

# Manual



## Auroria 2 Chrome

# Directory

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<b>Foreword</b>	<b>3</b>
<b>Safety Instructions</b>	<b>4</b>
<b>Cleaning &amp; Disinfection</b>	<b>9</b>
<b>Getting to Know the Unit</b>	<b>10</b>
<b>Before First Use</b>	<b>11</b>
Area of Application	11
Work	11
<b>Use</b>	<b>13</b>
Work Steps	13
Working Positioning	14
Suction	15
Exchange Micro Filter	15
Exchange Control Unit Filter	15
Clamping the Bur/Tool	16
Setting up the Speed	16
Memory Buttons m1, m2, m3	16
Button on the Handpiece	16
Foot Switch	16
LCD Display	17
<b>Messages</b>	<b>18</b>
<b>Maintenance &amp; Care</b>	<b>19</b>
Cleaning the Clamping System	19
Maintenance Overview	19
<b>Handling Instructions</b>	<b>20</b>
<b>Troubleshooting</b>	<b>21</b>
<b>Technical Data</b>	<b>22</b>

# Foreword

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The *Auroria 2 Chrome* foot care unit was produced according to strict quality criteria and uses the latest technology in its design. The images in this manual may vary slightly from the product you have bought as we are constantly developing our products.

This user manual includes a detailed description and explanation of how to use the *Auroria 2 Chrome* unit. If you have any questions or suggestions, you can contact us by telephone or email.

This user manual belongs with the *Auroria 2 Chrome* unit. Keep it somewhere safe. If you give this product to someone else, please include this document as it includes important information on how to correctly use the product.

## *Short description of functions*

The *Auroria 2 Chrome* is a device for the treatment of callus and nails. The handpiece is compatible with rotating tools such as diamond polishers, steel cutters and ceramic cutters. These can reach at speeds up to 40,000 rpm and therefore provide an efficient way of removing tissue. The direction of rotation can be changed by pressing a button. The integrated filtered suction function effectively sucks up any dust particles. The rotation speed and suction function can be adjusted using the keyboard. The device display will notify you when the filter needs to be changed and when the device is due for inspection.

## Safety Instructions

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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.



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.



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



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 damp cloth. Make sure, that you have unplugged the unit before.



Only when pulling the mains cable, you can ensure that the device will be completely disconnected from mains. Check the mains cable regularly for damages and in case of such, have it changed or repaired by an authorized service

## Safety Instructions

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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, you must always wear disposable gloves and protective glasses when operating this unit. In addition, a face mask conforming to EN 14683 type IIR or EN 149 FFP 2 must also be worn.



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



Children should be supervised not to play with the appliance. 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

## Safety Instructions

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or instruction concerning use of the appliance in a safe way and understand the hazards involved. Cleaning and user maintenance shall not be made by children without supervision.



Attention! Only use burs/tools which are permitted for speed level saved under m1 – m3!



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.



Before using the equipment, assure that:

- the tool can be pushed far enough into the chuck (test this with a dipstick and clean 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.

## Safety Instructions

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When changing the filter, it is advisable to wear a face mask conforming to EN 14683 type IIR or EN 149 FFP 2.



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.
- the motor blocks during the treatment.



While doing any foot care, only operate the unit with the suction turned on.



Only use the suction function if you have installed the suction filter. Check this filter every 10 operating hours. If it is full, please exchange it. A filter should be exchanged at least after 50 operating hours.



Never use the suction to vacuum any liquids (or air/water fog which contains particles of liquids).



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.

## Safety Instructions

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Maintenance records may be supplied to repair workshops and trained technicians upon request. 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.



When the device is brought out of standby mode it will run with the rotation speed and suction power used last. Take care to not start the mill at an overly high rotation speed. Select the required rotation speed before changing the milling tool.



## Cleaning & Disinfection

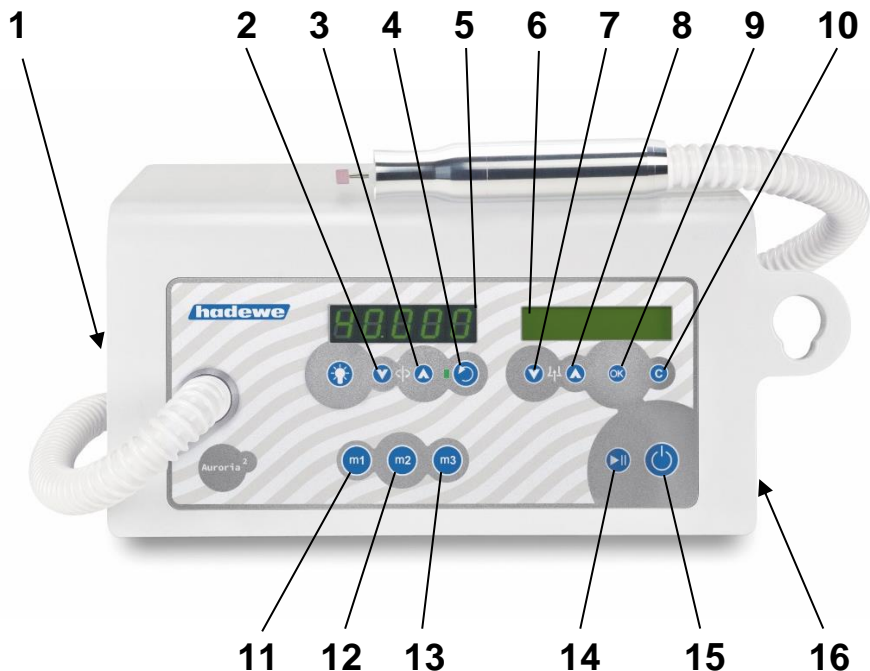
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The device is designed to be compatible with rotating instruments which do not penetrate the skin or mucosal or inadvertently may still cause injuries. For this application please adhere to the cleaning and disinfection instructions provided below. After every treatment please carry out the following steps:

- Remove the rotating tool (e.g. bur, capper, etc.) first. Then handle 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) There is no limit to the number of times this device can be cleaned and disinfected during its recommended lifespan.

# Getting to Know the Unit



- 1 power switch
- 2 reduce speed
- 3 increase speed
- 4 change direction of speed
- 5 display for speed [rpm]
- 6 display for suction level, time, change of the filter bag, etc.
- 7 menu button down  $\nabla$  and reducing the suction level
- 8 menu button up  $\wedge$  and increasing the suction level
- 9 menu button OK
- 10 menu button STOP
- 11 memory button m1 for speed/suction level
- 12 memory button m2 for speed/suction level
- 13 memory button m3 for speed/suction level
- 14 START/STOP-button
- 15 ON/OFF button (standby)
- 16 socket for foot switch

# Before First Use

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


This device should only be used by people who have completed a foot care qualification. Before use the operator should familiarize with the device by reading this manual or being instructed by another.

The device must only be used in closed spaces. It may be used in hospitals, in a commercial environment or in homes. The device is not intended for use in operating rooms.

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 (milling, trimming and polishing),
- manicure (grinding, milling and polishing works).

 The device is determined of operating rotating instruments, which will not penetrate the skin or mucous membrane if used appropriate, but could evoke damages accidentally.

 Caution: In the area of pedicure you have to work with suction techniques.

## Startup Procedure

The working area must conform to the conditions described. Set up the unit in such a way, that the air slits are not blocked and the extracted air can escape well. To guarantee unhindered air flow there must a gap of at least 12 cm to the right of the device.

Position the device so that the operating buttons are easy to reach and the outlet of the hose is a maximum distance of 60 cm from the patient's foot. The unit should be 30-90 cm from the floor.

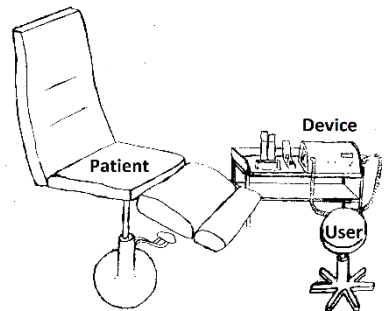


Image: Example of positioning of foot care unit in treatment room

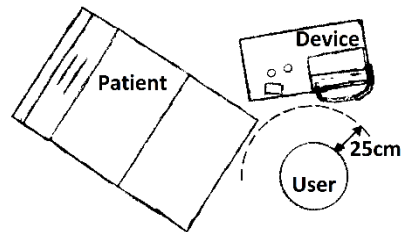



Image: Bird's eye view of work area

## Before First Use

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If you have a foot switch, insert its plug into the port on the right of the device (16) which displays this symbol .

Check that the filter bag and dust filter are correctly fitted. Ensure that the tool is fixed.

On the left side of the device you will find the main power switch (1). Press this switch to turn the unit on.



The word “Language?” will appear on the display. Use the buttons  $\nabla$  and  $\blacktriangle$  to select a language and press OK to confirm.

On the display will appear “Press OK”. By pressing the OK button, the counter which calculates the time until the next inspection is due is set to 0.

The device is now on standby. As soon as the LCD display (6) is active the device is ready to use. Pick up the handpiece. Should the handpiece be twisted by the hose you can adjust that at the control unit.



To use the handpiece and suction function press the button (15) on the front of the unit.

## Operating Steps

In the following section the order in which you should use the device is described. Additionally, the individual steps will be explained in detail. Read the complete manual before use.

After having clamped the instrument, press the standby key (15) to switch on the device. Use the buttons (2) and (3) to select a rotation speed. Manufacturers often provide recommendations for optimal rotation speeds. However, it is important that you never exceed the maximum recommended rotation speed. Now press the start/stop-button (14) to set the instrument in rotation.

You can now choose the rotation direction using the button (4). The most commonly used direction is clockwise. Most milling instrument (steel instruments with steel cutters) are optimised for clockwise use. The rotation direction is irrelevant for diamond cutters and high-grade corundum sanders in terms of efficiency. Working anti-clockwise can be beneficial if, for example, the dust obscures your field of vision when working clockwise.

Switch on the suction with button (8). Using buttons (7) and (8) you can adjust the intensity of the suction.

Frequently used rotation speeds and suction power settings can be saved. First select the desired rotation speed and suction power. Save these settings by pressing the

memory button m1 for 4 seconds. To use your custom settings simply press m1. Other values can be saved using memory buttons m2 and m3.

After choosing rotation speed and suction power you can start working. If you want to take a break, press the start/stop-button (14). The handpiece motor and suction will turn off. The handpiece can now be placed in its holder on the right of the unit. If you want to end the work completely, use the standby key (15). The display will then also switch off. Alternatively, you can switch the device to standby by pressing and holding the button on the handpiece or by pressing the button on the foot switch.

We recommend you to disconnect the device from the mains power supply if it is not going to be used for a while. This will save electricity. The mains plug must also be removed when it comes to retiring the device.

# Use

## Work Positioning

The following images are examples of how to work on various parts of the foot. Always make sure that the foot is firmly gripped and that you can work freely and without strain.



# Use

## Suction

Switch on the suction with button (8). The suction power can be regulated in 5 levels. You will see the selected level in the display. Level 0 would mean that the suction is turned off.

In case the suction motor overheats, the unit will switch off automatically. Leave the unit to cool off for a while before starting it again. Should the same failure appear again, please return the unit to your supplier for inspection.

## Exchange Micro Filter



When changing the filter, it is advisable to wear a face mask conforming to EN 14683 type IIR or EN 149 FFP 2.

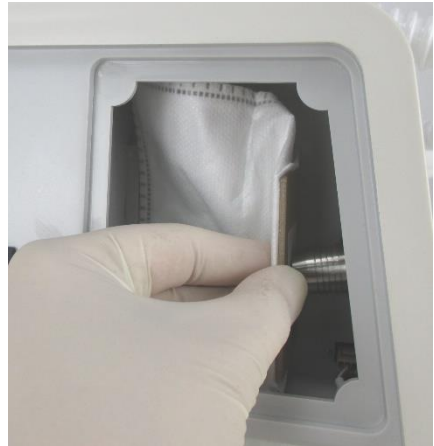
Only operate the unit with a suction filter assembled. Control the bag after every 10 operating hours. Exchange a full filter bag immediately. A filter should be exchanged at least after 50 operating hours.

At first, unfold the paper of the micro filter bag (art. 5179) and push your finger into the opening in the front.



Pull out the lid of the dust chamber and remove the old filter. Hold the

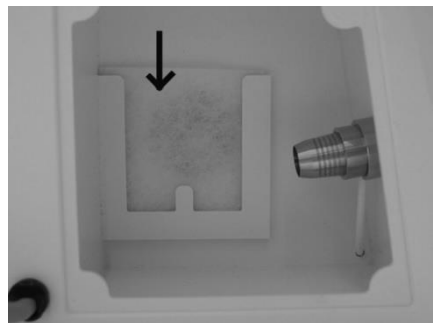
filter in the middle to prevent it from bending and sliding off (see picture below). Therefore, you avoid it from coming off again.



The dust filter (art. 5179) must be used. The paper filter (art. 5115) must NOT be used.

## Exchange Control Unit Filter

This filter (art. 3752) has to be exchanged after every 200 operating hours. Remove the old filter and place the new one in its holder (see picture below).



## Clamping the Bur/Tool

Change the bur/tool only when the motor is turned off. Insert the bur until it stops. 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).



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 (15). Now you can also set the speed with buttons (2) and (3). Choose the direction of rotation with button (4).



When the device is brought out of standby mode, it will run with the rotation speed and suction power used last. Take care to not start the mill at an overly high rotation speed. Select the required rotation speed before changing the milling tool.

## Memory Buttons m1, m2, m3

Frequently used speed or suction levels can be saved. Therefore, three memory buttons are available. At first, choose your speed/suction level, and then save it by pushing the memory button m1 for 4 seconds. To recall the above combination of speed/suction level, simply press button m1 again. Further combinations can be saved with m2 and m3.




Attention! Only use burs/tools which are permitted for speed level saved under m1 – m3!

## Button on the Handpiece

The unit is switched on/off by pressing the button for a long time. Press for a short time afterwards to start the handpiece and the suction motor.

## Foot Switch (art. 0970)

### Operation of the foot switch

Only use the original hadewe foot switch, to avoid any damages. Insert the plug of the foot switch into the socket with the symbol .

### Function of the foot switch

The unit is switched on/off by pressing the foot switch for a long time. Press for a short time afterwards to start/stop the handpiece and the suction motor.

## LCD Display

The LCD display shows you information about the operating mode of the control unit, such as direction of rotation (left/right rotation), suction level (level 1 – level 5) or date and time. A warning notice to exchange the filter bag will appear in the display. It will also show, when the unit should be brought to a maintenance (after approx. 1 year).

By pressing the OK button, you will access the selective list for settings of the device. With the buttons  $\vee$  and  $\wedge$  you can go through the list and



## Use

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select a setting by pressing OK. With "C" you can stop a function to return to the main menu.

The following functions are available: verification of changing the filter bag (the date of the last exchange will be displayed), show date of last maintenance, setting the time, setting the date, choose your language.

### **Change of filter bag approval**

After every 50 operating hours during suction mode, you will read the note „Check the filter bag“. When this message appears, you have to confirm the date of the exchange. Choosing "Change filter" from the selective list and then press OK. Now the date of the last change will be shown in the display. Press  $\wedge$  and then OK to confirm the change.

### **Display date of maintenance**

Select from the list "maintenance". Approve with the button "OK". The date of the last service will appear. If you send in the device for maintenance, hadewe or an approved service agent will update the date of service for you.

### **Setting the time**

Select from the menu list "time". Confirm with the button OK. With the button - and + you can set the hours. With the buttons  $\wedge$  and  $\vee$  you can set the minutes. Press OK to save the setting.

### **Setting the date**

Select from the list "date". Confirm with OK. With the button - and + you can set the day. With the button  $\vee$

and  $\wedge$  you can set the month. With the button m1 and m2 you can set the year. Press OK to save the setting.

### **Choose your language**

Select from the list "language". Confirm with the button OK. With the button  $\wedge$  and  $\vee$  you can select the language. Press OK to save the setting.

# Messages

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## **CHECK FILTER BAG**

→ Change the filter bag (see page 15).

## **HANDPIECE CHECK**

→ No handpiece is connected or the handpiece is faulty.

## **MAINTENANCE RECOMMENDED**

→ After longer operation of the unit (approx. 1 year, depending on how much the unit is used), the exchange of moving parts, e.g. ball bearings, washers and other parts that will wear down in time will become necessary. A maintenance by an approved hadewe service agent is recommended after a year.

The control system will determine the period between the last maintenance and shows a recommendation for a new service. Please contact your distributor or an authorized repair service, when this occurs.

In the display appears "Maintenance recommended". Press OK. The display shows "Note off?". If the message should still appear, select "No" and the OK. If you do not want this message to appear again during the next 2 months, press "Yes" and then OK.

## **ERROR 1**

→ The unit switches off when the rotational speed of the handpiece cannot be maintained.

## **ERROR 2**

→ The unit switches off when the speed of the suction motor cannot

be maintained.

## **ERROR 3**

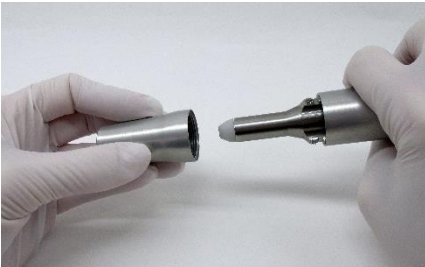
→ The unit switches off when if the handpiece has been very heavily used for a long period of time.

# Maintenance & Care

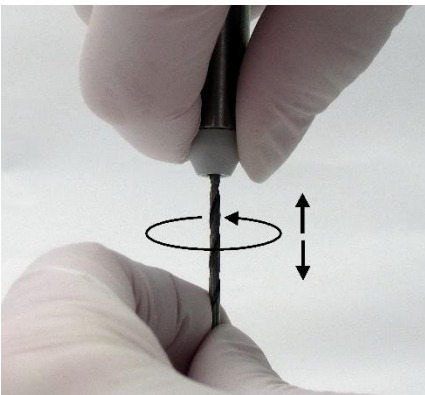
## Cleaning the Clamping System

When inserting the instruments, it may happen that dust enters the clamping system. This may cause that instruments can no longer be inserted deep enough and that a tight grip is no longer granted. The result of this often is abrasive wear, and therefore the clamping system is to be cleaned every 50 hours of operation.

For this purpose, screw off the protective sleeve of the handpiece:



Clean the inside of protective sleeve and the hull with a dry scrubber or brush. Now insert carefully the provided special drill into the handpiece. Turn the drill clockwise while you hold fast the white plastic part:



Apply only slight pressure when


inserting the drill. The stuck dust will come loose and by turning the drill it will come out. During this procedure hold the handpiece upside down so that the dust can fall down easily. After that screw on the metal sleeve again.


## Maintenance Overview


What has to be done?	How often? Done by whom?
cleaning the chuck	monthly by user
changing the micro filter	every 50 hours of operation by user (check after each 10 hours)
changing the control unit filter	every 200 hours of operation by user
maintenance by repair workshop (changing worn parts, housing, cleaning, check leakage current)	every 250 hours of operation or after at least 1 year


# 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 damp cloth. Pay attention, that no moisture or liquid enters the handpiece. Never use spray disinfection.


 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 ballbearings 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 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.

 In case of sending the device by mail remove the dust filter before.

 Only suck up dust or milling waste, never suck up larger particles such as small bits of cotton wool as this may be get caught in the handpiece and lead to blockages.

# Troubleshooting

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## **Handpiece vibrates, is very noisy or becomes warm in the front part.**

Use of bent burs/tools. → Use a different bur/tool to test this. The bur/tool itself can be tested with the hadewe Bur Shaft Tester (art. 4990) to see if it is bent.

Maximum allowed speed of the tool was exceeded, which caused a stronger vibration. → Pay attention to the tool (e.g. bur, capper and instrument) manufacturers handling details.

## **Bur/tool can be inserted only with difficulty or not at all.**

Use of bent burs/tools. → Use a different bur/tool to test this. The bur/tool itself can be tested with the hadewe Bur Shaft Tester (art. 4990) to see if it is bent.

Chuck is dirty. → Clean the chuck according to the instructions in the manual.

## **Bur does not clamp, or does not spin.**

Chuck system is not tightened well. → Tighten the chuck system firmly according to the instruction in the manual.

## **Unit does not work at all.**

Check, if the main switch of the unit is turned on at the side of the unit.

Foot switch is used constantly or faulty. → Pull out the socket of

the foot switch to see if this is the cause.

Pull out the mains plug to reset the device.

## **The unit shows different sound levels at different sites of use.**

The sound level varies according to the surroundings of the unit. If you set up the unit directly in front of a wall, the sound is reflected stronger, as if it would, while standing further away from a wall.

## **Handpiece motor stutters shortly (approx. 1 sec) when turning unit on.**

In very rare cases this effect did appear. It will not harm or damage the device.

## **Suction function doesn't work.**

The suction motor will turn off automatically if it overheats. Let the device cool down before using it again. Send the device off for inspection if this occurs repeatedly.

## **For descriptions of the messages on the device display, see page 18.**

# Technical Data

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## 0989 Auroria 2 Chrome

total weight: 2,7 kg  
dimension: W273xH142xD186 mm  
input: 100-240 V~, 50/60 Hz  
power consumpt.: 1A(100V)-0,5A(240V)  
fuse primary:  
F1, F2: 4 A time delayed safety fuse  
fuse sec.: thermal fuse  
protection class I  
accuracy of speed display:  $\pm 10\%$

### *handpiece:*

diameter: 19-28 mm  
length: 130 mm  
speed: 6.000 - 40.000 rpm  
vibration:  $< 2,5\text{m/s}^2$

## Ambient Conditions

The device is intended for use in dry closed rooms.

### Operation:

Temp.:  $+10^{\circ}\text{C}$  to  $+26^{\circ}\text{C}$   
Rel. humidity: 25% to 75%  
(not condensed)  
Air pressure: 700 hPa to 1060 hPa

### Storage:

Temp:  $-5^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$   
Rel. humidity: 10% to 95%  
(not condensed)  
Air pressure: 500 hPa to 1060 hPa

### Transport (up to 4 weeks):

Temp:  $-5^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$   
Rel. humidity: 10% to 95%  
(not condensed)  
Air pressure: 500 hPa to 1060 hPa

## Operating Time

The device is designed for extended usage.

## Accessories & Spare Parts

### art. no.

5179	micro filter
3752	control unit filter
0970	foot switch
6173	cleaning drill
6158	cleaning brush



The dust filter (art. 5179) must be used. The paper filter (art. 5115) must NOT be used.

The clamping system is designed for rotating instruments, which have a shaft of 2.35 mm in accordance with EN ISO 1797-1.

## Declaration of Conformity

We declare under our sole responsibility, that the products podiatry unit 0989, 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.

## Disposal



The device and filter may contain infectious material such as residual sanding dust or skin particles. Therefore, please bear in mind the following disposal instructions.

### *Disposing of the device*

Old devices bought in Germany that correspond to the electronic device law should be sent directly to the manufacturer (hadewe). We will dispose of the device free of charge. The devices should not be taken to public disposal plants (WEEE Reg. No. DE20392713, b2b device). For disposal of this unit out of Germany, please contact the site where you bought this hadewe product.

### *Note for the disposal of the device/ treatment system*

Wear protecting gloves of the class 2 in accordance with DIN 374-2 during the disassembling of the device. Also, wear a protective mask for your face according EN14683 version IIR or EN 149 FFP2.






















### *Disposal of dust filter and coarse dust filter*

The filter bag and the coarse dust filter are considered low contaminated waste. Dispose those in intransparent, liquid-tight, resistant plastic sacks and do not dispose them compressed in the regular household garbage.

# Technical Data

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## Symbols

	Caution!		safety fuse
	Important Note!		type B applied part
	Follow instructions for use!		socket foot switch
	temperature limit (indicates the lower and upper temperature limit)		Protective earthing
	air pressure: permissible range		date of manufacture, name and address of the manufacturer
	air humidity: permissible range		Do not dispose in household waste
	Keep dry!		
	ON/OFF button (standby) (no disconnection from main power supply)		
	START/STOP button		
	light ON/OFF button (inactive for device 0989)		
<b>OK</b>	enter menu/ confirm with OK		
<b>C</b>	go back in menu/ cancel		
	change direction		
	suction		
<b>m1, m2, m3</b>	memory buttons for speed/ suction output		
	Rotation		
	alternating current		
	direct current		









**hadewe**

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