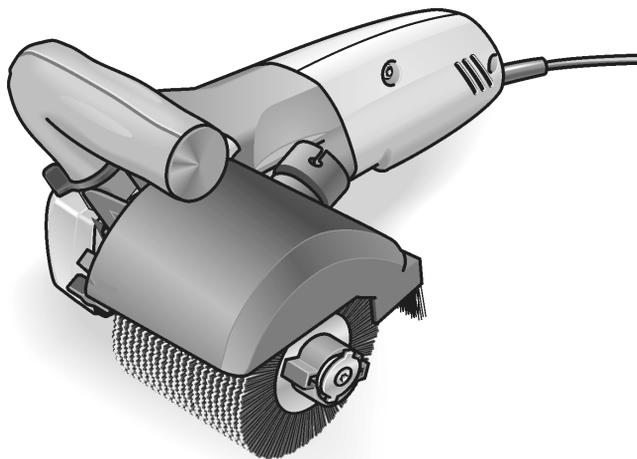


FLEX

BRUSHING MACHINE

BBE 14-3 110



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Symbols used in this manual



WARNING!

Denotes impending danger. Non-observance of this warning may result in death or extremely severe injuries.



CAUTION!

Denotes a possibly dangerous situation. Non-observance of this warning may result in slight injury or damage to property.



NOTE

Denotes application tips and important information.

Symbols on the power tool



Before switching on the power tool, read the operating manual!



Wear goggles!



Protection class II
(completely insulated)

For your safety



WARNING!

Before using the power tool, please read and follow:

- these operating instructions,
- the “General safety instructions” on the handling of power tools in the enclosed booklet (leaflet no.: 515.906),
- the currently valid site rules and the regulations for the prevention of accidents.

This power tool is state of the art and has been constructed in accordance with the acknowledged safety regulations.

Nevertheless, when in use, the power tool may be a danger to life and limb of the user or a third party, or the power tool or other property may be damaged.

The brushing machine may be used only

- as intended,
- in perfect working order.

Faults which impair safety must be repaired immediately.

Intended use

This tool is designed

- for commercial use in industry and trade
- for brushing of surfaces with nylon or steel wire brushes

Safety Instructions for power tools with a brushing attachment



WARNING!

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. **Save all warnings and instructions for future reference.**

Safety Warnings Common for Wire Brushing

- This power tool is intended to function as wire brush. Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

- **Operations such as grinding or abrasive cutting-off operations are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
 - **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
 - **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
 - **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
 - **For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
 - **Do not use a damaged accessory. Before each use inspect the wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.
 - **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
 - **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
 - **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
 - **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
 - **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
 - **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
 - **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
 - **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
 - **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.
- Kickback and Related Warnings**
- Kickback is a sudden reaction to a pinched or snagged brush. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control.

Safety Warnings Specific for Wire Brushing Operations

- **Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush.** The wire bristles can easily penetrate light clothing and/or skin.
- **If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard.** Wire wheel or brush may expand in diameter due to work load and centrifugal forces.

Additional safety instructions

- Use only extension cables permitted for outdoor use.
- Identify the power tool with stickers only. Do not drill any holes into the housing.
- The mains voltage and the voltage specifications on the rating plate must correspond.
- Recommendation that the tool always be supplied via a residual current device having a rated residual current of 30 mA or less.

Noise and vibration



NOTE

Values for the A-weighted sound pressure level and for the total vibration values can be found in the "Technical specifications" table.

The noise and vibration values have been determined in accordance with EN 62841.



CAUTION!

The indicated measurements refer to new power tools. Daily use causes the noise and vibration values to change.



NOTE

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 62841 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly decrease the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.



CAUTION!

Wear ear protection at a sound pressure above 85 dB(A).

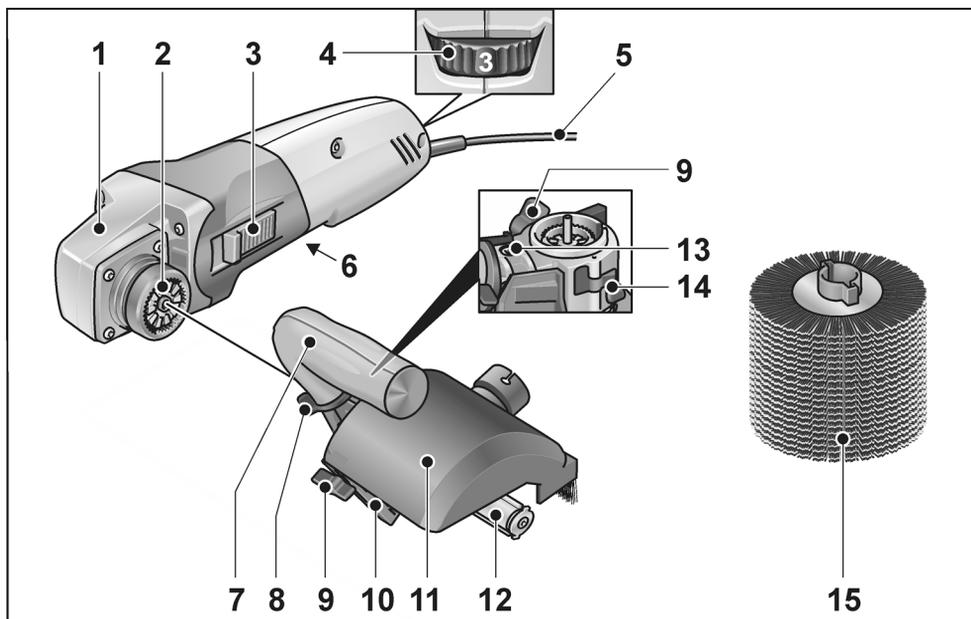
BBE 14-3 110

en

Technical specifications

Machine type		Brushing machine BBE 14-3 110
Mains voltage	V	240
Power input (--> 110 V)	W	1400 (1150)
Rated speed	r.p.m.	4300
No load speed	r.p.m.	1000 – 3500
Tool Ø max.	mm	125
Tool width	mm	100
Tool holder	mm	19
Belt dimensions (length x width)	mm	–
Belt speed	m/s	–
Weight according to "EPTA Procedure 01/2003"		
Drive without attachments (without cable)	kg	2.1
Drive with attachment (without cable)	kg	2.9
Protection class		II/□
A-weighted sound pressure level according to EN 62841 (see "Noise and vibration"):		
Sound pressure level L_{pA}	dB(A)	82.1
Sound power level L_{WA}	dB(A)	93.1
Uncertainty K	db	3.0
Total vibration value according to EN 62841 (see "Noise and vibration"):		
Emission value a_h when ... – satinising metal surfaces – sanding metal pipes	m/s^2	< 2.5 –
Uncertainty K	m/s^2	1.5

Overview



Drive unit BBE 14-3

- 1 Gear head
- 2 Snap coupling for attachments
- 3 Switch rocker
Switches the power tool on and off.
With notched position for continuous operation.
- 4 Dial for preselecting the speed
- 5 4.0 m power cord with plug
- 6 Rating plate ¹⁾

Brushing attachment BBE 14-3 110

- 7 Handle
- 8 Locking ring for fastening the cover
- 9 Locking screw for parallel guide
- 10 Parallel guide
- 11 Guard
- 12 Tool holder
- 13 Securing bolt
- 14 Release lever
- 15 Wire bush

¹⁾ not illustrated

Instructions for use

WARNING!

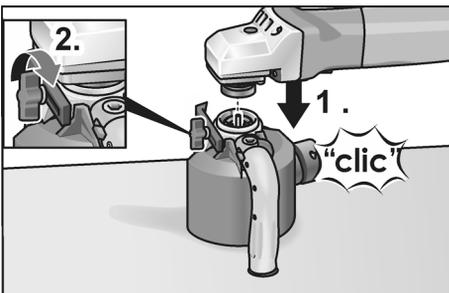
Before performing any work on the electric power tool, pull out the mains plug.

Before switching on the power tool

Unpack the drive unit and attachments, and check that no parts are missing or were damaged during transport.

Mounting attachments

- Place the required attachment on a level work surface with the snap coupling facing upwards.
- Open the locking screw on the attachment.

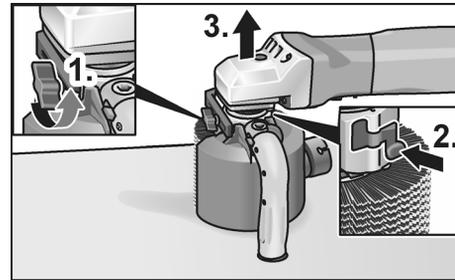


- Place the drive unit in the required position to the attachment and press down until it audibly engages (1.).
- Close the locking screw (2.).

NOTE

The gear teeth in the snap coupling of the drive unit and the attachment are automatically interlocked when the machine is switched on.

Removal of attachments



- Open the locking screw on the attachment (1.).
- Press and hold down the release lever (2.).
- Lift the drive unit off the attachment (3.).

Brushing attachment BBE 14-3 110

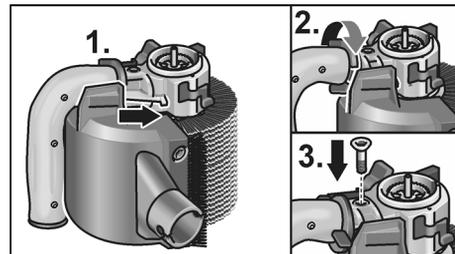
WARNING!

Before performing any work on the electric power tool, pull out the mains plug.

CAUTION!

The brushing attachment may only be operated after the protective cover has been mounted.

Mounting and removing the protective cover

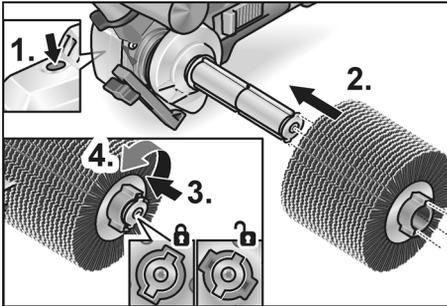


- Open the locking ring for fastening the cover.
- Attach the protective cover (1.).
- Close the closing ring for fastening the cover (2.).
- Screw in the securing bolt (3.).
- To remove the protection cover unscrew the securing bolt.
- Open the closing ring and pull off the cover.

Mounting brushing attachment

The tool holder enables the tool to be changed without any tools.

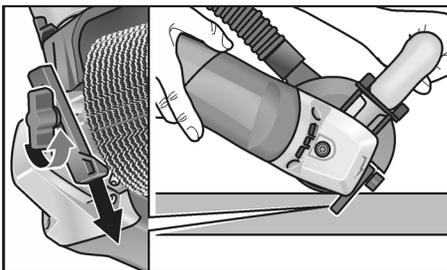
- Pull out the mains plug.
- Remove the protective cover, as described in section „Mounting and removing the protective cover“ on page 7.



- Press and hold down the spindle lock (1.).
- Push tool or tool support onto the tool holder (tongue and groove form fit) (2.).
- Press the tool downwards against the spring pressure (3.) and turn clockwise (4.). The tool holder is locked.
- Attach the protective cover as described in section „Mounting and removing the protective cover“ on page 7.
- Insert the mains plug into the socket.
- Switch on the electric power tool (without locking the button) and leave it running for approx. 30 seconds. Check for imbalances and vibrations.
- Switch off the electric power tool.

Using the parallel guide

The parallel guide ensures exact straight running when machining profiles.



- Loosen the locking screw on the parallel guide (1.).

- Adjust the parallel guide (2.).
- Re-tighten the locking screw.

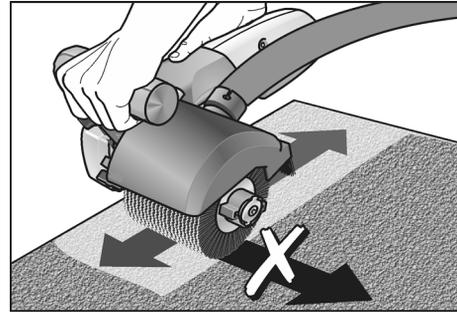
Work instructions for the brushing attachment

CAUTION!
When the appliance is switched off, the grinding tool continues running briefly.

Machining flat areas:

- Hold electric power tool with both hands.

To give the surface a decorative finish:

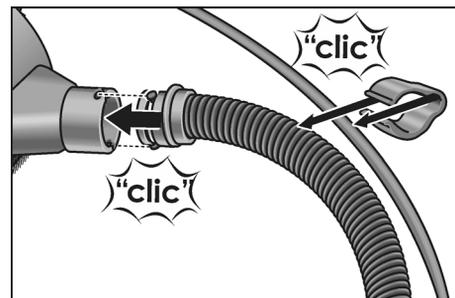


- Carefully place the electric power tool on the area to be machined and move the power tool forwards and backwards in a linear motion.

Connecting an extraction system

i NOTE
It is recommended to use a FLEX Class M dust extractor.

- Attach extraction hose to the connector on the guard hood.
- Attach power cord to the extraction hose using the enclosed cable holders (3x).



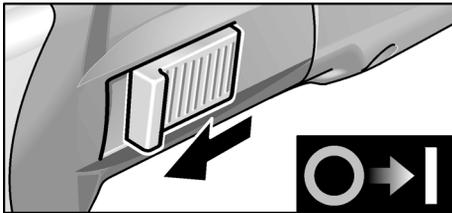
- Connect extraction hose to the dust extraction system. Follow the operating instructions for the dust extraction system! Check the attachment! If required, use an appropriate adapter.

i **NOTE**

If your dust extractor requires a special connection (i.e. a connection other than the 32 mm/36 mm standard connection which is included with the electric power tool), contact your dust extractor supplier to obtain the appropriate adapter.

Switching on and off

Brief operation without engaged switch

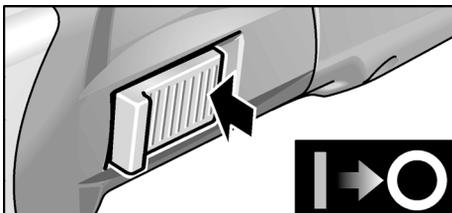


- Push the switch rocker forwards and hold in position.
- To switch off the power tool, release the switch rocker.

Continuous operation with engaged switch



- Push the switch rocker forwards (1.) and engage by pressing the front end (2.).



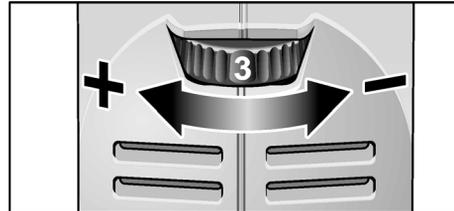
- To switch off the power tool, release the switch rocker by pressing the rear end.

i **NOTE**

Following a power failure, the switched on power tool does not restart.

Preselecting the speed

The adjusting wheel enables the operating speed to be continuously adapted to the material requirements.



Setting	Speed brushing attachment [r.p.m.]
1	1000
2	1500
3	2000
4	2500
5	3000
6	3500

Maintenance and care

⚠ WARNING!

Before performing any work on the electric power tool, pull out the mains plug.

Cleaning

⚠ WARNING!

If metals are ground or cut over a prolonged period, conductive dust may become deposited inside the housing. Impairment of the protective insulation! Operate the power tool via a residual-current-operated circuit-breaker (tripping current 30 mA).

- Regularly clean the power tool and ventilation slots. Frequency of cleaning is dependent on the material and duration of use.
- Regularly blow out the housing interior and motor with dry compressed air.

Carbon brushes

The drive unit is fitted with cut-off carbon brushes. When the cut-off carbon brushes reach their wear limit, the power tool switches off automatically.



NOTE

Use only original parts supplied by the manufacturer for replacement purposes. If non-original parts are used, the guarantee obligations of the manufacturer will be deemed null and void.

When the power tool is being used, the carbon brushes can be seen sparking through the rear air inlet apertures. If the carbon brushes are sparking excessively, switch off the power tool immediately. Take the drive unit to a customer service centre authorised by the manufacturer.

Gears



NOTE

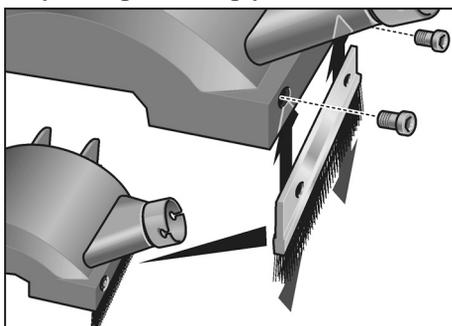
Do not loosen the screws on the gear head during the warranty period. Non-compliance will deem the guarantee obligations of the manufacturer null and void.

Repairs

If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

Repairs may be carried out by an authorised customer service centre only.

Replacing wearing parts



Spare parts and accessories

For other accessories, in particular grinding tools, see the manufacturer's catalogues. Exploded drawings and spare-part lists can be found on our homepage: www.flex-tools.com

Exemption from liability

The manufacturer and his representative are not liable for any damage and lost profit due to interruption in business caused by the product or by an unusable product.

The manufacturer and his representative are not liable for any damage which was caused by improper use of the product or by use of the product with products from other manufacturers.

FLEX WARRANTY POLICY

For warranty service, please contact FLEX customer service on Australia 1300 000 346 or New Zealand 0508 000 346.

Chervon Australia Pty Ltd ABN 36 165 077 501 and Chervon New Zealand Subsidiary Ltd NZBN 9429049277616 ("Chervon") warrants to the original domestic purchaser that this product will be free from defects in materials and workmanship for 2 years from date of purchase and an additional 1 Year (For a total of 3 Years) with registration via www.flex-tools.com.au or www.flex-tools.co.nz within 30 days of the original purchase. To make a claim, return the faulty item together with proof of purchase directly to your closest service agent or to the place of purchase. Any handling and transportation costs (and other expenses incurred in claiming this warranty) are not covered by this warranty and will not be borne by Chervon. The replacement product or part or repaired product will be made available for your collection at an address nominated by Chervon. Where a valid warranty claim is made, Chervon will replace the defective product or repair the fault. Where the product is repaired, Chervon may use refurbished parts. This warranty does not cover normal wear and tear, misuse, abuse, or continuous industrial use. This warranty only applies to product purchased by you, inside Australia or New Zealand from authorised Australian or New Zealand FLEX dealers. This warranty may also be further limited or voided as specifically detailed in the product Manual. Chervon has no other liability under this warranty. The benefits to you given by this warranty are in addition to other rights and remedies imposed by State and Federal legislation that cannot be excluded. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law and the New Zealand Consumer Guarantee Act 1993. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to

be of acceptable quality and the failure does not amount to a major failure. Chervon Australia Pty Ltd, Unit 14, 5 Kelletts Rd, Rowville, VIC 3178. Chervon New Zealand Subsidiary Ltd, 4th Floor, Smith & Caughey Building, 253 Queen St, Auckland, 1141 Ph: 1300 000 346.
Email: support@flex-tools.com.au



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For all FLEX warranty and enquiries, please contact Australia 1300 000 346 or
New Zealand 0508 000 346

