

Original instructions in English language

OPERATING INTRUCTIONS BS-75

VERSION 1.3

From serial number 27272B & up





Inspection comments

Inspection before initial operation on: _____

By: _____

Date of initial operation: _____

Serial number & Year of manufacture: _____

Recurring inspections / maintenance log

Date / Hour counter	Findings	Repairs / Cleaning	Test on	By*

*Competent person



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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. Always use common sense when working with machines.

The machine may **not** be used for **pathogenic or carcinogenic or asbestos substances** without additional safety measures. **Always mind the local safety requirements.** Contact your dealer for additional options. Do not use the machine in the presence of dangerous atmospheres.

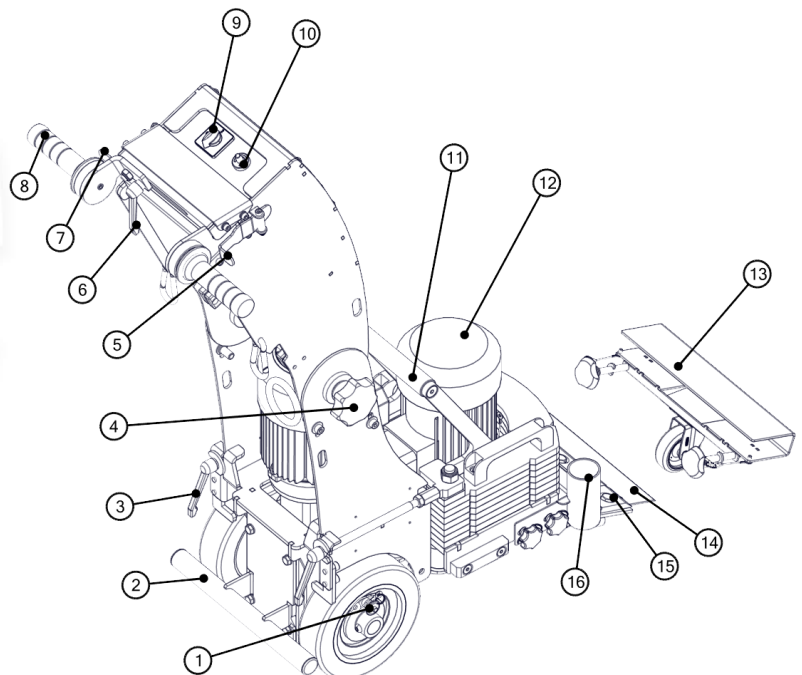
2. Machine description

The Blastrac BS-75 stripper is ideally suited for small and medium sized applications. The machine has a strong electric drive system which is very easy to operate. The machine has forward, backward and speed control functions.

Main assets of BS-75:

- Electrical driven machine with two electrical motors.
- Forward and backward driving function.
- Standard speed control.
- Can be dismantled into 3 pieces for easy transport up and down stairs.
- User and environmentally friendly; very low noise level, easy to operate and low vibrations.
- Very high output.
- Adjustable handle position.
- Shock absorbing handles.
- Wheel scrapers as standard.
- Small and compact equipment, very easy for transportation.
- Weights can easily be removed.
- Heavy duty equipment, which is almost maintenance free.
- Various lifting points.

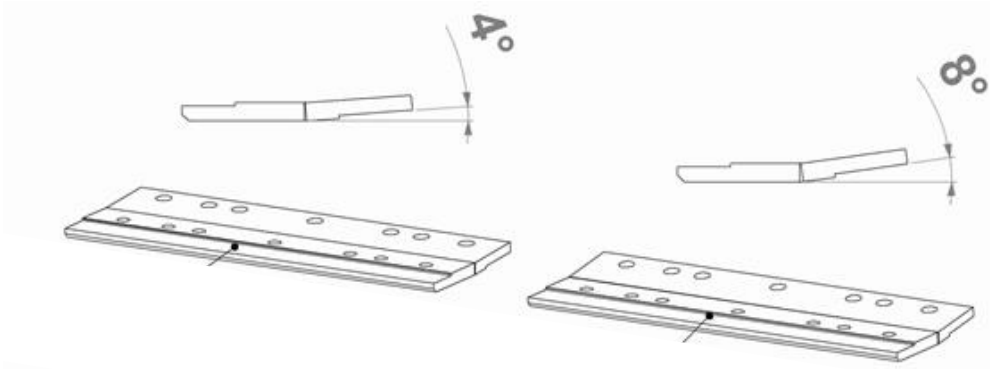
1	Drive wheel with quick release pin
2	Foot rest
3	Disassembly handle
4	Clamp lever adjustable steer handle
5	Drive switch lever
6	Narrow mode steering handle
7	Drive switch lever
8	Shock absorbing handle
9	Function selection switch
10	Speed control
11	Lifting handle complete
12	Vibration motor
13	Blade protection
14	Tool
15	Tool holder
16	Dusthose connection for suction unit



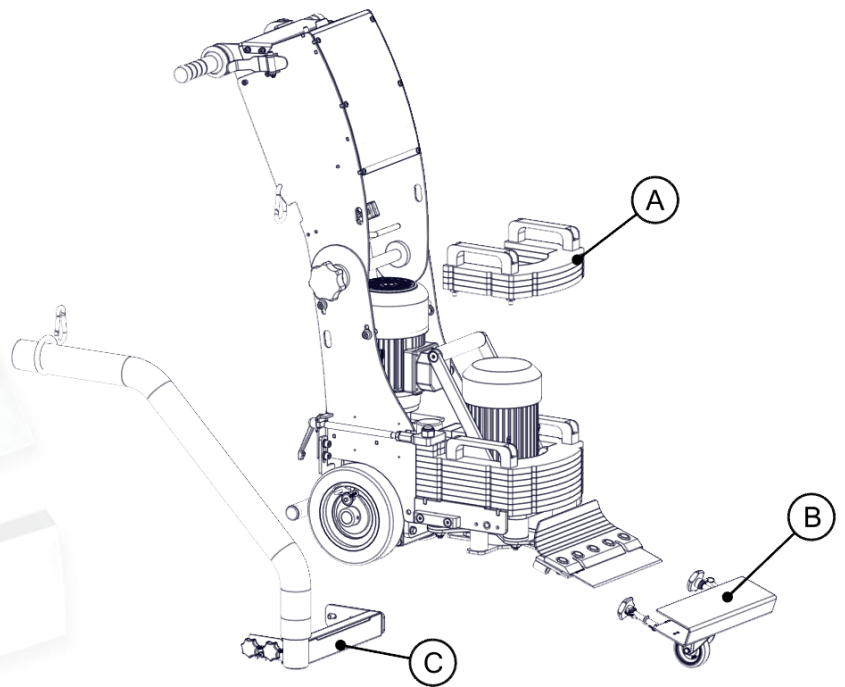


2.1 additional options for the BS-75

- Angle adjustment plates 4° and 8°
E09416 and E09417



- A. Additional weight, 10 kgs.
(E13540)
- B. Blade protector.
(E13542)
- C. Suction unit complete BS-75.
(E13530)





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. This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. Always use common sense when working with machines.

It is the responsibility of the user to analyse the surface to be treated. The surface may not contain any substances which could pose a fire-, explosion- or health risk when treated. The user should make a risk assessment on the basis of the information obtained about the surface to be treated and take proper precautions for the work to be performed.

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 in rain, damp or wet locations.
- 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) Make sure there is enough ambient light on the work area. Cluttered or dark areas invite accidents.
- d) 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.
- e) Secure the work area around the machine in public areas providing an adequate safety distance from the machine. Use a red and white safety chain and danger sign to enclose the work area if necessary.
- f) 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.
- g) Never use the machine when the surface is not clear and if there is a risk of stumbling or tripping.
- h) Make sure that there is nothing standing or situated on the surface to be treated.
- i) Remove reinforcing steel or other objects protruding from the surface in order to prevent damage to the machine.
- j) **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.**In these cases, additional safety measures should be used. Always mind the local safety requirements.** Contact your dealer for additional options.

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) **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.
- g) Inspect and test the electrical components regularly. The electrical components have to satisfy with the requirements set out in the harmonised norm EN60204-1.
- h) Always call a skilled electrician or your distributor when you have questions about the safety of the electrical components.
- i) 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.
- j) Do not abuse the power cord. Never use the cord for carrying, pulling or unplugging the machine. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- k) Be careful with water on the treated surface. Electrical cables must not come into contact with water.
- l) The main power switch on the machine must be in the "0" position before connecting to the power supply.
- m) During a long standstill of the machine, pull out the main plug.

3.3 Personal safety

- a) **Always wear Personal Protective Equipment while working with or around the machine!**
 - Dust mask class FFP3 or higher
 - Hearing protection
 - Safety glasses with lateral protection
 - Protecting, cut-resistant & vibration dampening gloves
 - Safety shoes.



- b) Always wear close-fitting protective clothing. 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) Always seek professional medical attention immediately in case of injury.
- e) All persons surrounding the machine should wear Personal Protective Equipment.

3.4 Machine safety general

- a) Safety functions and operating functions must work correct.
- b) No loose bolts, nuts or other fasteners are 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 grips must be free of fats/oils and have to be dry.
- f) Do not **open** or **remove protective guards** while driving gears are running.
- g) Do not pull out the power supply cable by the wire, but by the connector.
- h) All repair work has to be done by qualified Blastrac personnel, this guarantees a safe and reliable machine.
- i) Always use original Blastrac spare parts and cutting blades, this will ensure the best performance.
- j) Only original 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.
- k) 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.
- l) In the event of operational malfunctions the machine must be shut down immediately and secured!
- m) Do not stand on the machine. Do not add extra weight on the machine.
- n) Do not place anything on the vibration motor. Make sure that the motor has enough airflow to cool.

3.5 Dustcollector safety

- a) Always use a Blastrac dust collector to ensure a dust-free operation of the machine and clean air at the workspace.
- b) When working on or around **carcinogenic or pathogenic substances**, the dust collector must be fitted with a HEPA filter.
- c) Read the operating instructions of the dust collector before using it.
- d) The dust container/bag of the dust collector must be emptied regularly. Comply with the local waste treatment regulations considering the removed material.
- e) The dust hose must be connected properly with a hose clamp.
- f) The dust hose must be undamaged and free of obstructions.

3.6 Maintenance safety

- a) Pull out the main plug 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 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) The suitable precautions for maintenance include decontamination before disassembling the machine, adequate filtered ventilation of the exhaust air from the room in which it is disassembled, cleaning of the maintenance area and suitable personal protection equipment.

3.7 Transport safety

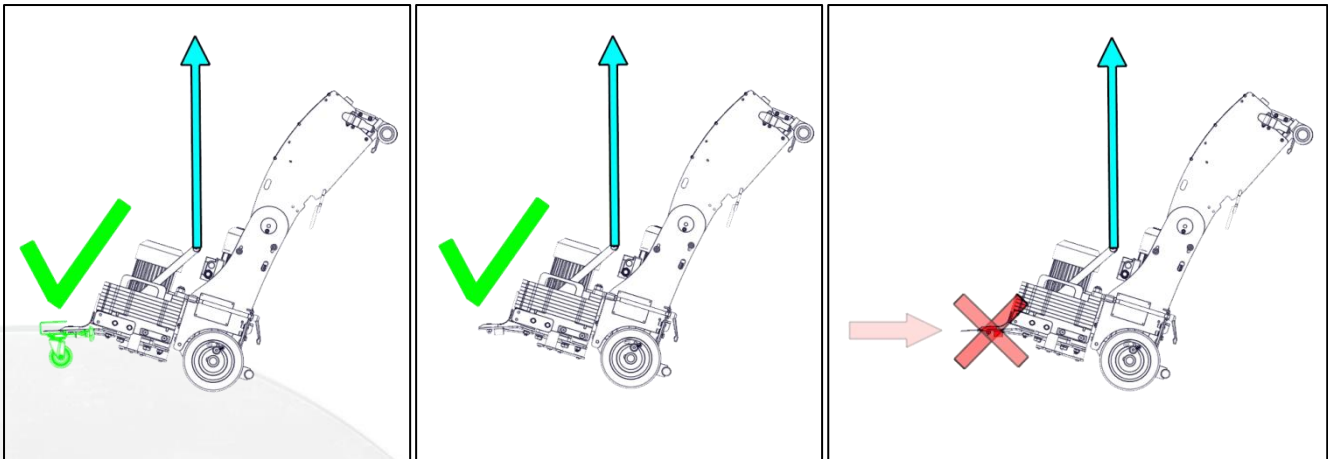
- a) Be aware of your surroundings and machine operating level. Do not side hill, do not run on steep incline, this could cause machine to tip over.
- b) Use preferably appropriate appliances as a lift or crane. Use the existing lifting points to lift the machine.
- c) Never lift the machine with mounted tool! This sharp tool can be very dangerous!**
- d) Chock wheels for transport and keep control handle in neutral position.
- e) Don't leave the machine unsecured on jobsites.
- f) Park the machine always on a flat horizontal and levelled surface.
- g) Store the cleaned and dry machine in a humid free room. Protect the electrical motor from moisture, heat dust and shocks.
- h) Never use the machine for lifting persons or items.
- i) Before every use check the lifting points and welds for:



deformation, damages, cracks, corrosion and wear.

- j) 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.
- k) During hoisting make sure to be at a safe distance from the machine with the most optimal view on the machine and working environment.
- l) Never stand directly below the machine.
- m) 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.
- n) The lifting point can also be used to fasten the machine on a pallet or during transport.
- o) Never load or unload the machine on a ramp or incline when the wheels are in the disengage mode. Failure to do so could cause machine to runaway, damage to the machine, damage to property or cause serious injury.

Never lift the machine with mounted tool! This sharp tool can be very dangerous!



Only lift the machine with blade protection or without blade in the holder.

Never lift the machine with unprotected blade.

Only lift the machine on the lifting points.

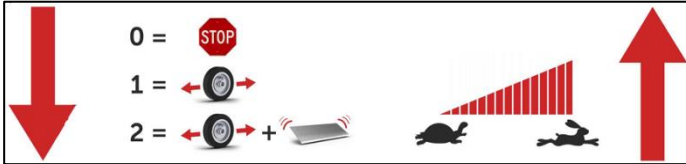


3.8 Signs on the machine

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

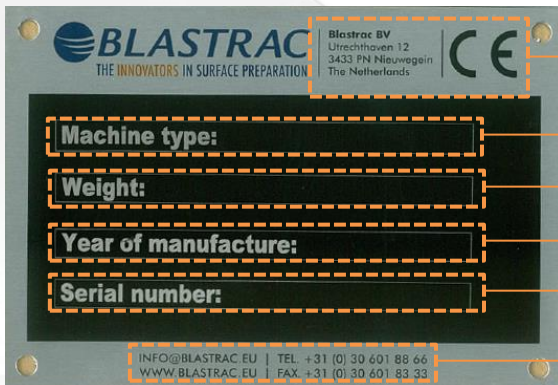


! Danger Hazardous voltage in motor even when solid state controller is OFF. Disconnect main power before servicing motor, controller or associated wiring.



Wear a dust mask class FFP2 or higher.
Hearing 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.

Type plate:



Name, address and CE mark.
The machine type.
The net weight of the machine in kilogram.
The year of manufacture.
The serial number of the machine.
Email address, Website, Telephone & fax number.

EU Declaration of Conformity:





4. Initial operation

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

4.1 Checkpoints:

Electrical safety

- 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 rolled entirely off of the reels.
- Any damage to electric cables is not permitted.
- Use an electrical power supply connection with earth connection.
- The selection switch of the machine should be put to '0' (OFF) before connecting to the power supply.

Machine safety

Check if:

- The safety functions and operating functions work correct.
- There are not any loose nuts or bolts.
- There are no damages on the electrical components.

4.2 Drive wheel engaging and disengaging

The drive wheels are engaged with quick release pins, remove them for easy transport by hand.

Line up the wheel hub hole and wheel hole to insert the pin as following:

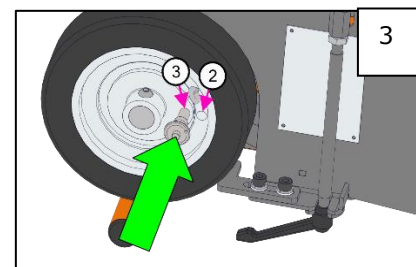
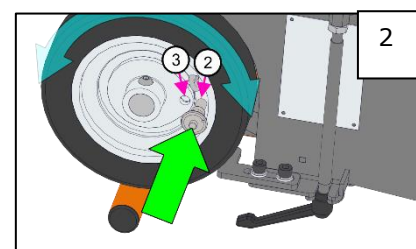
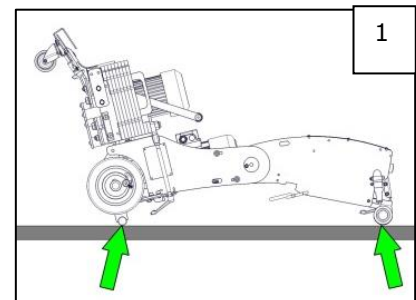
- 1: Lay the machine all the way back on the steering handle. (Picture 1.)
- 2: Rotate the wheel to align the holes. (Picture 2.)
- 3: Insert the quick release pin. (Picture 3.)
- 4: Repeat step 2 and 3 on the other wheel.

Disengage Mode (Picture 2.)

When wheels are in the "disengage mode" the machine can be moved around freely when the machine is NOT under power.

Engage Mode (Picture 3.)

Wheels in the "engage mode" are secured with the quick release pins. This engages the wheels to drive motor to be self-propelled.



Never load or unload the machine on a ramp or incline when the wheels are in the disengage mode. Failure to do so could cause machine to runaway, damage to the machine, damage to property or cause serious injury.



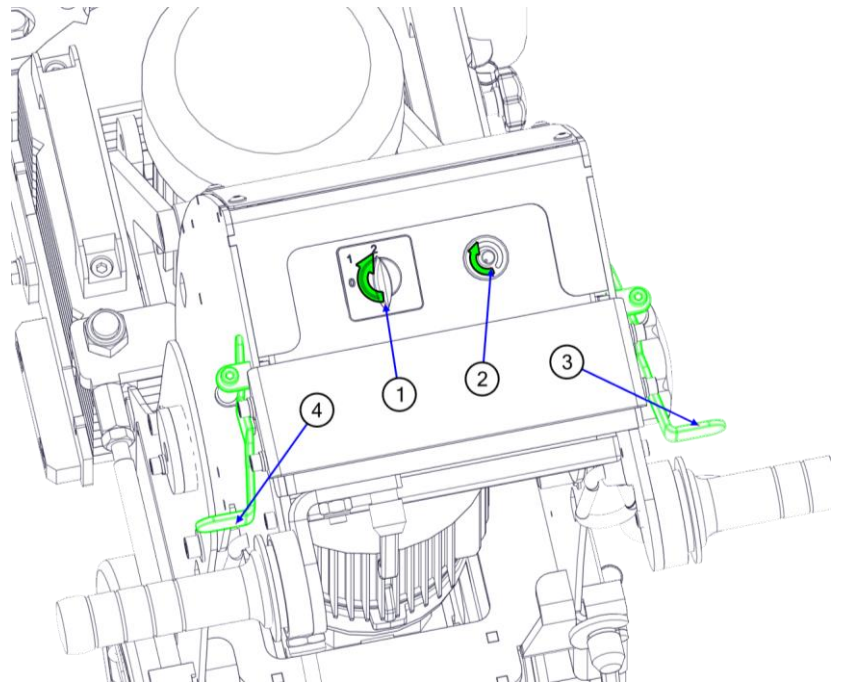
5. Operation

5.1 Electric controls

The selection switch (1) is mounted on top of the machine. Switch to 1 to activate the drive motors and the machine is ready to drive using the control levers (3 & 4). The drive speed can be adjusted with the drive speed control (2).

Use the right switch lever (3) to drive forward and the left switch lever (4) to drive backward.

Switch the selection switch to "2" to activate the vibration motor. Selection switch on zero switches off all functions.

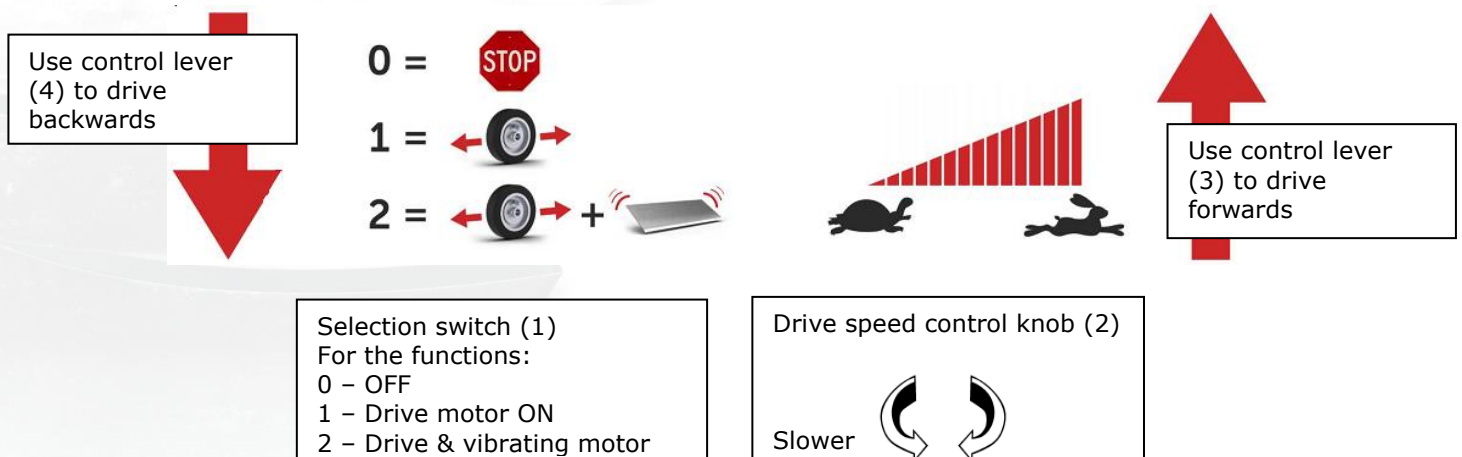


NOTE!!

When you drive forward and you also press the left switch lever(4), you will have the maximum speed forward.

If you release the left switch lever(3) while still driving forward, the machine will return to the driving speed that was set with the drive speed control(2).

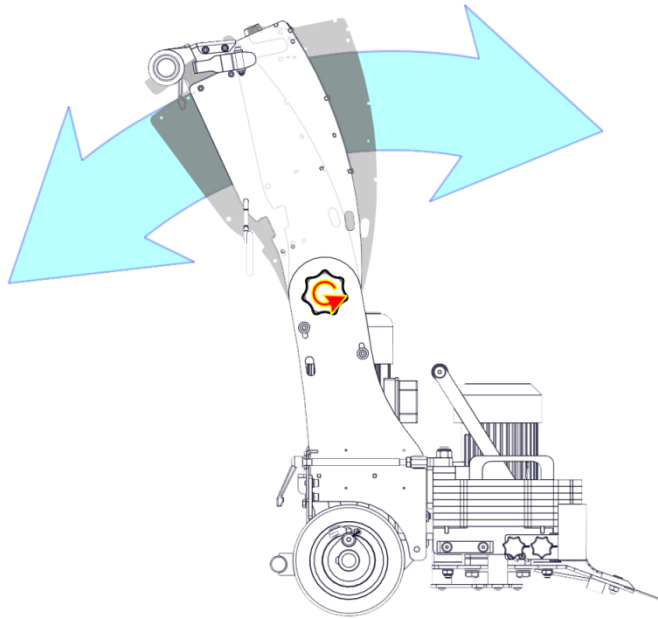
When you engage the machine in reverse, the machine will travel with the highest speed.





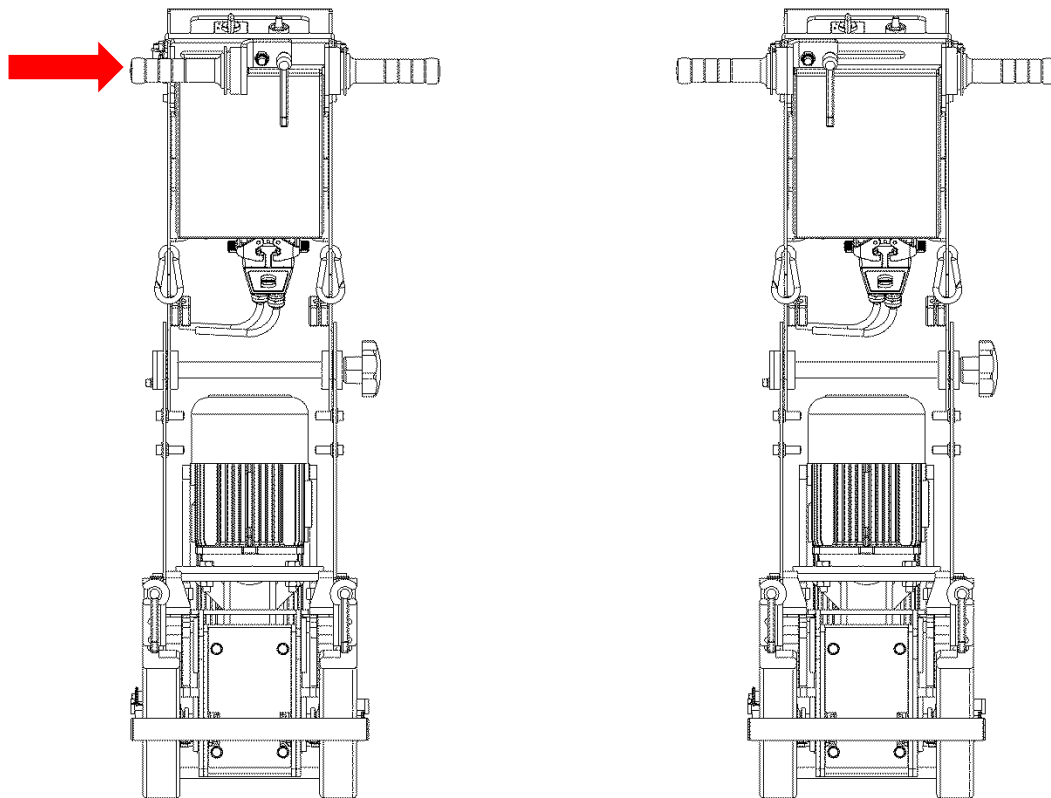
5.2 Height adjustment steering handle

Adjusting the height of the steering handle is possible by loosening the knob to find a comfortable working position.



5.3 Narrow mode steering handle

To work as close as possible alongside the wall, loosen the knob and move the handle to the right.



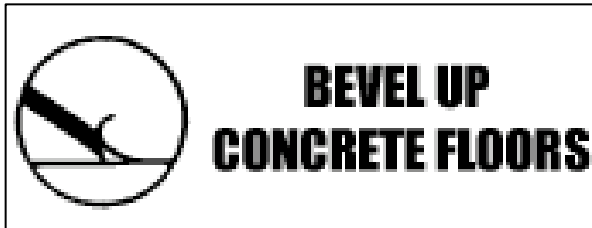


5.4 Blades

Blade choice

Proper blade size and placement, depending on the material and sub-floor type, affects the performance.

- KEEP BLADES SHARP. Dull blades greatly reduce cutting ability. Re-sharpen or replace as needed.
- The harder a job comes up, for best results, use a smaller blade.
- Start with a narrow blade, then increase the blade size to optimize the cutting pass.
- Narrower blades work easier than wider blades, wider is not always better or faster.
- Narrower blades usually clean the floor better.
- Normally the bevel on the blade is up for concrete. Bevel down for wood or soft sub-floors.



- Keep your work area clean and clear of debris.
- After you have removed a portion of material, remove it out of the way. This will give the machine maximum performance and helps to keep the work area safe.
- **Always wear cut-resistant gloves when handling blades.**
- Everyone in the work area should wear eye protection.

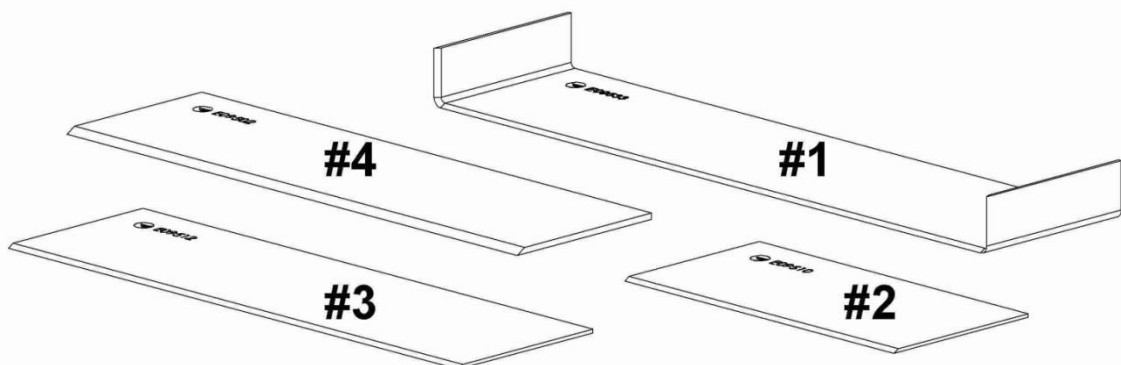
Blade versions

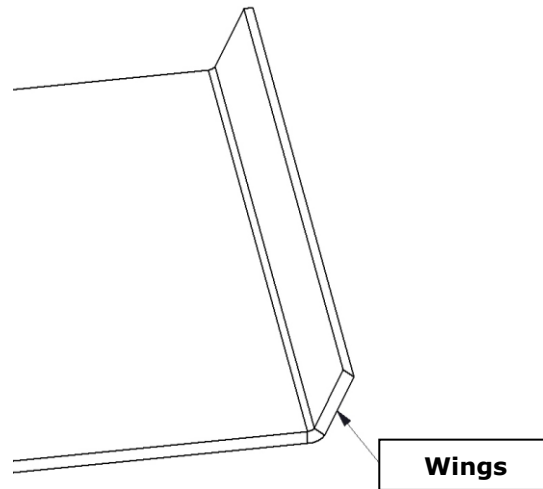
Blade #1 (Part No. E09533) - 305 x 76 mm, thickness 1,5 mm self-scoring blade, bevel up, carpet, soft (PVC, linoleum, rubber)

Blade #2 (Part No. E09510) - 152 x 76 mm, thickness 1,5 mm tile or linoleum on wood floors, difficult surfaces (ceramic, hardwood, heavy tile, etc.)

Blade #3 (Part No. E09512) - 254 x 76 mm, thickness 1,5 mm carpet, tile or resilient on wood & concrete floors

Blade #4 (Part No. E09502) - 254 x 76 mm, thickness 2,5 mm carpet, tile, PVC, Vct, tough coatings, hardwood & cork





It's important to keep the "wings" sharp. They can be sharpened in the same way like the other blades.

Efficient and fast work can be reached by using correct blades and settings. During work the blade will become dull. When the blade is dull it is necessary to sharpen or replace it.

Having a second cutting head will be helpful, and it **will save you important time and money.** When the machine is running on the second set of tools, the first set can be serviced.

Different parameters of coat or material will require the use of different blades. For example a small blade is perfect for the hard job. But when the material is soft you can use wide blade. The best solution is to start with a narrow blade and during work change it to a wider one if this is possible.

Working place should be kept clean. When some part of material is removed on the first run, it is always better to clean the floor before starting the second run. Debris and dirt can make the blade dull really quick.



Always wear protective, cut-resistant gloves before handling the blades!

Sharp blades can cause serious injury!

Blade changing

Dull blades greatly reduce cutting ability. Re-sharpen or replace as needed.

- Always wear protecting cut-resistant gloves when changing the blades.
- Use an extended wrench to keep hands safely away from the edge of the blade.
- Make sure the main plug is pulled out of the power source before changing the blades.



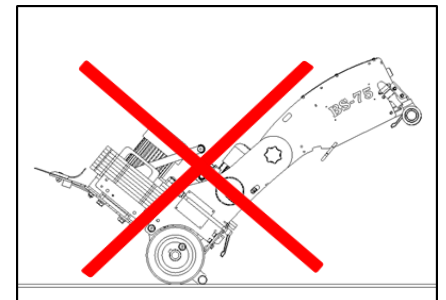
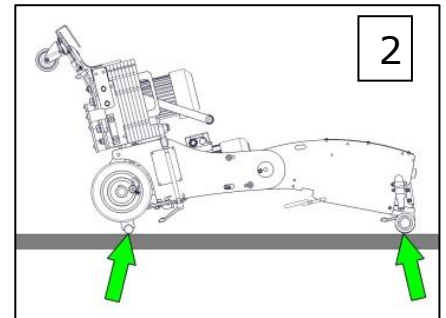
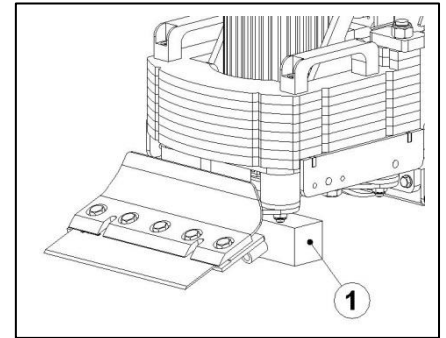
Place a block (1) under the front of the machine, or lay the machine all the way back on the steering handle.

Loosen the five hexagon head bolts and replace the blade.
It is not necessary to remove the bolts.
Be sure that the blade is far enough under the blade holder, to insure a secure hold.

Never leave the machine unsecured on jobsites.

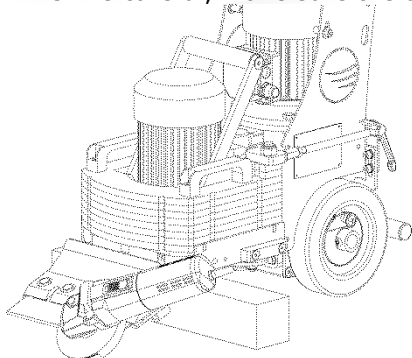
Only change the blades if the machine is stable!
When it is resting on a block (picture 1) or when the machine lays on a flat horizontal and levelled surface, as shown in picture 2.

Never change the blades when the machine is unstable, machine could fall back down, as shown in picture 3.

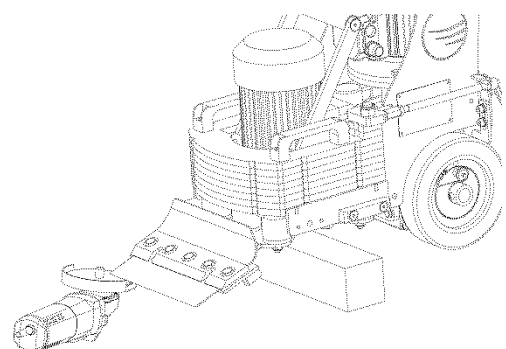


Blade sharpening

Always wear protecting, cut-resistant gloves and safety glasses. It is not necessary to remove the bolts. Sharpen the blade mounted to the machine. Using a hand grinder, block up the front of the machine so the blade is off the floor. Sharpen the blade with a 10 cm diameter disk with 120 or finer grit.
WARNING! Be careful, make sure the disc does not catch the edge or corner of blade.



Blade bevel up



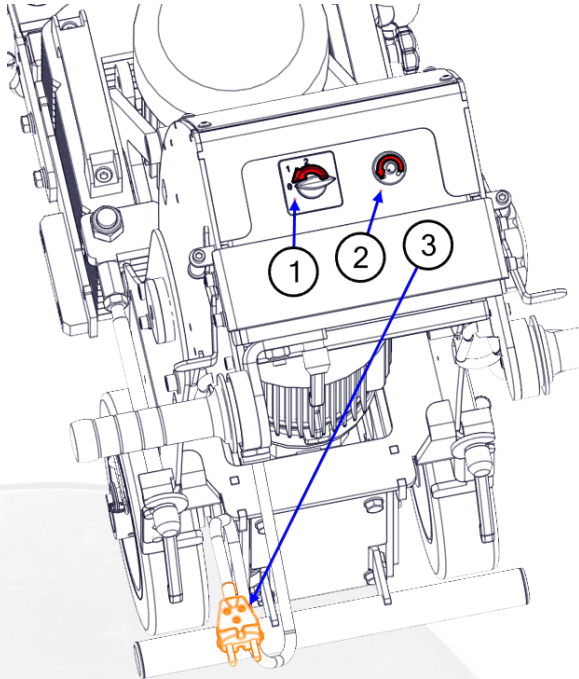
Blade bevel down

Furthermore there is the opportunity to remove the blade from the machine and to sharpen the blade at a vice, obeying the same way as shown in figures above.

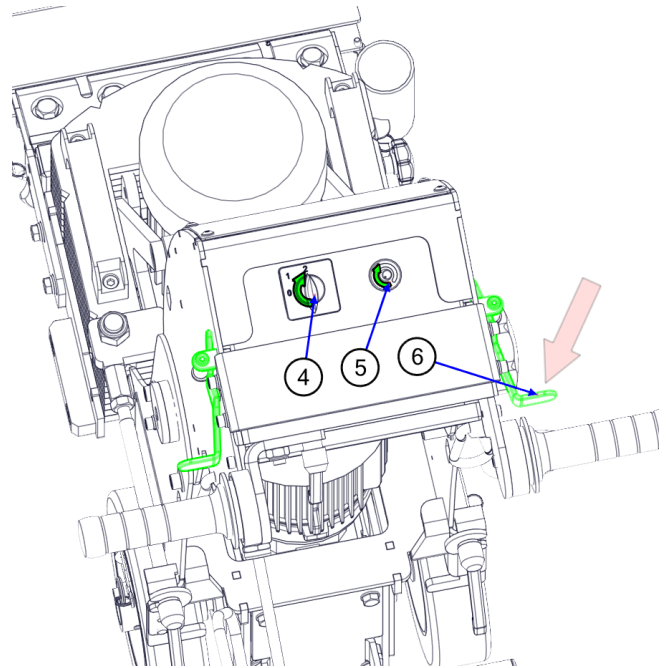


5.5 Start up machine

- Before start-up the operating personnel must be familiar with the safety regulations given in this manual.
- Before switching on the machine make sure that no-one can be endangered when the machine starts up.
- 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.



1. Selection switch must be on '0' position
2. Turn speed control to slowest position.
3. Plug in the main plug.



4. Turn the selection switch to '2' position.
5. Set speed control to desired speed.
6. Engage forward or reverse switch.

WARNING! If there is a power failure or the machine stops for any reason, always put the selection switch back to '0'!

NEVER leave the machine when the selection switch is in position '1' or '2'! When the power failure is rectified and the machine is still in position '2', the machine will start vibrating automatically!

NOTE! When you engage the machine in reverse, the machine will travel with the highest speed.



Do not add weight on the machine!

Do not stand on the machine!

Do not block the airflow of the vibration motor!



5.6 Which blade for which application

Keep blades sharp! Keep your work area clean and clear of debris.

Always wear personal Protective equipment when working with the machine.

VCT - Tile

Never use a blade wider than the size of the tile being removed.

If goods being removed still do not come up clean or the machine jumps on top of goods, reduce blade size to a smaller blade until proper blade size is found or use a smaller portion of the blade.

Vinyl-, Rubber, PVC, Direct glued carpet

Goods will need to be scored down to 254 to 305 mm for proper removal.

Pre-scored carpet makes the machine easier to control and blades stay sharper longer. Blades up to 685 cm wide can be used. Normally 305 mm blades are used on direct glued carpet, secondary backed, unitary, double glued, vinyl foam, urethane foam. Latex foams come up easily with a 685 mm blade.

Self scoring blades can be used with some materials. A 254 mm blade is recommended for this product, but determine what size blade works best.

Ceramic (glued with double duty or mud sets):

Before removing ceramic tile, tiles will have to be pre-broken with a mallet or large hammer.

On small random block styles of tile, pre-breaking may not be necessary.

Open an area large enough for machine or blade to fit in, or start from a doorway.

Keep work area clean to keep good wheel contact with floor. Use slow speed and small blades.

Blades can be offset in cutting head for easier access to toe kicks or removal along the wall.

Wood and wood like floors

Pound down or remove any nails or metal obstruction to avoid blade damage.

Glued hard wood flooring

A 254 mm blade is recommended for regular adhesive, a 152 mm blade for epoxy.

For proper removal of hardwood flooring (plank solid, plank laminated, parkay, parquetry laminated) flooring must be scored to blade width.

This is done by using a circular saw set at a depth of 99% of the thickness of the board, just missing the subfloor surface when on concrete

A chalk line for scoring lines can be used across the floor the width of the blade

True parkay flooring scoring is not necessary. It will come up in small pieces.

When working over plywood sub-flooring, try to run machine in the same direction as the grain in the wood.

Blade in most cases bevel down. On solid wood floors like plank, run in the same direction as the plank, not cross grain or cross plank. Removing the front counterweights will help on all soft surfaces.

Concrete

When working on concrete slab, normal blade position is bevel up for best performance, especially when cleaning adhesive. On occasion, bevel down gives better blade life.

Gibcrete and soft poured flooring

Usually requires blade bevel down to create a better wearing surface, although bevel up may work if some weights are removed.

Beware of expansion joints and floor mounted receptacles or other obstacles in the floor.

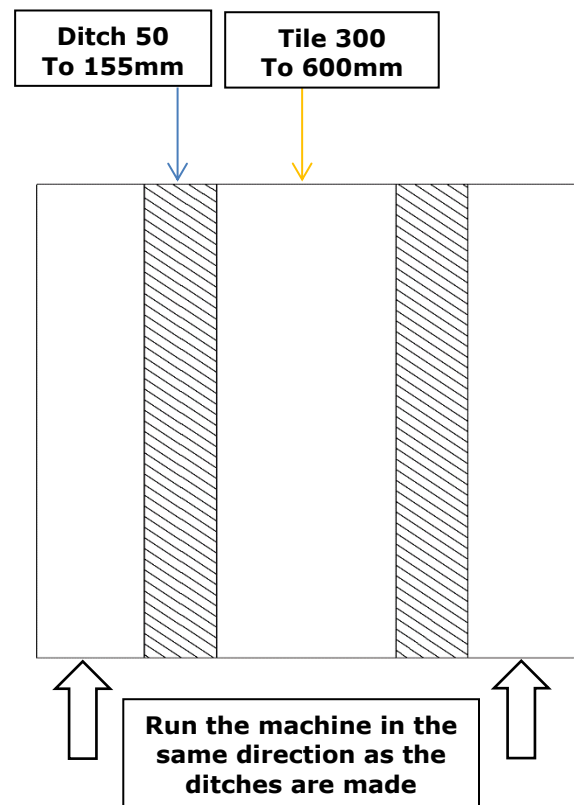


5.7 Ditching

Cross room ditching

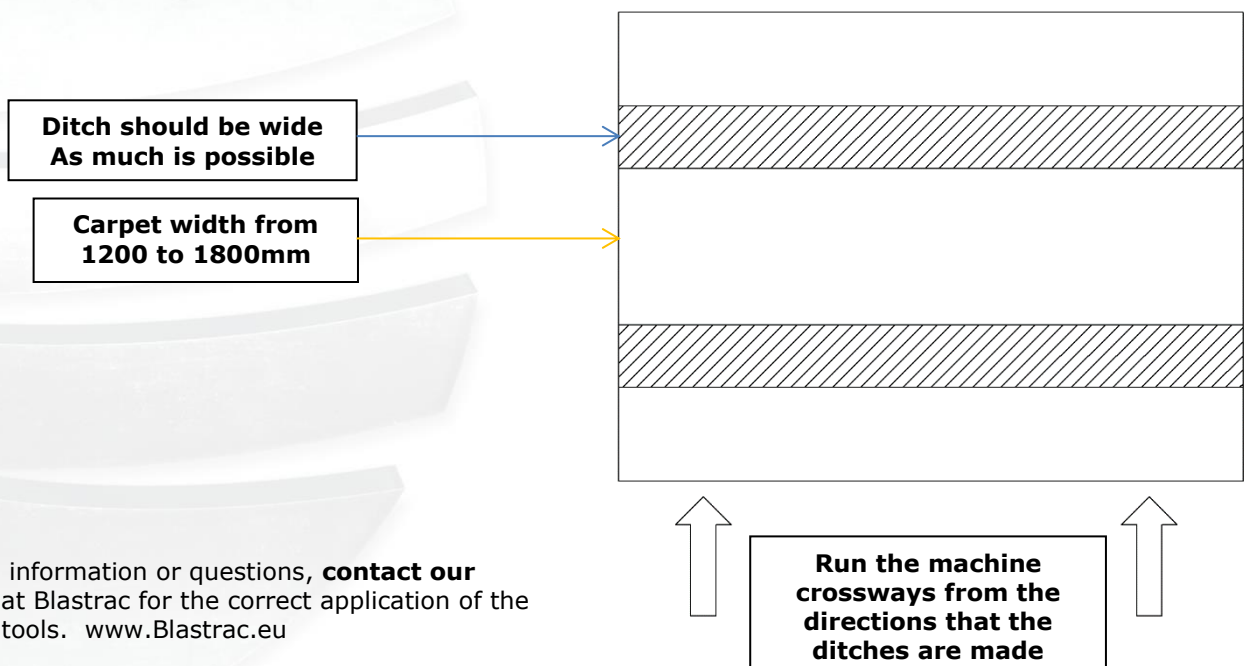
When removing hard to remove ceramic, Vct or vat, cross-room ditching will help to make the removal easier. Using a blade 50 to 155mm in width, make ditches 300 to 600mm apart in the same direction as the machine will be removing the goods.

This "relieves" the pressure holding the tiles together. If ditching helps and the goods are coming up easy, try using a wider blade to ditch with.



Checker board ditching

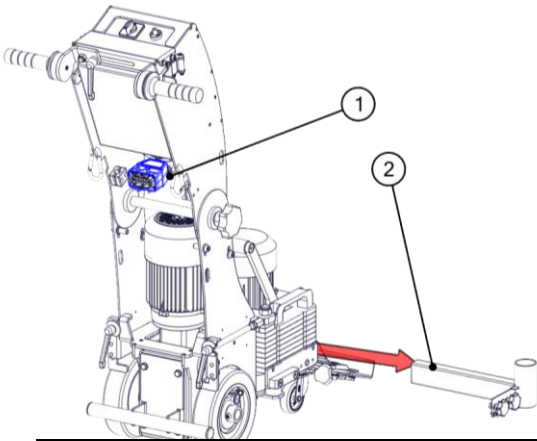
To make carpet removal and debris cleanup easier, checker board ditching is very helpful. Using as wide of a self-scoring blade as possible, make ditches apart crossways from the way the machine will be removing the goods. Running the machine crossways from the ditches will make smaller pieces of debris to be hauled away. Instead of large gummy rolls of carpet, there are small squares that can be rolled, palletized, put on a dolly or folded with the sticky side in. This makes removing the debris faster, easier and reduces the amount of debris.



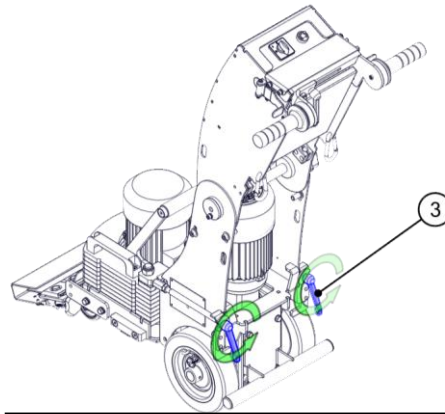
For more information or questions, **contact our experts** at Blastrac for the correct application of the different tools. www.Blastrac.eu



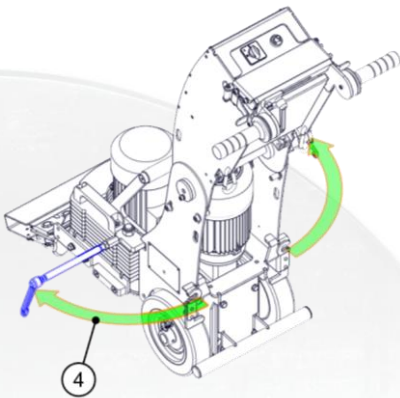
5.8 Dismantling into 3 pieces



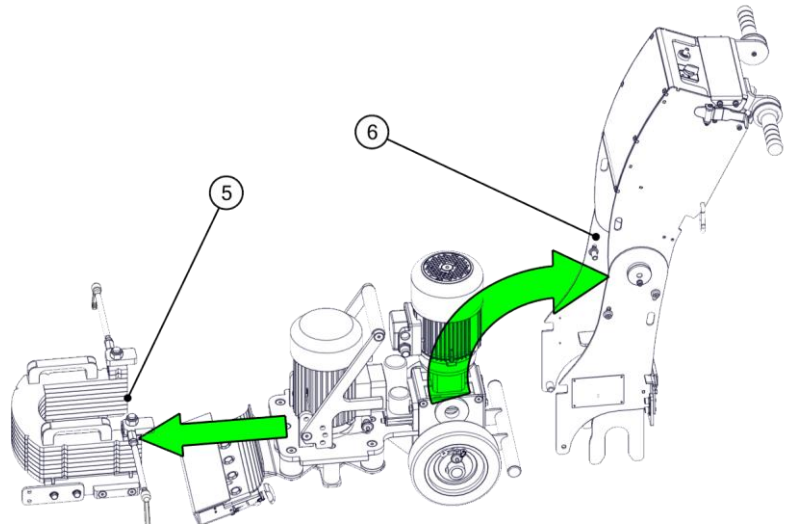
1. Disconnect electric plug
2. Remove suction unit



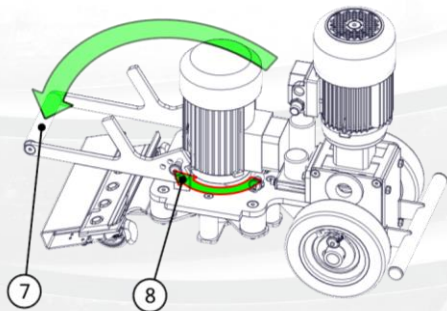
3. Loosen the handles
(counter clockwise)



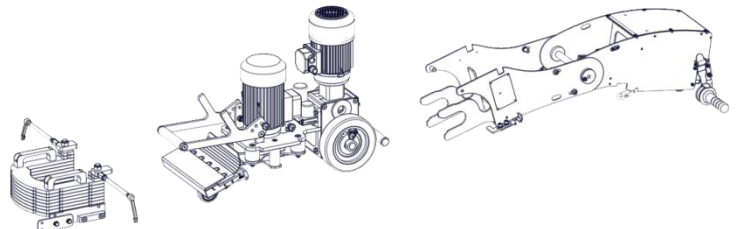
4. Turn the handles 90° forward



5. Slide the weight block forwards
6. Lift the steerhandle up and backwards



7. Rotate the handle forwards
8. Lock the handle with 2 quick release pins



Follow the steps in reverse to assemble the 3 pieces again.



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. Also with proper maintenance the machine will produce less hand- arm transmitted vibrations.

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

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

Operating hours/ time period	Inspection points, maintenance instructions
12 h after repairing	Check all accessible screw connections and other fasteners for tight seat.
Daily and prior to starting work	Check that all safety devices are working adequate. Check the function of the residual current operated device. Check the blades for wear and sharpness. Check the electric connections for sediments of dirt or foreign bodies. Check the electric motors for dirt and other contaminants.
Weekly	Check the conditions and tightness of the connections of the frequency drive. Remove any dust from the frequency drive. Ensure proper fan operation of: the frequency drive, the vibration motor and drive motor. Check for physical damage to the covers of the: the frequency drive, the vibration motor and drive motor.
Annually	Full overhaul and cleaning of the complete machine, including replacement of the shock absorbing parts.

The time indications are based on uninterrupted operation. When the indicated number of working hours is not achieved during the corresponding period, the period can be extended. However a full overhaul must be carried out at least once a year.

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.

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. Make sure the main plug is pulled out of the power source.

Follow additional operating and maintenance instructions of Original Equipment Manufacturers 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 motors from moisture, heat, dust and shocks.

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

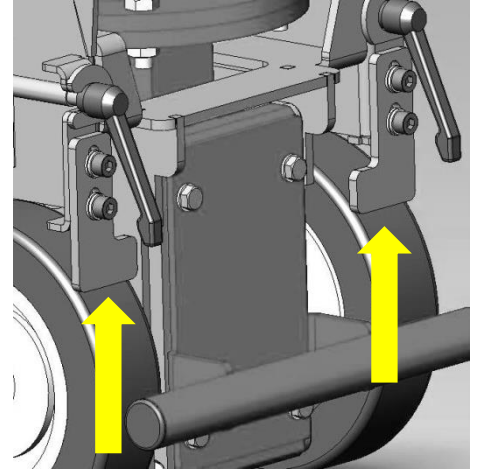


Any guarantee on the machine expires when:

- 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 from Blastrac BV.

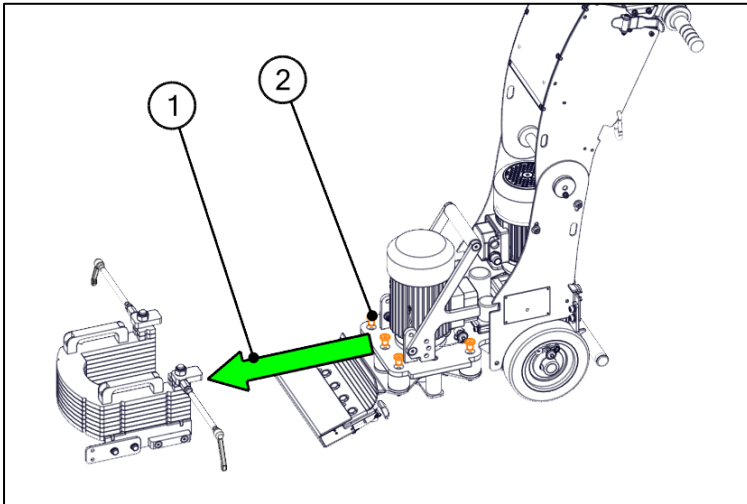
6.1 Wheel scraper plates

The wheel scraper plates keep the wheels clean from dirt/debris. To adjust or clean the scraper plates unplug electrical supply cable and loosen the bolts. Slide up to face wheel until it touches but does not dig into the wheel surface. Over tightening scraper plates could cause damage to wheel.

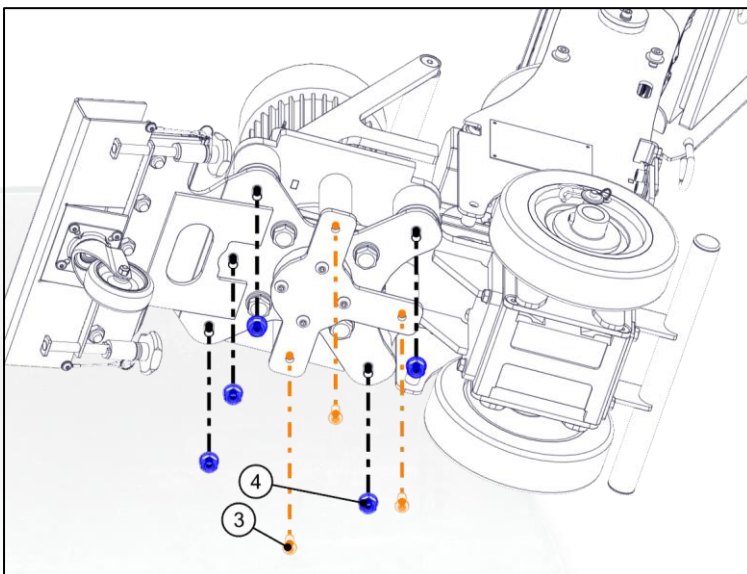




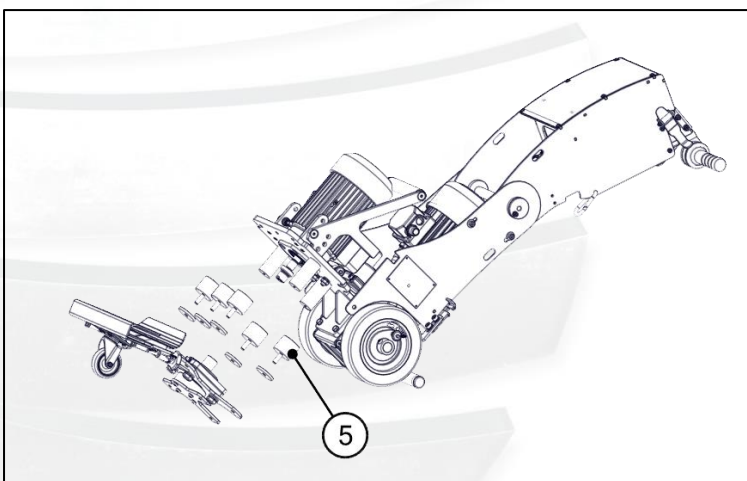
6.2 Replacing shock absorbers



1. Remove the weights as described in chapter 5.8.
2. Unscrew the five M10 bolts of the cutting Head.



3. Remove the M8x20 bolts (3x).
4. Remove the M10 nuts (5x).



5. Replace the shock absorbers (5x)
E09208 – Shock absorber.



6.3 Frequency inverter

Caution! Work on the frequency inverter by unqualified personnel or failure to comply with warnings can result in severe personal injury or serious damage to material.

Only qualified Blastrac personnel trained in the setup, installation, commissioning, operation and repair of the product should carry out work on the frequency inverter.

! Risk of electric shock. The DC capacitors remain charged for 15 minutes after power has been removed. It is not permissible to open the equipment until 15 minutes after the power has been removed.

! Caution. Do not perform a voltage test on parts inside the inverter. High voltage can destroy the semiconductor components.

If there is a problem with the frequency inverter, observe the error display, write down the error code and **contact Blastrac BV.**

Always mention the serial number and year of manufacture of the BS-75 machine, they can be found on the typeplate of the machine.










Do not attempt to open the frequency inverter.





The following failure codes indicate problems (Schneider)

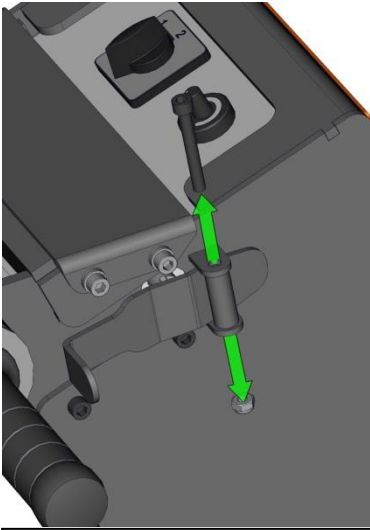


Display	Content	Cause	Corrective action
USF 	Undervoltage	<ul style="list-style-type: none"> Line supply too low Transient voltage dip 	Check if the power voltage is correct.
TJF  OHF 	The inverter IGBT is overheated. Drive overheated.	<ul style="list-style-type: none"> Drive temperature too high. IGBT internal temperature is too high according to ambient temperature and load. Ambient temperature is too high. Work being performed is too heavy. 	<p>Improve the ventilation conditions.</p> <p>Check the cooling fan. Wait for the drive to cool before restarting.</p> <p>Reduce workload.</p>
OSF 	Main overvoltage	<ul style="list-style-type: none"> Line voltage too high: <ul style="list-style-type: none"> - At drive power-on only, the supply is 10% over the maximum acceptable voltage level. - Power with no run order, 20% over the maximum line supply. Disturbed line supply. 	<p>Check power supply.</p> <p>Turn Off the machine. Check and adjust the line voltage. After line come back to nominal voltage (within tolerance) do power On.</p>
SCF 1  SCF 3 	Motor short circuit	<ul style="list-style-type: none"> Short-circuit or grounding at the drive output. Ground fault during running status. Commutation of motors during running status. Significant current leakage to ground if several motors are connected in parallel. 	<p>Check the main circuit power supply wiring.</p> <p>Check the cables connecting the drive to the motors, and the motor insulations.</p>
OLF 	Motor overload	<ul style="list-style-type: none"> Triggered by excessive motor current. 	Work being performed is too heavy. Reduce workload.
SCF 5 	Load short circuit	<ul style="list-style-type: none"> Short-circuit at drive output. Short circuit detection at the run order or DC injection order. 	Check the cables connecting the drive to the motors, and the motor's insulations.
nSt 	Freewheel stop assignment	<ul style="list-style-type: none"> Drive handle is pushed in during startup Mechanical locking 	<p>Release the drive handles during startup.</p> <p>Drive handle needs to be adjusted, see chapter 6.4.</p>

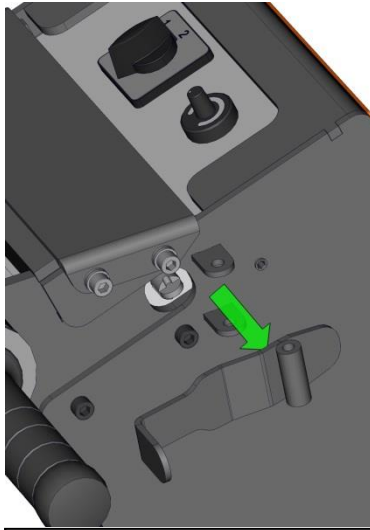
For all other failure codes: write down the failure code and serial number of the BS-75.
Stop the machine and contact Blastrac.



6.4 Drive handle adjustment



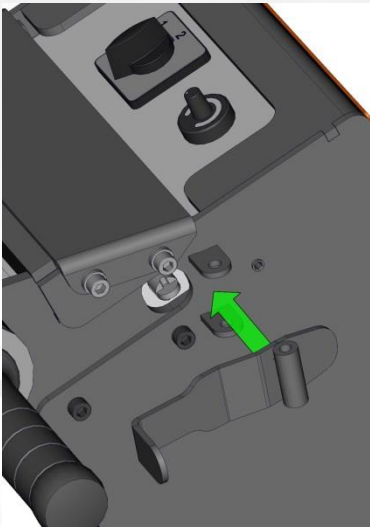
Remove the bolt and M6 nut.



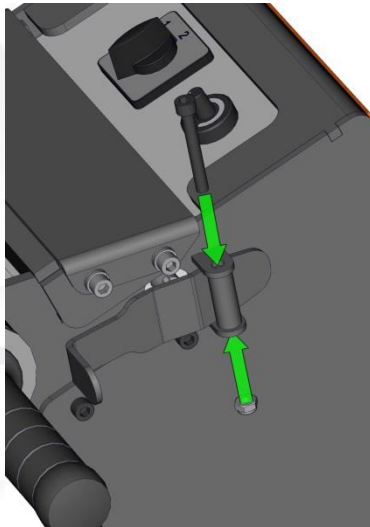
Remove the drive handle.



Adjust the screw with an Allen key.



Place the drive handle.



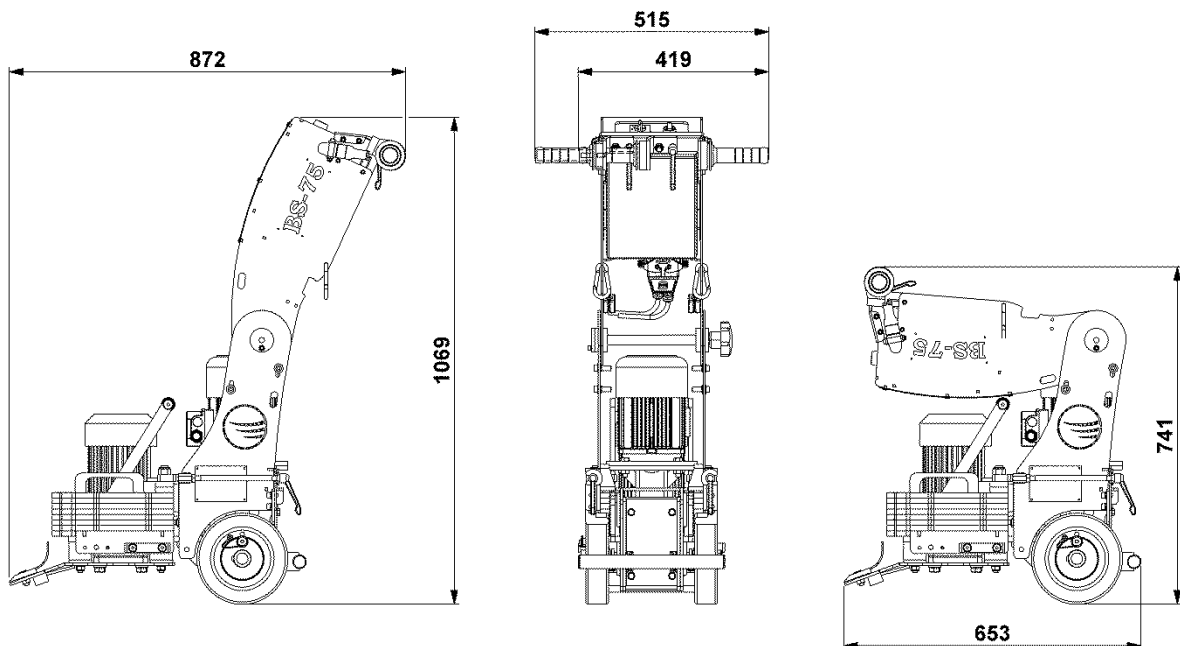
Place the bolt and M6 nut.
Do not overtighten.



7. Technical data

BS-75	
Drive motor power	0.75 kW
Vibration motor power	0.75 kW
Drive speed Min. / Max.	Regulated speed forward between 2,5 m/min up to 18,5 m/min Maximum speed backward 18,5 m/min
Application	Hardwood parquet / ceramics / linoleum / vinyl / carpet / adhesives / glue / tiles etc...
Working position	
Length (L)	872 mm
Width (W)	515 mm
Height (H)	1.069 mm
Folded position	
Length (L)	654 mm
Width (W)	515 (419) mm
Height (H)	741 mm
Weight Excl. additional weight of 10 kg	128 kg
Environment	Temperature range from (14 to 104°F) or (-10 to 40°C) Relative humidity of max. 95%

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 B.V.





7.1 Sound and vibration data

Noise emission pressure level:

The A-weighted emission sound pressure level	L_{pAd}	70 dB(A)
The associated Uncertainty	K_{pA}	2,5 dB

The A-weighted emission sound pressure level at the operating position is relative to $20\mu Pa$.
The declaration of noise emission is in conformance with EN-ISO 4781.
The measurements and calculations are executed in full conformance with EN-ISO 11202:2010 and EN-ISO 3437:2010.
There is no machine specific noise test code available.

Although the sound pressure level at the operators position does not exceed 80 dB(A), ear protection is still strongly recommended when working with this machine.

Emission of hand-arm vibration:

Measured hand- arm vibration	a_{hv}	4,0 m/s^2
Uncertainty	K	2,0 m/s^2

Declaration in conformance with EN 12096: 1997
Measurement in conformance with vibration test code EN-ISO 20643: 2008 + Amd 1: 2012.
Expanded uncertainty K (EN 12096 annex B).

Time to reach EAV 2,5 m/s^2 A(8): 3 hours, 8 minutes.
Time to reach ELV 5 m/s^2 A(8): 12 hours, 30 minutes.
(Without the use vibration dampening measures.)

Because the value is above 2,5 m/s^2 , we recommend to take 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
- Switch off the vibrating motor when driving backwards
- Use only sharp blades
- 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 NOTES:

The indicated values are measured on new machines. Sound and vibration levels will vary in different circumstances. Area influences like open outside or closed inside space, ambient temperature, the surface to be treated, etc. will give different values at all time and could increase the exposure level over the total working period.

The declared vibration and noise emission levels represents the main applications of the machine. However if the machine is used with different accessories or poor maintenance, the vibration and noise emissions may differ. The values may be used for a preliminary assessment of exposure.

For a precise estimate of the vibration and sound load, the times should also be considered during which the machine is switched off or even running, but not actually in use. This may significantly decrease the exposure level of the operator over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration and noise such as: proper and regular maintenance of the machine and the accessories, keeping the hands warm, provision of proper hearing protection and organization of work patterns for example by using rotation schedules.



7.2 Extension cables

Cable length	Cross section			
	≤ 16 A	≤ 32 A	≤ 63 A	≤ 125 A
Calculated at a pre-fuse GG:	16amp*	32amp*	63amp*	125amp*
> 20m	1.5 mm ²	2.5 mm ²	10 mm ²	25 mm ²
20m > 50m	2.5 mm ²	4 mm ²	10 mm ²	25 mm ²
50m > 75m	4 mm ²	6 mm ²	16 mm ²	35 mm ²

*The cross-sections need to be re-calculated when using any other type or size pre-fuse than mentioned.

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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