



# RUCK Podiatry Drill PODOLOG NOVA 3s

Instructions for Use



EN

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## RUCK Podiatry Drill PODOLOG NOVA 3s

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## Dear Customer,

With the PODOLOG NOVA 3s, you have acquired a Footcare System that sets completely new standards in terms of functionality and performance. It has been developed throughout "based on best practice for use in the best practices". You will clearly feel the many details that are taken into consideration in this new development, details that reflect over 90 years of experience and expertise.

The "internal qualities" of the device will impress you including the patented and extremely effective extraction, the maintenance-free micromotors with a high speed range, the freedom from vibration and a long service life. It is the quietest device on the market, which is very important for facilitating communication between patient and practitioner. Weight is a significant factor when it comes to mobile deployment. This has been further reduced and is now about 1 kg less than comparable devices. The innovative ergonomics result from an optimised handpiece, which is light and has a sophisticated design that moulds to the shape of your hand. The capacitive glass operating panel offers simple and intuitive handling. The magnetic speed controller can be removed making the front panel very easy to disinfect. The clear display not only provides information about the current device status. It also gives the option of having illustrated, step-by-step instructions for the cleaning procedure for the clamping unit in the handpiece. Professionally made and thought through to the last detail. That is the essence of the PODOLOG NOVA 3s.

Backed by our name and our two-year guarantee, you can be assured of many years of enjoyable and problem-free operation.

Please take some time to read through these instructions carefully before setting up the system. This constitutes part of the guarantee agreement, helps you avoid possible operational errors and should be kept in the proximity of the device.

We wish you much success and enjoyment in the very responsible and challenging work that you undertake.

Kind Regards HELLMUT RUCK GmbH



Medical device  
class 2a

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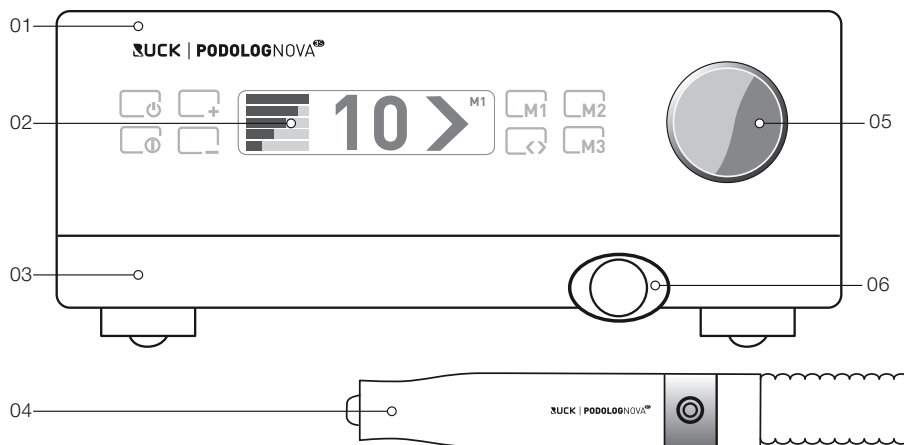
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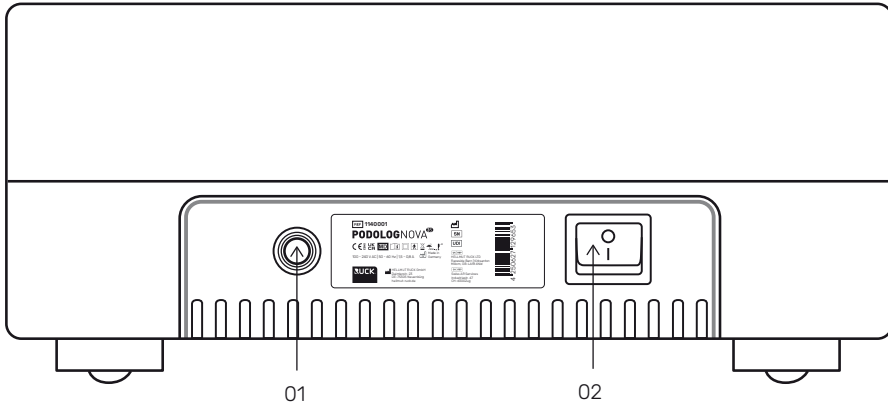
## 1 Device description



### 1.1 Front view



- 01 Controller
- 02 Display
- 03 Dust filter bag drawer
- 04 Handpiece
- 05 Magnetic speed control knob
- 06 Hose connection

### 1.2 Back view



- 01                      Power cable  
 02                      Power switch (On/Off)
-         =        OFF (power switch off)  
        =        ON (power switch on)



If the power cable is damaged, the device must be disconnected from the mains and may not be used any more.




A damaged power cable may only be replaced by an authorised specialist.




### 1.3 Explanation of the characters and icons used


#### 1.3.1 On the device and transport packaging

 Device with protection class II (double insulated)

 Application part, Type BF

 Refer to the Instructions for Use

First digit	Protection against contact	Protection against foreign bodies	Second digit	Protection against water
0	No special protection		0	No special protection
1	Against large areas of the body	Large foreign bodies with a diameter of more than 50 mm	1	Against dripping water striking vertically
2	Against fingers or objects of a similar size	Medium-sized foreign bodies with a diameter of more than 12 mm	2	Against dripping water striking at an angle (up to 15° from the vertical)

 Protect against wet and damp

### 1.3.2 In the instructions for use



Warning! This icon identifies a potential point of danger for people or for the device itself. It must be taken note of.



This symbol identifies useful advice that offers you additional information related to the operation of your PODOLOG NOVA 3s.

## 1.4 Declaration relating to these instructions for use

Hellmut Ruck GmbH reserves all rights to modify and supplement these instructions for use. Hellmut Ruck GmbH has taken great care to keep these instructions free of inaccuracies and omissions. Please contact us if you find mistakes or inaccuracies. However, Hellmut Ruck GmbH assumes no liability for mistakes in these instructions for use or consequential damage resulting from the provision of these instructions for use or their application when using the product. These instructions for use must not be disseminated or supplemented without the express approval of Hellmut Ruck GmbH.

## 1.5 Scope of delivery

Please take some time to read through these instructions for use carefully before setting up the PODOLOG NOVA 3s. This constitutes part of the medical product and should be kept in close proximity to the device itself. Please check that the delivery is complete.

The following items make up the scope of the delivery:

- 1 PODOLOG NOVA 3s controller
- 1 Handpiece with hose and drawer
- 1 Dust filter bag
- 1 Set of instructions for use
- 1 Device logbook
- 1 Interchangeable chuck for PODOLOG NOVA 3s (Item no. 1106701)
- 1 Instruction manual for changing the interchangeable chuck

### 1.6 Packaging

The packaging has been designed to protect the device while in transit. The packaging materials used have been selected with due regard for environmental issues and can be recycled.

Please keep the packaging (box, plastic bag, PU foam parts) to use for returning the device in case of any maintenance work.

### 1.7 Recycling

Old equipment must be disposed of as electronic waste and should not be treated as domestic waste. Full dust bags can be disposed of with general rubbish. Please make sure you follow any local guidelines in this respect.



Special country-specific requirements should also be taken into account.

## 2 Intended usage

The podiatry drill is designed to set rotating instruments (not included in the scope of delivery) in motion in order to superficially remove skin and nails on the feet. The abrasive dust is sucked in by means of a suction turbine operated by an EC motor.

The device is intended for use in the following fields of activity:

- › Treatment of pathologically changed skin and nails
- › Corn removal
- › Nail grinding
- › Grinding of mycotic and thickened nails
- › Defuse cutting edges
- › Skin grinding

The podiatry drill is intended for use by the following trained/trained users who are familiar with the method of operation:

- › Doctors
- › Podiatrists
- › Chiropodists

The devices are not intended for use by non-professionals.

Users/patients with a pacemaker should consult their attending physician before use/treatment.

The device is intended for use in the following environments:

- › Hospitals
- › Clinics
- › Podiatry practices
- › Medical chiropody facilities
- › Domestic environments

Any other use/application is not as intended.



No changes or modifications may be made to the device or its accessories. Should a repair be required, the necessary safety checks must be repeated.



Rotating tools without a CE label must not be used for podiatry/medical purposes in combination with this device.

### 3 Staff and patient safety

The likelihood of any person-related risk can be restricted to a very few points by the proper usage of the PODOLOG NOVA 3s.

#### 3.1 Operator requirements

We must draw your attention to the fact that all serious incidents/ occurrences in relation to this product must be reported to us or to the competent authority.

#### 3.2 Staff and patient safety

To protect users, patients and third parties, the following must be observed:

- › Only high-quality rotary tools in accordance with DIN EN ISO 1797-1, which have a standardised shaft diameter of 2.35 mm, cylindrical, Type 2, may be used. For the rotary tools, the manufacturer's instructions relating to maximum speed and preparation (cleaning, disinfection and sterilisation) must be followed. You will find additional information in the current catalogue from HELLMUT RUCK GMBH, in the section "Rotary instruments".
- › Operating staff must wear protective goggles and mouth and nose protection while using the equipment. Long hair must be tied back or protected by a hairnet.
- › During the treatment, ensure that no objects that could become caught in the rotating parts can enter the treatment area.

### 3.3 Possible patient risks

The extraction of potentially pathogenic dust significantly reduces the risks caused by transferable germs (micro-organisms). Regular and careful anamnesis can help to identify potential risks of infection.

The risk to patients through inhalation is reduced to a minimum and the treatment of patients with low levels of immunity can be responsibly undertaken. Nevertheless, the practitioner should still always wear mouth and nose protectors as well as safety gloves while carrying out the treatment.



If any germ-intensive work has been carried out, disinfected and sterilised tools must be used during the next work process, to treat any unaffected areas of skin or nail.

#### 3.3.1 Hazards caused by removed material

The hazard level caused by removed particles (nail splinters or parts of the coarse surface) is low because there is a sufficient distance from the treatment area.

The efficient suction technology of the PODOLOG NOVA 3s minimises the risk of inhaling dust which may potentially contain pathogens. The risk of infection can be further reduced by practising thorough antiseptic skin hygiene prior to the treatment.

#### 3.3.2 Allergy risks

Since the patient does not generally come into contact with the surfaces of the PODOLOG NOVA 3s, the only potential cause of an allergic reaction is parts of the rotary tools. However, due to the very short contact times (less than 30 minutes), this risk is minimal.

#### 3.3.3 Hazards caused by moving parts

High speeds and pressure may cause an undesired level of heat to develop in the treatment area. In the worst case scenario, the affected tissue may be damaged by the heat produced. Sudden movements by the patient or a lack of attention on the part of the user may result in unintentional penetration of the skin. However, if the equipment is used properly and the process is constantly visually monitored, this risk is low.



Warning! Penetration of the skin must be avoided!

### **3.4 Potential risks for the user**

The extraction of potentially pathogenic dust significantly reduces the risks caused by transferable germs (micro-organisms).

Risks to the operator through inhalation are kept to a minimum.



For reasons of hygiene we recommend wearing face/mouth protection.

#### **3.4.1 Hazards caused by removed material**

Removed particles (nail splinters, parts of the treated surface) and dusts present a hazard due to their proximity to the treatment area.

To minimise the risk the user must wear goggles and mouth and nose protection during the treatment.

#### **3.4.2 Allergy risks**

It is possible, but extremely unlikely, that allergic reactions to the material of the handpiece may occur. For hygiene reasons we would also recommend that disposable gloves be worn.

#### **3.4.3 Hazards caused by moving parts**

Hair, jewellery and clothing may get caught in rotating parts. To avoid injury, long hair should be tied back or protected by a hairnet. In the interests of hygiene, jewellery should not be worn. The user should wear clothes that cannot get caught in the tool.

## **4 Set-up**

### **4.1 Technical safety**

- › Before using the device for the first time, you should ensure that mains power characteristics match the values quoted on the rating plate.
- › Make sure the controller is located on a flat, stable surface.
- › The ventilation slots in the device must be kept uncovered at all times.
- › Avoid damaging the mains cable through squashing, bending or rubbing against sharp edges.
- › Don't introduce any fluids into the unit.
- › Protect the device from all types of moisture that could find its way inside the housing. There is a danger of electrical shock if there is dampness in the device!
- › Switch the device off before maintenance and cleaning and unplug it from the mains power.
- › Never immerse the device in water or other fluids.
- › You must remove the plug from the mains immediately, if the device or hose is damaged or if it starts to function incorrectly.
- › Repairs shall only be carried out by qualified repair technicians.
- › If the device is opened, all rights under the terms of the guarantee are void!
- › See Chapter 7.1 for tools which may be used.
- › The PODOLOG NOVA 3s is a STAND-ALONE device. To avoid electro-magnetic interference, we do not envisage it being used in conjunction with other devices. Do not position the device directly next to or with other devices. Should this be necessary, please make sure that all intended functions of the device work properly in this position.



The use of accessories or spare parts other than that prescribed may result in increased emissions or reduced immunity to interference.



Because of EN 60601-1-2 relating to the electromagnetic compatibility of electrical medical devices, we must draw your attention to the following:

- › Medical electrical devices are subject to special measures in terms of electromagnetic compatibility and must be operated in accordance with the requirements laid out in these instructions for use.
- › Portable and mobile high-frequency communication devices (including accessories, such as antenna cable and external cables) can influence medical electrical equipment. Such equipment should be operated at a minimum distance of 30 cm from the PODOLOG NOVA 3s and its parts.

Otherwise the possibility of device performance impairments cannot be excluded. Please also refer to: 8.2 Specifications referring to electromagnetic compatibility in accordance with EN 60601-1-2



The compliance criteria relating to immunity to interference apply to all functional impairments.



Risk of strangulation from handpiece hose and power cable. Keep children away from the device.



Risk of swallowing in the case of required accessories (small parts), e.g. nail file drills. Keep children away from the device.



Use the supplied packaging to protect the device against mechanical damage and damp when transporting it between deployments.





Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.



When using the device in domestic premises, there can be a risk resulting from power cables that have been damaged by animals, for example.  
Please check the mains power connection regularly for signs of damage and if any are found, disconnect the device from the mains.



When using the device in domestic premises, there can be a risk that the device may be tampered with by children. Keep children away from the device.



Protect the device against pest infestation through regular checks and cleaning.

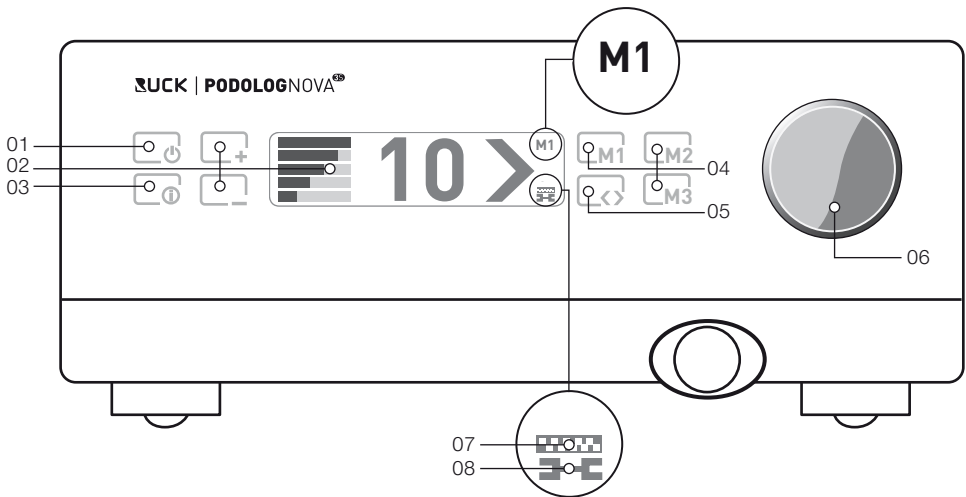


The instructions regarding operation and transport of the device must be adhered to.



Please ensure that you have easy access to the mains plug at all times so that the device can be unplugged from the mains without difficulty. The mains plug represents the separator to the mains power supply.

## 5 Operation



01	Standby button	Press this button to activate/deactivate the standby mode
02	Extraction power setting	Increase [+] to decrease [-] the extraction power. The power level is shown in the display.
03	Info menu	Through this menu, you can for example, activate the handpiece cleaning process or check when the next filter change or service is due. Press and hold the button for 5 seconds to change base settings, e.g. language.
04	Buttons for storing	Three different combinations of rotational speed, rotation direction and extraction power can be stored. The memory is shown in the display (04.1). [M1] [M2] are needed for the filter change.
05	Righthand / lefthand	Sets the rotational direction of the tool.
06	Magnetic speed controller	This is used to set the rotational speed in steps of 1000 rpm. The current speed is shown in the display (07.1). If the speed controller is removed, all buttons are blocked.
07	Filter bag change	The icon appears as a reminder that a filter bag change is due.
08	Service display	The icon appears as a reminder that a service is due.

## 5.1 Preparations for operation

- › Open the dust filter bag drawer by pulling on the hose connector.
- › Please check if the supplied filter bag has been inserted.  
If this is not the case, connect the filter bag to the sleeve. Please refer to page 33.
- › Close the drawer by sliding it in.
- › Switch to standby mode using the power switch located on the rear of the device.  
Wait around 3 seconds before pressing the standby button on the glass front panel.



= OFF (power switch off)



= ON (power switch on)



= Standby button on/off



Always work with a dust filter bag fitted.



The filter bag drawer must always be closed when the unit is in operation. The PODOLOG NOVA 3s switches off if the drawer is opened.

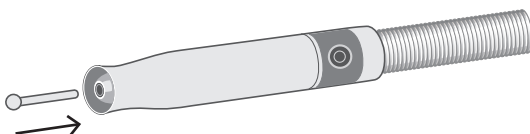


Working with a full dust bag is not permitted. Note the dust filter change symbol on the display (see 5.5.2).

### 5.1.1 Inserting a rotary tool

Insert the rotary tool (grinder/nail file drill) that you need for your work in the opening of the handpiece.

The tool only has to be inserted (quick-action chuck).



The tool shaft must be fully inserted.



The cutters used must not have any imbalance or other defects. Failure to observe this requirement may result in patient injury and damage to the handpiece bearing.

### 5.1.2 Switching on the PODOLOG NOVA 3s

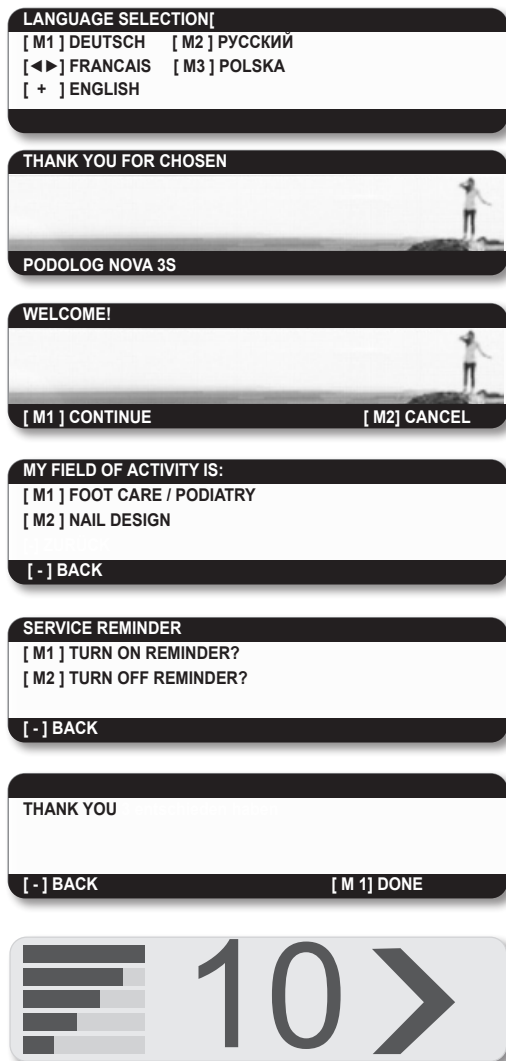
Press the standby button.



The PODOLOG NOVA 3s is now switched on and ready to use.

The first time it is switched on, you must set the PODOLOG NOVA 3s to your language and your area of activity. Additionally, you can activate the service reminder function so that you are reminded in time when the next service is due. Please refer to MAINTENANCE AND CLEANING. You are guided through the Start menu, step-by-step. At the end, you confirm your inputs with the [M1] button.

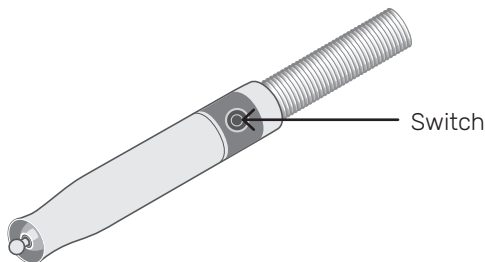
Menu display the first time the PODOLOG NOVA 3s is used:



If you want to modify any of the Start menu settings in the future, press and hold the [ i ] button for 5 seconds

### 5.1.3 Switching on the handpiece

Set the required rotational speed using the speed control knob. The displayed number x 1000 indicates the rpm value. Take the handpiece in your hand and press lightly on the switch at the back end.



The motor runs at the set speed and you can start your work.



The speed setting may not exceed the permitted maximum speed of your tool.

### 5.1.4 Switching off the handpiece

Press lightly on the switch at the back end while the motors are running. The motor switches off and you can pause work and place the handpiece in the bracket provided.



## 5.1.5 Switching off the PODOLOG NOVA 3s

Press the standby button. The PODOLOG NOVA 3s is now switched off and goes into stand-by mode.



To turn the unit off completely, set the power switch to.



Please ensure that you have easy access to the mains plug at all times so that the device can be unplugged from the mains without difficulty. The power plug represents the separator to the mains power supply.

If the PODOLOG NOVA 3s is not used for an hour, it automatically switches to ECO mode. It can be easily switched on again by pressing the standby button.

## 5.2 Settings

### 5.2.1 Handpiece motor speed

The rotational speed that corresponds to the tool being used is set using the rotational speed knob.

Clockwise rotation	Speed is increased	Max. speed: 40,000 rpm
Counter-clockwise rotation	Speed is decreased	Min. speed: 5,000 rpm



After switching on, the tool always starts up at the last speed setting.

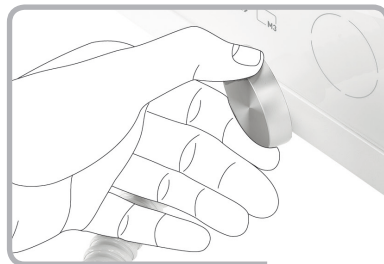
For large-surface cutters, the optimum rotation speed is in the range from 8,000 – 12,000 rpm.



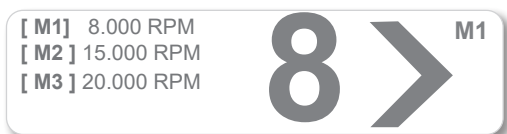
The speed setting may not exceed the permitted maximum speed of your tool.

## 5.2.2 Removing the magnetic speed control knob

The magnetic speed control knob can be removed to facilitate the cleaning of the front panel. The glass front panel's buttons are now disabled.



Press the [ i ] key and the [M3] key simultaneously for 5 seconds so that you can set the speed directly on the glass front panel even without a speed regulator. However, you must repeat this procedure after switching off the device.



You will find the maximum permitted rotational speeds for all nail file drills and grinders in the "Rotary Instruments" chapter of the HELLMUT RUCK GMBH Catalogue.

## 5.2.3 Right-hand / left-hand direction of rotation

You can set your tool to right-hand or left-hand rotation depending on which tool you are using and on whether you are right-handed or left-handed.



The arrow shows the direction of rotation. Right-hand direction



Arrow to the right: Right-hand rotation



Arrow to the left: Left-hand rotation

### 5.2.4 Modifying the rotation direction

The rotation direction can be modified while the machine is running.



Press the arrow button. The set motor speed automatically returns to zero and the rotation direction is changed. The motor starts up again at the previous speed setting.

### 5.2.5 Selecting the extraction level

You can set the extraction power level to meet the current working requirements.



Repeated pressing of the [ - ] button decreases the extraction power level. Repeated pressing of the [ + ] button increases the extraction power level. Pressing and holding the corresponding button controls the extraction power level in the desired direction.

There are five extraction power levels.



### 5.2.6 Storing settings

To make your work easier, you can store up to three different settings for rotational speed, rotation direction and extraction power. Using the [M1], [M2] and [M3] buttons, you can store and call the required settings.



Set the required rotational speed with the speed control knob. Select righthand or lefthand rotation direction. Select the extraction power level. Press the corresponding [M1], [M2] or [M3] button for approximately 2 seconds.

“Setting stored” appears in the display.

With a short press on [M1], [M2] or [M3], the corresponding stored value is called.

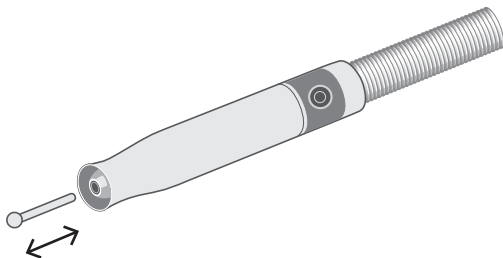
You can change the settings at any time while the device is in operation.



The speed setting may not exceed the permitted maximum speed of your tool.

### 5.3 Changing the tool

- › Switch off the motor at the handpiece.
- › Pull the tool out of the handpiece.
- › Insert a different tool into the handpiece opening.



Tools should only be changed when the handpiece motor has been switched off. The tool shaft must be fully inserted!

### 5.4 Ergonomic handpiece grips

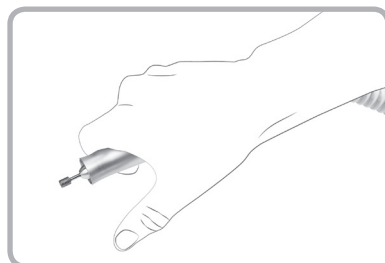
#### 5.4.1 Fountain pen grip

Fine work can be done ergonomically and accurately using the fountain pen grip.



### 5.4.2 Overhand grip

When carrying out surface work, gripping the handpiece from above and supporting it with the thumb makes for accurate and relaxed working.



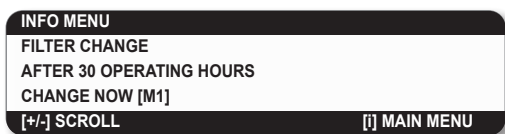
### 5.5 Info menu

The Info menu offers you the option of calling up the following information and functions. Scroll through the individual menu items with the [ + ] and [ - ] buttons.



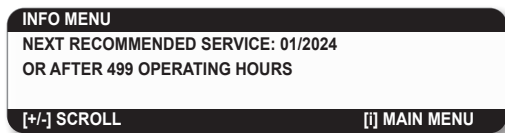
### 5.5.1 Filter change

If you want to change the fine dust filter, you can do this using the Info menu and inform the device at the same time that a new filter has been inserted. You will find an extensive description under point 5.6.1 Changing the filter bag.



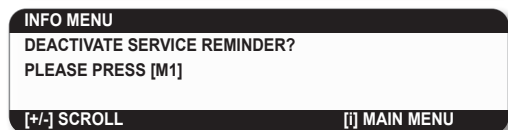
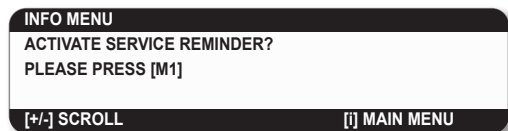
### 5.5.2 Display next service date

This practical display lets you know when the next service is due for your PODOLOG NOVA 3s. This is either after 900 operating hours or at the latest, 24 months after you purchased the device.



## 5.5.3 Activating the service reminder

If you activate the Service reminder function, your PODOLOG NOVA 3s will let you know when the next service is due. You can activate/deactivate this function through the INFO MENU. After 900 operating hours the maintenance symbol appears on the display.







### 5.6 Filter change

A filter change needs to be carried out at the latest after operating the handpiece for 30 hours. The device gives you a reminder through the filter change icon in the display, that the dust filter is due to be changed.

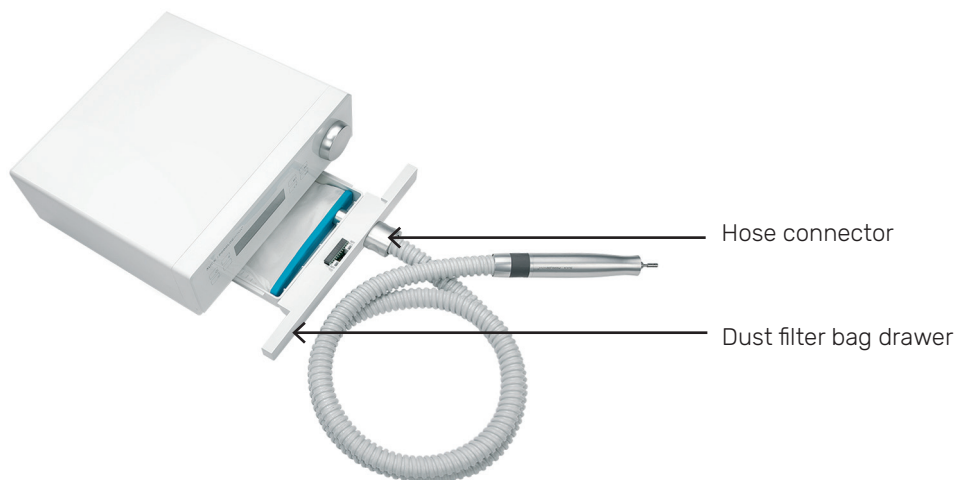
Select:

 = Now

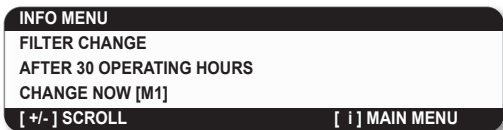
 = Later

If you select LATER, the device displays a reminder every 5 hours until the filter change has been carried out.

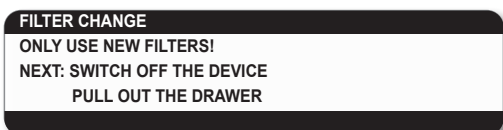
#### 5.6.1 Changing the filter bag



The device reminds you when the dust filter bag needs to be changed. Nevertheless, we recommend that you check how full the filter bag is once a week. To change the dust filter bag, press the [ i ] button to access the INFO MENU. There, you can scroll with the [ + ] or [ - ] buttons to the filter change menu item.



Start the change process with the [M1] button.



Switch the device off. Open the dust filter bag drawer by pulling on the hose connector. Hold the filter drawer in such a way that the hose connector still points upwards. Now remove the full bag from the hose sleeve. Close it using the plug supplied for this purpose.

Insert a new bag and locate the opening over the hose sleeve. Close the dust bag drawer. Now switch the device back on. The device asks whether the dust filter bag has been successfully inserted.



Confirm that the change has been made by pressing the [M1] button, which then returns you to the STANDARD MENU.



The dust filter bag should not be emptied and reused.



Should you use the device for the treatment of artificial nails (nail design, nail prosthesis) please take into consideration that the time between filter changes shifts due to the high degree of erosion. A weekly check of the level is necessary to ensure smooth operation. When treating artificial nails please do not forget to protect your eyes, mouth and nose by using a facemask and goggles!



Once a week, you should check that the dust filter bag drawer is correctly seated and at the same time, you should also check the filling level of the bag. The procedure that you need to follow is detailed above. If necessary, you should replace the dust filter bag.

### 5.6.2 Where can you get new dust filter bags?

New dust filter bags can be ordered from HELLMUT RUCK GmbH under the item number 1100103.



Please ensure that you only use original dust filter bags from the manufacturer.

### 5.7 Cleaning the motor unit

Remove the handpiece sleeve as follows:

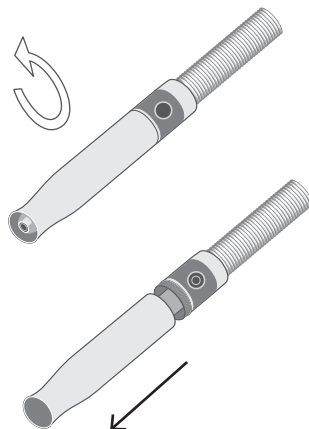
#### 5.7.1 Loosening the sleeve

Unscrew the sleeve carefully in the direction shown by the arrow.

Carefully remove the sleeve by pressing against the metal cover of the chuck at the same time.



The specifications and instructions from the manufacturer referring to cleaning and disinfectant materials and those referring to the corresponding devices must be followed.



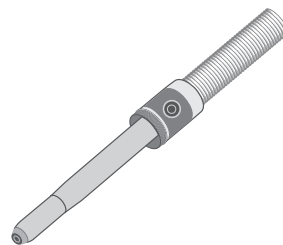
#### 5.7.2 Easy cleaning of the motor unit



Do not use disinfecting sprays. Dampness could penetrate and lead to bearing damage.



Use RUCK alcohol-free, surface disinfectant wipes (item no 2966702) medical product for gentle cleaning and disinfection.



### 5.8 Exchange of interchangeable chuck

If the function of the interchangeable chuck is no longer given, simply replace the simply replace the interchangeable chuck with the interchangeable chuck for PODOLOG NOVA 3s (item no. 1106701) included in the scope of delivery.



To prevent damage to the handpiece motor, follow the exchange procedure of the chuck of the enclosed instruction manual.

## 6 Maintenance, cleaning and disinfection

### 6.1 Maintenance by RUCK service



To ensure continued safe and correct operation of the medical product, the PODOLOG NOVA 3s must be maintained by RUCK SERVICE every 900 operating hours or after 24 months at the latest. During maintenance an electrical safety inspection is carried out in accordance with DIN EN 62353.

If this requirement is not satisfied, the guarantee will lapse and we cannot accept liability!

### 6.2 Cleaning and disinfection



Risk of disease transmission. Insufficient disinfection can lead to transmission of disease. Always comply with the requirements of the responsible national body for hygiene and disinfection. Use RUCK® surface disinfection wipes, alcohol-free (item no. 2966702) medical product – do not use any spray disinfectants. It must be possible to effectively evaporate surface disinfectants before the next treatment; allow surface disinfectants to thoroughly dry as specified by the manufacturer, but do not wipe surfaces dry. Please observe the prescribed application time. 1 minute for bacteria or 5 minutes for fungi. Further information on the disinfectant.

**After every treatment** the outer surfaces of the handpiece and front panel of the controller are wiped with a suitable surface disinfectant.

**When work is completed** the handpiece sleeve is removed (5.7.1) and all accessible surfaces (inside of handpiece, inside and outside of sleeve) are cleaned and wiped with disinfectant. The suction hose is also wiped with disinfectant and visually inspected for cracks or damage. Also check the housing and in particular the glass front for damage.

To disinfect all parts of the controller and handpiece, use RUCK alcohol-free, surface disinfection wipes (item. no. 2966702) medical product. These can be found in our manual or in the Internet at [www.hellmut-ruck.de](http://www.hellmut-ruck.de). Please observe the prescribed application time. 1 minute for bacteria or 5 minutes for fungi. Further information on the disinfectant.



Never immerse the device in water or other fluids as this creates a risk of an electric shock. Switch the device off before cleaning and unplug it from the mains power!



Do not use disinfecting sprays. Dampness could penetrate and lead to damage to the electronics.

## 7 Accessories and spare parts



Please note! The accessories listed below are only to be used with the PODOLOG NOVA 3s. Using them with other medical-electrical devices can lead to increased emissions or reduced immunity to interference for the device in question.



Warning: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

### 7.1 Tools

You can use all rotary instruments (cutters, grinders, polishers) with a standardised shaft diameter of 2.35 mm, which have a CE label identifying them as a medical product. You will find a wide range in our catalogue or at: [www.hellmut-ruck.de](http://www.hellmut-ruck.de).

More information can be found in the standard DIN EN ISO 1797-1.

### 7.2 Dust filter bags

You should only use original dust filter bags from the manufacturer (Item no.: 1100103).

Item no.: 1100103

Replacement filter for PODOLOG NOVA 3s



Item no.: 4823701

Handpiece holder free-standing



Item no.: 4823401

Handpiece holder for RUCK® ROOM classic



Item no.: 4823801

Handpiece holder for wall or third-party cabinet



Item no.: 1106701

Interchangeable chuck for PODOLOG NOVA 3 and 3s



## 8 Technical data (incl. EMC test results)

Operating mode	Suitable for continuous operation. The device is not suitable for use in the presence of flammable air mixtures.
Controller dimensions (W/D/H) in mm	251/228/105
Weight in g	ca. 2700
Handpiece dimensions Length in mm	127
Ø min. / Ø max.	24.5/18.5
Weight in g	ca. 120
Controller voltage	115 - 240 V, 50 - 60 Hz, 1,5 - 0,8 A alternating current
Power consumption	max. 175 VA
Micromotor voltage	40 V
Constant load	80 W
Idling speed (rpm)	40 000
Maximum airflow at full performance	approx. 280 l/min (- 10 %)
Length of power cable in cm	170
Length of hose in cm	130

We are not aware of any electromagnetic interactions between the PODOLOG NOVA 3s and any other equipment.



## 8.1 Environmental conditions

Ambient temperature and humidity (non-condensing)

in operation	+5°C to +40°C and 30% to 75% humidity (non-condensing)
in transit and storage	-25 °C (without monitoring of relative air humidity) up to 70 °C (at relative air humidity from 15 % up to 93 %, non-condensing)
Air pressure	700 hPa ( $\approx$ 3000 metres above sea level) - 1060 hPa

## 8.2 Information regarding electromagnetic compatibility

### Guidelines and manufacturer's declaration – electromagnetic interference

The PODOLOG NOVA 3s is designed for use in electromagnetic environments as specified below. The customer or client using PODOLOG NOVA 3s should ensure that the device is used in the prescribed environment.

Emission measurements	Conformance	Environment
HF-emissions according to CISPR 11	Group 1	The PODOLOG NOVA 3s uses HF solely for internal functions. Its HF emissions are very low and it is unlikely that any interference will be caused to nearby electronic devices.  The PODOLOG NOVA 3s is suitable for usage on all premises, which are directly connected to the public power supply.
HF emissions according to CISPR 11	Class B	
Harmonic components according to IEC 61000-3-2	Class A	
Voltage fluctuations / flicker according to IEC 61000-3-3	Fulfilled	



Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation.  
If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.



Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

### Guidelines and manufacturer's declaration – electromagnetic interference immunity

The PODOLOG NOVA 3s is designed for use in electromagnetic environments as specified below. The customer or user of the PODOLOG NOVA 3s should ensure that the device is used in the prescribed environment.

Interference immunity test	Discharging of static electricity (ESD) according to IEC 61000-4-2
IEC 60601 test level	Contact discharge: $\pm 8$ kV Air discharge: $\pm 2$ kV, $\pm 4$ kV, $\pm 8$ kV, $\pm 15$ kV
Conformance level	Contact discharge: $\pm 8$ kV Air discharge: $\pm 2$ kV, $\pm 4$ kV, $\pm 8$ kV, $\pm 15$ kV
Electromagnetic environment guidelines	Floors should be made of either wood, concrete or with a ceramic tile covering. If the floor is covered with a synthetic material, relative air humidity must be at least 30%.
Interference immunity test	Proximity fields from RF wireless communications equipment (IEC 61000-4-3)
IEC 60601 test level	385 MHz, pulse modulation: 18 Hz; 27 V/m 450 MHz, pulse modulation: 18 Hz; 28 V/m 710, 745, 780 MHz, pulse modulation: 217 Hz; 9 V/m 810, 870, 930 MHz, pulse modulation: 18 Hz; 28 V/m 1720, 1845, 1970 MHz, pulse modulation: 217 Hz; 28 V/m 2450 MHz, pulse modulation: 217 Hz; 28 V/m 5240, 5500, 5785 MHz, pulse modulation: 217 Hz; 9 V/m
Conformance level	385 MHz, pulse modulation: 18 Hz; 27 V/m 450 MHz, pulse modulation: 18 Hz; 28 V/m 710, 745, 780 MHz, pulse modulation: 217 Hz; 9 V/m 810, 870, 930 MHz, pulse modulation: 18 Hz; 28 V/m 1720, 1845, 1970 MHz, pulse modulation: 217 Hz; 28 V/m 2450 MHz, pulse modulation: 217 Hz; 28 V/m 5240, 5500, 5785 MHz, pulse modulation: 217 Hz; 9 V/m

Interference immunity test	Radiated RF EM filed IEC 61000-4-3
IEC 60601 test level	80-2700 MHz; 1kHz AM 80 %; 10 V/m
Conformance level	80-2700 MHz; 1kHz AM 80 %; 10 V/m

Interference immunity test	Rapid transient electrical interference variables / Bursts according to IEC 61000-4-4
IEC 60601 test level	+ 2 kV for power cables + 1 kV for input and output lines
Conformance level	+ 2 kV for power cables + 1 kV for input and output lines
Electromagnetic environment guidelines	The quality of the supply current shall correspond to typical commercial or hospital environment standards.

Interference immunity test	Surge voltages according to IEC 61000-4-5
IEC 60601 test level	L-PE und N-PE: 2 kV L-N: 1 kV
Conformance level	
Electromagnetic environment guidelines	The quality of the supply current shall correspond to typical commercial or hospital environment standards.

Interference immunity test	Rated power frequency magnetic fields according to IEC 61000-4-8
IEC 60601 test level	30 A/m, 50 Hz and 60 Hz
Conformance level	30 A/m, 50 Hz and 60 Hz
Electromagnetic environment guidelines	Power frequency magnetic fields should be at level characteristics of a typical location in a typical commercial or hospital environment.

### Guidelines and manufacturer's declaration – electromagnetic interference immunity

Interference immunity test	Voltage dips, short-break power supply and fluctuations in the power supply voltage according to IEC 61000-4-11
IEC 60601 test level	0 % UT for 0.5 cycle at 8 phase angles 0 % UT for 1 cycle at 0° 70 % UT for 25/30 cycle at 0° 0 % UT for 250/300 cycle at 0°
Conformance level	0 % UT for 0.5 cycle at 8 phase angles 0 % UT for 1 cycle at 0° 70 % UT for 25/30 cycle at 0° 0 % UT for 250/300 cycle at 0°
Electromagnetic environment guidelines	The quality of the supply current shall correspond to typical commercial or hospital environment standards. Should the user of PODOLOG NOVA 3s require continued functionality following a power outage, we recommend supplying the PODOLOG NOVA 3s with current from an uninterruptible power system or via battery.

NOTE: UT is the supply voltage before implementation of the test level.

## Guidelines and manufacturer's declaration – electromagnetic interference immunity

The PODOLOG NOVA 3s is designed for use in electromagnetic environments as specified below. The customer or user of the PODOLOG NOVA 3s should ensure that the device is used in the prescribed environment.

Interference immunity test	Conducted HF interference variables according to IEC 61000-4-6
IEC 60601 test level	3 Veff 150 kHz bis 80 MHz
Conformance level	3 Veff 150 kHz bis 80 MHz
Interference immunity test	Beamed HF interference variables according to IEC 61000-4-3
IEC 60601 test level	3 V/m 80 MHz to 2,5 GHz
Conformance level	3 V/m 80 MHz to 2,5 GHz
Electromagnetic environment guidelines	<p>Portable and mobile radio devices shall not be used within a closer proximity to the PODOLOG NOVA 3s Footcare System, including the cables, than the recommended safety distance, calculated using the equation applicable for the transmission frequency.</p> <p>Recommended safety distance:  <math>d = (3.5/V1)\sqrt{P}</math>  <math>d = (3.5/E1)\sqrt{P}</math>  <math>d = (7/V1)\sqrt{P}</math>              80 MHz to 800 MHz              800 MHz to 2.5 GHz</p> <p>With P as the nominal power of the transmitter in watt according to the information given by the transmitter manufacturer, and with d as the recommended safety distance in meters (m).</p> <p>The local<sup>a</sup> field intensity of station-ary radio transmitters, according to a test, should be lower than the accordance level<sup>b</sup> at all frequencies.</p>



Note 1: With 80 MHz and 800 MHz, the higher frequency range applies.

Note 2: These guidelines are not applicable in all cases. The propagation of electromagnetic disturbances is influenced by the absorption and reflection of buildings, other devices and human beings.

- a The magnetic field strength of stationary transmitters such as base stations for radio telephones and mobile terrestrial radio equipment, amateur radio stations, AM and FM radio and television stations cannot in theory be assessed in advance. A study of the location should be taken into account in order to ascertain the electromagnetic environment with respect to the stationary transmitters. If the magnetic field strength measured at the location where the equipment shall be used exceeds the above specified conformance level, we recommend close observation of the equipment in order to prove functioning for the intended purpose. Should unusual performance features become apparent, additional measures may become necessary e.g. a shift or a complete change of position of the equipment.
- b Above a frequency range of 150 kHz to 80 MHz the magnetic field strength should be less than 3V/m.

## Recommended safety distances between portable and mobile equipment HF telecommunication equipment and the PODOLOG NOVA 3s

The PODOLOG NOVA 3s is designed for use in electromagnetic environments as specified below. The customer or user of the PODOLOG NOVA 3 can contribute to avoiding electro-magnetic interference by maintaining the minimum clearance range between portable and mobile HF telecommunication equipment (transmitters) and the PODOLOG NOVA 3s, depending on the output line of the communications appliance as specified below.

Nominal power of the transmitter in watts (W)	Safety clearance range depending on the transmitting frequency expressed in metres (m)		
	150 kHz to 80 MHz $d = 1,20 \sqrt{P}$	80 MHz to 800 MHz $d = 1,20 \sqrt{P}$	800 MHz to 2,5 GHz $d = 2,33 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.20	1.20	2.33
10	3.80	3.80	7.37
100	12.00	12.00	23.30

In the case of transmitters whose nominal power is not included in the above table the clearance distance can be ascertained by using the equation from the appropriate column where P represents the nominal power of the transmitters expressed in watts (W) in accordance with the transmitter manufacturer's specifications.

NOTE 1: With 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: These guidelines are not applicable in all cases. The propagation of electro-magnetic disturbances is influenced by the absorption and reflection of buildings, other devices and human beings.



## 9 Warranty

The product comes with a 2-year guarantee. Normal wear of surfaces, bearings, plug connectors, suction hose, clamping fixture etc. and other moving parts is excluded from the warranty. Traces of use and signs of wear and tear due to age and service life, which are based on normal use corresponding to the product performance and the nature of the product, are in accordance with the contract and are not defects in the legal sense.

The guarantee runs from the date of purchase when the product was first bought. The date of purchase has to be confirmed by the sales receipt. Within the scope of the warranty, HELLMUT RUCK GmbH will, at no charge, either repair or replace the defective products – at RUCK's discretion. The prerequisite is carriage-paid shipment of the defective product together with the purchase receipt. The local agent is responsible for claims made outside of Germany. In case of doubt, please contact RUCK before returning the device.

The warranty becomes null and void if we find that the problem was caused by improper or incorrect installation or usage, by non-observance of the instructions for use, by external intervention or as a result of a non-authorised repair or modification.

The warranty is limited to repair or replacement of the product. Further liability (particularly loss of revenue or earnings) is excluded. However, if it transpires that it is a problem that is not covered by the terms of the warranty or that the period of the guarantee has elapsed, any costs for inspection and repair must be borne by the customer.

We reserve the right to make changes to and deviations from the technical design.

## 10 Disposal



### **Environmental hazard!**

Incorrect disposal endangers our environment.



Please use available return and collection systems for disposing of the PODOLOG NOVA 3s at the end of its life-cycle!

## 11 FAQ

### 11.1 The device does not turn on

After switching on using the power switch on the rear of the device, please wait at least 4 seconds before switching the device on using the standby button on the front panel. Press and hold the standby button for at least 2 seconds. If the device still does not switch on, please repeat the process described again:

1. Switch the power switch on the rear of the device off and on again.
2. Wait 4 seconds.
3. Press and hold the standby button for 2 seconds.

### 11.2 The device is not responding

The speed controller has been fitted but the device has suddenly stopped responding to commands, e.g. the glass operating panel is not reacting or the display remains dark when the standby switch is switched on. Please switch the device off at the power switch on the back. Wait for 30 seconds, then switch it on again. Press the standby button. It will then be possible to operate the device as normal again.

### 11.3 Resetting language and area of activity

Press and hold the Info button for 5 seconds. The start screen will appear. You can now reset your language and area of activity. Additionally, you can activate the service reminder function so that you are reminded in time when the next service is due.

The operating hours counter / the time remaining until the next service as shown in the Info menu are not changed during the reset.

### 12 Potential error messages on the display

Error class	Message
Warning	HANDPIECE: MOTOR FAULT!
Warning	PUMP MOTOR FAULT!
Warning	DEVICE IS TOO HOT!
Warning	LIMIT TEMPERATURE, REDUCE LOAD!
Info	AFTER-COOLING ACTIVE!
Info	OVERHEATING, AFTER-COOLING ACTIVE!
Info	OVERHEATING, SWITCHING OFF
Info	CAUTION OVERHEATING, CHANGE FILTER BAG!
Info	CAUTION OVERHEATING, CHANGE FILTER BAG! COOLING-DOWN PHASE 15 MIN!

#### Product Tip

for your  
**PODOLOG NOVA 3s**

#### Cutter pliers chrome-plated, stainless steel (item no. 2126401)

Have you experienced this? It's difficult to remove the fine fissure cutter from the handpiece. Help is at hand: These cutter pliers ensure that you have a good grip on all rotary instruments.



#### Video tip

In an application video, we show you how the cutter pliers work.

[qr.de/Fraeserzange](https://qr.de/Fraeserzange)



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