

**hadewe**

## Manual



## Xantos-Nail

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## Safety Instructions

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Read this instruction manual in its entirety before you start operating the unit. Especially read through any information regarding the battery and recharging process to prevent damage to the accumulators.



The equipment should only be used by trained operators.



The installation of the working area has to correspond to the relevant regulations. Set up the unit in such a way, that the air slits are not blocked and the extracted air can escape well.



Only switch on the unit, if the handpiece rests secured in the handpiece holder, or if you hold it safely in your hand.



To avoid the risk of electrocution only connect the device to the mains power supply.



If you pull the power plug it will stop the connection to the mains power supply. Set up the unit so that the power plug is always accessible. The power switch should also always be easily accessible.



Prevent any liquids from entering into the control unit, since this could damage the electronic elements. Clean the outside of the box only with a dampened cloth. Make sure,

## Safety Instructions

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that you have unplugged the unit before.



Check the mains cable regularly for damage, and in case of such, have it changed or repaired by an authorized service center.



Prevent your hair from wrapping itself around moving parts. If applicable, wear a hair net.



When working with materials, which might create dust or moisture, use a drilling unit with suction or spray technique. Wear a nose and mouth protection. Always follow the safety instructions, provided by the manufacturer of the materials being formed and used.



For safety reasons wear goggles during the treatment.



Ensure that the patient's foot and the handpiece are held firmly in place during the operation. To prevent injury, work with extreme caution on the foot of the patient and use only light pressure.



To ensure that the bur/ tool sits firmly in the chuck, do not work with tools which

- have an oily shaft,
- are worn,
- are bent.

## Safety Instructions

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This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.



Children should be supervised not to play with the appliance.



Before using the equipment, assure that

- the tool can be pushed far enough into the chuck,  
(Test this with a dipstick and clean the handpiece if necessary.)
- the inserted tool sits properly in the chuck and will not cant/jam while clamping it,
- the tool is approved for using it at the max speed (see manufacturer's instructions) or only use the speed required by the instrument,
- the tool is absolutely dry.



For safety reasons do not change the tool while the motor is running.



Switch off the unit immediately if

- the bur comes off during the treatment itself,

## Safety Instructions

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- the motor blocks during the treatment.



Regularly check the mechanical safety of the unit (look for damages to the housing or mains cable for example).



Always follow the operating instructions.



Do not carry out any repairs, modifications or maintenance work yourself. This is only to be accomplished by an authorized specialist. The mains cable may also only be changed by the manufacturer, or an authorized specialist. Never remove the housing, especially not while the equipment is plugged into the socket, since some components are under electric voltage. Any unauthorized or improper handling (e.g. trying to repair the unit) of the equipment will immediately nullify the guarantee/warranty, and any other liabilities of the manufacturer.

## Cleaning & Disinfection

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After every treatment please carry out the following steps:

- Remove the rotating tool (e.g. bur, capper, etc.) first. Then handle the cleaning of the tool according to the instructions of its manufacturer.
- Remove tissue remains by wiping off the unit with a mildly moistened paper cloth. Afterwards clean all surfaces with disinfection cloth (e.g. Mikrozyd AF Tücher of Schülke and Mayr).

## Getting to Know the Unit

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1. speed display

2. LED

3. increase speed

4. change direction  
of rotation

5. decrease speed

6. ON/OFF button



# Before First Use

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Please read through the instructions carefully before using the unit and carefully note the safety advice. Always keep this manual accessible to any users of the drill.

## Area of Application

The control unit can be set up in a cabinet or can be used as a portable unit (e.g. in a carry case). It is suitable for the following scopes:

- foot care/manicure  
(milling, trimming and polishing)  
**Attention: Additional spray or suction might have to be in operation during foot care in your country.**
- dental technique/dental laboratory  
(Milling, trimming and polishing work at plaster casts and models)  
**Do not use this unit for dentist purposes, i.e. working directly on the patient.**
- industry  
(grinding, milling and polishing works)

## Installation Site

The installation of the workroom must correspond to any regulations according to your country laws. Set up the control unit, so that the ventilation slits are not covered or blocked, and the exhaust air can escape well.

The drill and the charging unit may only be operated in confined spaces. Temperature rising of the housing is normal during operation. Although the unit should never be covered, nor be located near heating devices or in direct sun impact.

# Application

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## Starting up and Operating the Unit

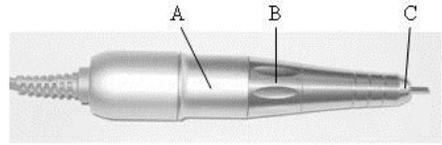
Put down the handpiece in the handpiece holder. Plug in the plug. Turn on the unit with button 6. With button 3 and 5 you can adjust the speed level. Regularly the drill runs clockwise. To change the direction, push button 4. While the drill runs with the left rotation the green LED (no 2 in pic.1) is shining.

## Clamping the bur/tool

The handpiece is equipped with a chuck, which can hold all burs with a diameter of 2,35 mm (this is the diameter usually used for tools in podiatry).

Keep the handpiece at spot A in one hand. Turn the ring (spot B) clockwise with your free hand until it snaps. Now the chuck is opened. Insert the bur until the end of the chuck. Screw the ring B counter clockwise until it snaps. Check, if the bur sticks well.

It sticks well when you cannot pull it out. Please do not turn on the unit while the chuck is opened. This can damage the motor and the electronic devices.



For security reasons, only change the tool if the handpiece is turned off.

## Setting up the Speed

Hold the handpiece (incl. tool) in your hand or store it in the handpiece holder attached to the side of the control unit.

Switch on the unit with button (6). Now you can also set the speed with buttons (3) and (4). Choose the direction of rotation with button (5). In reverse running the LED (2) will be on.

# Maintenance & Care

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## Cleaning the Chuck

### *Weekly cleaning (every 20 working hours)*

Screw off the top (pg. 10) and brush off the loose parts with the added brush. Hold the handpiece that way that the top points downward the table to avoid that more dirt can enter the inside of the handpiece.



# Handling Instructions

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 Never put the handpiece into any kind of liquid, and never oil or grease the handpiece. Clean its surface with a dampened cloth. Pay attention, that no moisture or liquid enters the handpiece.

 Never put any wet burs or instruments into the handpiece. Its moisture could damage the interior parts of the handpiece.

 Any materials used by hadewe prevent a formation of rust. In cases in which a rust infestation was found within the handpiece, thorough inspections and examinations always have proved, that the rust had a foreign origin (which was usually caused by the tools used in these circumstances). Even in high-grade steel instruments of well-known manufacturers, formation of rust can appear, e.g., through wrong treatment with chemical cleaning and disinfection liquids. This extraneous rust affects internal parts of the handpiece in form of rust bloom and causes pitting. Therefore, when you not working with the handpiece, always remove the bur/tool from it.

 Always make sure that you do not let the handpiece fall

down or exposes it to any shocks. The ball bearings and the motor could be damaged by this. Only work with tools, which are flawless. Do not work with tools which

- are bent or out of balance,
- whose shaft is worn out or
- are rusty.

 Working with faulty tools will cause a stronger vibration of the handpiece. A damage or even devastation of the ball bearings, clamping technique or motor could be the consequence.

 Working with high pressure will not improve the outcome of your work, since the motor will even be slowed down. A second disadvantage is the stronger impact on the ball bearings and the motor, which will shorten their life span in the long run.

 Always working with maximum speed might have a similar effect. Please make sure that the speed setting you use is according to the work you are doing and the instruments you are working with.

 Never clean the handpiece with pressurized air or when the motor is running. Dirt could be forced into the bearings causing damage.

# Troubleshooting

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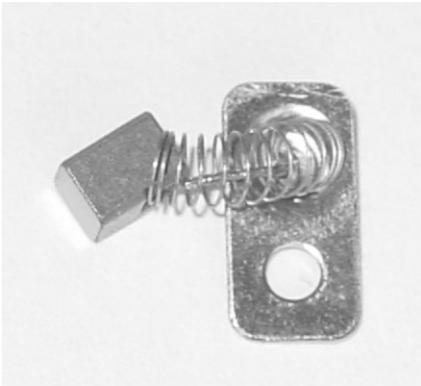
***When the motor is not running or blocks the carbons of the motor could be worn out...***

**The following described work should only be carried out by trained and experienced staff.**

Turn the endcap off the engine. Take off the cable. Loose the screw.



Take out the carbon.



Insert the new carbon. Check the position of the spring on the carbon. The spring should be in the middle of the carbon. The carbon is a wearing part and has to be replaced after it is worn out. A pair of

carbons was added to your delivery. Then also check the second carbon.

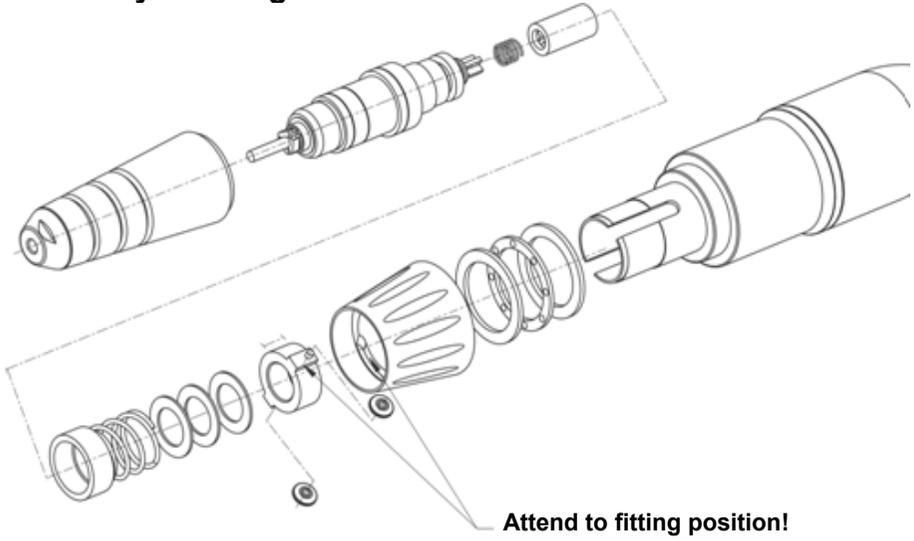
***If the handpiece becomes hot...***

In case the handpiece should become hot or the noise level extraordinary loud, apparently the ball bearings of the front part of the handpiece are worn out. In this case we suggest to send us the handpiece for maintenance works.

# Troubleshooting

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## Assembly Drawing



More manuals for repair workshops you will find at <http://hadewe-online.de/guides/index.htm>

# Troubleshooting

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## 0872 Xantos Nail

*handpiece:*

weight: 160 g

length: 127 mm

handpiece-Ø: 13 mm

motor-Ø: 27 mm

speed range: 4000 - 25000 rpm

*control unit:*

weight: 0,9 kg

measurements: W114xH86xD183mm

power supply: 230V ~, 50Hz

output: 50 W

fuse pri.:315mA delayed-action fuse

fuse sec.: thermo-fuse

The clamping system is designed for rotating instruments, which have a shaft of 2,35 mm in accordance with DIN EN ISO 1797-1.

## Disposal

For disposal of this unit, please contact the site, where you bought this hadewe product. Do not dispose in household refuse. Respect your local disposal regulations.

## Declaration of Conformity

We declare under our sole responsibility, that the products 0872 and to which this declaration relates, are conform to the following standards or normative documents:

2014/30/EU directive EMC

2014/35/EU low voltage directive

hadewe GmbH – Grambartstraße 10 –  
30165 Hannover – Germany

## Safety Check

A safety check must be done in compliance with the regulations of the country where the device is used. The inspection interval is once a year.

## Symbols



Caution!



Important Note!



Follow instructions for use!



type B applied part



date of manufacture,  
name and address  
of the manufacturer



class II



alternating current



direct current



safety fuse

**hadewe**

hadewe GmbH  
Grambartstraße 10  
30165 Hannover  
Germany  
[info@hadewe.de](mailto:info@hadewe.de)  
[www.hadewe.de](http://www.hadewe.de)