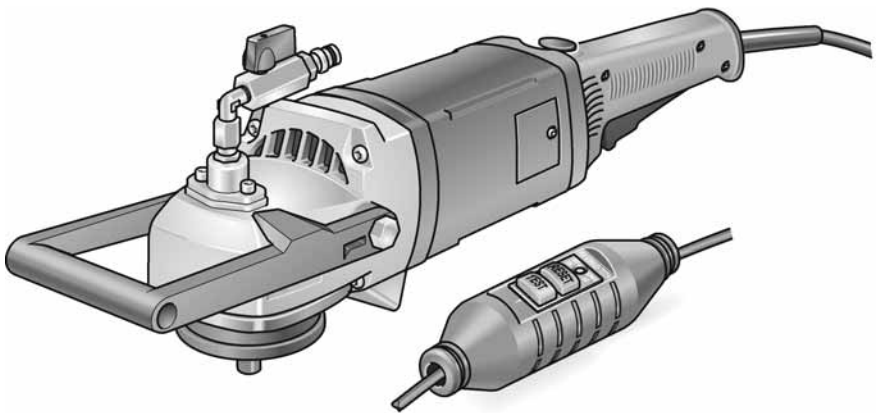
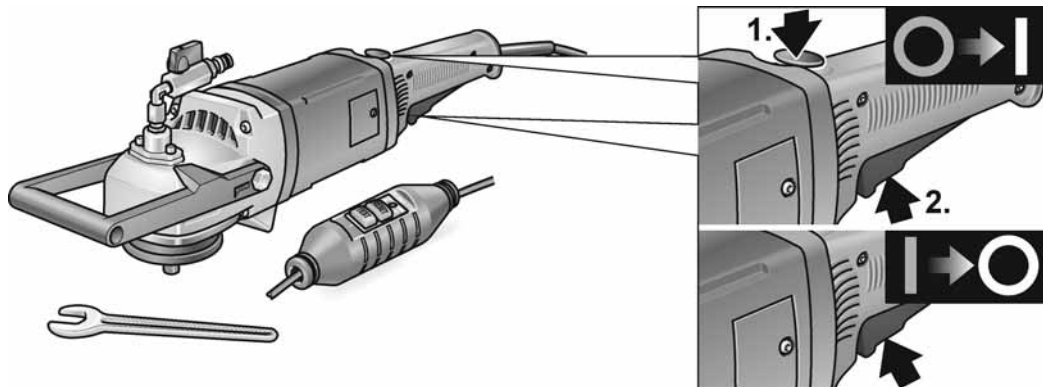


# FLEX

## WET STONE GRINDER

### LW 1202 SN





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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 instructions!



Wear goggles!



Disposal information for the old machine (see page 9)!

## 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 power tool may be operated only if it is

- used as intended,
  - in perfect working order.
- Faults which impair safety must be repaired immediately.

### **Intended use**

The wet stone grinder is designed

- for commercial use in industry and trade,
- for the surface processing of natural stone using suitable tools (sponge, foam rubber and Velcro diamond wheels, corundum grinding rings),
- for use with tools and accessories which are indicated in this manual or recommended by the manufacturer. The permitted circumferential speed and the maximum diameter must not be exceeded.
- The machine must not be used for cutting or roughing.

Chain cutting wheels, saw blades and all tools which require a guard are not permitted.

Machines without a PRCD switch must be operated via an isolating transformer.

## Safety instructions

### **WARNING!**

*Read all safety instructions and other instructions. Failure to observe the safety instructions and other instructions may result in an electric shock, fire and/or serious injuries. Keep all safety instructions and other instructions in a safe place for the future.*

### Combined safety instructions for grinding, sanding and polishing

- This electric power tool must be used as a grinder, sander and polisher. Observe all safety information, instructions, diagrams and data which you receive with the power tool. If you do not observe the following instructions, an electric shock, fire and/or serious injuries may occur.
- This electric power tool is not suitable for use with wire brushes and for cut-off grinding. If the electric power tool is not used as intended, the user may be exposed to hazards and may be injured.
- Never use accessories which the manufacturer did not intend or recommend especially for this electric power tool. Just because you can attach the accessory to your electric power tool does not guarantee safe use.
- The permitted speed of the insertion tool must be at least as high as the maximum speed indicated on the electric power tool. An accessory which rotates faster than permitted may shatter and fly off.
- Outer diameter and thickness of the insertion tool must correspond to the dimensions of the electric power tool. Incorrectly measured insertion tools cannot be adequately shielded or controlled.
- Grinding discs, flanges, sanding pads or other accessories must fit exactly on the grinding spindle of your electric power tool. Insertion tools, which do not fit exactly on the grinding spindle of the electric power tool, rotate unevenly, vibrate violently and may result in loss of control.
- Do not use any damaged insertion tools. Before use, always check insertion tools for splinters and cracks, sanding pad for cracks, wear and severe abrasion, wire brushes for loose or broken wires. If the electric power tool or the insertion tool is dropped, check for damage or use an undamaged insertion tool. When you have checked and inserted the tool, ensure that you and anybody in the vicinity remain outside the plane of the rotating insertion tool and leave the power tool running for one minute at maximum speed. Damaged insertion tools usually break during this test time.
- Wear personal protective equipment. Depending on the application, wear full face protection, eye protection or goggles. If appropriate, wear a dust mask, hearing protection, protective gloves and/or a special apron which protect you from small sanding and material particles. You should protect your eyes from foreign objects which are ejected for different applications. Dust and respirator masks must filter the dust which is generated by the power tool for the particular application. If you are exposed to loud noise for a prolonged period, you may suffer hearing loss.
- Ensure that other persons are situated at a safe distance from the work area. Anyone who enters the work area must wear personal protective equipment. Fragments of the workpiece or broken insertion tools may fly off and cause injuries even outside the direct working area.
- If the insertion tool is at risk of coming into contact with concealed power cables or the power cord itself, hold the power tool by the insulated grip surfaces only. Contact with a live cable may also cause metal parts of the appliance to become live and result in an electric shock.
- Keep the power cord away from rotating insertion tools. If you lose control of the appliance, the power cord could be severed or become caught and your hand or arm may strike the rotating insertion tool.

- **Never put down the electric power tool until the insertion tool has come to a standstill.**

The rotating insertion tool may come into contact with the support surface, possibly resulting in you losing control of the electric power tool.

- **Never leave the electric power tool running while you are carrying it.** Your clothing may become caught by accidental contact with the rotating insertion tool which may then drill into your body.

- **Regularly clean the ventilation slots on your electric power tool.**

The motor fan draws dust into the housing; a large build-up of metal dust may cause electrical hazards.

- **Never use the electric power tool near combustible materials.**

Sparks may ignite these materials.

### Recoil and appropriate safety instructions

Kickback is the sudden reaction to a pinched or snagged rotating insertion tool, such as a sanding disc, sanding pad, wire brush, etc. Pinching or snagging may cause a rotating insertion tool to stop abruptly. As a result, an uncontrolled electric power tool is accelerated against the direction of rotation of the insertion tool at the blocking point.

- **Hold the electric power tool firmly and position your body and arms to allow you to absorb kickback forces. If fitted, always use the auxiliary handle to ensure the best possible control over the recoil forces or reaction torques when acceleration occurs.** The operator can control kickback and reaction forces by taking appropriate precautions.

- **Keep your hands away from the rotating insertion tool.** The insertion tool may kick-back over your hand.

- **Keep your body out of the area into which the electric power tool moves when a recoil occurs.** Kickback propels the electric power tool in the direction opposite to the movement of the sanding disc at the point of pinching.

- **Work especially carefully near corners, sharp edges, etc. Prevent the insertion tool from recoiling off the workpiece and jamming.** The rotating insertion tool has a tendency to snag on corners, sharp

edges or if it bounces. This causes a loss of control or kickback.

- **Do not use a chain or toothed saw blade.** Such insertion tools frequently cause a kickback or the loss of control of the electric power tool.

### Special safety instructions for sanding

- **Use only those grinding tools which are permitted for your electric power tool.**

Sanding tools, which are not designated for use with the electric power tool, cannot be adequately shielded and are unsafe.

- **Sanding tools may be used for the recommended applications only. For example: Never grind with the side area of a cutting-off wheel.** Cutting-off wheels are designed to remove material with the edge of the wheel. If a lateral force is applied to these sanding tools, they may shatter.

- **Always use undamaged clamping flanges in the correct size and shape for the grinding disc you have selected.**

Suitable flanges support the grinding disc and therefore reduce the risk of the grinding disc breaking.

Flanges for cutting-off wheels may differ from the flanges for other grinding discs.

- **Do not use worn grinding discs from larger electric power tools.** Grinding discs for larger electric power tools are not designed for the higher speeds of smaller electric power tools and may break.

- **Do not use oversized sanding sheets, but follow the manufacturer's specifications for the size of sanding sheets.**

Sanding sheets which project over the sanding pad may cause injuries as well as block and rip the sanding sheets or cause a kickback.

### Special safety instructions for polishing

- **Do not allow any loose parts of the polishing hood, in particular fixing cords. Stow or shorten the fixing cords.**

Loose, entrained fixing cords may trap your fingers or become entangled in the workpiece.

### Additional safety instructions

- 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

The noise and vibration values have been determined in accordance with EN 60745. The A evaluated noise level of the power tool is typically:

Sound pressure level:	89 [dB(A)]
Sound power level:	100 [dB(A)]
Uncertainty K:	3 [dB]
Total vibration value (3-axis) when grinding natural stone with corundum grinding rings:	
Grinding rings K60:	3.0
Uncertainty K:	1.5 [dB]

### **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 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 accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. For a precise estimation of the vibration load the times should also be considered during which the power tool is switched off or even running, but not actually in use.

This may significantly increase 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).*

## Technical specifications

Machine Type		Wet stone grinder
		LW 1202 SN
Max. grinding tool Ø	mm	130
Tool holder		M14
Speed	r.p.m.	1750
Max. circumferential speed	m/s	11.9
Mains voltage	V	240
Power input	W	1600
Power output	W	1030
Water connection		½" (for self-closing quick-action coupling), max. 6 bar
Weight (without power cord)	kg	4.8
Protection class		II / 
– with contour plug:		I
– with PRCD:		

## Operating instructions

### **⚠ WARNING!**

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

### Before switching on the power tool

Unpack the electric power tool and check that no parts are missing or damaged.

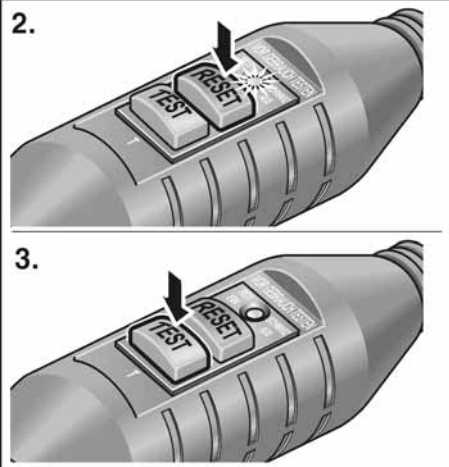
### Connection to the power supply – power tools with PRCD switch

#### **⚠ WARNING!**

These machines may be operated with the supplied PRCD switch only. Before using the machine, always check the PRCD switch.

Always check the machine before use:

1. Insert the mains plug into the socket.



2. Press “RESET” button.  
The red indicator light must come on.
3. Press “TEST” button.  
The PRCD switch must switch off and the indicator light go out.
4. When the “RESET” button is pressed again, it must be possible to switch on the machine.

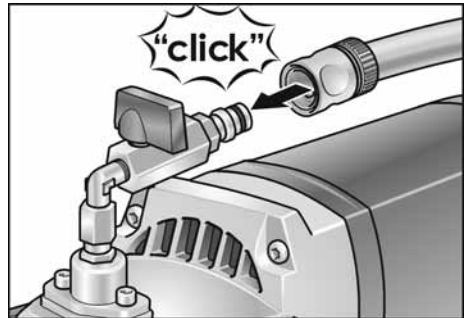
### **⚠ WARNING!**

If the PRCD switch repeatedly switches off when the machine is switched on or if the PRCD switch does not trip, immediately disconnect the machine from the power supply. Do not continue using the machine. Have the PRCD switch replaced by appropriately qualified technicians or customer service only.

### Connecting the water

#### **⚠ WARNING!**

Keep water away from the electric power tool and from people within the operating range. Do not switch on power tools which have not been connected correctly to the water supply. Regularly check that seals, shut-off valve and connectors function correctly.



- Attach ½" water hose to standard self-locking quick coupling.
- Do not open shut-off valve until at the place of use and the grinding tool is rotating.
- When removing the hose, ensure that no water runs into the machine.

### Attaching or changing the grinding tool

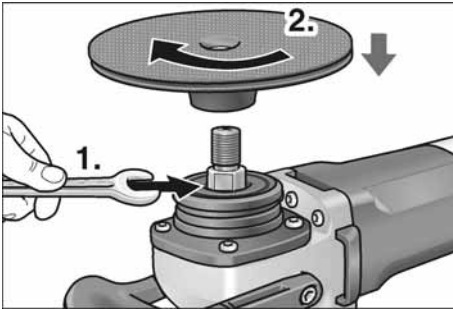
#### **⚠ WARNING!**

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

- Pull out the mains plug.
- Place machine on its back.

#### **i NOTE**

The M14 thread must have a depth of at least 20 mm.



- Hold the spindle with the enclosed wrench (1.).
- Screw tool holder (Velcro or support pad) onto the spindle (2.).
- Attach grinding tool to tool holder.

#### Function test:

- Insert the mains plug into the socket.
- Switch on the grinder (without locking the button) and leave it running for approx. 30 seconds. Check for imbalances and vibrations.
- Switch off the grinder.

### Switch on and off

#### Brief operation without engaged switch rocker

- Press and hold down the starting lockout.
- Press the switch and release the switch interlock.
- To switch off, release the switch.

#### Continuous operation with engaged switch rocker

#### **CAUTION!**

*Following a power failure, the switched-on machine will start running again.*

- First press and hold down the starting lockout and then the switch.
- To lock into position, hold down the locking button and release the switch. Release the starting lockout.
- To switch off, briefly press and release the switch.

### Operating instructions

#### **i NOTE**

*When the stone grinder is switched off, the grinding tool continues running briefly.*

- Attach sanding tool.
- Connect machine to the power supply.
- Connect the water.
- Switch on the machine.
- Open shut-off valve on the water connection.
- Applying light pressure, place the grinding tool on the material to be processed. Excessive pressure will increase the wear on the grinding tool and impair the grinding result.

## Maintenance and care

#### **WARNING!**

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

### Cleaning

- 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 electric power tool features cut-off carbon brushes. When the cut-off carbon brushes reach their wear limit, the electric power tool switches off automatically.

#### **i 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.*

### Gears

#### **i 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

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



## 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](http://www.flex-tools.com)

## Disposal information



### **WARNING!**

*Render redundant power tools unusable by removing the power cord.*



EU countries only

Do not throw electric power tools into the household waste!

In accordance with the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment and transposition into national law used 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 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 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](http://www.flex-tools.com.au) or [www.flex-tools.co.nz](http://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.  
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For all FLEX warranty and enquiries, please contact Australia 1300 000 346 or  
New Zealand 0508 000 346