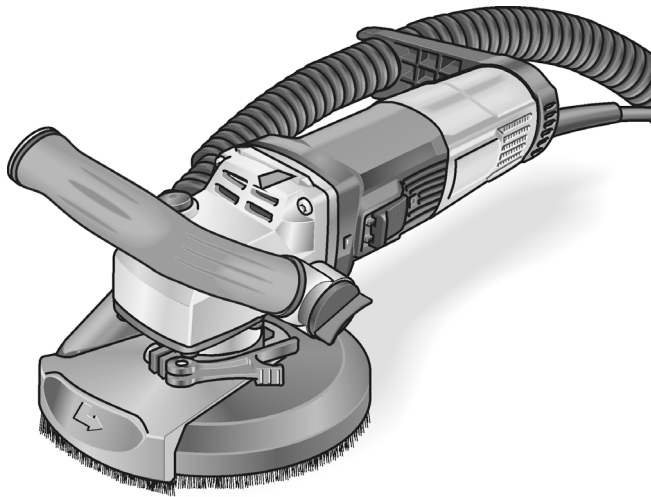


FLEX

REFURBISHMENT GRINDER

LDE 16-8 125 R



Contents

Symbols used in this manual	2
Symbols on the device	2
Important safety information	2
Noise and vibration	5
Technical data	6
Overview	7
Instructions for use	8
Maintenance and servicing	11
Disposal information	12
Exemption from liability	12

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 potentially dangerous situation. Non-observance of this warning may result in injury or damage to property.



NOTE

Denotes hints on use and important information.

Symbols on the device



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



Wear protective goggles.



Disposal information for the old tool (see page 12)!

Important safety information



WARNING!

Before using the power tool, please read the following and act accordingly:

- 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 assembled in accordance with the acknowledged safety regulations.

Nevertheless, when in use, the power tool may pose a danger to life and limb of the user or a third party, or the power tool or other items could be damaged. The power tool may be operated only

- for its intended use,
- in perfect working order.

Faults which compromise safety must be repaired immediately.

Intended use

The renovation sander LDE 16-8 125 R is designed

- for commercial use in industry and trade
- for dry sanding and smooth finishing concrete, plaster, screed, sandstone, fireclay and tarmac
- for sanding off paint and adhesive residue on concrete or screed
- for use with diamond tools that are offered by FLEX for these power tools and are authorised to run at a speed of at least 9000 rpm.

It is not permitted to use cutting discs, rubbing discs, flap discs or wire brushes.

When using the renovation sander LDE 16-8 125 R, connect a class M dust extractor.

Safety Warnings for Grinding and Sanding



WARNING!

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

- This power tool is intended to function as a grinder and sander. 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 wire brushing, polishing or cutting-off 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 an 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.
- Do not use damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips or cracks, backing pad for cracks, tear or excess wear, 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 the insulated gripping surfaces when performing an operation where the cutting accessory could contact hidden wiring or its own power cord. Contact with a live wire may make exposed metal parts of the power tool live and cause 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 fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazard.

- **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.

Safety Warnings Specific for Grinding

- **Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel.** Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
- **The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.** An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
- **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** The guard helps to protect the operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.
- **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- **Always use undamaged wheel flanges that are of correct size and shape for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
- **Do not use worn down wheels from larger power tools.** Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

Kickback and related safety notices

Kickback is the sudden reaction to a trapped or seized rotating tool/attachment, such as a sanding disc, sanding plate, wire brush and such like. If these items seize up or become trapped, the rotating attachment will stop abruptly. This results in an uncontrolled power tool accelerating against the direction of rotation of the tool/attachment in the seized area.

If e.g. a sanding disc becomes trapped or seized in the workpiece, the edge of the sanding disc will get caught from cutting into the workpiece and cause the sanding disc to disintegrate or the power tool to kick back. The sanding disc would then move towards or away from the user depending on the direction of rotation of the disc in the seized area. This can cause sanding discs to break as well.

A kickback occurs from incorrect or faulty use of the power tool. It can be mitigated through suitable precautions, which are described as follows.

- **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.

Additional safety instructions

- Use only extension cables approved for outside use.
- Sanding lead-based paints is not recommended. The removal of lead-based paints should be carried out by a specialist.
- Do not work on materials that release hazardous substances (e.g. asbestos). Implement safety measures if there is a danger of dust being generated that is hazardous to health, combustible or explosive. Wear a dust mask. Use local exhaust ventilation.
- Recommendation that the tool always be supplied via a residual current device having a rated residual current of 30 mA or less.



CAUTION!

The mains voltage and the voltage specifications on the rating plate must correspond.

use. 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: tool and accessory maintenance, keep hands warm, standard operating procedures.



CAUTION!

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

Noise and vibration



WARNING!

The specified measured values 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 60745 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 cutting accessories or poor maintenance, the vibration emission level may differ. This may significantly increase the exposure level over the total working period.

To make an accurate estimation of the vibration exposure level, it is also necessary to take into account the times when the tool is switched off or running but not actually in

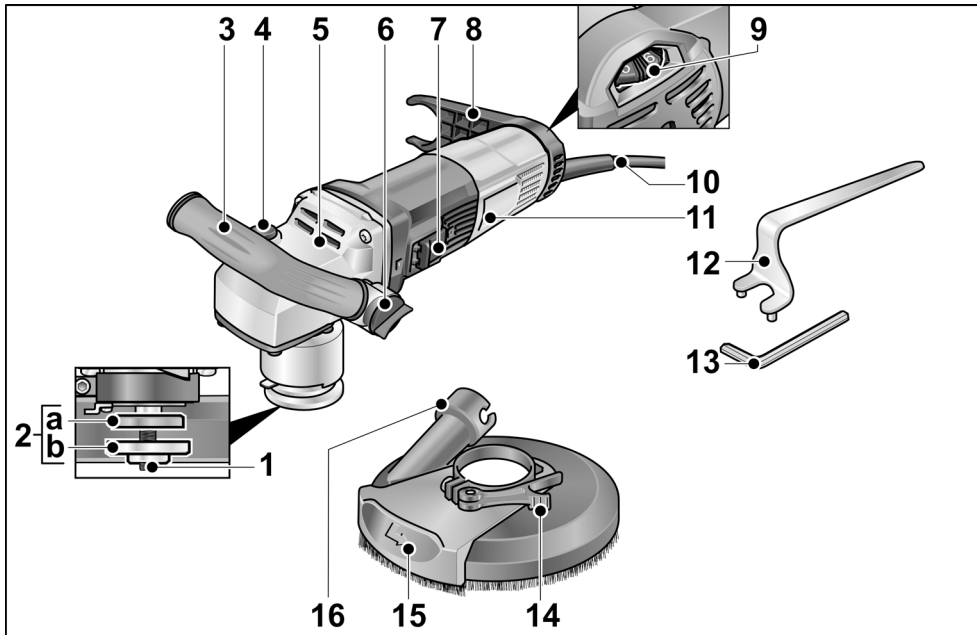
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LDE 16-8 125 R

Technical data

		LDE 16-8 125 R
Machine type		Renovation sander
Mains voltage	V	240
Protection class		II / 
Power input	W	1,600
Power output	W	900
Speed	rpm	1 - 4,500 2 - 5,200 3 - 5,900 4 - 6,400 5 - 7,100 6 - 7,800
Rated speed	rpm	9,000
Tool holder		M14
Max. disc diameter	mm	125
Weight according to "EPTA procedure 1/2003"	kg	3.0
A-rated noise level in accordance with EN 60745 (see "Noise and vibration")		
Sound pressure level L_{PA}	dB(A)	87
Sound power level L_{WA}	dB(A)	98
Uncertainty K	dB	3
Vibration total value in accordance with EN 60745 (see "Noise and vibration")		
Emissions value a_h when ...		
Sanding concrete surfaces	m/s^2	8.3

Overview



- | | |
|--|---|
| 1 Spindle with threaded flange | 8 Hose retainer |
| 2 a Clamping flange | 9 Setting wheel for speed preselection |
| b Clamping nut | 10 4.0 m power cord with plug |
| 3 Handle, adjustable | 11 Rating plate |
| 4 Spindle lock | 12 Stop wrench |
| For holding the spindle during tool change. | 13 Allen key |
| 5 Gear head | 14 Clamping lever |
| With air outlet and direction of rotation arrow. | 15 Swivelling edge segment |
| 6 Handle adjustment knob | 16 Connection for extractor |
| 7 Rocker switch | |
| For switching on and off. | |
| With detent position for non-stop operation. | |

Instructions for use

Before initial operation

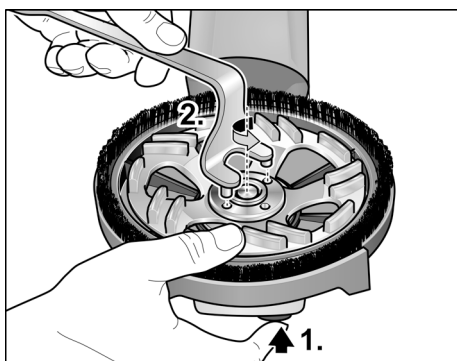
Unpack the power tool and accessories and check that no parts are missing or were damaged during transport.

Attaching and changing the abrading tool

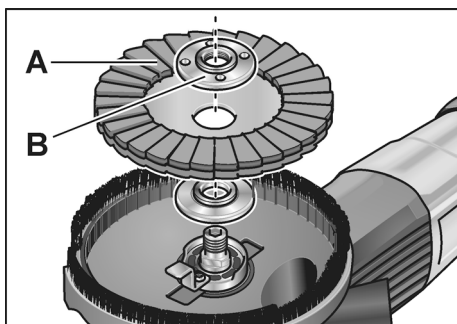


WARNING!

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

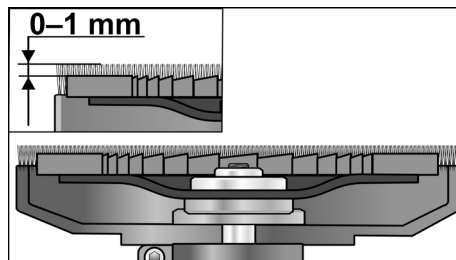


- Press and hold the spindle lock (1).
- Using the stop wrench, loosen the clamping nut on the spindle in anti-clockwise direction and remove (2).



- Insert the diamond grinding wheel (A) in the correct position.
- Screw the clamping nut (B) onto the spindle with the shoulder facing upwards.
- Press and hold the spindle lock.
- Tighten the clamping nut with the stop wrench.

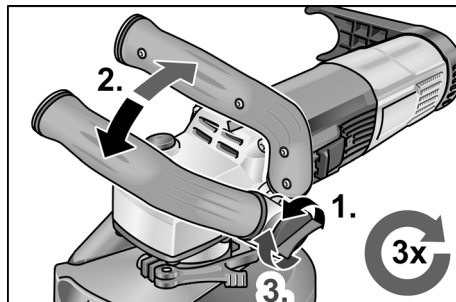
- Check the position of the protective hood.



The brush ring should protrude approx. 0–1 mm over the sanding plate. Adjust if necessary (see "Adjusting the protective hood").

- Insert the mains plug into the socket.
- Switch on the power tool (without detent) and allow it to run for approx. 30 seconds. Check for imbalance and vibrations.
- Switch off the power tool.

Adjusting the handle



- Loosen the handle adjustment knob approx. 3 turns in anti-clockwise direction.
- Move the handle to the desired position (15° detent). Ensure that it engages correctly.
- Tighten the handle adjustment knob in clockwise direction.



NOTE

The handle can be moved to the other side of the power tool if needed.

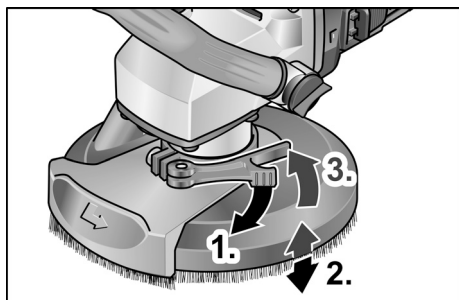
Adjusting the protective hood



NOTE

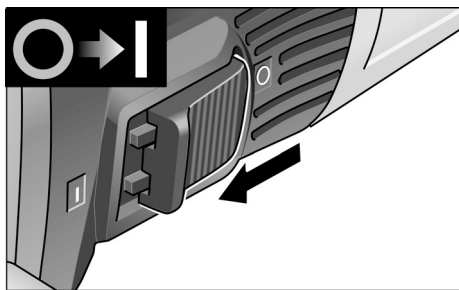
The brush ring should protrude approx. 0–1 mm over the sanding plate. The protective hood can be adjusted in height to compensate for wear of the diamond sanding plate.

- Release the clamping lever on the protective hood.
- Adjust the protective hood to the desired height.



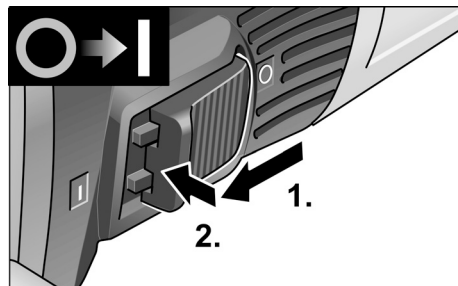
- Tighten the clamping lever.

Switching the power tool on/off Short-term operation without detent



- Push the rocker switch forwards and hold.
- Release the rocker switch to switch off.

Non-stop operation with detent



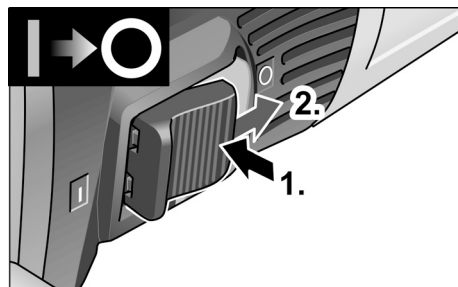
- Push the rocker switch forwards and engage by pressing the front part.



NOTE

If there is a power failure, the switched on power tool will not start running again.

Switching off the equipment:



- To switch off, release the rocker switch by pressing the rear part.



NOTE

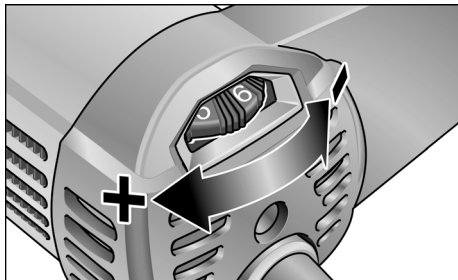
The tool will switch off automatically in the event of a short overload. To restart the tool, switch off and back on again.

If overheating occurs due to overload during non-stop operation, the speed of the power tool will be reduced automatically until the power tool has cooled down sufficiently. At the end of the cooling mode, the tool switches off automatically.

To restart the tool, switch off and back on again.

Speed preselection

To set the operating speed, move the dial to the required value.



CAUTION!

Risk of injury from disintegration of the tool. Use a tool appropriate for the task at hand.



NOTE

Avoid exerting excess pressure on the tool when sanding/grinding at low speed (1-3) as it will otherwise quickly overheat.

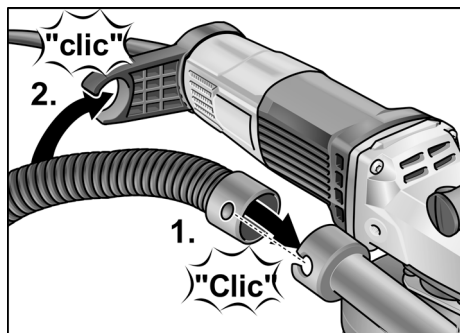
Using a dust extraction system



NOTE

The use of a class M FLEX dust extractor is recommended.

- Connect suction hose to the 32 mm connector.
- Engage the suction hose in the hose retainer.



- Connect the suction hose to the dust extraction system. Observe the operating instructions of the dust extraction system. Check the attachment. Use a suitable adapter if necessary.



NOTE

If your dust extraction system needs a special connection (i.e. a connection other than the 32 mm/36 mm standard connection included in the items supplied with the power tool), contact the dust extractor vendor to obtain a suitable adapter.

Working with the power tool



WARNING!

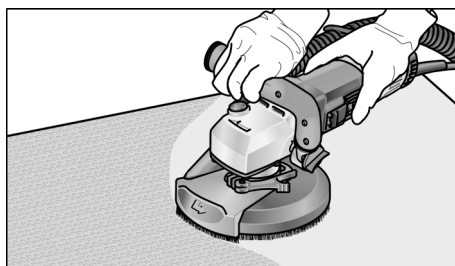
*The rotating sanding plate must not come into contact with sharp, protruding items. **Risk of kickback! Sanding plate damage.** If the sanding plate is damaged or heavily worn, it must be replaced without fail.*



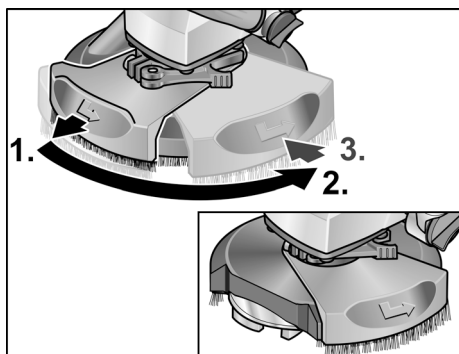
CAUTION!

Always hold the power tool firmly with both hands.

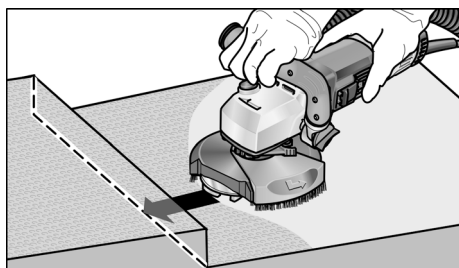
1. Secure abrasive.
2. Connect dust extraction system.
3. Insert the mains plug.
4. Switch on dust extraction.
5. Switch on the power tool.
6. Bring the renovation sander into position on the work surface.
The brush ring / rubber suction ring must be flush with the work surface.



7. Increase pressure to bring the sanding plate into contact with the work surface. Sweep the renovation sander with overlapping movements when doing this.
8. For sanding in corners:
 - Switch off the power tool and wait until the abrasive has stopped moving.
 - Pull out the swivelling edge segment and swivel it to the left.



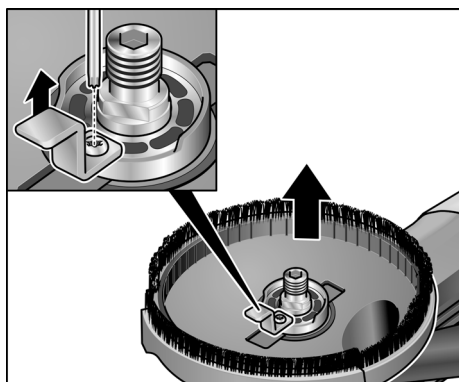
- Switch the power tool back on again.



9. Switch off the power tool after stopping work and pull out the mains plug.

Replacing the protective hood

The protective hood has a retainer. This must be reinstalled following replacement of the protective hood.



Brush ring

The protective hood features a brush ring. This ring fulfils two functions:

- Since the brush ring protrudes over the surface of the sanding plate, it is the first thing to come into contact with the work surface. This brings the sanding plate into position parallel with the work surface before the abrasive makes contact with the work surface. It prevents any ruts being cut into the surface by the edge of the sanding plate.
- The ring holds back dust before it is extracted by the vacuum cleaner. If the brush ring is damaged or exhibits excessive signs of wear, it should be renewed. A replacement brush set is available from any FLEX customer service centre.

Rubber suction ring

If the rubber suction ring is damaged or exhibits signs of excessive wear, it should be renewed.

A replacement suction ring is available from any FLEX customer service centre.

Maintenance and servicing



WARNING!

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

Cleaning



WARNING!

Do not use water or liquid detergents.

- Regularly blow out housing interior and motor with dry compressed air.
- Clean protective hood and swivelling edge segment with dry compressed air.

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 only be carried out by an authorised customer service centre.



NOTE

Do not loosen the screws on the motor housing during the warranty period.

Failure to comply with this requirement will invalidate any claims under the manufacturer's warranty.

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LDE 16-8 125 R

Spare parts and accessories

Other accessories, in particular cutting accessories, can be found in the manufacturer's catalogues.

Exploded drawings and spare-part lists can be found on our homepage:

www.flex-tools.com

Disposal information



WARNING!

Render disused power tools unusable by removing the power cord.



EU countries only

Do not dispose of electric power tools in the household waste!

In accordance with the European directive 2012/19/EU on Waste Electrical and Electronic Equipment and its incorporation into national law, end-of-life electric power tools must be collected separately and recycled in an environmentally-friendly manner.



NOTE

Please ask your dealer about disposal options.

Exemption from liability

The manufacturer and its agent 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 its agent are not liable for any damage which was caused by improper use of the power tool or by use of the power tool 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**

FLEX

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www.flex-tools.com.au
www.flex-tools.co.nz

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

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