RAUTOOL A-LIGHT2

DE  BEDIENUNGSANLEITUNG/TECHNISCHE INFORMATION
EN  OPERATING INSTRUCTIONS/TECHNICAL INFORMATION
FR  MODE D’EMPLOI/INFORMATION TECHNIQUE
IT  ISTRUZIONI PER L’USO/INFORMAZIONI TECNICHE
# RAUTOOL A-LIGHT2

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RAUTOOL A-LIGHT2
SAFETY WARNINGS

The tool is intended to be used with original REHAU supplementary sets for machining all REHAU compression sleeve systems in the size range 12 (16) – 40 mm.

Read all safety warnings and assembly instructions before using the tool.

Follow these operating instructions and always keep the safety warnings with the tool.
In addition to the operating instructions, always observe generally applicable statutory and other binding regulations relating to the prevention of and protection against accidents.

General safety warnings:
1. Keep your workplace clean and free of obstructions. Make sure there is always sufficient light.
2. Keep children, pets and unauthorised persons away from the place at which you are working.
3. Wear suitable working clothing. Do not wear loosely fitting clothes or jewellery! They may get caught in moving parts. Wear a hairnet if you have long hair. Use goggles.
4. Do not touch moving parts (risk of trapping fingers!)
5. Be alert! Only use the tool if you have received instructions in using it.
6. Keep your tools in a safe place. When not in use, tools should be kept in dry, closed rooms out of the reach of children.
7. The tool is suitable for creating REHAU compression sleeve joints only. Do not use the tool for other purposes!
8. Only operate the tool with original REHAU parts and accessories.
9. Maintenance and repair work should be done only in a service center authorised by REHAU. We will not be responsible for any work performed by an unauthorised person. The addresses of authorised service centers can be found in the attachment or they can be obtained from your REHAU sales office.

General tool-specific safety warnings:
1. Keep the tool, the batteries and the charger away from moisture, extreme heat, oil and solvents. The charger is only intended for use in dry, indoor rooms. It must not be used outdoors.
2. Never operate the tool in an environment presenting the risk of fire or explosion! Do not burn the tool!
3. Before use, examine the tool and accessories for damage or defects (for example, cracks in the cable insulation, oil leaks from the tool, bent compression cylinders, damage or visible wear of the jaw sets, etc). Check whether the moving parts are in proper working order, that they are not jammed and that parts are not damaged. All parts must be correctly assembled and satisfy all of the conditions to ensure proper tool operation.
4. Never work with a damaged tool or accessory! Immediately send the damaged tool to the nearest service center.
5. The battery may only be charged using the charger supplied. Using a different battery or different charger may cause an explosion.
6. At every tool alteration (replacement of jaw sets) remove the battery from the tool to prevent unintended actuation.
7. Make sure that the rechargeable battery contacts cannot be shorted by metal objects, such as screws, instruments, nails, etc. A short circuit between the battery contacts can cause burns or fire.
8. When charging, only use one-phase alternating current at the voltage indicated on the power rating label.
9. Do not insert foreign objects into the ventilation grills on the charger!
10. To prevent the motor from overheating, do not operate at maximum pressure for any prolonged period! The tool is not suited for long-term use. After about 50 consecutive compressions, it should be made to rest for at least 15 min. to allow it to cool.
11. Do not burn the tool, charger or rechargeable batteries! Rechargeable batteries may explode and flare up.
12. As a result of improper use, liquid can leak from the battery. Avoid contact with this liquid. In the event of inadvertent contact, rinse off with water. Should the liquid enter the eyes, obtain medical assistance as well.

Processing at temperatures under -10 °C and over +45 °C may result in damage to jointing components, to the tool and/or in personal injury.
- Do not work below the minimum processing temperature of -10 °C!
- At lower temperatures (below 0 °C) it is recommended that the jointing components be stored in a warm environment before being processed.

REHAU will not accept any liability for damage or injury attributable to unsafe product use, poor maintenance or improper product and system usage.
For planning and assembly kindly use our current Technical Information brochure. You can obtain the up-to-date brochure from your wholesale dealer, your REHAU sales office or by downloading from www.rehau.com.
RAUTOOL A-LIGHT2
ITEMS SUPPLIED

RAUTOOL A-light2, Art. No. 203597-001
- A-light2 basic tool
- 2 pins
- Li-Ion charger 230V
- Li-Ion battery 18V/1.5Ah
- Pipe cutter 40 stabil
- RO expander
- Tube of lubricant
- Cleaning brush
- A-light2 transport case
- Operating instructions
RAUTOOL A-LIGHT2
REPLACEMENT PARTS/ACCESSORIES

Supplementary set, manual expansion, blue 16-32
Art. No.: 137283
- expander head 16 x 2.2 RO
- expander head 20 x 2.8 RO
- expander head 25 x 3.5 RO
- expander head 32 x 4.4 RO
- set of compression jaws, hydraulic 16 x 2.2 / 20 x 2.8

Supplementary set stabil, manual expansion, green 16-32
Art. No.: 247524
- expander head 16.2 x 2.6 RO stabil
- expander head 20 x 2.9 RO stabil
- expander head 25 x 3.7 RO stabil
- expander head 32 x 4.7 RO stabil
- pipe cutter RAUTITAN stabil 16/20

Supplementary set, manual expansion, red 17-32
Art. No.: 268630
- expander head 17 x 2.0 RO
- expander head 20 x 2.0 RO
- expander head 25 x 2.3 RO
- expander head 32 x 2.9 RO
- set of compression jaws, hydraulic 17 x 2.0 / 20 x 2.0

Supplementary set stabil, manual expansion, red 17-32
Art. No.: 268630
- expander head 17 x 2.0 RO stabil
- expander head 20 x 2.0 RO stabil
- expander head 25 x 2.3 RO stabil
- expander head 32 x 2.9 RO stabil
- set of compression jaws, hydraulic 17 x 2.0 / 20 x 2.0

Supplementary set, hydraulic expansion, blue 16-32
Art. No.: 248421
- expander set 16 x 2.2 / 20 x 2.8
- expander bit 25 x 3.5
- expander bit 32 x 4.4
- set of compression jaws, hydraulic 16 x 2.2 / 20 x 2.8

Supplementary set, hydraulic expansion, blue 40
Art. No.: 201803
- expander bit 40 x 5.5
- set of compression jaws 40

Supplementary set, hydraulic expansion, blue 16-32
Art. No.: 248421
- expander set 16 x 2.2 / 20 x 2.8
- expander bit 25 x 3.5
- expander bit 32 x 4.4
- set of compression jaws, hydraulic 16 x 2.2 / 20 x 2.8

Accessories, mains adapter, 230/18 V
Art. No.: 203621

Accessories, mains adapter, 230 V
Art. No.: 203609

Accessories, Li-ion battery 18V/1.5Ah
Art. No.: 203619
for RAUTOOL A-light2

Detailed descriptions of the accessories/replacement parts can be found in the corresponding current Technical Information/Operating Instructions.
RAUTOOL A-LIGHT2

TECHNICAL DATA /
EQUIPMENT DESCRIPTION AND OPERATING PRINCIPLE

Technical data

Max. working pressure: 450 bar
Max. shear force: 18 kN (linear)
Mains voltage battery charger: 230 V/50 Hz
Battery voltage: 18 V
Battery capacity: 1.5 Ah
Battery technology: Lithium-ion
Battery charge time: approx. 22 mins
Hydraulic oil: Rivolta S.B.H. 11
Ambient temperature: -10 °C to +45 °C
Noise level: 70 dB (A) at 1 m distance
Vibrations: < 2.5 m/s² (weighted effective value of the acceleration)
Weight: approx. 2.4 kg (basic tool with battery)

Equipment description and operating principle

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<tr>
<th>Item. No.</th>
<th>Tool elements</th>
<th>Function</th>
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<tr>
<td>1</td>
<td>Operating switch</td>
<td>Actuating the compression process</td>
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<tr>
<td>2</td>
<td>Reset knob</td>
<td>Slider for opening the release valve for returning the tool to its starting position</td>
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<td>3</td>
<td>Compression cylinder</td>
<td>Working unit for holding the jaw sets (rotatable 360°)</td>
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<tr>
<td>4</td>
<td>Pins</td>
<td>Used to fasten the jaw sets to the compression cylinder</td>
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<tr>
<td>5</td>
<td>Battery</td>
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<td>6</td>
<td>Battery locking</td>
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<td>7</td>
<td>Jaw set</td>
<td>Rotatable double jaw set for two sizes</td>
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<tr>
<td>8</td>
<td>Red LED</td>
<td>Information on the battery charge levels and tool maintenance</td>
</tr>
<tr>
<td>9</td>
<td>White LED</td>
<td>LED for workplace lighting</td>
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RAUTOOL A-LIGHT2
TOOL PREPARATION

Charging the battery

To charge the battery, connect the charger to the electric power mains and push the battery securely into the charger. Charging takes about 22 minutes. The battery charge level is indicated by the LEDs on the charger.

Caution! Risk of injury.
Improper handling of the tool may result in personal injury and/or material damage

- To charge the battery, only use one-phase alternating current at the voltage indicated on the power rating label
- Charge the battery only by using the charger provided. Using a different battery or different charger may cause an explosion
- Never operate the charger in an environment presenting the risk of fire or explosion
- Do not expose the charger to rain or snow
- After charging or before any cleaning, disconnect the charger from the power source
- Make sure that the battery contacts cannot be shorted by metal objects, such as screws, instruments, nails etc. (for example, by carrying them in the pockets of your pants or the like)

Description of the LED display on the charger

<table>
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<tr>
<th>LED Display</th>
<th>Description</th>
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<tbody>
<tr>
<td><img src="image1" alt="Green LED flashes" /> <img src="image2" alt="Red LED flashes" /></td>
<td>Charger ready for use</td>
</tr>
<tr>
<td><img src="image3" alt="Red LED displays a steady light" /> <img src="image4" alt="Green LED displays a steady light" /></td>
<td>Battery charging, charged level less than 80%</td>
</tr>
<tr>
<td><img src="image5" alt="Green and red LEDs display a steady light" /> <img src="image6" alt="Red and green LED flash alternately" /></td>
<td>Battery charging, charged level 80-100%</td>
</tr>
<tr>
<td><img src="image7" alt="Green LED displays a steady light" /> <img src="image8" alt="Yellow LED displays a steady light" /></td>
<td>Battery is full, charger automatically switches to trickle charge. The battery can stay in the charger for approx. 24 hours without being damaged. Depending on the setting, a melody will sound once when the battery is full.</td>
</tr>
<tr>
<td><img src="image9" alt="Red and green LED flash alternately" /> <img src="image10" alt="Yellow LED flashes" /></td>
<td>A malfunction exists. The battery cannot be charged. The contacts of the charger or of the battery may be dirty or the battery is worn out or damaged. Clean contacts.</td>
</tr>
<tr>
<td><img src="image11" alt="Yellow LED displays a steady light" /></td>
<td>Conditioning charge of the battery to prevent the battery from wearing out quickly. This can occur when the battery is inserted into the charger at high or low temperatures or when it is completely charged or completely empty.</td>
</tr>
<tr>
<td><img src="image12" alt="Yellow LED flashes" /></td>
<td>Cooling fan malfunction. The battery can still be charged. Clean vents. If malfunction occurs often, send the charger in for maintenance or repair.</td>
</tr>
</tbody>
</table>

Only charge the battery at a room temperature of 10 °C to 40 °C. If you want to charge a hot or too cold battery, the red LED may flash. A battery which is too hot can remain in the charger, charging will begin when the battery has cooled down. A battery which is too cold, however, should be removed from the charger. Wait until the battery has reached room temperature. Charging will begin after the battery has warmed up or cooled down.
Description of the LED display on the tool

The light-emitting diode together with the electronic control system serves to provide information about the battery charge levels and the tool.

| 2 x | ![LED display](image) | Self-test! |
| 20 s | ![LED display](image) | Battery is flat! |
| 20 s/2 Hz | ![LED display](image) | Service! |
| 20 s | ![LED display](image) | Battery is flat! |
| 20 s/2 Hz | ![LED display](image) | Service! |
| 20 s/5 Hz | ![LED display](image) | Overheating! |
| 1x | ![LED display](image) | Warning! Pressing force! |
| 3x | ![LED display](image) | Warning! Serious malfunction! |

- **Self-test!**
  
  When the battery is inserted, the light-emitting diode flashes a few times. This means that the electronic control is performing its self-test satisfactorily. Attention! Wait approx. 30 seconds between removing the empty battery and inserting a charged one so that the self-test can be carried out.

- **Battery is flat!**
  
  If the diode displays a steady light for about 20 seconds after a work operation, this means that the battery is empty and needs to be charged.

- **Service!**
  
  If the diode flashes for about 20 seconds upon completion of a work operation, this means that maintenance needs to be carried out (after 20,000 joints). The tool should be sent to the REHAU service center as soon as possible.

- **Battery is flat! Service!**
  
  If the LED lights up for 20 seconds and then flashes, this means that the battery is flat and also that maintenance is due.

- **Overheating!**
  
  If the diode flashes quickly for about 20 seconds, this means that the tool is overheated. Allow for the device to cool down before using it again.

- **Warning! Pressing force!**
  
  If the light-emitting diode flashes once and emits a signal tone during the compression process, either the necessary pressing force was not reached or the pressing process was manually interrupted. The joint made in the compression process may not have been created properly and must be inspected.

- **Warning! Serious malfunction!**
  
  If the light-emitting diodes and the workspace lighting flash three times and if a signal tone is emitted at the same time during the compression process, there is a serious malfunction. The pressing force is not being reached when the motor is running. The joint made in this compression process may not have been created properly and must be inspected! The tool should be sent to the REHAU service center for repair as soon as possible. Should this malfunction occur three times in succession, the device will switch to malfunction and will need to be sent to the REHAU service center for repair.
RAUTOOL A-LIGHT2
TOOL PREPARATION

Caution! Risk of injury.
Improper handling of the REHAU tool may result in personal injury and/or material damage.

- Make sure that whenever the jaw sets are changed the pins are completely and safely locked in place.
- Before changing the jaw sets, the battery must definitely be removed from the tool (inadvertent actuation).
- Before each use, check the jaw sets, expander bits, expander sets and the tool for damage or visible wear. Damaged tools must no longer be used and should immediately be sent to an authorised service center for repair.
- When inserting the expander bit, click it completely into the compression jaws.
- The entire surface of the receiving groove of the bit must lie in the compression jaws.
Before actuating the tool, check to make sure that the seating and clamping action of the bit in the jaws are correct (to avoid falling out). If necessary, increase the clamping action through short actuation of the tool’s operating switch.

Expanding tool

Expander:
When screwing on expander heads open expander completely (> 90° position). Always screw expander heads fully on. Use expander heads that conform to the pipe dimensions (for example, 16 x 2.2).

Expander set:
When using the expander set, push the jaws (first long and then short) on first and then insert the expander set into the cylinder.

Expander bit:
Attention! When inserting the expander bit for hydraulic expanding, fully click the correspondingly sized expander bit into the respective compression jaws and check for fit (clamping).

Attention:
As a matter of principle, always insert the expanding tool into the pipe up to the stop.

Turn the expander set until the pin slips into the groove. Then fix the jaws and expander set using the pins.
Attention:
Fully insert the pins.
RAUTOOL A-LIGHT2
USING THE TOOL

1. When changing the compression jaws, always first push the long compression jaw and then the short one onto the tool cylinder.

2. Fix the compression jaws with the pins.

   **Attention:**
   Ensure the identical alignment of the double jaws (for example, size 25)! Always push the pins in all the way!

3. By rotating the tool cylinder, the compression jaw can be brought into the correct working position.

4. To insert the battery, push it completely into the holder until it locks into position on its own.

In the manufacture of vertical pipes, the compression sleeve can be held by means of the pipe gripper. The pipe gripper also serves to push back or hold the insulation or corrugated tube so as to provide the space needed for making the compression sleeve joints.
RAUTOOL A-LIGHT2
ASSEMBLY PROCEDURE

![Warning]

Failure to observe these instructions may result in damage to the jointing system, to the tool and in personal injury.

1. Using pipe cutters, cut pipe to required length at right angles and without leaving burrs.
   **Attention:**
   Keep your hand at a safe distance from the tool. Do not use saws, or similar!

![Image 1]

2. Slide compression sleeve onto pipe.
   **Attention:**
   With metal compression sleeves, the inside taper must point towards the joint.

![Image 2]

3a. Expansion using expanders:
   Expand pipe, rotate 30°, and repeat.
   The min. distance between expander head and compression sleeve must be two compression sleeve lengths.
   **Warning:**
   Do not tilt the pipe when expanding! Do not expand under bending stress!

![Image 3]

3b. Expansion using expander set:
   Expand pipe, rotate 30°, and repeat.
   The min. distance between expander head and compression sleeve must be two compression sleeve lengths.
   **Warning:**
   Do not tilt the pipe when expanding! Do not expand under bending stress!

![Image 4]

3c. Expansion using expander bit
   Expand pipe, rotate 30°, and repeat.
   The min. distance between expander head and compression sleeve must be two compression sleeve lengths.
   **Warning:**
   Do not tilt the pipe when expanding! Do not expand under bending stress!
4. Insert fitting into pipe up to the stop. After a brief period, the fitting will sit tightly in the pipe (memory effect).

Attention:
All sealing ribs must be covered. Until the memory effect sets in fully, the fitting can fall out of the pipe! Make sure to seat the fitting in level position.

5. Fully insert the joint into the clamping tool.

Attention:
Do not tilt! Tool must be applied over full surface and at right angles.

6. Start compression process by actuating the operating switch and press in the compression sleeve up to the fitting collar.

Attention:
Do not touch moving parts (risk of trapping fingers!)
The compression process can be interrupted at any time by releasing the operating switch.

7. The tool comes equipped with a semi-automatic release valve. If the tool is moved to its final position for a prolonged period or used again after arriving at its final position, the tool will automatically return to its starting position. Furthermore, the tool can be manually returned to its starting position if the release valve is actuated (black button opposite the operating switch).

8. Completely compressed compression sleeve joint.

Processing at temperatures under -10 °C and over +45 °C may result in damage to jointing components, to the tool and/or in personal injury.
- Do not work below the minimum processing temperature of -10°C!
- At lower temperatures (below 0 °C) it is recommended that the jointing components be stored in a warm environment before being processed.
RAUTOOL A-LIGHT2
IMPORTANT NOTES

Failure to observe these instructions may result in material damage and/or personal injury.

**Attention:**
Do not touch moving parts (risk of trapping fingers!)

When using an expander bit, check to make sure that the seating (fully inside the jaws) and clamping action of the bit in the jaws are correct (to avoid falling out).

Always apply clamping jaws or jointing technique at right angles, making sure they completely contact the entire surface.

Make sure the fitting is correctly seated in the tool. Applying the tool to the wrong fitting collar will over-compress the joint!

Failure to observe these instructions may result in material damage.

**Attention:**
Do not expand the pipe under bending stress!
Expanding tool and pipe axis must be identical in the expansion area (approx. three compression sleeve lengths):
if necessary, readjust the pipe by bending.

Never work with a damaged expander head as this will damage the pipe! Replacements are available from your dealer or from the REHAU sales office.

As a matter of principle, always insert the expanding tool into the pipe up to the stop.
Do not tilt the expanding tool!

Regularly grease the expander taper (tube of lubricant included). To avoid excess grease entering the pipe, do not grease the taper too much.
**Attention:**
Do not grease the expander segments that are in contact with the pipe!

Your tool is equipped with the REHAU RO expander system. In order to avoid damage to the pipe, do not use REHAU RE expander system parts (until 1996) with RO expander system components!
RAUTOOL A-LIGHT2
IMPORTANT NOTES RAUTITAN

Compatibility dimension 40

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RAUTOOL A-LIGHT2
MAINTENANCE NOTES

Regular inspection:

Risk of injury!
Always remove the battery or unplug from the mains before cleaning and inspection.

- Always keep jaw sets, expanding tools and cylinders clean. When soiled, clean them with a brush and oil them. Then store the tool in a dry place.
- Before every use, check the jaw sets, expanding tools and the A-light2 basic tool for damage or visible wear. Damaged tools must not be used anymore and should immediately be sent to an authorised service center for repair.
- Make sure that the jaw sets are fully applied across the whole surface and at a right angle during the compression process, and the compression sleeve is inserted up to the fitting collar.
- Regularly grease the expanding tool tapers. Do not apply grease to the surface of expander segments! Should excess grease reach the expander segments, the segments must be thoroughly cleaned (e.g. cleaning solvent) and then dried.

Repairs

Risk of accident!
Do not perform any repairs on the tool yourself! Repairs should only be carried out by an authorised service center.

Storage:
Never store the tool if wet! Dry the tool and grease it. Then store it in a dry place.
As a matter of principle, store the tool in its final position (extended cylinder or jaw sets) to extend its service life.
## Notes on Troubleshooting

### Motor does not run
- Tool/Battery contacts dirty
- Tool/Battery contacts damaged
- Battery not correctly locked into the tool
- Battery empty
- Battery faulty
- Tool faulty

**Correction**
- Clean contacts when dry with non-conducting material
- Send tool/battery to REHAU service center
- Reinsert battery, pay attention to locking mechanism!
- Charge battery
- Send battery to REHAU service center or independently give it to the recycling system
- Send tool to REHAU service center

### Tool loses oil
- Leak in oil tank or release valve

**Correction**
- Do not open the tool and do not remove or damage the tool seal!
- Send tool to REHAU service center

### Tool does not reach final pressure
- Leak in oil tank or release valve
- Air in the hydraulic system
- Tool faulty

**Correction**
- Do not open the tool and do not remove or damage the tool seal!
- Send tool to REHAU service center
- Interrupt the compression process.
- Hold reset knob under tension (see page 8/Item No. 2) and at the same time continuously actuate the operating switch for about 10 seconds. If this does not correct the defect, the tool must be sent to a REHAU service center.
- Send tool to REHAU service center

### Battery does not charge
- Charger not plugged in correctly
- No power coming to socket
- Charger / Mains cable or plug damaged
- Charger not ready
- Charger/Battery contacts dirty
- Charger/Battery contacts damaged
- Battery not locked correctly into the charger

**Correction**
- Reinsert mains plug
- Change socket
- Send charger to REHAU service center
- Wait for green LED to flash
- Clean contacts when dry with non-conducting material
- Send charger/battery to REHAU service center
- Reinsert battery, pay attention to locking mechanism!

If the defects cannot be remedied, send the tool to the REHAU service center or your dealer.
**Garantie-Karte / Guarantee Card**

**Artikel: / Article:**

**Nr.: / No. / Codice:**

**Seriennummer: / Serial number:**

**Ausgabedatum an Handwerkskunden: / Date delivered to customer:**

**Stempel / Unterschrift: / Stamp / Signature:**

**Garantiezeit:**

12 Monate ab Lieferung bei bestimmungsgemäßer Gebrauch und pfleglicher Handhabung.

**Guarantee period:**

12 months from delivery if used as directed for the applications intended and handled with reasonable care.

**Durata della garanzia:**

12 mesi a partire dalla data di consegna, se l’attrezzo è utilizzato secondo lo scopo cui è destinato e se maneggiato con cura.

**Mit Ihrem neuen Verpress- und Aufweitungswerkzeugen wurden zu Ihrer Sicherheit im Werk mehrere Tests unter Last durchgeführt. Gebrauchsspuren sind dabei unvermeidlich, mindern aber die Qualität des Werkzeugs in keiner Weise. Die Geräte wurden durch unsere Abteilung Qualitätssicherung kontrolliert und freigegeben. Sollte es trotz sorgfältiger Fertigung und Montage einen Grund zur Beanstandung geben, bitten wir Sie, das Gerät zusammen mit diesem Schein zur Reparatur bzw. zum Umtausch einzusenden. Weitere Ansprüche gleich welcher Art, sind ausgeschlossen.**

**For your benefit / safety some tests under load were carried out on your new expander and pipe clamping tool in the factory. It is inevitable that traces of use result from these tests. They do not however in any way detract from the quality of the tool. The tools have been tested and approved by our quality control department. If despite the careful manufacture and assembly of the tool you still have reason for complaint we kindly ask you to return the tool for repair or exchange together with this guarantee card. Any further claims regardless of their type are not valid.**

**Plusieurs tests ont été réalisés en usine sur cet outillage d’expansion et de sertissage afin d’en garantir la sécurité. La mise en service de l’appareil pour la réalisation de ces tests n’a toutefois aucune répercussion sur la qualité de l’outillage. Ces outillages ont été soumis aux contrôles de notre service Assur- ance Qualité. Si malgré ces exigences rigoureuses de fabrication et de montage, il y a motif à contester la qualité de l’outillage, nous vous prions de bien vouloir nous retourner celui-ci accompagné de ce certificat, pour réparation ou échange. Toute autre revendication quelqu’elle soit, est à exclure.**

**Per la Vostra sicurezza, gli attrezzi di espansione/compressione sono stati sottoposti a diversi test. Tracce dell’utilizzo sono inevitabili, ma non ne compromettono in alcun modo la qualità. Gli attrezzi sono stati controllati e approvati dal nostro reparto qualità. La produzione e il montaggio dell’attrezzo sono stati eseguiti secondo elevati standard qualitativi. Se, nonostante ciò, doveste riscontrare delle anomalie, Vi preghiamo di rispedirci unitamente alla presente garanzia. Provvederemo a ripararlo o a sostituirlo. Ulteriori contestazioni di qualsivoglia natura non saranno prese in considerazione.**

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