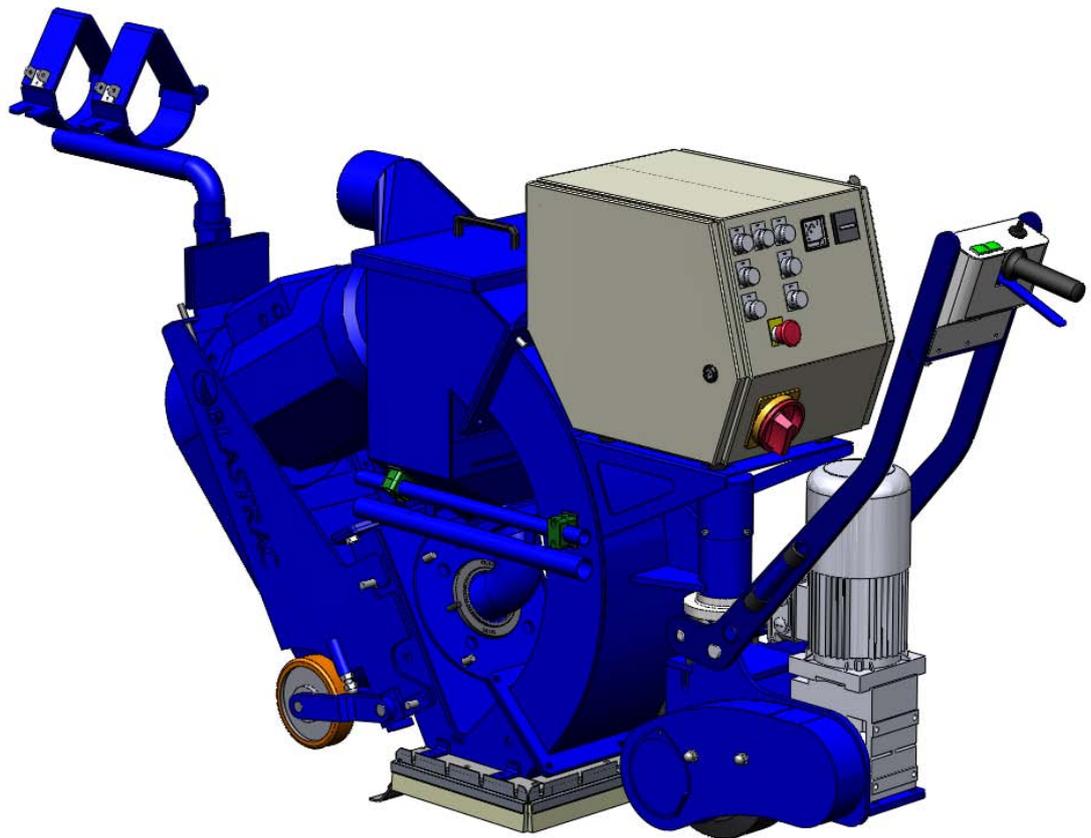




1-10DS Global

Version 1.0



info@blastrac.eu

EC DECLARATION OF CONFORMITY

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

BLASTRAC B.V.

Utrechthaven 12
NL - 3433 PN NIEUWEGEIN
Tel: 0031 (0)30 601 88 66
Fax: 0031 (0)30 601 83 33
Info@Blastrac.nl
The Netherlands

Declare under our sole responsibility that the machine as described below
Conforms with the Health and Safety requirements of the European Directive
of the machine Safety.

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

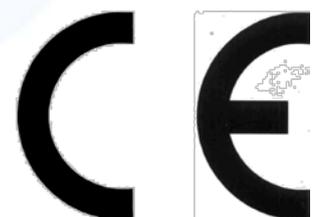
Model: *BLASTRAC 1-10DS Global* **Serial number:**

1. satisfies the conditions set out in the Machine Directive (Directive 2006/42/EC);
Low voltage directive (2006/95/EC, as last amended; EMC directive 2004/108/EC,
as last amended)
2. satisfies the following harmonized standards:
NEN-EN 349, NEN-EN 418, NEN-EN 294 and NEN-EN 60204

Nieuwegein



Michiel Kalisvaart



info@blastrac.eu

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1. Introduction

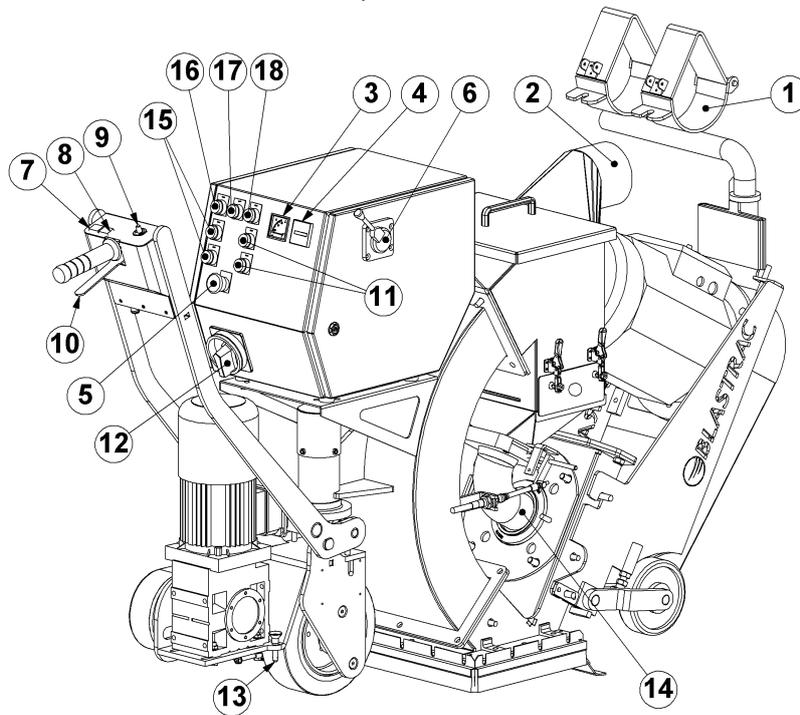
It is important that all persons who are working with or maintaining this machine must read the manual carefully and understand it fully. Keep this manual near to the machine, to enable it be referred to at any time

Only authorized and trained personnel may operate this machine.

2. Machine description

The **Blastrac** blast cleaning machine 1-10DS Global is a downward blasting machine with a closed abrasive circuit designed for the pre-treatment of horizontal surfaces. The bouncing impact of metallic abrasive onto the surface to be treated thoroughly removes surface contaminants, coats of paint, sealants and thin coatings.

A suitable filter unit must be connected to the machine in order to separate the dust from the abrasive. A specially designed dust collection system ensures dust-free operation of the machine and clean air at the workspace.



- | | | |
|-----------------------------|--------------------------|------------------------------------|
| 1 Hose and cable clamp | 7 Overdrive | 13 Quick release pin |
| 2 Dust hose connection pipe | 8 Move forwards | 14 Feed spout |
| 3 Ammeter blast motor | 9 Drive speed control | 15 Drive control ON and OFF |
| 4 Hour counter | 10 Travel switch | 16 Control lamp Control voltage ON |
| 5 Emergency shutdown | 11 Blastwheel ON and OFF | 17 Control lamp FAULT |
| 6 Abrasive control | 12 Main switch | 18 Control lamp Blast motor ON |

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3. Safety

Before operating the machine, the personnel must be familiar with the safety instructions given in this manual.

Keep this manual near to the machine, so it can always be consulted.

Safety precautions

- The surface to be treated must be swept clean to remove stones, screws etc.
- Never use the machine when the surface is not clear and if there is a risk of tripping.
- Make sure there is not any water on the surface to be treated.
- Don't get disturbed during the activities.
- Remove any trailing electrical cables and or dust hoses from the surface to be treated.
- Always switch on the dust collector.

Safety regulations

- Persons who do not operate the machine are not permitted to stay in the surrounding of the machine. Don't leave children anyway.
- Keep the machine original; Use cables who are approved and not damaged. Never remove the earth connecting of the supply cable and machine. Use only cables with earth wire and connectors with a earth connecting.
- Connect main power supply cable to a installation with a earth leakage circuit breaker.
- Inspect and test the electrical components of the machine regularly. This electrical components have to satisfy to the requirements EN60204-1.
- Always call a skilled electrician when you have questions about the safety of the electrical components.
- 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.
- Pull out the main plug during inspections and repairing on the machine.
- Never operate the machine when workplace is wet.
- Never stay in the rain with the machine.

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The following sticker is placed on the machine.



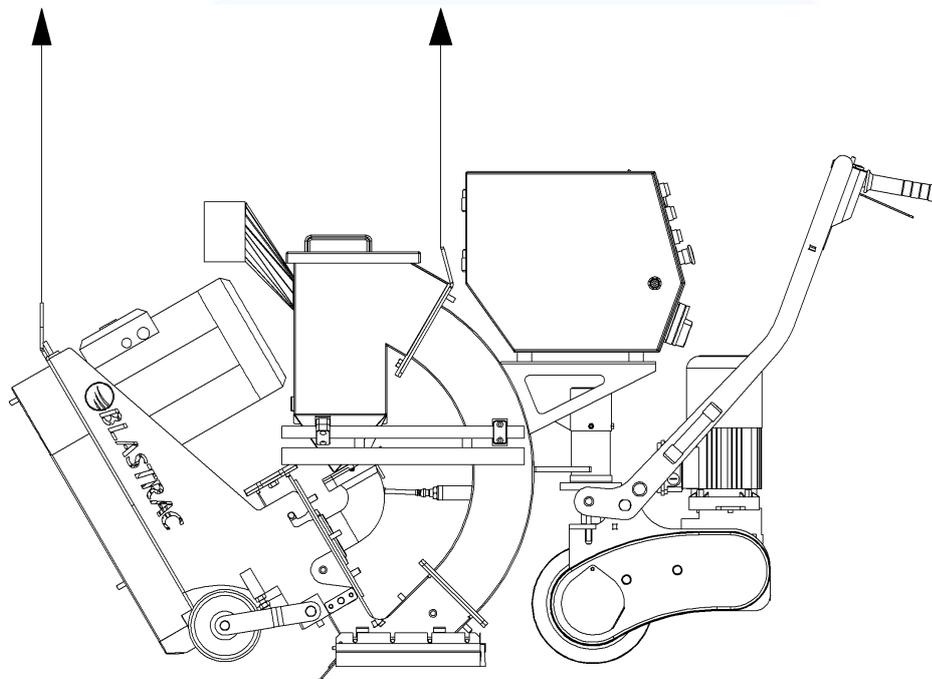
Meanings of these symbols are:

- Ear protection is obliged
- Safety glasses with lateral protection are obliged
- CE-mark on this machine
- 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. Wear gloves and dust mask during operating the machine.

Safety instructions

- Abrasive can escape from the sides of the blast head at high speed. Wear safety glasses with lateral protection and close-fitting protective clothing.
- Be very careful with inserting the quick release pin
- The machine, specially the handle grip must be free of fats and has to be dry.
- The dust container / bag of the filter unit must be emptied regularly. Comply with the local waste treatment regulations considering the removed material.
- The weight of the 1-10DS Global is 320 kg. By transport the machine with a crane or lift, use the lifting eyes of the machine.
- Pay attention that the drive unit do not turn away during lifting the machine.



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4. Initial operation

Before using the machine it is of great importance to inspect the machine. It is not permitted to use the machine if the machine safety is not according to the checkpoints below.

Checkpoints power supply

- Use only extension cables for extending the main cable that are sized and marked in accordance with the overall power consumption of the machine.
- Electrical cables must be fully unwound from their reels.
- No damage is permitted for electrical cables.
- Use an electrical power supply connection with earth connecting.

Checkpoints of machine

- Safety functions and operating functions must work correctly.
- Check the following parts for damage and wear: blastwheel, feedspout, liners, magnet- and brush sealing.
- No loose bolts and nuts permitted.
- No any damage of electrical components permitted.
- Dust hose must be undamaged and the connection must be reliable.
- Check the parts of the separator for wear and defects. Remove foreign bodies and dust deposits.



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5. Operating

During operating the 1-10DS Global, the following additional safety instructions must be followed closely.

Before switch on

- Check if the distance from magnet to the floor is 8 – 10 mm. Check this height with aluminum strips.
- Check the distance from brush sealing to the floor. This may be max. 1 mm.
- Fill the separator equally with the selected abrasive up to the bottom of the separator tray. The magnetic valve must be closed whilst doing this.
- Connect the blast machine and filter unit with the dust hose. This connection must be reliable.
- Connect the power supply cable of the filter unit with the generator. Be sure that electrical power supply is correct.

Switch on the machine

- Before switch on the blast machine, switch on the filter unit.
- Press the green push button "Blast wheel ON" and check the rotating direction of the blast motor. The correct direction is given with a arrow on the housing of the motor.
- Select the speed using the speed control knob. (item 9 of machine description)
- When the machine is traveling pull the abrasive control cable to open the magnetic valve. Observe the ammeter. It may indicate the full load amperage. After having blasted aprox. 2 m, close the abrasive valve, stop the machine and check the blasted surface.
- If the 'hotspot' is too much on the right, turn clockwise the cage a little bit. Loose the cage clamps and turning the control cage in the suitable direction. The cast grooves on the control cage show the position of the control cage opening. Tighten the nuts of the cage clamps after adjusting.

Switch off the machine

- Close the abrasive valve
- Press the red button "Blast wheel OFF"
- Press the red button "Drive OFF"
- Switch the main switch to position "OFF"
- Pull out the connector of the main power supply of the machine.
- Switch off the filter unit.
- Wait for standstill of all drives before any inspection or maintenance works are started.

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6. Maintenance

Changing the liners

- Loose the press bolt of the top liner and remove the cover.
- Loosen the nuts of the side liners and plenum liner. Take them out at the bottom of the housing.

To mount the liners, keep on the following sequence:

- First place the plenum liners and fix it with the nuts.
- Place the side liners inside the housing. The sideliners may stick out the body for max. 1mm. Tighten the nuts.
- Place the top liner in the housing and make sure that the top liner sits close to the edges of the side liners.
- Place the cover and tighten the bolts.
- Tighten the pressure bolt of the top liner slightly and press the top liner against the side liners.

Changing the tune-up kit

The tune-up kit consists of the blastwheel, the cage and a bolt.

- Remove the feed spout
- Remove the cage clamps
- Remove the cage and blastwheel cover plate
- Block the blastwheel and remove the central fixing bolt
- Take the blastwheel out of the housing

Use a new central fixing bolt when mounting a new blastwheel

- Place the blastwheel on the hub and tighten the central fixing bolt.
- Fix the blastwheel cover plate with 3 nuts and clamping handle.
- Insert the control cage in the center and clamp the cage with the control clamps so that the blastwheel can rotate freely
- Turn the blastwheel manually. It must rotate freely.
- Place the feed spout between the abrasive valve and the cage.

Clean the machine every day with air and non-aggressive materials. Never use a high pressure water cleaner to clean the machine.

Store the cleaned machine in a dry room. Protect the electrical motor from moisture, heat dust and shocks. Remove the abrasive out of the abrasive storage hopper.

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

Any guarantee on the machine is expired when:

- By not using original Blastrac spare parts and abrasive.
- When repair work is not done by qualified Blastrac personnel.
- When changes, add ons or conversions are undertaken without written permission of Blastrac BV.

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7. Selection of abrasive

Media nr. 2

Is often used when the surface is only subsequently sealed.

- creates fine profiles, e.g. on vacuum concrete and non-glazed tiles
- removes thin layers of rust on steel surfaces
- removes thin layers of paint

Media nr. 3

- creates a fine to medium texture on concrete.
- removes glazing from tiles prior to subsequently coating with antiskid floor sealings
- removes old impregnations and coatings about 1 mm thick

Media nr. 4

Standard abrasive, suitable for about 50-60 % of all applications. Creates a medium profile on concrete. Fulfills the same purpose as Media No. 3 when a higher speed of the machine is required, e.g. on asphalt, in order to keep the thermal load low.

- removes laitance from new concrete
- roughening of smooth concrete or natural stone
- removes coatings with a thickness of 1-3 mm
- cleaning of steel surfaces

Media nr. 5

This media is used to create a coarse profile or to increase the work speed in the case of surfaces hard to treat.

- removes sediments on concrete prior to coating
- removes thick paint coatings or rust from steel surfaces, bridges, tanks, etc.
- removes flexible coatings on parking house decks
- removes road markings and retexturing of asphalt and concrete roads

Media nr. 8

Only as an addition to Media No. 3, No. 4 and No. 5 with maximum 30% content.

Media No. 8 should never be used without blending since otherwise the wear in the machine as a whole would increase disproportionately.

- removes polyurethane coatings
- removes adhesive remnants
- removes rubber deposits
- penetrates coatings hard to remove
- also suitable to be used on steel for extraordinary roughness

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8. Technical data

	1-10DS Global
Power consumption blast motor	11KW
Electrical connection (voltage is given on the control box)	400V / 50Hz /32A
Blast width	254 mm
Drive speed	0 – 20 m/min
Length	1900 mm
Width	420 mm
Height	1050 mm
Weight	320 kg
Noise level (under load)	88dBa Sound levels can vary in different circumstances, area influences like open outside or closed inside space, the surface to be treated etc. will give different values at all time. Even though there is no direct need for operators to wear ear protection, we however strongly recommend to use ear protection at anytime whilst using this equipment.
Vibration level	0.5 RMS Allows working continuously with the mentioned equipment without having to use anti vibration precaution measures.
Dust hose connection	Ø125 mm

The electrical diagrams of the electrical system are placed inside of the control panel.

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

info@blastrac.eu

Blastrac, NA

13201 North Santa Fe Avenue

Oklahoma City, OK 73114

1-800-256-3440

FAX: 866-485-1046

www.blastrac.com



info@blastrac.eu