

Safety instructions

(Explanation of the pictograms)



Carefully read operator's manual before handling the machine. Observe instructions and safety rules when operating.



Do not open or remove safety shields while engine is running.



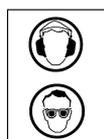
Danger – flying objects; keep safe distance from the machine as long as the engine is running.



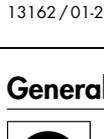
Attention! Please remove the plug from the socket if not in use, or before working on the unit.



Do not leave the unit exposed to rain. Store the elements in a dry place.



Wear protective gloves!



Wear ear protectors!



Wear protective goggles!

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General safety instructions



These operating instructions contain information required for the use and maintenance of the shredder. Take time to carefully study them.

The instructions are also designed to ensure your personal safety.

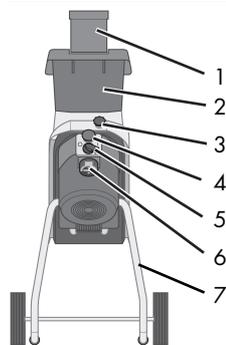
NOTE

- Pull the plug out of the mains socket before carrying out any work on the unit, or during any pauses in the work, or if the unit is not to be used. Prior to operating, check the power cable and plug. Any repairs should be carried out by authorised personnel only.
- Before starting operation, always check to see that nuts, screws and rotating parts are not worn or damaged.
- The unit must be operated only on a firm and level base.
- Always check that the cable lays in a straight line away from the unit.
- This product must be used with a residual current safety circuit breaker. (mains fuse)!
- Connect the shredder only to properly earthed power points.

- The connection should be of rubber-sheathed cable, to be type 05 RNF minimum, with a conductor cross section of 1.5 mm² (up to 25 m) or 2.5 mm² for more than 25 m, resp. The power point must be fitted with a shower proof cover guard.
- Insert the plug into the power point only when the unit is switched off.
- Children under 16 and persons not familiar with the operation of the shredder should not operate the unit under any circumstances.
- Note that the operator is responsible for the safety of third parties within the operating range of the shredder.
- When working with the shredder, always wear safety goggles (CPS tested), gloves and sturdy footwear.
- Operate unit only under conditions of sufficient visibility.
- Always disconnect it from the mains, prior to working on the unit.
- Never remove any safety devices during operation.
- Warning: Rotating cutting blades. Do not reach into ejector funnel.
- Warning: Blades continue to revolve when switched off!

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Elements of the machine



- 1 Feed funnel
- 2 Funnel tube
- 3 Star bolt
- 4 Stop-button
- 5 On / Off switch
- 6 Mains cable
- 7 Chassis

Protection of the shredder



Carefully observe the following recommendations to avoid damage!

- Do not remove or bridge the switching and safety devices!
- If the cutting blades are blocked, switch off the shredder immediately!

Technical Data

Power:	2200 W
Power transmission:	Direct Drive
Rated motor speed:	2750 min ⁻¹
Voltage:	230 V / 50 Hz
Fuse:	10 A Ⓢ träge
Rating Class:	s6 / (40% ED)
Protection Class:	I / Ⓢ
Weight:	21 kg
Dimensions	Depth: 510 mm Width: 433 mm Height: 1010 mm
Max. Twig Diameter:	Ø 3,5 cm
Work area related emission value L _{PA} ¹⁾ :	92 dB (A)
Guaranteed sound-power level L _{WA} :	102 dB (A)
Measured sound-power level L _{WA} :	101 dB (A)
Measuring Method:	1) pr EN 13863

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Installation

Installation of the chassis

(see illustration of the parts)

- A** Unscrew the star bolt **3** from the upper section of the housing.
- B** Remove the upper section of the housing **13**, as described.
- C** Push stopper **8** onto the undrilled side of the pipe frame.
- D** Slide washer **9** left and right on the axle and push the two pipe clamps through the lateral bore into the axle.
- E** Place shredder on the chassis. **Attention! Illustration E: Do not turn the shredder beyond the switch.**
- F** Place this unit on the chassis holder and push it against the retaining nubs until it locks. Insert the four hexagon bolts with collar **19** into the pipe frame and screw down with the four hexagon bolts **15**.
- G** Slide washer **9** and wheel **10** on the axle.
- H** Place clip **11** on the axle and drive this onto the axle using the hammer handle. It must be possible to turn the wheel freely. Install the second wheel as described above. Then tighten the four hexagon bolts of the chassis.

Note: The clip will be destroyed when removed.

Operation

Quoted voltage must be the same as mains voltage. To connect unit, flick over tubing located on the connecting socket.

Note:

In case of unfavourable mains conditions, transient voltage fluctuations that may affect other units can occur during the switch on procedure. Such faults are not expected with mains impedances < 0.43 Ohm.



- Check that all parts have been properly assembled!!
- No shredding residues must be present inside the shredder!
- Observe safety instructions at all times!
- Check that the star bolt **3** is well fixed.
- After approximately 1 hour of use, check that all the screws are secure. Retighten any loose screws immediately.

To switch on: Set switch **5** to position **I**.

To switch off: Set switch **5** to position **0**.

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Working Hints



Max. twig diameter (freshly-pruned branches) = 3,5 cm



Any items such as wire, nails, stones or plastics must not enter the shredder.

- After longer periods of work, check the firm seating of the blades.
- Organic wastes of all kinds may be shredded easily.
- Root clusters must first be cleaned of soil and stones. To prevent clogging up the shredder, mix tough or viscose shredding waste with dried twigs.
- If residues of chopped material accumulate on the blade discs, these must be removed.
- Always unplug the shredder after use.
- Immediately switch off the shredder when motor is blocked.

Rules for Shredding

Please observe local regulations on operating hours, if applicable.

Additional protective Equipment

Motor cut-out

If the motor is overloaded or blocked, the machine will switch off automatically after several seconds. If blocked, switch off immediately.

It is only possible to switch back on after a brief cooling phase. In such cases, allow the motor to run without loading for a short time to cool it.

Safety equipment

The safety equipment integrated in the switch housing switches the machine off automatically when it is opened. Nevertheless, the chopper should be switched off beforehand with the twist switch. Restart only when the housing is correctly in place.

Zero voltage trigger device

In the event of a power failure, the zero voltage trigger device built into the switch casing turns the switch off internally. However the rotary switch still remains in the I position. This prevents the unit from starting up again. It is only possible to switch the unit on again once the rotary switch has been moved to the 0 position and back to the I position. While connecting the unit to the mains a buzzing noise may be audible in the control housing. This is attributable to the integrated electromagnetic coil and should not be considered as a defect.



Pull out the mains plug before beginning any work on the machine!

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Composting Method

To accelerate breakdown of the various shredded materials, wet or damp material should always be fed into the shredder and mixed with dry garden waste. This provides better ventilation for the compost and allows the material to rot more quickly.

Servicing and Maintenance



Pull out the mains plug before beginning any work on the machine!

Clean the shredder with a hand brush or a damp cloth. Spray the blades and bolts with an anticorrosive agent.

Check all screws periodically for a tight fit and retighten when necessary. Store the unit in a **dry place**.



The machine may not be cleaned with a high-pressure cleaner or a strong jet of water.

Changing blades

B Dismantle the upper casing (see illustration B).

I Unscrew the 2 hexagonal bolts 16 from the upper section of the cutting

mechanism housing 17 and remove this.

J K Arrest the blade plate and unscrew hexagonal bolt 18 with an open-jaw or ring spanner (SW 13).

Remove blade disks, distance disk and blade plate.

L Clamp the blade plate vertically in a vice.

Unscrew the bolts of the flat blade.

Clean blade plate and flat blade thoroughly.

Turn the flat blade so that the opposing edge can be used. If both edges are worn, replace the blade.

Tighten the bolts by turns.

Required tightening torque 20 Nm.

M Mount blade plate and distance disc. The pins of the blade discs must engage in the corresponding bores of the lower part. The blade discs are offset to each other by 30° in a clockwise direction (see Illustration M). Tighten bolt **18** firmly. Tightening torque required 27 Nm.

In general, it is necessary to check for free and unimpeded rotation of the flat knife after installing a new knife blade or a new flat knife. Warning! Danger of injury from the sharp knife blades. Wear protective gloves.

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Procedure

Put the cutter unit casing in position and bolt it in place. Turn the knife blade by hand by one turn, ensuring that the flat blade does not touch the cutter upper casing.

If the flat knife cannot rotate freely, dismantle the plate-type knife. Pull out the spacer sleeve from the motor shaft and remove the shim from the motor shaft. In case of a unit design without adjusting washer, the distance sleeve is to be shortened by an authorised workshop. Put the spacer sleeve and the plate-type knife back in again. Replace the cutter upper casing and bolt it in place. Check again that the flat knife can rotate freely.

Use only original BRILL spare parts!

Environmental Protection



Shredder waste should not be deposited in rubbish bins but be composted.

Packaging materials, shredder and accessories are made of recyclable materials and should be disposed of accordingly.

Segregated and ecologically sound disposal of materials promotes the recycling of materials.

Faultfinding

If problems cannot be eliminated by the measures described here, the fault must be eliminated by an authorised workshop.

Motor cannot be switched on!

- Replace the fuse in the house. Use fuse 10 Ampere.
- Check that the upper section of the housing is mounted correctly.

Motor buzzes, machine does not start!

- Cutting mechanism is blocked. Free the blade plate and chopping chamber of chopped material.

Machine starts but blocks at the lightest load and switches off with the motor cut-out!

- Return the switch to the 0 position and switch back on.
- Always unroll the cable completely from the cable drum.
- The cross-section of an extension cable must always be at least 1,5 mm².
- Too many consumers connected simultaneously.

Heavy loss of cutting performance!

- Blunt blades (replace blades or use the other, sharp side of the blades).

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Notes On Use

The shredder must be used exclusively for the shredding of twigs, shrubs, root clusters and vegetable debris.

Do not use the shredder in temperatures under 0°C.

No responsibility is accepted for damage resulting from uses other than those specified, contrary to our instructions or to unauthorized repairs. The guarantee will not be valid.

The shredder is not designed for industrial use!

Machines which are used in public facilities, parks, sporting areas, on roads, in agriculture and forestry and in nursery gardens are regarded to be machines for industrial use.

We explicitly point out that under Product Liability Law, we cannot hold any responsibility for damage caused by our equipment when resulting from centre or an authorized dealer.

The above also applies to accessories.

Alterations reserved!

EU Certificate of Conformity

The undersigned

**Brill Gartengeräte GmbH,
Därmannsbusch 7,
D-58456 Witten (Herbede)**

hereby certifies that on leaving our factory, the unit indicated below is in accordance with the harmonised EU guidelines, EU standards of safety and product specific standards. This

certificate becomes void if the units are modified without our approval.

Description of the units:
Electric-shredder

Type: 2200 MH

Art. no.: 74000

EU directives:
Machinery Directive 98/37 EC
Low Voltage Directive 73/23 EC
Electromagnetic Compatibility 89/336 EC
Directive 93/68 EC
Directive 2000/14 EC *

Harmonised European standards:
EN 13683 :2004-03, EN 60335-1,
EN55014-1 / EN55014-2,
EN61000-3-2 / EN61000-3-3

Measured sound-power level:
101 dB (A)

Guaranteed sound-power level:
102 dB (A)

Testing authority:
VDE Prüf- und Zertifizierungsinstitut
EU code number: 0366

Evaluation in accordance with Noise Guideline 2000/14 EC Appendix V

Year of CE marking: 2004

Witten, den 01.07.2004

Markus Kress
Geschäftsführer

Technical documentation: Brill Technical Documentation (TD Department)

* part B n° 50 is not recognised by IWA according to EN 13 683 (RAL UZ 54)

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