



KÄYTTÖ

- o Metallisten työvälineiden lämmittäminen.

OMINAISUUDET

- o Elektromagneettinen induktio, ei liekkejä
- o Työväline lämpeää 2:ssa sekunnissa
- o Sähkötoiminen, ei vaadi kaasukytkentöjä tai pulloja
- o Kaksi ulkopuolista sensoria aktivoi lämmityksen vasta kun työväline on kammiossa
- o Etu panelin LED-valo ilmaisee käynnissä olevan lämmitysvaiheen
- o Kaksi silikonin kuppia suojaavat kammiota ja ehkäisevät vaha-jäämiä

EDUT

- o TURVALLISUUS: vähentää palovammojen vaaraa oikein käytettynä* sekä parantaa työskentely tilan ilmanlaatua.
- o KÄTEVYYS: Liikuteltava ja heti-valmis toiminta. Voidaan sijoittaa käyttäjän kannalta optimaalisesti
- o HELPPO: helppolukuisen LED paneli ilmoittaa työvaiheen ja silikonikuppien ansiosta helppo pitää puhtaana.
- o SÄHKÖÄ SÄÄSTÄVÄ: minimaalinen sähkön kulutus kahden ulkopuolisen sensorin ansiosta, laite käyttää sähköä vain silloin kun instrumentti on kammiossa.

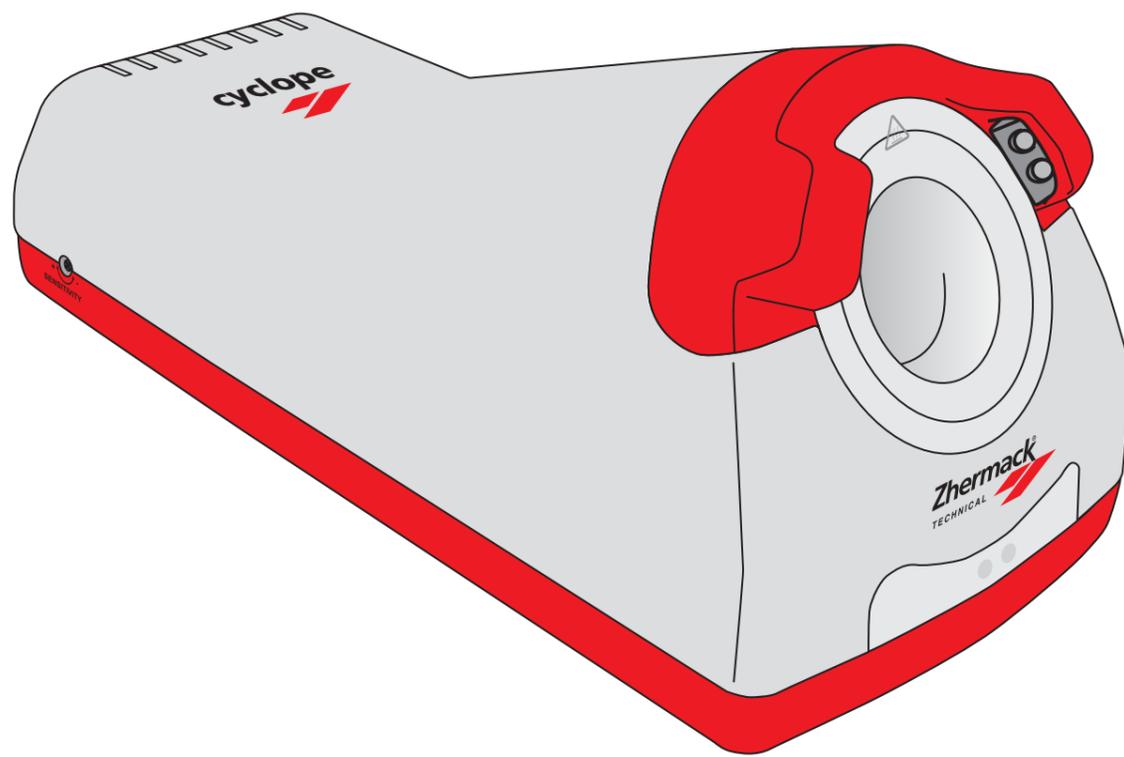
*Seuraa tarkasti käyttö- ja huoltoohjeita

Technical Data

KOODI	MALLI	KOKO (cm)	PAINO (kg)	JÄNNITE (V / Hz)	TEHO
C308300	Cyclope 230V	L91 / P209 / H89	≈0.5	230V±10% / 50-60 Hz	100 Watt

Lisävarusteet

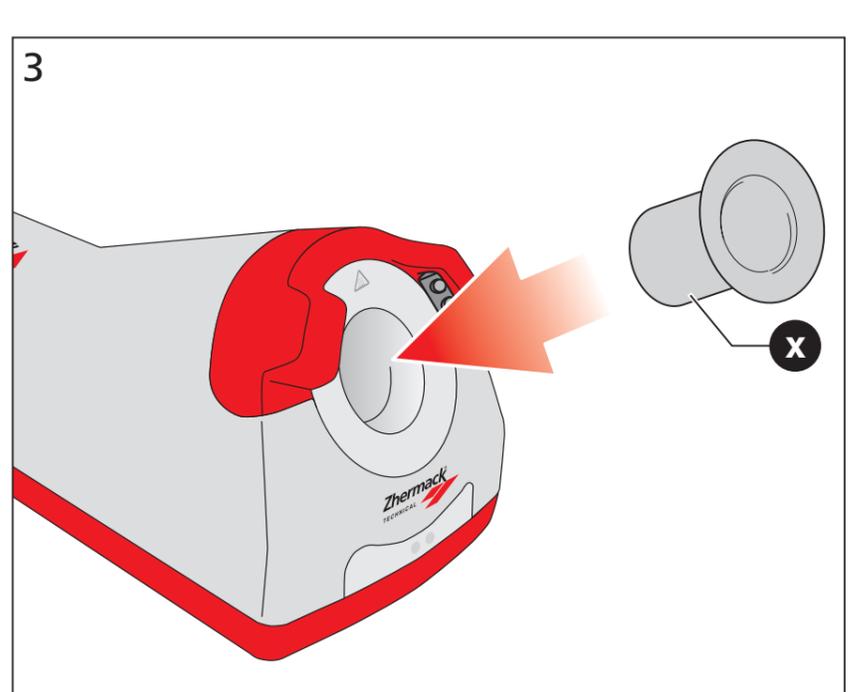
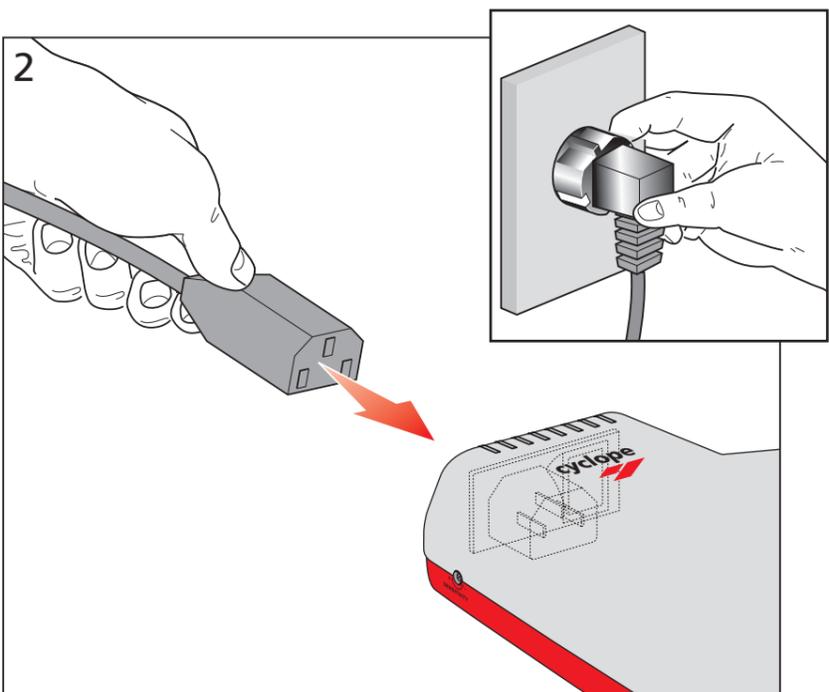
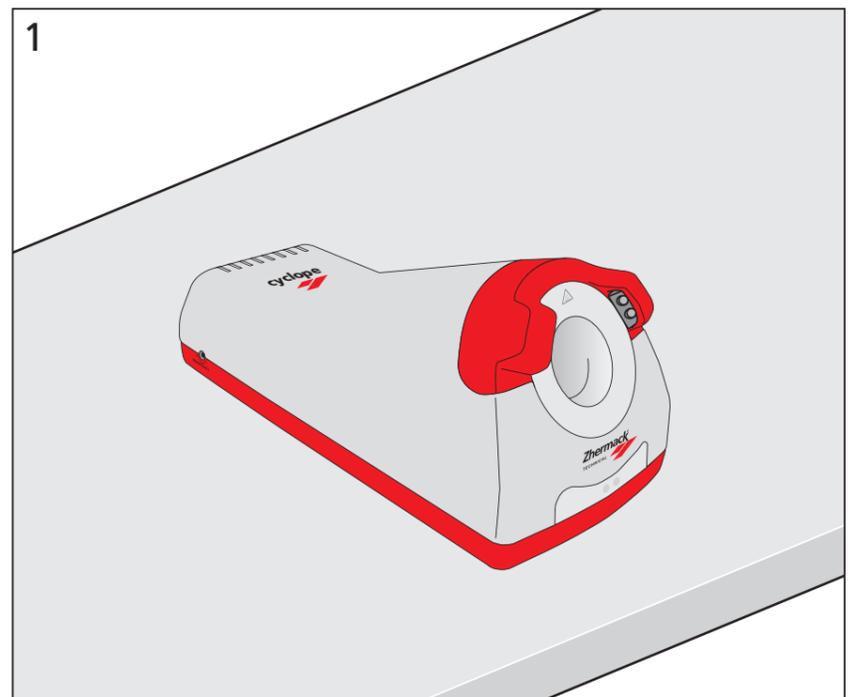
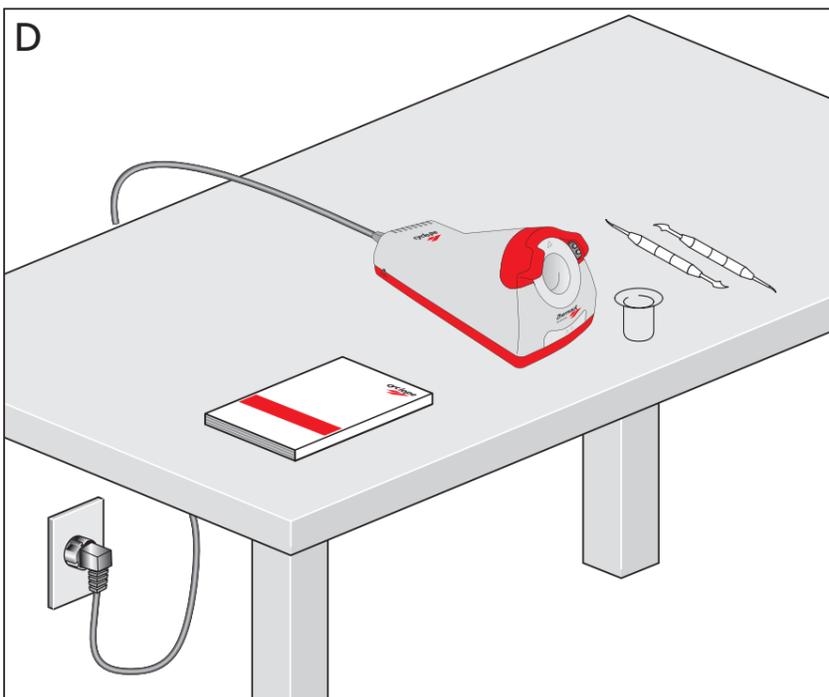
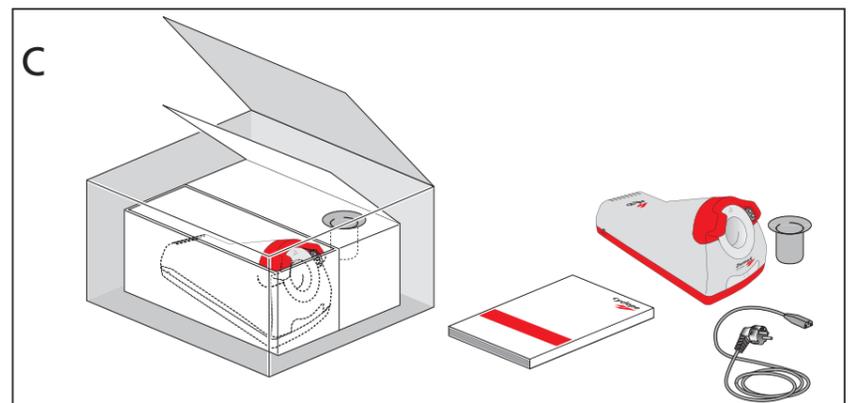
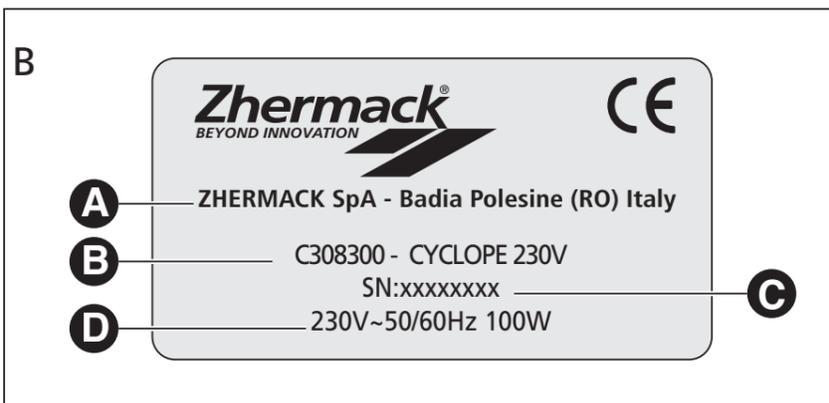
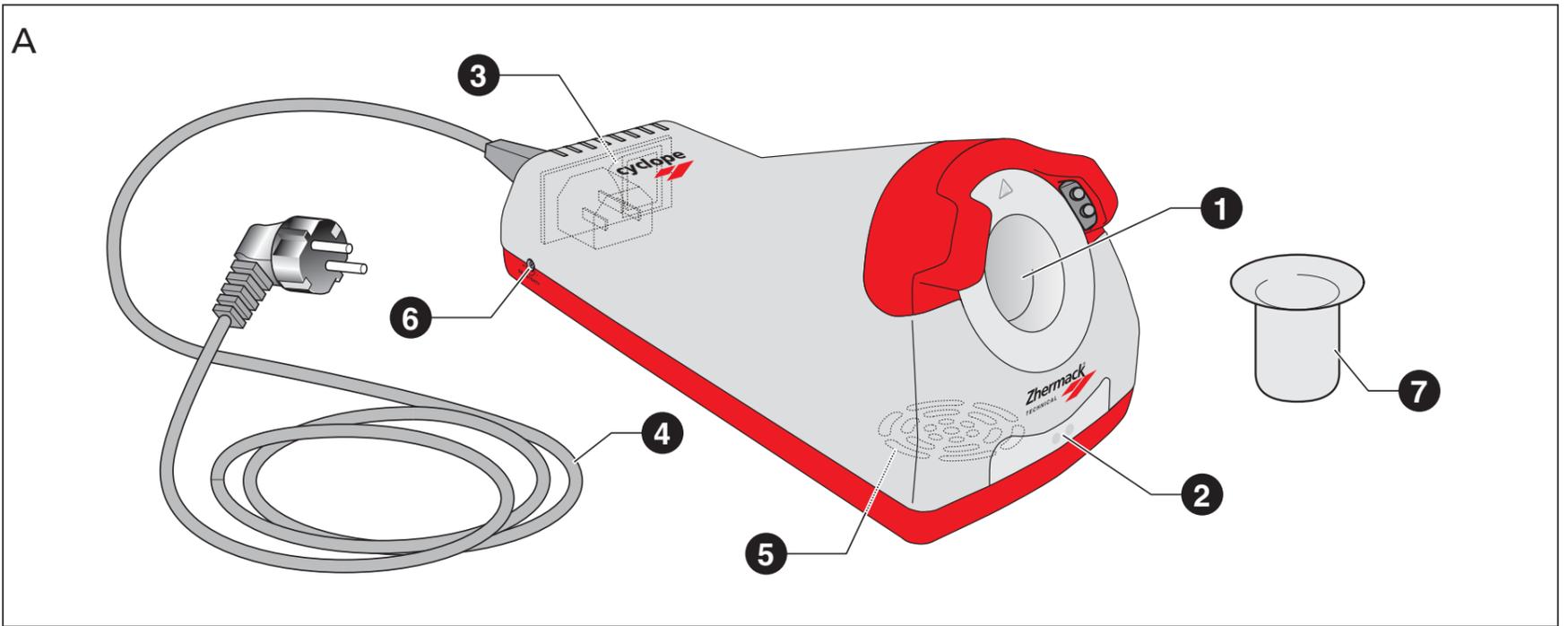
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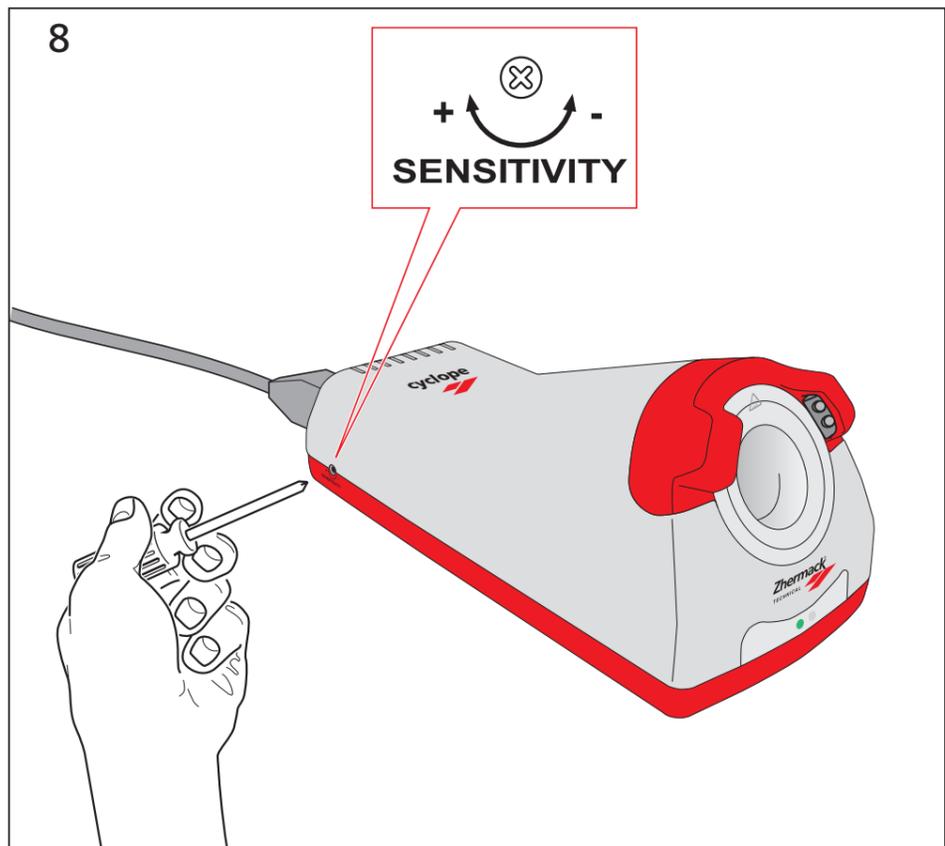
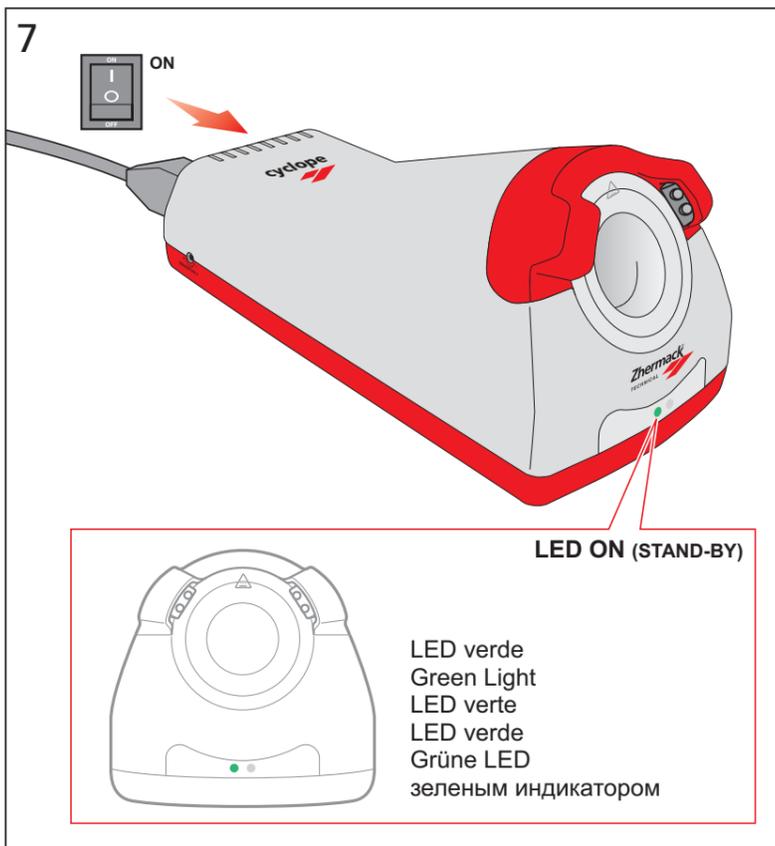
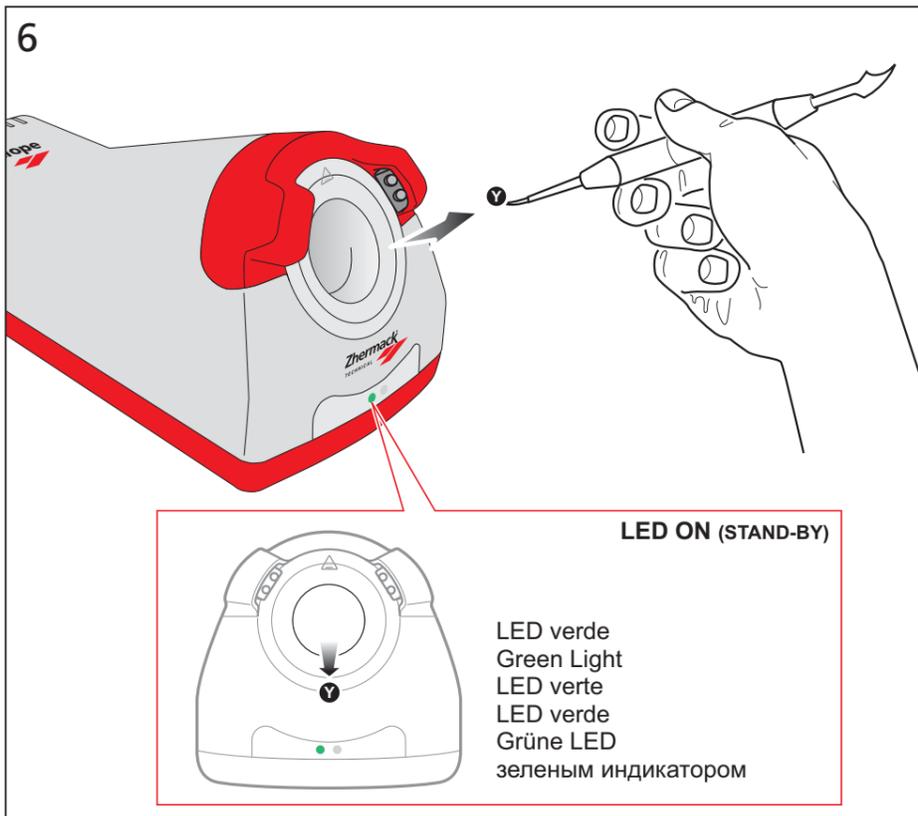
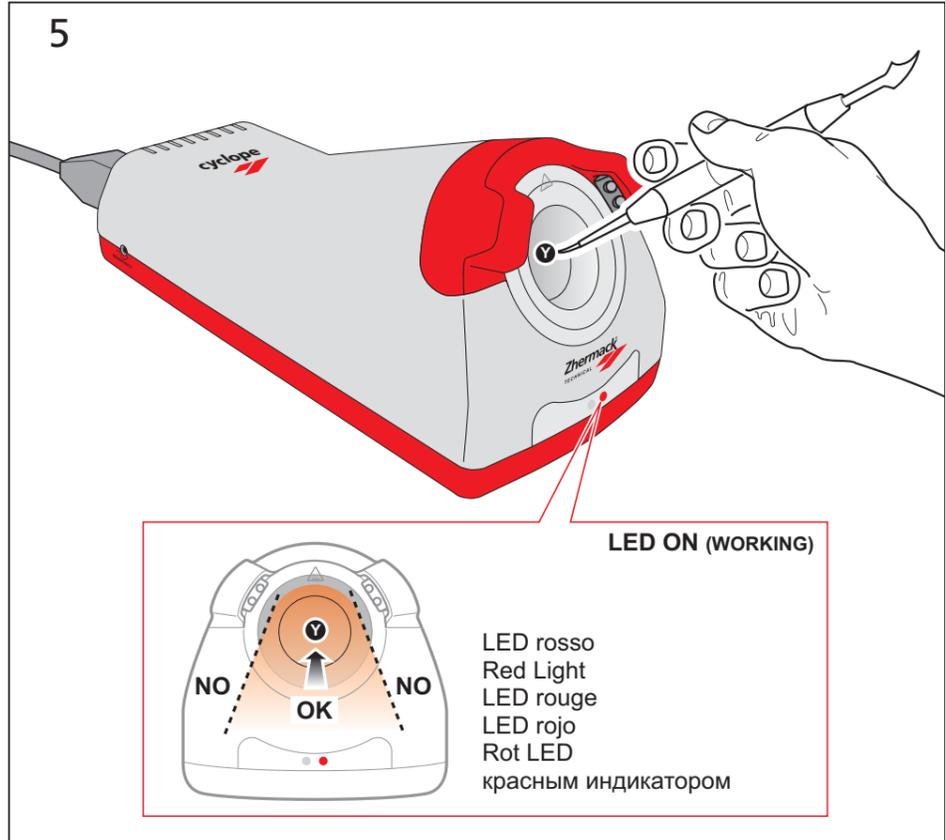
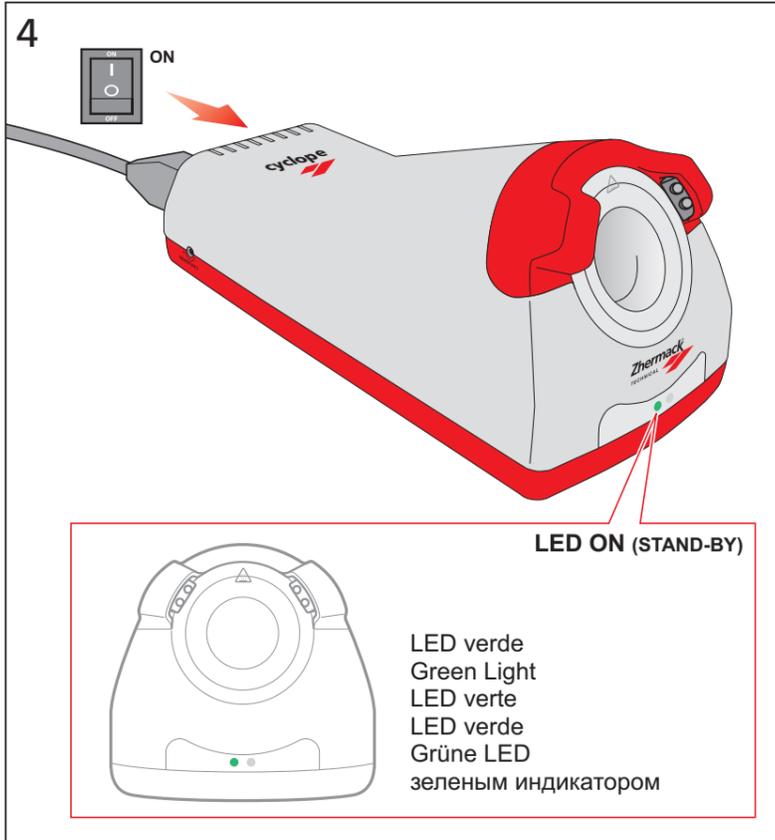


User manual

Induction tool heater

- IT
- EN
- FR
- ES
- DE
- RU





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The data given in this Manual can undergo variations without forewarning.

CHAPTER 1: INTRODUCTION

1.1 HOW TO READ AND USE THE USE AND MAINTENANCE MANUAL

This use and maintenance manual provides information on the installation, use and maintenance of the **cyclope** device, designed and made by Zhermack S.p.A. to heat metal spatulas and similar instruments used to model dental wax.

- The equipment must be used in compliance with that specified in this Manual: it is therefore recommended that the manual is read carefully prior to installation and start-up. Make sure that you read the entire manual and pay particular attention to messages written in bold type or items highlighted by boxes and/or symbols, which highlight dangerous situations or requiring caution (see paragraph 1.2).
- The respect of standards and recommendations shown in this Manual will ensure safe use of the equipment and appropriate interventions on the same.
- The "Use and Maintenance Manual" is an integral part of the equipment: it should therefore be kept together with the equipment so that it can be consulted as and when necessary (in a secure dry place away from sunlight, atmospheric agents, etc.) throughout the working life of the equipment, even when the equipment is sold or finally dismantled.
- It is advised to keep the Manual constantly updated, integrating any amendments, additions or modifications made by the Manufacturer. Any notes or comments should be made on the blank pages at the rear of the Manual (see Attachments: Notes).
- Use the Manual in a way that its content is not damaged.
- Do not remove, tear or write on the Manual for any reason.
- If the Manual is lost or damaged and therefore becomes illegible, request a new Manual from the Manufacturer.

This "Use and Maintenance Manual" is aimed at operators in order to allow correct use of the product. The Manual contains all useful information for declared use of the equipment; in particular the operator will find instructions and indications regarding:

- correct installation of the equipment;
- a functional description of the equipment and all parts;
- commissioning;
- correct programmed maintenance;
- attention to the most elementary safety and accident-prevention regulations.

This Manual is divided into 9 chapters, each referring to a specific subject inherent to the entire equipment.

The attachments are found at the rear of the manual. They complete the documentation.

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1.2 TERMS AND SYMBOLS USED

It is fundamental that maximum attention is paid to the following symbols and their meaning because they highlight important information such as, critical situations, practical advice or straightforward information.

Consult this page if in doubt regarding the meaning of the symbol when reading the Manual.

- Any operations carried out without compliance to instructions or tampering with equipment parts, which can cause serious injury to persons, will be highlighted with:



DANGER!

This symbol refers to Safety Standards that **MUST** be followed in order to guarantee your safety and that of others and to prevent damage to the equipment.

- Critical situations concerning dangerous areas, situations or operations in which failure to comply with the instructions may render the warranty null and void, cause damage to equipment, connected components or the surrounding area, are highlighted by the symbol:



ATTENTION!

This symbol refers to Safety Standards that must be followed carefully in order to guarantee your safety and that of others and to prevent damage to the equipment.

- Any operations carried out without compliance to instructions or tampering with equipment parts, which can cause damage to the equipment rendering the warranty null and void, will be highlighted with:



PROHIBITED!

This symbol calls attention to operations that are prohibited.

- Any general information and/or useful advice referring to any subject, will be highlighted with:



NOTE!

This symbol highlights information and/or useful advice.

CHAPTER 2: GENERAL INFORMATION

2.1 LIABILITY

Failure to comply with the instructions contained in this Use and maintenance manual relieves the Manufacturer from any liability.

For any information not included or that cannot be deduced from the Manual, consult the Manufacturer directly.

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e-mail: info@zhermack.com

In particular, if equipment maintenance is carried out in a way that is not in compliance with the instructions supplied, or in a way to jeopardise integrity or modify features, Zhermack S.p.A. is relieved from any liability inherent to safety of persons and faulty operation of the equipments.

2.2 WARRANTY: GENERAL STANDARDS

Find the Warranty Certificate and the Identification Form attached to this Use and Maintenance Manual, which must be filled in completely.

Generally the warranty is rendered null and void by the following:

- improper use of the equipment;
- incorrect installation;
- negligence of envisioned maintenance;
- modifications or interventions not authorised by the Manufacturer (especially on safety devices);
- use of non-original spare parts.



As of this moment Zhermack S.p.A. is relieved from all liability if any type of modification or tampering is made on the equipment without previous written authorisation from the Manufacturer. Consequently, any repairs made by unauthorised staff, use of non-original spare parts or failure to comply with the installation standards specified in this manual shall immediately render the warranty null or void.

2.3 AUTHORISED STAFF

The staff in charge of the equipment is divided into the following categories:

Operator - user

Person trained to use the equipment. Person trained in use of the equipment. Performs all tasks involved in operation of the **cyclope** device, such as: use, cleaning, inspection and simple interventions linked to normal equipment use.

The operator-user must operate with the equipment mounted according to that stated in this manual.



Before using the equipment or carrying out any intervention on it, the operator must read the entire manual carefully. This manual has been drawn up to provide the user with essential information on rational, safe use of the equipment. The user must comply with the information given at all times. The user must also use the worksheets, attached to this manual, to keep a record of maintenance interventions, component replacement as well as make notes regarding anomalous functioning.

Maintenance technician authorised by Zhermack S.p.A.

Person who operates in all operating conditions and at all safety levels to perform repairs/ mechanical and electric adjustments, periodic preventive maintenance and replacement of any components.

2.4 GENERAL SAFETY PROVISIONS

The operator must comply with the advice and warnings given below in order to ensure safe, long-lasting equipment performance:

- do not allow untrained staff to use the equipment;
- prepare an optimal worktop, making sure that the operational space is free from obstacles, clean and has suitable lighting;
- avoid distractions when using the equipment;
- it is prohibited to work objects with features different from those for which the equipment has been designed;
- in the event of a malfunction follow the advice given in this manual; if in doubt, stop the equipment and contact your Authorised After-Sales Centre immediately;
- do not open equipment compartments containing electric parts;
- before carrying out any cleaning, routine and/or extraordinary maintenance, make sure that the equipment has been unplugged from the mains power supply;
- do not replace the power supply cable or tamper with the supplied plug; to replace the same due to damage or wear, only contact the Authorised After-Sales Centre;
- always make sure that there are no foreign bodies inside the work area. These could prevent damage to the equipment and/or injury to the staff;
- do not use petrol or flammable solvents as detergents; use only non-flammable, non-corrosive and non-toxic substances. (see par. 8.1).



- Zhermack S.p.A. cannot be held responsible for any damage to the equipment owing to incorrect maintenance performed by unskilled staff or maintenance that does not comply with that stated in this manual.
- As of this moment Zhermack S.p.A. is relieved from any injury/damage to persons/objects that should occur following any different use and use not declared in this manual.



In the event of a fire - no matter how small - inside the equipment or nearby, only use powder extinguishers. Do not use water.

CHAPTER 3: DESCRIPTION OF THE EQUIPMENT

3.1 GENERAL DESCRIPTION OF THE EQUIPMENT

This manual describes the *cyclope* appliance designed to heat metal spatulas and similar instruments used to model objects made from dental wax.

3.2 DESCRIPTION OF THE COMPONENTS - FIG. A

1. Induction chamber
2. Status lights
3. ON/OFF switch
4. Power cable
5. Cooling fan
6. Sensor adjustment screw

3.3 IDENTIFICATION DATA

Fig. B: the equipment described in this manual has a plate giving identification data of the same and the Manufacturer:

- A Name and address of the Manufacturer
- B Equipment code and model
- C Serial number
- D Power supply information

The equipment has been built in compliance with the EEC Directives stated in the attached "CE Declaration of Conformity. Use the identification data to request spare parts, information and After-Sales Assistance from authorised centres. If the plate should deteriorate with use and become illegible, even partially, request a replacement from the Manufacturer stating all data.



Do not remove and/or ruin the plate so that the equipment identification data can be recognised at all times.

CHAPTER 4: TECHNICAL FEATURES

4.1 TECHNICAL FEATURES AND FUNCTIONING PRINCIPLE

Zhermack S.p.A. creates qualitatively and technologically advanced work instruments, in away that the user feels that they are made-to-measure his everyday working requirements.

Zhermack S.p.A. uses state-of-the-art instruments in the design field when making these products, thus ensuring maximum equipment functionality. The use of top quality materials and performance of all inspections necessary for operator safety guarantee Zhermack S.p.A products, making them competitive at a worldwide level.

Operation of the *cyclope* is based on the physical phenomenon of electromagnetic induction.

The *cyclope* allows the majority of dental modelling to be done without using an open flame Bunsen burner.

This avoids problems associated with gas cylinders and open flames (smoke, fire risk) and ensures respect of the following safety regulations.

The *cyclope* offers the following advantages:

- better air quality in the dental laboratory, no oxygen is removed by combustion;
- safety and ease of use, the instrument is ready to use in a few seconds. The tool heater does not require a gas installation and can be located in the most convenient position for the operator;
- greater energy efficiency thanks to the presence of sensors which activate heating only, when the spatula is inside the chamber;
- higher quality objects as the induction technique prevents soot particles from being deposited on the instrument during heating, leading to contamination of the modelling wax.

4.2 TECHNICAL DATA

Power voltage	230 V ~ ± 10% 50/60 Hz
Total absorbed power	100 W
Protection rating IP	IPX0
Noise level	<70 dB
Overvoltage category	II
Applicable pollution degree	2

4.2.1 STANDARD SUPPLIES

Components	Q.ty	Code*
7. Protective silicone cap	1	XR0100000

(* Order Code to be used when ordering spare parts.

4.2.2 WEIGHT AND OVERALL CLEARANCE

Size without packaging	
Height (mm)	89
Width (mm)	91
Depth (mm)	209
Empty weight (g)	500

CHAPTER 5: TRANSPORT AND HANDLING

5.1 GENERAL WARNINGS



In order to prevent injury/damage to persons/objects, pay great care when handling the equipment, scrupulously complying with all precautions and instructions contained in the following paragraphs.

5.2 PACKAGING AND UNPACKING

Fig. C: All material is carefully controlled by the Manufacturer before delivery. On receiving the equipment, make sure that it has not been damaged during transport and that the packaging has not been tampered with, resulting in missing parts.

Should any damage or missing parts be noted, inform the Dealer and the Carrier immediately by forwarding photographic evidence. The packaging,

made up of a cardboard box with expanded plastic internal protections, contains:

- the **cyclope** equipment;
- the material supplied (see par. 4.2.1);
- the Use and Maintenance Manual.

 It is recommended that you keep the original packaging so that - if necessary - it can be re-used for transport and handling the equipment, thus preventing accidental damage due to the use of unsuitable packaging (see paragraph 5.3).

5.3 TRANSPORT AND HANDLING

If the equipment must be moved:

- disconnect the equipment from the electric point;
- hold the equipment, always keeping it in a vertical position. Regarding this, pay attention to the weight and clearance of the equipment (see par. 4.2.2), in order to prevent any type of damage occurring due to the failure of considering these values;
- pack the equipment in the original packaging. If this is not possible, take all necessary precautions to protect the equipment from knocks and drops, as the goods are transported at the owner's risk.

 Failure to comply with the rules stated above relieve the Manufacturer from any liability regarding equipment malfunctioning and consequently makes the warranty null and void.

When shipping and/or delivering the equipment to an Authorised After-Sales Centre always enclose a copy of the purchase document and a copy of the properly filled-in identification form. If the equipment is transported by carrier, the Postal Service or rail, it is recommended to insure the shipment.

 Before transporting the device, make sure the safety knobs are in place and tightly fixed. Use the original packaging. Failure to respect these precautions could result in damage to the device.

5.4 DISPOSAL / DISMANTLING

When disposing of the packaging material the user must follow the regulations in force in the country of use relative to the following materials:

- wood/paper: non-polluting materials, but must be re-cycled correctly;
- polystyrene/plastic: pollutant material, do not burn (toxic fumes) or dispose of in the environment. Dispose of these materials in compliance with the regulations in force in the country of use.

If the equipment is to be dismantled, the operator must be in charge of dismantling, elimination and re-cycling of the following materials in compliance with the EEC Directives and the laws in force in the

country of use:

- plastic parts; steel parts; glass parts; insulated electric cables; rubber parts.
- there are no toxic or corrosive substances.



The device must not be disposed of as urban waste. At the end of its working life, it must be taken to a waste separation and recycling centre in compliance with European Directive no. 2002/96/EC or in accordance with the legislation in force in the country of sale.

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CHAPTER 6: INSTALLATION AND COMMISSIONING

6.1 WARNINGS AND PRECAUTIONS

Before carrying out installation, make sure that all safety conditions exist and follow the indications given below carefully.

6.2 ACCEPTED ENVIRONMENTAL CONDITIONS

Unless stated otherwise, at the time of ordering, it is intended that the equipment must be envisioned to function regularly in the following environmental conditions:

Place of Use Indoors
 Altitude Up to 2000 m
 Working temperature From 10°C to 35°C
 Humidity Max 80%

Conditions different to those prescribed can cause anomalies or sudden breakdown.

Lighting in the installation area of the equipment must be sufficient to guarantee good visibility in all points of the equipment.

Luminosity not less than 200 lux must be guaranteed. The lighting must be uniform without reflections, which could dazzle the operator.



The equipment itself cannot cause explosions or fire: the equipment is not prepared and/or designed to operate in environments with explosive atmosphere or with the risk of fire.

 The working area lighting plant is an important factor for the safety of persons and the quality of work. In Italy this subject is governed by a Ministerial Decree that clearly determines the average level of prescribed lighting. In other countries the regulations in force are valid regarding accident-prevention and hygiene in the workplace.

6.3 SPACE NECESSARY FOR USE

The choice of the place and space required for installation is an important factor for the quality of work and safety and for correct maintenance activities. This area must not only be spacious

enough to allow for optimum equipment operation - also during cleaning and maintenance phases - but must also be well lit, aired, not dusty and not exposed to direct sunlight.

6.3.1 WORKTOP

Fig. D: cyclope has been designed to work on a rigid worktop and parallel to the ground. Suitable worktops include service furniture (operator is standing) or modelling tables (operator is sitting). All worktops must be checked for stability. Note also that the unit must be positioned so the connection plug can be handled/manipulated with ease.

6.4 CONNECTION TO ENERGY SOURCES

The connection is made using the power supply cable. Check:

- that mains power supply voltage and frequency correspond to those indicated on the identification plate (an incorrect power supply voltage may damage the equipment);
- that the power supply mains has a suitable earth connection.



Do not tamper with the power supply cable and relative plug. For replacement of the same due to damage and/or wear, only contact Authorised After-Sales Centres.



An earth connection is mandatory. If an extension must be used temporarily, it must be in compliance with the standards in force in the country of use.

6.5 INITIAL START UP

Fig. 1: Rest the appliance on a level work surface with the induction chamber facing the operator.

Fig. 2: Insert the main power socket into the appropriate outlet at the rear of the device and subsequently connect the plug to the mains. Follow the instructions given in paragraph 6.4. meticulously.

Fig. 3: Before starting work, place the protective cap (x) in the induction chamber. This collects drops of wax and keeps the appliance clean.

Fig. 4: Turn the appliance on by pressing the ON/OFF switch (fig. A, 3). The appliance is now in stand-by. This is indicated by the green light on the front panel.



Failure to comply with any of the above-stated equipment installation regulations can lead to equipment malfunctioning and render the warranty null and void.

6.6 DECLARED USE

The **cyclope** is designed to heat metal spatulas and similar instrument used to model objects made from dental wax.

6.7 NON-DECLARED/PROHIBITED USE



Using the equipment for any purpose not considered in paragraph regarding "Declared use" shall be considered improper and thus forbidden.

The improper use of the equipment renders the warranty null and void and Zhermack Spa declines all liability for any damage to objects and injury to operators or third parties.

The main reasons for which the warranty is rendered null and void are given in paragraph 2.2 and in the "Warranty Certificate" attached to this Manual.

CHAPTER 7: USING THE EQUIPMENT

7.1 GENERAL WARNINGS



The tool heater must not be used near pacemaker wearers.



For total certainty of safe operation, scrupulously follow the work phases given below.



- Do not place fingers with metal rings in the induction chamber; risk of burns.
- Do not leave metal objects in the induction chamber for too long or they may become incandescent.
- To avoid the occurrence of any risks, pay attention to avoid pouring water during the preparation on the electrical voltage parts.
- To avoid damage to the appliance:
 - Do not place metal objects near the coil, this could jeopardise correct operation of the tool heater.
 - Heating occurs only when metal objects are placed in the chamber. Do not insert other materials.
 - Keep the outside frame of the appliance free from molten wax.

7.2 USING THE TOOL HEATER

Once it has been correctly installed and put into service, proceed as follows:

Fig. 5: Heat the spatula (y) by placing it at the centre of the induction chamber, making sure it does not touch the inside wall.

Induction is activated by the position sensors which detect the presence of the instrument. The green control light becomes red.



To prevent overheating of the coil, the appliance has a fan which is activated automatically when the temperature inside the appliance starts to rise.

Fig. 6: The heating process stops automatically when the instrument is removed from the chamber

(the red light becomes green). At the end of the working session, turn the appliance off using the ON/OFF switch.

Cyclope has a safety system which interrupts induction if the presence of an instrument in the chamber for an excessively long period is detected. When this occurs, the green and red lights flash rapidly. To stop the flashing, just remove the instrument from the induction chamber. If the flashing continues, turn the tool heater off then on again. If the anomaly occurs again, you must calibrate the sensitivity of the position sensors as this is greatly influenced by numerous external factors such as temperature, humidity, light, etc.

7.3 CALIBRATING THE POSITION SENSORS

The sensitivity of the sensors is set to detect the majority of wax modelling instruments. However, the sensors can be adjusted individually according to the instruments used.

The sensors must also be adjusted if they fail to detect the instrument (e.g. very large or very thin instruments) and/or if the error warning continues (red and green lights flashing intermittently even after the tool heater has been turned off and on again).

Fig. 7: Turn the appliance on by pressing the ON/OFF switch (fig. A, 3). The appliance is now in stand-by. The green light on the front panel comes on.

Fig. 8: To regulate, adjust the trimmer (fig. A, 6) using a crosshead screwdriver.

To increase the sensitivity of the sensors, turn the trimmer screw clockwise. The direction is indicated by the arrow near the + sign.

To reduce the sensitivity of the sensors, turn the trimmer screw anticlockwise. The direction is indicated by the arrow near the – sign.

7.4 RESIDUAL RISKS

Residual risks are:

- a danger that cannot be totally eliminated through design and the application of safety devices;
- a potential danger that cannot be highlighted.



In order to prevent accidents, always operate with respect to that described in this Manual. If in doubt, always contact the Manufacturer or Authorised After-Sales Centre.

CHAPTER 8: MAINTENANCE

8.1 CLEANING THE EQUIPMENT

Use a dry cloth to clean the equipment exterior. If necessary, dampen the cloth with a small amount of water or a non-degreasing detergent (see paragraph 2.4).

The operator must ensure that the equipment is kept clean and free from any foreign bodies such as debris, water, non-conducting liquids etc. For this purpose cleaning must be performed at the end of

every shift, with the equipment in stable conditions.



Before cleaning the outside of the equipment, always make sure that the master switch is off. It is prohibited to clean the equipment when it is connected to the electric power supply mains.



Do not use inflammable, corrosive, alkaline or toxic liquids to clean the equipment.

CLEANING THE INDUCTION CHAMBER:

You should always keep the induction chamber clean. Make sure there are NEVER any metal parts in the chamber and remember to replace the protective cap.

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8.2 ROUTINE MAINTENANCE

Once the equipment has been cleaned (see paragraph 8.1), the operator must check for worn, damaged or loose parts. If any such situations are detected, contact the Authorised After-Sales Centre.



If any of the previously-described situations should occur, it is prohibited to re-start the equipment before the problems have been solved.

In particular, before moving away from the equipment, the operator detecting problems of any nature must place a sign on the it indicating that equipment maintenance is in progress and that use is prohibited (EC-compliant signs can be purchased from the relevant suppliers). Routine maintenance, cleaning and correct equipment use are essential factors in guaranteeing long-lasting equipment performance and safety.

8.3 EXTRAORDINARY MAINTENANCE

Extraordinary maintenance includes the repair of any accidental breakage and the replacement of worn or malfunctioning parts.



All electrical and mechanical interventions must only be performed by a Zhermack S.p.A.-authorised maintenance technician.



Any modification that alters equipment features from a safety and risk-prevention point of view can only be carried out by the Manufacturer who will then certify conformity of the equipment with safety standards. Therefore any modification or maintenance intervention not considered in this manual is to be considered prohibited. Any modification, tampering or repair performed by unauthorised staff along with the use of non-original spare parts relieve the Manufacturer from any liability. If the necessary maintenance interventions are not considered in this Use and Maintenance Manual, contact the Authorised After-Sales Centre.

8.4 RE-START AFTER LONG PERIOD OF INACTIVITY

If the equipment is re-started after a particularly long period of inactivity, operate as indicated in Chapter 6 regarding commissioning. If the equipment functions anomalously, act as described in Chapter 9 regarding "Diagnostics". If the problem should persist or is not considered, contact the Authorised After-Sales Centre immediately.

8.5 HOW TO REQUEST AFTER-SALES ASSISTANCE

EN Choose one of the following options to request after-sales assistance:

1. contact the Authorised After-Sales Centre;
2. telephone the Zhermack S.p.A. After-Sales Service at +39 0425 597611 and proceed as follows: give personal data (e.g. address and telephone number); state the information given on the equipment identification plate (see paragraph 3.3); explain the problem with the equipment clearly;
3. fax all of the information stated in the previous point and the correctly filled-in identification form (see Attachment 10.2) to the following n° +39 0425 53596.

CHAPTER 9: DIAGNOSTICS

9.1 GENERAL WARNINGS



If any of the anomalies described below should occur, solve the problem, where allowed, with respect to all instructions contained in this manual. If the problem persists, contact the Authorised After-Sales Centre.

9.2 TROUBLESHOOTING

MALFUNCTION The instrument placed in the induction chamber does not heat up.

- | | |
|---------------|--|
| CAUSE | <ol style="list-style-type: none"> 1. The instrument is made from a material which does not conduct heat. 2. The instrument is tarnished (the sensors detect light colours more easily). 3. The sensors do not "detect" the presence of the spatula. 4. The power cable is not connected. 5. There is no current to the socket. 6. The appliance is off. 7. Electrical fault. |
| REMEDY | <ol style="list-style-type: none"> 1. Replace the instrument used. 2. Clean or replace the instrument used. 3. Adjust the sensitivity of the sensors. 4. Connect the power cable. 5. Check the socket/electrical panel in the building. 6. Turn the appliance on by pressing the ON/OFF button. 7. Contact an authorised service centre. |

MALFUNCTION The red and green lights flash alternately.

- | | |
|---------------|--|
| CAUSE | <ol style="list-style-type: none"> 1. An object has been left for too long in the induction chamber. 2. The sensor is disorientated. 3. Electrical fault. |
| REMEDY | <ol style="list-style-type: none"> 1. Remove the object from the induction chamber. 2. Turn the tool heater off, then on again. If the problem continues, adjust the sensitivity of the sensors. 3. Contact an authorised service centre. |

MALFUNCTION The cooling fan makes a different noise from usual.

- | | |
|---------------|--|
| CAUSE | <ol style="list-style-type: none"> 1. Appliance overheated. 2. Faulty fan. |
| REMEDY | <ol style="list-style-type: none"> 1. Turn the appliance off and allow it to cool down. 2. Contact an authorised service centre. |

CHAPTER 10: ATTACHMENTS

10.1 EC DECLARATION OF CONFORMITY

The Manufacturer:

Zhermack S.p.A.
Via Bovazecchino, 100
45021 Badia Polesine • RO • Italy
Tel. +39 0425 597611 • Fax +39 0425 53596

Declares that the equipment described below:

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Conforms to the legislative dispositions established in the following laws:

EC Directive 2004/108 EC (EMC Directive) and subsequent amendments.

EC Directive 2006/95 (Low Voltage Directive) and subsequent amendments.

It is highlighted that Manufacturer's liability for damage caused by faulty products expires after 10 years from the date in which the Manufacturer put the products on the market as envisioned by the 85/374/EEC Directive and Presidential Decree 224/1988.

Badia Polesine, 30/09/2012

Paolo Ambrosini
General Manager

10.2 WARRANTY CERTIFICATE AND IDENTIFICATION FORM

1. With this document the Manufacturer certifies that the product has been built correctly, top quality materials have been used and all inspections necessary for compliance with European Community Directives have been performed. The product is covered by a warranty period of 18 months from the date of delivery to the user. Proof of this date is provided from the purchase document and the copy of the identification form. These documents must be shipped to the After-Sales Centre with the equipment. Persons wishing to make use of the warranty must inform of the fault within 8 days of its discovery for the effects and purpose of art. 1495 of the Civil Code. The warranty is limited to replacement or repair of individual components or pieces with manufacturing defects and does not cover costs related to transfer of technical staff, transport, packaging etc. Breakdowns, faults or damage deriving from poor maintenance, incorrect power supply, negligence, inexperience and other causes not imputable to the Manufacturer and parts subject to normal wear are not covered by the warranty. The warranty does not cover breakdowns caused by failure to carry out routine maintenance due to customer negligence. This warranty does not provide for any reimbursement for direct or indirect damages of any kind caused to persons or objects due to equipment inefficiency.

2. The warranty is automatically rendered null and void whenever the equipment is repaired, modified or tampered with by the purchaser or unauthorised third parties. The liability for damage caused by faulty products expires after 10 years from the date in which the Manufacturer put the products on the market, after this time it becomes the user's responsibility, as envisioned by the 85/374/EEC Directive.

3. To have work carried out under warranty the purchaser must only contact the dealer, Manufacturer-authorized after-sales centres or the Manufacturer itself. The warranty gives the right for free replacement of faulty parts. It does not, however, give the right for replacement of the entire equipment.

4. In the case of disputes regarding application of the warranty, quality or conditions of the equipment delivered, the purchaser cannot suspend or delay total payment or payment of the instalments.

5. No reimbursement can be requested by the purchaser for loss of production.

6. The warranty is rendered null and void if:

- a. The equipment is damaged by a fall, exposure to fire, spilt liquids, lightning, natural disasters or, however, causes not imputable to manufacturing defects.
- b. Incorrect installation.
- c. Incorrect mains connection (incorrect power supply nominal voltage) or suitable protection devices have not been installed.
- d. The serial number has been removed, cancelled or altered.

7. The components to be replaced under warranty, must be returned to Zhermack S.p.A. which will then send the appropriate spare parts. Any changed parts that are not returned will be charged.

8. The Manufacturer and the Dental Deposit do not have to supply replacement equipments during the repair period.

9. For tax purposes spare parts will only be provided under warranty where the relevant limitations set out in the terms and conditions of the warranty are respected.

10. For any other eventuality not provided for by this Warranty Certificate and the regulations, consult the Italian Civil Code.

11. Invoices for labour, travel and call-out must be paid on their receipt.

12. The manufacturer and the dealer will comply with all data processing laws in force, including those relative to safety measures and in compliance with the specifications given in the data processing information sheet.

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IDENTIFICATION FORM

Equipment Model:

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Equipment Serial Number:

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Purchaser:

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Address:

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Town/Post Code:

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Tel:

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Tax Code/VAT Number:

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Dealer:

.....

Purchaser's Signature:

.....



Zhermack S.p.A. - Via Bovazecchino, 100
45021 Badia Polesine (Rovigo) Italy
Tel. +39 0425 597 611 - www.zhermack.com



JPAL Accreditation
Certificate of
foreign medical
device manufacturer

