

hadewe

beauty & medical equipment



Medical Device Catalogue 2023

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hadewe Company Profile

Tradition & Innovation

We are a long standing family company, and our decisions are made from heart and mind, and based on experience. At hadewe, traditional aspects are mixed with innovative technology to provide the best possible service for our business partners for over 50 years, and for a long time to come.

The hadewe GmbH was founded in 1967 by Herbert Menzel in Hannover, Germany. We started as a supplier of milling and turning parts for the industry, and used that experience to provide a specialized product portfolio for the dental sector in the early 80s. This led to us being a major manufacturer for the professional podiatry sector. We expanded this position during the 90s, first within the European countries, and later in further international countries, and also as a main brand name in Germany.

Since 2005 the company has been run by Chris and Stephan Menzel, and we have established ourselves to be market leader in the podiatry and beauty fields in many countries all over the world.

Our Products – Your Advantage

For the professional podiatrists it is of extreme importance that they can rely on their drills and equipment, since this will enable them to provide the best service for their customers. hadewe supports that goal by manufacturing easy-to-use drills with the latest technology and highest quality.

Our competent partners all over the world will be happy to help you to find the best suited hadewe machine for your purposes as well.

Made in Germany

Our service encompasses the whole spectrum of machines required for the foot care sector, ranging from cosmetic beauty to the medical, professional podiatry.

„Made in Germany“ is not just a phrase for hadewe. Many of even the smallest parts are designed and manufactured within our production facilities in Hannover. Our company philosophy includes high quality at reasonable prices, and finding fast, efficient and flexible solutions to react to market demands.

Quality & Certification

The quality structure of our products meets the highest and latest quality requirements. This is why our micro-motor handpieces and control units have also been supported by a quality management system since 1998, which is complying with DIN EN ISO 13485 and Annex II of the Council Directive 93/42/EEC. Our medical devices are therefore Class 2A Medical Devices, and fulfill the high quality standard.

Compare our Medical Devices to those of our competitors, and you will be surprised how few of them are actually able to offer real Class 2A devices (and if they are able to, just compare their prices to ours).



Our Product Know How - For The Professional Podiatrist

It is our goal to simplify the work day of podiatrists worldwide. We use our product know-how to create or establish some innovative technologies, which will help to make a podiatrist's work more efficient.



hadewe Vaporizing Spray System

hadewe offers a fine spray system, which is unique on the podiatry market. We use a compressor system and a complex nozzle technique, which allows the spray to come out in a fine vapor (mist) that can be controlled to the smallest degree. Other companies often use a different „pumping system“ where the spray jet is rather rough and comes in erratic intervals (much like a garden tube). This „flooding“ process leads to patient and podiatrist becoming unnecessarily wet. With the hadewe Vaporizing Spray System you have full control of the spray amount and can evenly spread the finest vapor over the treatment area.

Spray Handpiece



Suction Handpiece

Powerful Suction Technology

The hadewe suction technology is powerful and efficient. Most of our handpieces have a point or side suction, which is located at the side of the handpiece. The exact positioning of the point suction has proven to be more effective in our tests than the round suction, since it is concentrated directly on the spot where the instrument is used. Although if you prefer a round suction, we also have that for many models. Both technologies guarantee a clean and hygienic work process.

Suction Handpiece



Light Handpiece

Optimum Illumination

Some of our handpieces are equipped with light function. The powerful LED ensures the optimum illumination of the treatment space. We are not only offering light for the spray handpieces, but for suction as well. This is possible, because our light is bright enough to let you see through vacuum dust.

Light Handpiece



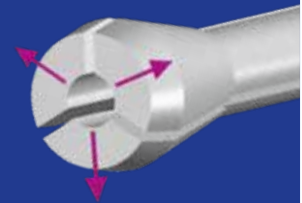


Power Clamping System

The handpiece is equipped with a unique, patented clamping system. A chuck will open inside the handpiece by pressing the well-known hadewe knob forward. The instrument can now be entered into the unit without any resistance. This is especially important with smaller, sharp edged tools, since they can cause injury, if you need too much force to enter an instrument.

Pushing the knob back again will close the chuck, and the tool will be held very secure, even at high speeds. The tight grip also ensures the low-vibration running of the handpiece for which hadewe is famous. Conventional clamping systems with automatic clamping work with a mechanism in which rolls inside the handpiece wedge the instrument under pressure. At these systems it is not possible to enter the instrument without resistance. The handpieces with automatic clamping are also more sensitive to small deviations of tool tolerances. This will lead to higher vibration and poor holding force. That is why the power clamping system is superior in many ways.

Power Clamping System



Ultra-Silent High Performance Suction

According to customer surveys a silent suction is one of the most important criteria to buy a podiatry drill. The motor itself, as well as the quality of sound damping are important factors. The use of different kinds of insulating material makes it possible to reduce a wide spectrum of noise. After all, neither a high frequency squeaking nor a dull humming should disturb your treatment.

Regular suction turbines are working with so called brush motors. The brushes are grinding on the turning engine shaft, and this wears them down. This conventional technology has been successfully implemented a thousand times. However, it has the disadvantages of high brushes attrition as well as a larger and heavier construction. The suction turbine implemented in the newer hadewe models (for example Auroria and Veloria) is based on a technology without brushes. This method is also used in modern computer ventilators for example. The advantage is less attrition and significantly less weight.

Suction Turbine





Cleaning & Maintenance

A simple and fast maintenance of the most basic components is one of the important qualities of the hadewe handpieces. The chuck can be easily removed with the spanner tool delivered with every unit. Loosen the top of the handpiece, and then turn out the chuck. The whole procedure takes less than one minute.



Filter Classification M















The filter bags 5179 are classified as class M filters by the BIA (Germany's Health and Safety Institute for the work environment), meaning they have a dust retention capacity of 99,9%. We also offer conventional paper filters 5115 for our older models, but these are not to be used with the newer silent units.



Optional Foot Switch

Most of our units have an optional foot switch available. You can switch the units on and off by keeping the switch pressed, and further change between pre-selected memory settings, if applicable for the individual unit.

Signs & Symbols Of The Drill Features

	Spray Handpiece		Display Clock / Date
	Suction Handpiece		Display Info Filter Change / Last Inspection
	Light Handpiece		Memory Function For Preferred Speed Steps
	Extra Large Speed Display		Memory Function For Suction Steps
	Power Clamping System		Brushless Hand Piece Motor
	Easy-To-Clean		Brushless Suction Turbine
	Regular & Reverse Switch (left / right)		Foot Switch (optional)
	Micro Filter Class M (BIA)		Medical Device (conform to CE 0482)
	Noise Level 1 (very low)		Grayed-Out Icons = Feature Not Available
	Noise Level 2 (low)		
	Noise Level 3 (normal)		

Suction Unit Auroria MD

Super Silent Brushless Suction Unit with Light

This line of silent, low-weight hadewe units is setting a new standard for podiatry drills. Auroria is the first unit in this line, and it is equipped with many technical subtleties to ensure a secure and clean work.

The units have a brushless suction motor which is not only very silent, but also much lower in weight. It is a pleasure for your ears and your back.

There is a light source, which is directly implemented at the handpiece, and which allows for ideal work conditions even when the external light sources are insufficient.

You can save preferred pre-set speeds with the memory settings and use a knob, which is located at the end of the handpiece to access them directly.

Auroria MD is conform to the standards of a EU Medical Device product of class 2A (conform to 93/42/ECC, EN 600601-1).



HANDPIECE WITH LIGHT & INTEGRATED MEMORY KEY



EASY FILTER EXCHANGE



ULTRA-SILENT HIGH PERFORMANCE SUCTION



Control Unit	
Size in mm (incl. exterior parts)	W 273 x H 142 x D 186 B 313 x H 142 x D 235
Weight	2,7 kg
Suction Motor	Maintenance-free brushless suction motor
Voltage	230 V, 50 Hz, 200 W
Noise Level	49 db (A) min. – 55 dB (A) full throttle
Medical Device	Class 2A (conform to 93/42/EEC, EN 60601-1, CE 0482)
Carry Cases	Suitable for all hadewe carry cases

Handpiece	
Speed	6.000 - 40.000 rpm
Length	144 mm
Diameter	19 - 25 mm
Clamping System	hadewe Power Clamping
Handpiece Motor	Brushless
Weight	150 g

Price			
Art. No.	Description	Price Group	Price
0776	Auroria MD Suction Unit (Medical Device)	9	1.899,00 €
0970	Foot Switch	1	49,00 €
5179	Micro Filter (only!)	1	2,15 €

Features



Suction Handpiece



Speed



Noise Level



Power Clamping System



Light Handpiece



Touch-screen



Multimedia Support



Memory Function For Speed & Suction



Display Filter Change & Inspection



Foot Switch (optional)



Medical Device

Suction Unit **Auroria MD** in Detail

Speed

Choose speed between 6.000 and 40.000 rpm with keys + and -

Clean & Easy

Surface is resilient versus disinfection fluids and allows easy cleaning.



Memory Function

The unit has 3 memory keys with which you can easily save and access 3 different speed settings.

Suction Control

Adjust the suction setting via the UP and DOWN keys.

Useful Info

The display features useful info such as suction setting, current date and time, and indicates when it is time for a filter change or inspection.

Medical Device

The Auroria MD (Art. 0776) suction unit is a class 2A medical device.



Handpiece Holder

Open, easy to clean handpiece holder, that is directly attached to the unit.

Smart Key

The key allows to easily switch between preset speeds, or to turn the complete unit on/off.

Soft Knob

Insert instruments comfortably and without resistance thanks to the soft knob made out of elastomer (TPE).

Light At Handpiece

We are not leaving you in the dark. The powerful LED ensures the optimum illumination of the treatment space.



Suction Unit Veloria MD

Super Silent Brushless Suction Unit

This line of silent, low-weight hadewe units is setting a new standard for podiatry drills. Veloria MD is the second unit in this line, and it is equipped with a brushless suction motor, which is not only very silent, but also much lower in weight. It is a pleasure for your ears and your back. The handpiece is equipped with our patented clamping system.

The knob is now made out of TPE (thermo-plastic elastomer) to allow maximum comfort when using it. The powerful motor enables working at speeds of 6.000-40.000 rpm. Veloria's technology, clamping system and motor are the same as those of our other silent unit Auroria. Please see previous pages for more details.

Auroria MD features even more details like memory settings, control at the handpiece and a light source.

Veloria MD is conform to the standards of a EU Medical Device product of class 2A (conform to 93/42/ECC, EN 600601-1).



HANDPIECE WITH SUCTION



EASY FILTER EXCHANGE



ULTRA-SILENT HIGH PERFORMANCE SUCTION














Control Unit	
Size in mm (incl. exterior parts)	W 273 x H 142 x D 186 B 313 x H 142 x D 235
Weight	2,7 kg
Suction Motor	Maintenance-free brushless suction motor
Voltage	230 V, 50 Hz, 200 W
Noise Level	49 db (A) min. – 55 dB (A) full throttle
Medical Device	Class 2A (conform to 93/42/EEC, EN 60601-1, CE 0482)
Carry Cases	Suitable for all hadewe carry cases

Handpiece	
Speed	6.000 - 40.000 rpm
Length	144 mm
Diameter	19 - 25 mm
Clamping System	hadewe Power Clamping
Handpiece Motor	Brushless
Weight	150 g

Price			
Art. No.	Description	Price Group	Price
0775	Veloria MD Suction Unit (Medical Device)	9	1.749,00 €
0970	Foot Switch	1	49,00 €
5179	Micro Filter (only!)	1	2,15 €

Features

										
Suction Handpiece	Speed	Noise Level	Power Clamping System	Light Handpiece	Touch-screen	Multimedia Support	Memory Function For Speed & Suction	Display Filter Change & Inspection	Foot Switch (optional)	Medical Device

Suction Unit Helius 40 MD

Best Selling Medical Device Suction Unit

The best-selling Helius series is popular due to the easy handling of the units. The suction is very powerful, while an integrated labyrinth technology keeps the noise level under 59 dbA.

The handpiece motor has been constructed for long working hours, and the skin particles are removed via the effective point suction at the top of the handpiece. This allows for the optimal hygienic and effective work, which is required by podiatrists.

The Helius MD has a speed of up to 40.000 rpm and is certified as a class 2A EU-Medical Device unit for the professional medical podiatry field.
















Control Unit	
Size in mm (incl. exterior parts)	W 273 x H 142 x D 186 B 313 x H 142 x D 235
Weight	4,0 kg
Suction Motor	Motor with brushes (sound proof protection)
Voltage	240 V, 50 Hz, 550 W
Noise Level	< 59 dB (A)
Medical Device	Class 2A (conform to 93/42/EEC, EN 60601-1, CE 0482)
Carry Cases	Suitable for all hadewe carry cases

Handpiece	
Speed Helius 40	6.000 - 40.000 rpm
Length	148 mm
Diameter	17 - 22 mm
Clamping System	hadewe Power Clamping
Handpiece Motor	Brushless
Weight	148 g

Price			
Art. No.	Description	Price Group	Price
0949	Helius 40 MD Suction Unit (Mmedical Device)	1	1.499,00 €
0970	Foot Switch	1	49,00 €
5179	Micro Filter	1	2,15 €

Features

										
Suction Handpiece	Speed	Noise Level	Power Clamping System	Light Handpiece	Touch-screen	Multimedia Support	Memory Function For Speed & Suction	Display Filter Change & Inspection	Foot Switch (optional)	Medical Device

Spray Unit Hyperios⁴ MD Plus (Medical Device)

Medical Device for Professional Podiatrists

The Hyperios4 unit is equipped with a powerful light source at the top of the handpiece, which provides a pleasant work environment even under suboptimum light conditions. The fine hadewe Vaporizing Spray technology allows to work with spray liquids without alcohol additive (e.g. just with distilled water and our AquaHy concentrate), which protects the patient and especially the user in long hours of continuous work.

The speed of the modern brushless motor can be variably adjusted up to 40.000 rpm, and is shown in the unit's digital display. There are a couple of important functions to increase this spray unit's value for the user. The first is a rinsing function with which a strong stream of water is used to rinse off the remains of skin and nails. The second is a drying function, where air is used to dry the spot of a recent treatment.

An automatic cleaning function is used to prevent blockage in the spray nozzle. Handpiece and spray can be switched on and off (separately or both) with an optional foot switch. The Hyperios4 has a soothing blue light on the display and at the water tank. It furthermore has two memory keys, which allow you to preset and use 2 preferred speed settings. The unit is certified as a class 2A EU-Medical Device unit, and is our best-selling spray drill for the professional, medical podiatry field.



SPRAY HANDPIECE WITH LIGHT



MEMORY FUNCTION



REMOVABLE WATER TANK














Control Unit	
Size in mm (incl. exterior parts)	W 245 x H 133 x D 190 W 282 x H 133 x D 190
Weight	3,5 kg
Voltage	230 V, 50 Hz, 120 W
Spray System	hadewe Vaporizing Spray System (200 ml tank)
Functions	Memory, left/right, rinsing, drying & cleaning
Medical Device	Class 2A (conform to 93/42/EEC, EN 60601-1, CE 0482)
Carry Cases	Suitable for all hadewe carry cases

Handpiece	
Speed	6.000 - 40.000 rpm
Length	143 mm
Diameter	17 - 22 mm
Weight	145 g
Clamping System	hadewe Power Clamping
Light at Handpiece	Yes
Handpiece Motor	Brushless
Instrument Shaft Size	Ø 2,35 mm

Price			
Art. No.	Description	Price Group	Price
0586	Hyperios ⁴ MD Plus Spray Unit (Medical Device)	1	1.999,00 €
0970	Foot Switch	1	49,00 €
8555	AquaHy alcohol free Spray Fluid (100 ml concentrate = 5 l fluid)	1	19,90 €

Features

										
Spray Handpiece	Speed	Noise Level	Power Clamping System	Light Handpiece	Touch-screen	Multimedia Support	Memory Function For Speed	Display Washer Change Only	Foot Switch (optional)	Medical Device

Additional hadewe Medical Device & Product Information

Are the hadewe Medical Devices Class 2A Medical Devices?

Yes, hadewe is one of a handful of manufacturers who is actually producing MDs for the podiatry market in the European Union. Our whole company is audited and certified annually to ensure we meet the requirements of a Medical Device manufacturer in compliance with DIN EN ISO 13485 and 93/42/EEC. The individual MDs also have to run a lot of tests in external laboratories to meet the requirement of a Class 2A Medical Device. Make sure that you compare if other machines on the market really are declared as "Class 2A", because everything else is not the standard.

Which hadewe units are Medical Devices?

It is indicated in the individual product description which unit is a medical device, and which is not. Units of the current Helius, SB, Hyperios and SPR series are all medical devices. Aurora & Veloria are now offered as optional Medical Devices. All these medical devices have a CE 0482 certificate. Argos and smaller drills are not medical devices. They of course still have a CE certificate, but not with the medical device number.

What kind of tests is hadewe executing for Medical Device registration in Europe?

All hadewe Medical Device units are in compliance with the following standards:

- All tests regarding the safety are in compliance with IEC 60601-1.
- The electromagnetic compatibility is in compliance with IEC 60601-1-2
- The symbols and markings on our medical devices are in compliance with DIN EN ISO 15223
- The risk management is in compliance with DIN EN ISO 14971
- The Software is in compliance with DIN EN 62304 (VDE 750-101)
- The suitability for use is in compliance with IEC 60601-1-6
- The quality management system is in compliance with DIN EN ISO 13485 and 93/42/EEC

What are the GMDN codes for each hadewe product?

The **Global Medical Device Nomenclature (GMDN)** is a system of internationally agreed generic descriptors used to identify all medical device products, which we used in the past.

- Medical Devices have the GMDN Code MD 1104 for "Active surgical devices".
- Non-medical devices have no GMDN Code, because they are no medical devices.

What is the UMDNS number for the hadewe Medical Devices?

The **Universal Medical Device Nomenclature System (UMDNS)** is classification system to assign a code class for Medical Devices. hadewe presently only uses the UMDNS codes.

- hadewe units have the UMDNS code 11-177 Dermabrasion Units (Hautabschleifgerät)

What are the customs tariff codes for the hadewe products?

The 8-digit customs goods numbers for the most important hadewe products are:

- 90189084 Medical grinding machines
- 84679900 Parts for rotating grinding machines

Are hadewe machines Made In Germany?

Almost all of our products are manufactured in Hannover, Germany. Our family company has been in the production business for over 50 years. We have a manufacturing facility with CNC machines in which even most of our smaller spare parts are produced. The podiatry and dental machines themselves are also assembled in our building in Hannover.

Is hadewe an Authorized Economic Operator (AEO)?

Yes, we are an approved Authorized Economic Operator. The AEO concept is one of the main building blocks within the WCO (Worlds Customs Organisation), using the SAFE Framework of Standards (SAFE) to guide international Customs Administrations towards a harmonised approach.



What is the purpose of the use for each hadewe product?

- Medical Devices are used for drilling, grinding, milling, and trimming in order to remove diseased skin.
- Non-medical devices are used for drilling, grinding, milling, trimming and polishing in order to remove skin for cosmetic purpose.

How are the units cleaned or disinfected?

The hadewe devices are designed to be compatible with rotating instruments which do not penetrate the skin or mucosal, or inadvertently may still cause injuries. For this application the following cleaning and disinfection instructions have to be carried out after every treatment:

- Remove the rotating tool (e.g. bur, capper, etc.) first. Then handle the tool according to the manufacturer's instructions.
- Remove tissue remains by wiping off the unit with a mildly moistened paper cloth. Afterwards clean all surfaces with disinfection cloth (for example the German Mikrozid AF Tücher of Schülke and Mayr). There is no limit to the number of times this device can be cleaned and disinfected during its lifespan.

Which filter bags are hadewe recommending for the which application?

The **Bundesgenossenschaftliches Institut für Arbeitssicherheit (BIA)** in Sankt Augustin is the **German institute for Health and Safety in work environment**. Filter media used in dust removal machines (SBM) is tested in accordance to the SBM dust class DIN EN 60335-2-69 appendix AA. The maximum degree of permeability (of the lowest and highest filter surface load) decides whether a filter material is classified as L, M or H class.

5115: Paper filter recommended application: foot care salon, no pathogenic agent present dust retention capacity: 99% standard: BIA class L

5179: Micro fleece filter recommended application: hospital, podiatry/chiropractic dust retention capacity: 99,9% standard: BIA class M

Which method is used to measure the suction capacity?

There are many different ways to measure the suction capacity, ranging from measuring the water flow in liters per meter, or the air flow in meters per second.

The whole figure (regardless of the measuring technique) is rather difficult to compare. One company measures the flow starting at the handpiece, the other at the control unit exit or maybe even at the suction motor itself (which doesn't say anything at all, because the length and diameter of the suction tube is definitely influencing the suction capacity).

There have been market measurements ranging from between 4,5-8 m/sec, and from 188-280 l/m in the past, but these figures are unreliable and unrealistic, since no unified measuring technique has been created yet. Nor do we have any government guidelines for it. We therefore refrain from giving out any unrealistic figures at this point, and urge you to be careful when comparing such figures.

Which instruments does hadewe recommend for use with the drills?

Hadewe offers a supplement line of high-quality instruments made in Germany, and we strongly recommend using only these or similar high quality instruments with a shaft of Ø 2,35 mm.

Also make sure to uphold the following rules.

- Broken or deformed cutters and burs cause vibrations and lead to rough surfaces and high temperatures.
- Empty spaces on diamond instruments are indicating a missing abrasive grain, which in turn suggests a dull instrument. Using dull instruments leads to high temperatures and may cause damage on the tissue!
- Any bent and uneven/roughly running instruments must be sorted out immediately.
- Avoid using too much pressure by all means, since this may cause heightened temperature.

What is the recommended speed for burs and instruments?

The speed of an instrument is depending on the application it is used for. The maximum speed is further indicated on the manual and packaging label of the individual instrument. These separate manuals are overriding any instructions and recommendations listed here.

Some general speed recommendations:

- The bigger the instrument's head is, the lower the speed has to be!
- Recommendation (for example "max. 6.000 - 100.000 min⁻¹") means the instrument is suitable for micro motor handpieces (or turbines) up to the specified speed.
- When using instruments with a higher diameter than the shank diameter (especially large instruments, like cap polishers) high centrifugal forces can occur at higher speed. This could lead to bending of the shank and/or breaking of the instrument. For that reason never exceed the maximum speed indicated on the label.

How are the burs and instruments cleaned or disinfected?

The exact procedures of how to handle the instruments have to be followed from the **General Use & Safety Instructions For Rotating Podiatry Instruments** (manual) of each individual tool. The Adequate Use, Directions for Storing and Conditioning and the Recommended Procedure thereof are listed in the instrument's manual. These separate manuals are overriding any instructions and recommendations listed here.

Here are some general recommendations in regard to cleaning agents.

- The cleaning agent has to be aldehyde-free to prevent protein fixation on the material
- It has to be alkaline-based
- It has to be DGHM tested
- They should never be used in a chemical disinfectant
- They should not contain hydrogen peroxide
- The cleaning agent must never contain any chloride content or saline solutions (this will lead to corrosion)

Here are some general directions in regard to the material tolerance:

- Always use cleaning or disinfection agent with corrosion Protection (which is aldehyde-free, alkaline, and DGHM-tested)
- Polishers and corundum burs are to be conditioned with suitable alcohol-free agents
- Most instruments from the hadewe instrument catalogue are suitable for sterilization in an autoclave at 134°C or for hot air sterilization at 180°C. Exceptions are polishers and corundum burs, which may only be autoclaved at 134°C. The carriers (holders/retainers) of the cap polishers may only be sterilized in the autoclave's easy program at 121°C. The caps themselves and the polishing brushes may not be conditioned! They are disposable.
- The end of an instrument's life is defined by use and attrition.

Some recommended cleaning agents from German manufacturers are:

- Schuelke Rotasept
- Komet Dental DC1

hadewe

beauty & medical equipment



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Repair Service	service@hadewe.de
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The export distribution of hadewe units is handled by our export partners in the individual countries. This distribution includes consultation, sale of units and supplies, repair handling and after sale service.

The prices listed in this export distributor catalogue are our suggested retail prices for EU-countries. Please ask your hadewe dealer for the actual prices including tax, freight, customs and other surcharges. Technical specifications and prices are subject to change without prior notice.