 adjustment wheels up or down.

5. Operating

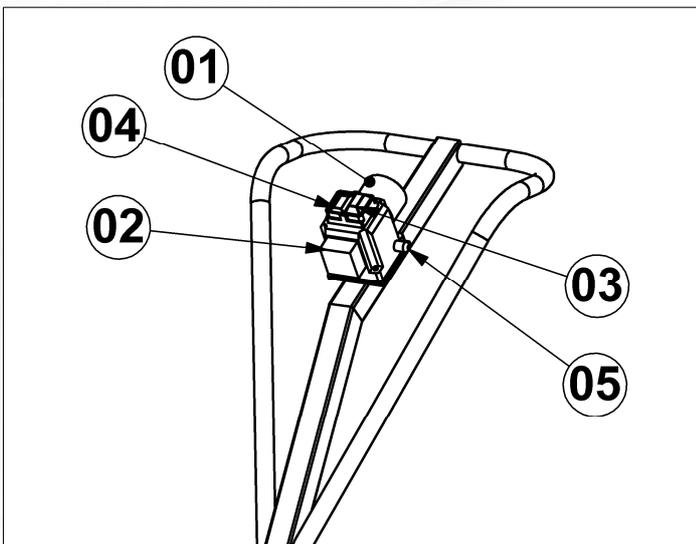
When operating the BG-180 EC, the following additional safety instructions must be followed closely.



Before Switching on the BG-180EC, the front part of the grinding machine must be lifted by pushing the handgrip (1) down to floor level till the machine is approximately 10cm from the ground.

Push the green start button (4)

Now let down the grinding disc on the surface and begin the grinding work. Move the machine slowly forwards or reverse dependent on the grinding work.



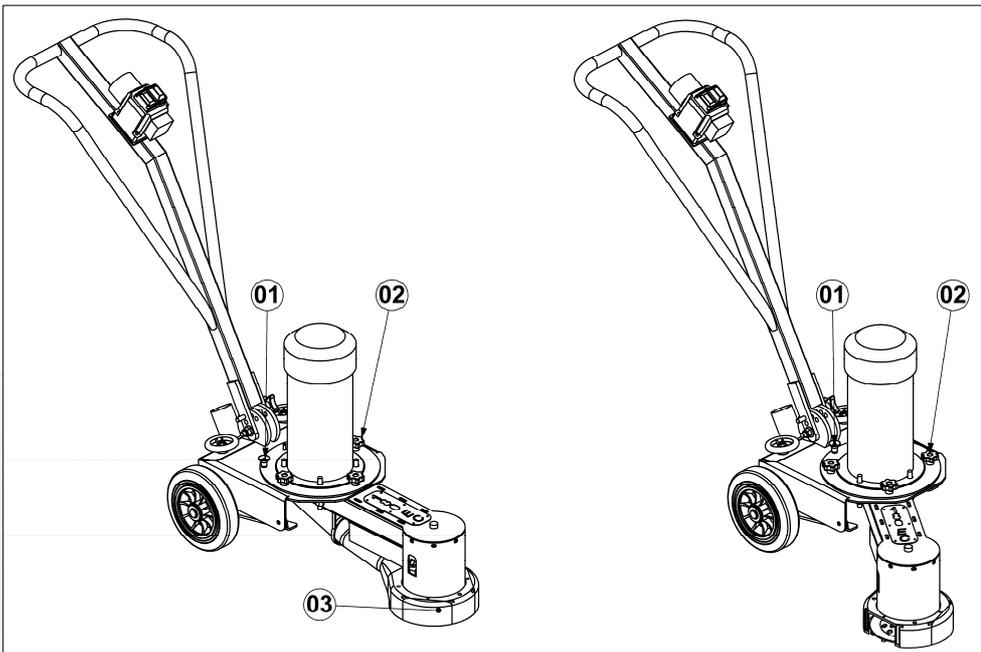
1	Electrical inlet power supply
3	Stop button (red)
4	Start button (green)



5.1 Grinding of edges

The machine is built to grind edges. By sweeping the frame arm to the left or the right, and take out one of the two cornercaps you can grind the edges.

- Disconnect the power supply cable.
- Loosen the tension on the three knobs (02).
- Take out the quick release pin (01) and turn the frame arm until the quick release pin (01) fits in another gap.
- Tension the three knobs (02).
- Take out one of the two cornercaps (03) for grinding along edges.



1	Quick release pin
2	Knob
3	Cornercap

Make sure that no vehicles, such as forklift trucks and other equipment run over the electric cable and the dust hose.

5.2 Stopping the machine

Push the red stop button.
 Wait for a complete standstill of all drives and machine parts.
 Disconnect the power supply cable and dust hose.
 Turn the dust collector off.

5.3 Operating during grinding

It is advised to keep the machine constantly in movement for an optimum grinding result.

For soft floors it is recommended to work on high disc speed, for hard floors and the first steps of polishing it is recommended to grind with low speed of the tools.
 On hard floors and during polishing it is recommended to have a low grinding pressure.

In case of emergency or operating trouble, like vibrations or strong noises, switch the machine off immediately by hitting on the OFF-button!

Contact our experts at Blastrac for the correct application of the different tools and their corresponding working speeds.



6. Maintenance

Pay attention to Chapter 3 "**Safety**" during maintenance and repair works.

Failures due to inadequate or incorrect maintenance may generate very **high repair costs** and long standstill periods of the machine. **Regular** maintenance therefore is imperative.

Operational safety and service life of the blast machine depends, among other things, on proper maintenance.

The following table shows recommendations about time, inspection and maintenance for the normal use of the machine.

Operating hours/ time period	Inspection points, maintenance instructions
12 h after repairing	Check all accessible screw connections for tight seat.
Daily and prior to starting work	Check that all safety devices working adequate. Check the power supply cable for damages. Check the hose to the dust collector for damage. Check whether or not, there are any foreign matter in the coupling of the grinding disc. Check the grinding disc and the coupling for wear. Check the tension of the V-belt, adjust as is required. Check the dust cap for damage Check the electric connections for sediments of dirt or foreign bodies. Check the electric motor for dirt and other contaminants.
Every 3 months	Clean the complete machine with a damp cloth.
Every 200 hours	Replacement of the pulley parts.
Annually	Full overhaul and cleaning of the complete machine.

Pay attention to unusual noises or strong vibrations. Check for the cause of every big change. Call a technician if you have doubts about the cause or when a repair without a technician seems not possible without damages. Only use genuine Blastrac spare parts.

Generally the grinding machine BG-180EC requires very little special attention regarding its maintenance. After using the BG-180EC, clean the machine with the dust collector, so there is no dust on the machine. See to it that any wastes or fibre residues do not remain in the area of the grinding disc.

Dependent on the use of the machine the pulley should be checked about every 200 hours.

Due to different working conditions it can't be foreseen how frequently inspections for wear check's, inspection, maintenance and repair works ought to be carried out. Prepare a suitable inspection schedule considering your own working conditions and experience. However a full overhaul must be carried out at least once a year.

Our specialists will be happy to assist you with more advice.

Prior to any repair works on the machine and its drives, secure the machine against unintentional switching on. Disconnect the power supply.

Follow additional operating and maintenance of OEM if included during your service and maintenance work.



Further is advised:

Store the cleaned and dry machine in a dry and humid free room. Protect the electrical motor from moisture, heat, dust and shocks.

All repair work must be done by qualified Blastrac personnel, this to guarantee a safe and reliable machine.

Any guarantee on the machine is expired when:

- Non original Blastrac parts have been used
- Repair work is not done by qualified Blastrac personnel
- Changes, add on's or conversions are undertaken without written permission of Blastrac BV

It would be advisable to stock all spare or wear parts that cannot be obtained quickly. As a rule, production standstill periods are more expensive than the cost for the corresponding spare part.

Screws that have been removed must be replaced with those of the same quality (strength, material) and design.

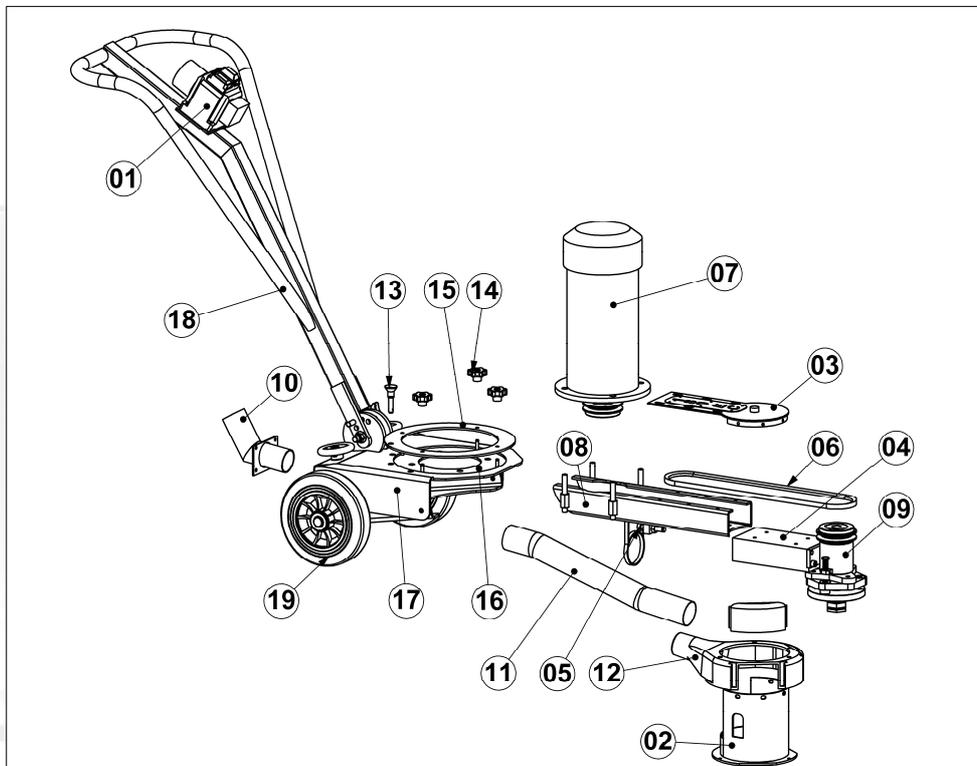


Fig. 7.2

6.1 Disassembly:

- Make sure that the power supply is disconnected from the electrical inlet (01)
- Take off the cover (02) and (03) and loosen the bolts from the weight block (04) and (05)
- Unscrew the bolts of the dusthose connector (10) so the dusthose (11) and the dustcap (12) can be removed.
- Take off the v-belt (06) from the bearing house (09) and remove the motor (07) so the frame arm (08) with the bearing house (09) can be disassembled
- By removing the quick release pin (13) and the knobs (14) the upper (15) and under plate (16) can be disassembled.
- The wheels (19), steer (18) and frame (17) can now be disassembled.

Assembly: Assemble the parts in the reverse order that they have been disassembled.

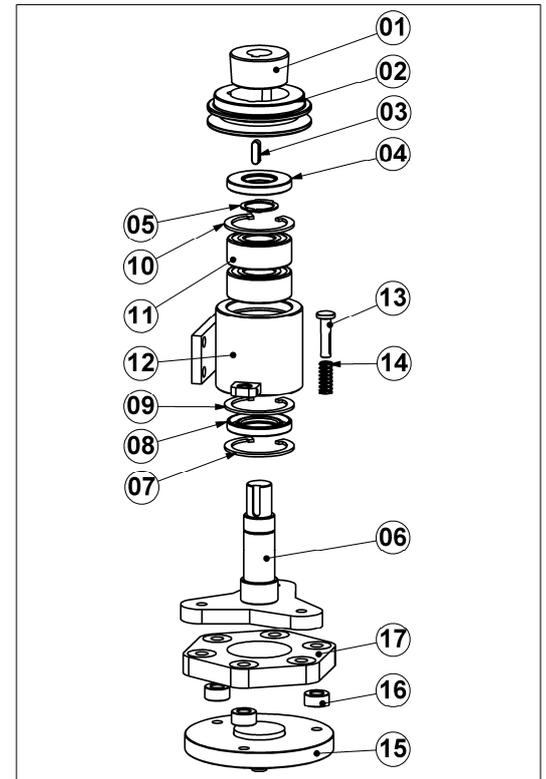
6.2 Bearing house maintenance

Disassembly:

- Take off the taperlock bush (01) with the pulley (02) and key (03)
- The adapter diamond (15), spacer rings (16) and buffer (17) can be unscrewed from the axle
- Remove the v-ring seal (04) and the retaining ring (05)
- Disassemble the axle (06) from the bearing house (12)
- Take off the retaining ring (07) v-ring seal (08) retaining ring (09) &(10) and remove the bearing (11) out of the bearing house (12)
- The lock pin (13) and the spring (14) can always be disassembled

Assembly: Make sure that the bearings (11) and bearing house (12) are clean and rub the bearings (11) in with a few drops of **loctite 641**.

Assemble the parts in the reverse order that they have been disassembled.



Other maintenance

Check the seals for wear, and replace them at the time when they no longer provide a good seal against dust emissions from the machine, by this action damage to the surrounding workspace is avoided, and consequently saves additional charges from the job client.

Clean the machine with a damp cloth. Never use a high pressure water cleaner!

Apply oil to the adjusting pin of the operating lever, and other moving parts with clean oil can at regular intervals.

Always put a diamond disc or blade nut under the adapter diamond when the machine stands still.

7. Changing the disk

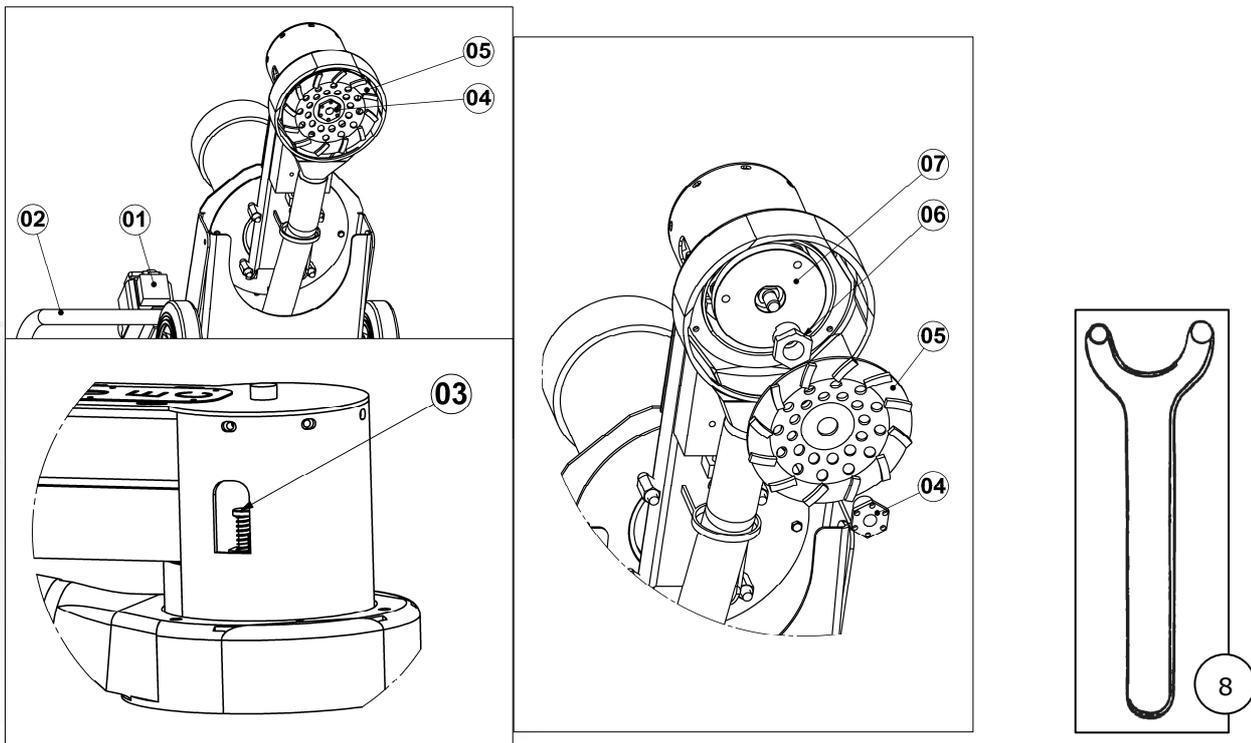
Warning! Always wear Personal Protective Equipment!
The dust can be hazardous to the health! Wear a dustmask!
The wings can get hot! Don't risk burning your hands! Wear protective gloves!

- Pull Disconnect the power supply
- Always wear a **dust mask** of at least **class FFP2** and gloves.
- Use the dust collector in order to work as dust free as possible



**Disassembly:**

- 1 Make sure that the power supply is disconnected from the electrical inlet (01).
- 2 Tilt the machine to the back with the help of the handgrips (02) and lay it down on the steer (02).
- 3 Remove all the dust using the vacuum cleaner.
- 4 Push the lock pin (03) down until the disc (05) is blocked.
- 5 Loosen the blade nut (04) using the spanner (8) and remove the diamond disc (05) and arbor nut (06).

**Assembly:**

- 6 Clean the adapter diamond (07)
- 7 Place the arbor nut (06) on the adapter diamond (07)
- 8 Place the diamond disc (05) on the arbor nut (06) and turn the blade nut (04) on till the disc begins to turn.
- 9 Push the lock pin (03) down till the disc blocks and turn the blade nut (04)
- 10 Tilt the machine forwards.

When replacing the grinding disc, also check the condition of the drive pulley and the diamond tool holders.

8. Troubleshooting

Fault	Possible cause	Remedy
Excessive vibration	Imbalance due to worn or broken grinding tools. PU-belt is too tight.	Replace all worn or broken parts. Release the tension of the upper belt.
Unusual noises	Defective bearing. Wrong tension of the V-belt Defective motor bearing. Debris deposit on the coupling.	Check the bearing on the axle drive shaft and replace if necessary. Check the tension of the V-belt, replace the V-belt if necessary. Change the motor. Clean the coupling.
Reduced or no grinding performance	Grinding tools have reached the maximum permissible wear. Inappropriate grinding tool for the application. Too low tension of the V-belt.	Replace the worn parts. Replace the grinding tools with appropriate grinding tools for the surface to be treated. Re-tension the V-belt.
Motor does not switch on	Missed phase Defective Component.	Check the mains power supply and next switch on again. Fault finding and replace defective component.
Motor triggers while running	Motor protections switch triggered because of overload . Motor has a defect.	Reduce additional load . Check the motor.

9. Technical data

	BG-180 EC
Power consumption motor	2,2 kW
Connected loads 2,2 KW	220V single phase, 12,9A
Power consumption	1,5 KW 50Hz/60Hz
Connected loads 1,5 KW	110V single phase 12,9A / 18A
Length	1315 mm
Width	432 mm
Height	1010 mm
Weight	60 kg
Dust hose connection	50 mm Ø
Suitable filterunit	Contact Blastrac BV we will assist you with a good advice

Design and specifications are subject to change without notice by Blastrac BV.

If the grinding machine BG-180EC is to be operated using power from a generator, the generator must be operated in accordance with the current EN-VDE directives (this applies to the protective earth conductor in particular) in order to ensure that all safety devices are functioning and to eliminate possible damage to electrical components.

The sound level of this machine is measured according to EN-ISO 3744, the A-weighted emission sound pressure level at the workstation could exceed 80dB (A), in this case suitable ear protection is obliged.

The A evaluated noise level of the machine is typically:

- Emission sound pressure level: $L_{pA} = 86 \text{ dB(A)}$;
- Sound power level: $L_{WA} = 92 \text{ dB(A)}$;
- Uncertainty: $K = 0.5 \text{ dB(A)}$.

The hand-arm system transmitted vibration level has been measured according to international harmonized standards EN-ISO 5349-1 and EN-ISO 5349-2, testing may be carried out on a representative sample of technically comparable machinery.

Total hand transmitted vibration value (sanding simulation on coated plate fixed to the ground, in free field.):

- Emission value: 2.77 m/s^2
- Uncertainty: 0.24 m/s^2

The indicated measurements refer to new machines. Daily use, different surfaces and abrasive causes the noise and vibration values to change.



Because the value is above 2,5 m/s², we recommend to use measures to decrease hand-arm vibrations.

Tips for decreasing the exposure to hand- arm vibrations:

- Protect the hands with vibration dampening gloves
E12000 – Anti-vibration gloves
- Clean the plates before attaching the wings
- Clean the wings before attaching them to the plates
- Proper maintenance of the machine
- Scheduled replacement of the shock absorbing machine parts
- Keep the hands warm
- Prepare a work schedule and plan in rest periods

IMPORTANT NOTE:

The declared vibration emission level represents the main applications of the machine. However, if the machine is used for different applications, with different accessories or poor maintenance, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

A precise estimation of the level of exposure to vibration should also take in account the times when the machine is switched off or even running, but not actually in use. This may significantly decrease the exposure level over the total working period.

Old equipment contains valuable materials which are valuable for re-processing. **The machine parts must not be thrown away in the normal household waste**, but should be disposed of at a suitable proper collection system, e. g. via your communal disposal location. This way the materials can be re-used in an environmentally responsible manner.

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