

Instructions for use



CE
0297

proxeo^{TWIST}

PL-40 H

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Symbols



WARNING!
(risk of injury)



CE mark
with identification number
of the Notified Body



Not for re-use



ATTENTION!
(to prevent damage occurring)



Medical device



Non-ionizing electromagnetic
radiation



General explanations,
without risk to persons or
objects



Thermo washer disinfectable



Catalogue number



Follow instructions for use



Sterilizable
up to the stated temperature



Serial number



Manufacturer



Non-sterilizable



DC – direct current



Date of manufacture



Class II medical
electrical equipment



Do not dispose of with domestic
waste

Symbols



Not suitable for intracardiac application – Type BF appliance



Data Matrix code for product information including UDI (Unique Device Identification)



Data structure in accordance with Health Industry Bar Code



This way up



Fragile, handle with care



Keep dry



MEDICAL – GENERAL MEDICAL EQUIPMENT AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH ANSI/AAMI ES60601-1:2005/(R)2012 + A1:2012 + C1:2009/(R)2012 + A2:2010/(R)2012, ANSI/AAMI ES60601-1:2005/A2:2021, CAN/CSA-C22.2 No. 60601-1:14, CAN/CSA-C22.2 No. 60601-1:14/A2:22, IEC 80601-2-60:2019. 25UX – Control No.



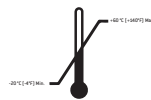
“Der Grüne Punkt” (The Green Dot) trademark of Duales System Deutschland GmbH



Trademark of RESY OfW GmbH for identification of recyclable transport and outer packaging of paper and cardboard



Caution! According to Federal law restricts this device to sale by or on the order of a physician, dentist, veterinarian or with the descriptive designation of any other practitioner licensed by the law of the State in which the practitioner practices to use or order the use of the device.



Temperature limitation



Humidity limitation

Symbols



RCM – Australian / New Zealand



ANATEL – Brazil

12880-20-03402



R 209 - J00204

GITEKI (MIC) – Japan

Contains FCC ID: 000BGM113
Contains IC: 5123A-BGM113

FCC / IC – USA / Canada

1. Introduction

For your safety and the safety of your patients

These Instructions for Use explain how to use your medical device. However, we must also warn against possible hazardous situations. Your safety, the safety of your team and, of course, the safety of your patients are of paramount importance to us.



Observe the safety notes.

Intended use

PL-40 H: Battery driven electrical drive unit with wireless foot controller to perform cleaning and polishing of tooth surfaces and fillings.



Misuse may damage the medical device and hence cause risks and hazards for patient, user and third parties.



Qualifications of the user

We have based our development and design of the medical device on the target group “dentist, dental hygienist, dental employees (prophylaxis) and dental assistants”.

Introduction

Hereby, W&H declares that the medical device is in compliance with Directive 2014/53/EU (RED).

The full text of the EU declaration of conformity is available at the following internet address <https://wh.com>

Responsibility of the manufacturer

The manufacturer can only accept responsibility for the safety, reliability and performance of the medical device when it is used in compliance with the following directions:

- > The medical device must be used in accordance with these instructions for use.
- > Only the components approved by the manufacturer may be replaced (O-ring).
- > Modifications or repairs must only be undertaken by an authorized W&H service partner (see page 49).
- > The electrical installation at the premises must comply with the regulations laid out in IEC 60364-7-710 (“Installation of electrical equipment in rooms used for medical purposes”) or with the regulations applicable in your country.
- > Unauthorized opening of the medical device invalidates all claims under warranty and any other claims.

Improper use, unauthorized assembly, modification or repair to the medical device, non-compliance with our instructions or the use of accessories and spare parts which are not approved by W&H, invalidates all claims under warranty and any other claims.



Any serious incident that has occurred in relation to the medical device should be reported to the manufacturer and the competent authority!

2. Scope of delivery

REF	Description
30317000	Handpiece drive
07969610	Charger with adaptor
05882600	Handpiece holder

Optional included in set

30316000	Foot control C-NW with Stick
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3. Safety notes



- > Before using the medical device for the first time, store it at room temperature for 24 hours.
- > Check the medical device for damage and loose parts each time before using.
- > Do not operate the medical device if it is damaged.
- > Always ensure that the correct operating conditions are provided.
- > Perform a test run each time before using.
- > Never touch the patient and the electrical contacts on the medical device simultaneously.
- > Only put the medical device into operation when the handpiece sleeve is attached.



- > Do not expose the medical device to any violent mechanical impacts.

Battery




- > Do not charge the battery unattended.
- > As soon as the charging cycles start to deteriorate send the medical device to an authorized W&H service partner.
- > Defective or worn-out batteries must only be replaced by an authorized W&H service partner.





- > Charge the battery of the medical device as soon as the status LED flashes.
- > Incorrect use of the rechargeable battery can cause fire or corrosion.


Safety notes

 The medical device is classed as “conventional equipment” (closed equipment without protection against the ingress of water).

 The medical device is not approved for operation in potentially explosive atmospheres.

 **Charger**
> Only use chargers approved by W&H.

 **Hygiene and maintenance prior to initial use**
> Clean and disinfect the medical device.
> Sterilize the handpiece sleeve.

 **System failure**
A total system failure does not constitute a critical fault.
Simply switch the unit off and then on again.

Safety notes

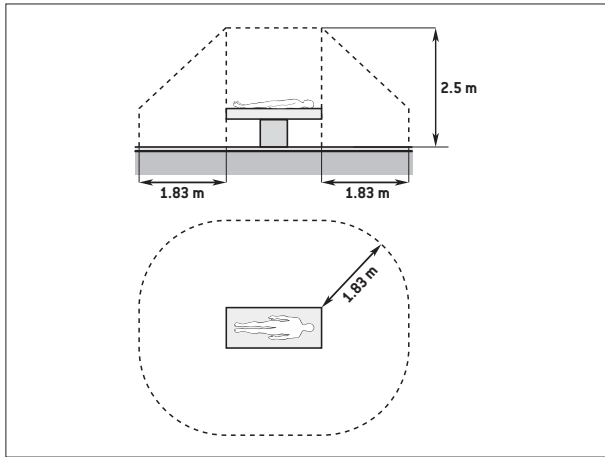


Risks due to electromagnetic fields

This medical device is suitable for use on patients with cardiac pacemakers, if a safety distance between the medical device and the cardiac pacemaker of at least 15 cm (5,9 inch) is maintained. The functionality of other active implantable medical devices (AIMD) (e.g. ICD) can be affected by electric, magnetic and electromagnetic fields.

- > Find out if the patient has other active implantable medical devices (AIMD) before using the medical device and inform about the risks.
- > Do not place the applied part on the patient's body.

Safety notes



The patient environment (see diagram) encompasses the area up to 2.50 m above the patient and 1.83 m in all horizontal directions.



The charger must not be used within the patient environment.



The Prophy Angles are disposable articles.



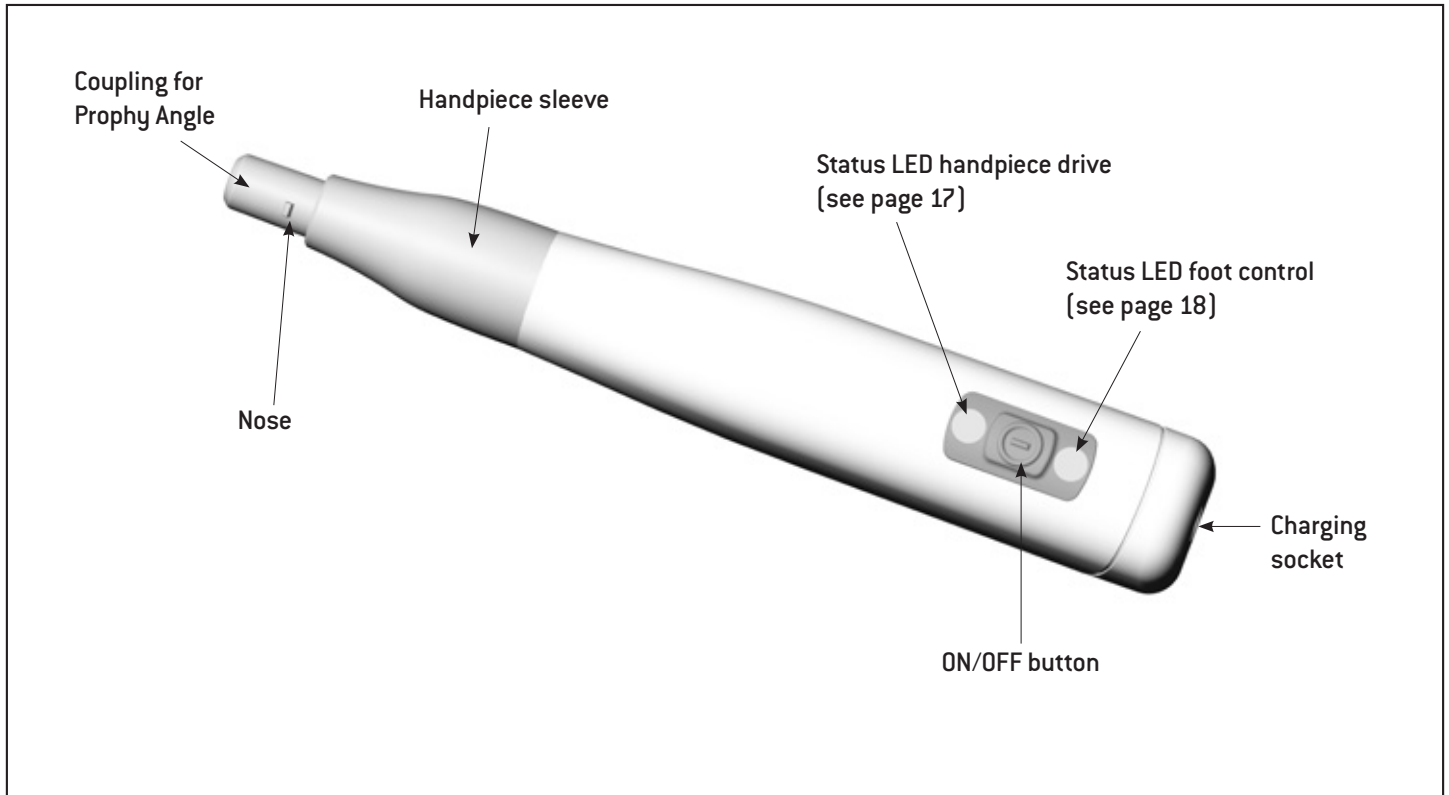
- > Use only Prophy Angles which are in perfect condition. Follow the operating instructions of the manufacturer.
- > Insert the Prophy Angle only when the medical device is stationary.
- > Never touch the Prophy Angle while it is still rotating.

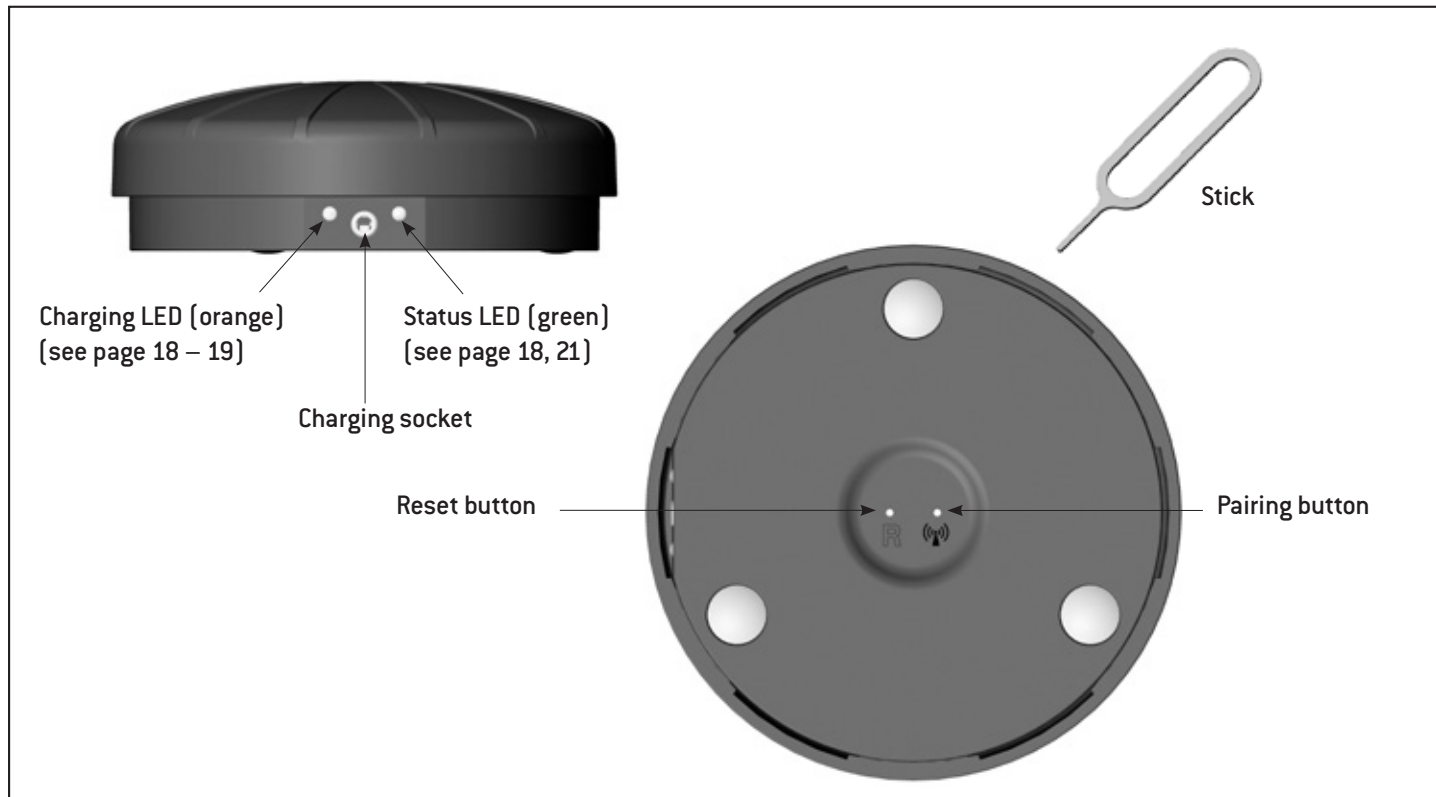


- > Only use Prophy Angles with plastic shanks for the Doriot system.
Prophy Angles with metal shanks damage the clamping chuck system.

4. Description

Handpiece drive







Description

Status LED handpiece drive





Standby mode

- > The handpiece can be activated with the ON/OFF button.
- > If the handpiece drive is not used for longer than 4 minutes, it returns to standby mode automatically.

LED	steady	flashes	flashes intermittently
			
GREEN	<ul style="list-style-type: none"> → Battery is 25–100 % charged → Pairing successful > Handpiece drive is ready for operation (charging cable must be disconnected) 	<ul style="list-style-type: none"> → Pairing active 	
ORANGE	<ul style="list-style-type: none"> → Battery is charging > Not ready for operation 	<ul style="list-style-type: none"> → Battery is 2–25 % charged > Complete the treatment > Do not start any further treatment > Charge the battery 	<ul style="list-style-type: none"> → Battery is 1 % charged > Charge the battery
RED		<ul style="list-style-type: none"> → Error message > Contact an authorised W&H service partner 	

Description





Status LED foot control

LED	flashes	flashes alternately
		
ORANGE	<ul style="list-style-type: none"> → Battery of foot control is flat > Complete the treatment > Charge the battery of the foot control 	<ul style="list-style-type: none"> → Pairing unsuccessful > Troubleshooting with pairing problems (see page 22)



Standby mode


> The foot control can be activated by pressing.

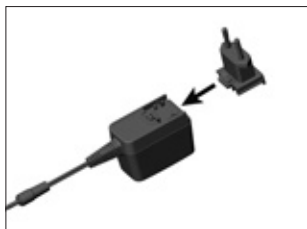
LED	steady	steady	flashes	flashes intermittently*
				
GREEN	→ Connection to paired medical device established		→ Foot control is attempting to establish a connection to the paired medical device	→ Battery is flat > Charge the battery
ORANGE		→ Battery is charging		

* The LED flashes for 40 milliseconds every 4 seconds

5. Start-up

Charging the battery

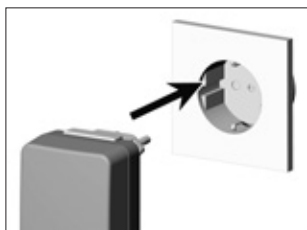
 Charge the medical device fully before you use them for the first time.



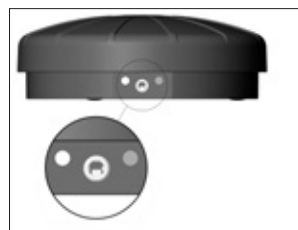
- 1** Attach the adaptor to the power supply unit.





- 4** Connect the charging cable into the foot control charging socket.

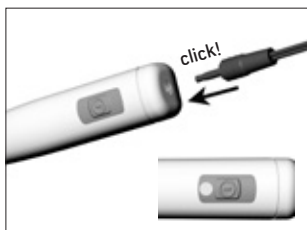


- 2** Plug the charger into an power socket.





 LED orange: Battery is charging.

 LED off: Battery is charged.



- 3** Insert the charging cable into the handpiece drive charging socket until it audibly engages.

 LED orange: Battery is charging.
LED green: Battery is charged.


 The handpiece drive does not switch to standby mode and it is not ready for operation until it is connected to the charging cable.




You can query the battery status when the handpiece drive is switched on and during the charging process.

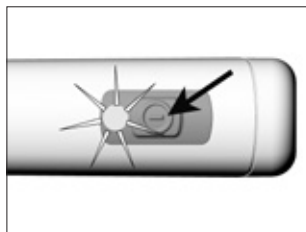


> Briefly press the ON/OFF button:


LED	flashes	Battery status
		
	3 x green	75–100 %
	2 x green	50–75 %
	1 x green	25–50 %
	orange	2–25 %

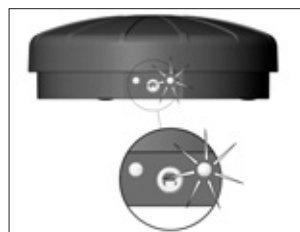
 The foot control and handpiece drive are already paired when delivered!
If pairing is active: Status LED (green) flashes on the foot control.


- > Both devices need to be in pairing mode for it to be possible to pair the handpiece drive and foot control.
- > To activate the handpiece drive's pairing mode, place it in the vicinity of the foot control.

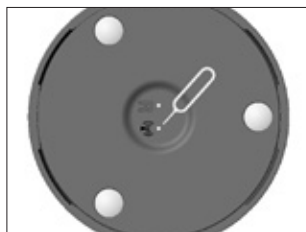


1 Press the ON/OFF button on the handpiece drive for 5 seconds.

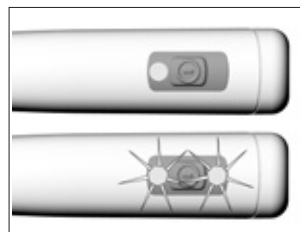
 LED flashing green: The handpiece drive is in pairing mode for 30 seconds.





 After 3 seconds the status LED switches from flickering to flashing. The foot control's pairing mode is now activated.



2 Use the stick to press the pairing button on the foot control for 3 seconds.



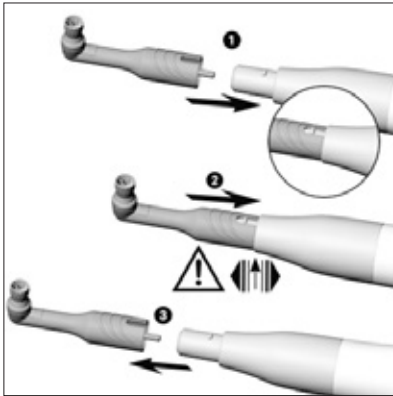
 Pairing successful. LED green.

 Pairing unsuccessful. LED flashing alternately orange. The LED goes out after 10 seconds.

Troubleshooting with pairing problems

- > Remove any metallic objects located between the foot control and handpiece drive.
- > Change the position of the foot control.
- > Eliminate any sources of interference (e.g. brush motors, mobile telephones, radios, WLAN, ...)
- > Use the stick to press the reset button on the foot control and try pairing again.

If the pairing problem cannot be remedied using the steps described above, the unit will need to be inspected by an authorized W&H service partner.



Prophy Angle Cup or Brush

- 1 Position the groove on the Prophy Angle with the nose of the handpiece drive.
- 2 Push the Prophy Angle onto the handpiece drive until the limit stop.

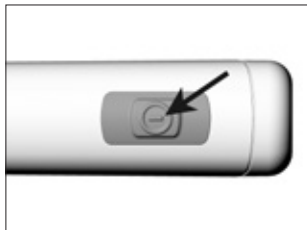


Verify full engagement.

- 3 Hold the handpiece sleeve firmly. Remove the Prophy Angle.

6. Handpiece drive

Switch on/off





Switch on

- 1 Press the ON/OFF button.

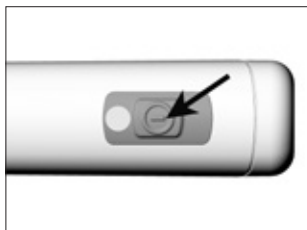


- 2 Press the foot control to variably control the speed of the disposable contra-angle handpiece.

 Press the foot control as far as it will go to attain the maximum speed of 3,000 rpm.

 The following light signals are shown on the foot control:

Foot control pressed	
Status LED (green) flashes	Foot control is attempting to establish a connection to the paired medical device
Status LED (green) steady	Connection to paired medical device established



Switch off

- 1 Keep the ON/OFF button depressed for 2 seconds.



Do not hold the handpiece drive at eye level!

- > Attach the Prophy Angle to the handpiece drive.
- > Operate the handpiece drive with the foot control.



In the event of operating malfunctions (e.g., vibrations, unusual noise, overheating) **stop the medical device immediately** and contact an authorized W&H service partner.



Follow your local and national laws, directives, standards and guidelines for cleaning, disinfection and sterilization.



> Wear protective clothing, safety glasses, face mask and gloves.



Cleaning agents and disinfectants

- > Read the notes, follow the instructions and heed the warnings provided by the manufacturers of cleaning agents and/or disinfectants.
- > Use only detergents which are intended for cleaning and/or disinfecting medical devices made of metal and plastic.
- > It is imperative to comply with the concentrations and exposure times specified by the manufacturer of the disinfectant.
- > Use disinfectants which have been tested and found effective by the Verbund für Angewandte Hygiene e.V. (VAH = Association for Applied Hygiene), the Österreichischen Gesellschaft für Hygiene, Mikrobiologie und Präventivmedizin (ÖGHMP = Austrian Society for Hygiene, Microbiology and Preventive Medicine), the Food and Drug Administration (FDA) and the U.S. Environmental Protection Agency (EPA).
- > The user is responsible for validating its process if the specified cleaning agents and disinfectants are not available.



The product lifetime and the medical device's ability to operate correctly are mainly determined by mechanical stress during use and chemical influences due to processing.

- > Send worn or damaged medical devices and/or medical devices with material changes to an authorized W&H service partner.



Processing cycles

- > We recommend to replace the handpiece sleeve after 600 processing cycles.



- > Clean the medical device immediately after every treatment.
- > Wipe the entire handpiece drive, the handpiece sleeve and the handpiece holder with disinfectant.



- > Ensure that no fluids enter the medical device.



- > Switch the handpiece drive off.
- > The charger must not be connected.



- > Note that the disinfectant used during pre-treatment is only for personal protection and cannot replace the disinfection step after cleaning.



- > Do not place the handpiece drive, the handpiece sleeve and the handpiece holder in liquid disinfectant or in an ultrasonic bath.
- > Do not immerse the handpiece drive in water or clean them under running water.



Evidence of the handpiece drive's basic suitability for effective manual cleaning was provided by an independent test laboratory using tap water < 35°C and towels/cloth »WIPEX[®] WET DESI premium« (NORDVLIES GmbH, Bargteheide).

Handpiece sleeve / Handpiece holder

- > Clean the handpiece sleeve and the handpiece holder under running tap water (< 35°C / < 95°F).
- > Rinse and brush off all internal and external surfaces.
- > Remove any liquid residues using compressed air.



> W&H recommends wiping down with disinfectant.



Evidence of the basic suitability of the handpiece drive, the handpiece sleeve and the handpiece holder for effective manual disinfection was provided by an independent test laboratory using the “mikrozid® AF wipes” disinfectant (Schülke & Mayr GmbH, Norderstedt) and “CaviWipes™” (Metrex).

Handpiece sleeve



W&H recommends automated cleaning and disinfection using a washer-disinfector (WD).

Read the notes, follow the instructions and heed the warnings provided by the manufacturers of washer-disinfectors, cleaning agents and/or disinfectants.



> The handpiece drive and the handpiece holder are not approved for automated processing in a washer-disinfector and sterilization.



Evidence of the handpiece sleeve's basic suitability for effective automated disinfection was provided by an independent test laboratory using the "Miele PG 8582 CD" washer-disinfector (Miele & Cie. KG, Gütersloh) and the "Dr. Weigert neodisher® MediClean forte" cleaning agent (Dr. Weigert GmbH & Co. KG, Hamburg).

- > Cleaning at 55°C (131°F) – 5 minutes
- > Disinfection at 93°C (200°F) – 5 minutes



- > Ensure that the medical device is completely dry internally and externally after cleaning and disinfection.
- > Remove any liquid residues using compressed air.



- > Check the medical device after cleaning and disinfection for damage, visible residual soiling and surface changes.
- > Reprocess any medical devices that are still soiled.
- > Sterilize the handpiece sleeve following cleaning and disinfection.

Handpiece sleeve



Pack the handpiece sleeve in sterilization packages that meet the following requirements:

- > The sterilization package must meet the applicable standards in respect of quality and use and must be suitable for the sterilization method.
- > The sterilization package must be large enough for the sterilization goods.
- > The filled sterilization package must not be under tension.

Handpiece sleeve



W&H recommends sterilization according to EN 13060, EN 285 or ANSI/AAMI ST55.



- > Read the notes, follow the instructions and heed the warnings provided by the manufacturers of steam sterilizers.
- > The program selected must be suitable for the handpiece sleeve.

Recommended sterilization procedures

- > “Dynamic-air-removal prevacuum cycle” (type B) / “Steam-flush pressure-pulse cycle” (type S)
134°C (273°F) for at least 3 minutes, 132°C (270°F) for at least 4 minutes
- > Maximum sterilization temperature 135°C (275°F)



Evidence of the handpiece sleeve's basic suitability for effective sterilization was provided by an independent test laboratory using the LISA 517 B17L* steam sterilizer (W&H Sterilization S.r.l., Brusaporto (BG)) and the Systec VE-150* steam sterilizer (Systec).

“Dynamic-air-removal prevacuum cycle” (type B): 134°C (273°F) – 3 minutes*, 132°C (270°F) – 4 minutes*/**
“Steam-flush pressure-pulse cycle” (type S): 134°C (273°F) – 3 minutes*, 132°C (270°F) – 4 minutes*/**

Drying times:

“Dynamic-air-removal prevacuum cycle” (type B): 132°C (270°F) – 30 minutes**
“Steam-flush pressure-pulse cycle” (type S): 132°C (270°F) – 30 minutes**

* EN 13060, EN 285, ISO 17665

** ANSI/AAMI ST55, ANSI/AAMI ST79

Handpiece sleeve

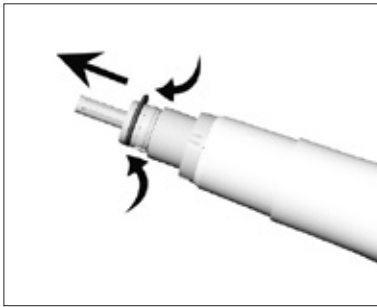


- > Store sterile goods dust-free and dry.
- > The shelf life of the sterile goods depends on the storage conditions and type of packaging.

8. Replacing the O-ring



Do not use sharp tools!



- ① Pull the handpiece sleeve off the handpiece drive.
- ② Squeeze the O-ring between your thumb and index finger firmly so that it forms a loop.
- ③ Pull the old O-ring off.
- ④ Push the new O-ring on in its place.

9. Servicing



Periodic inspection

Regular periodic inspection of the function and safety of the medical device is necessary and should be carried out at least once every three years, unless shorter intervals are prescribed by law. The periodic inspection covers the complete medical device and must only be performed by an authorized service Partner.

Servicing

Repairs and returns

In the event of operating malfunctions immediately contact an authorized W&H service partner.
Repairs and maintenance work must only be undertaken by an authorized W&H service partner.



> Ensure that the medical device has been completely processed before returning it.



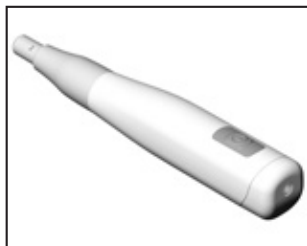
> Always return equipment in the original packaging!

10. Accessories, consumables, spare parts and other recommended medical devices by W&H



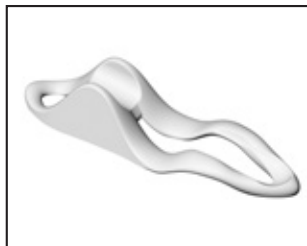
Use only original W&H accessories and spare parts or accessories approved by W&H.

Supplier: W&H partners



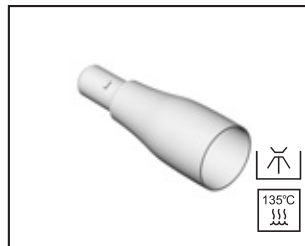
07954780

Handpiece drive



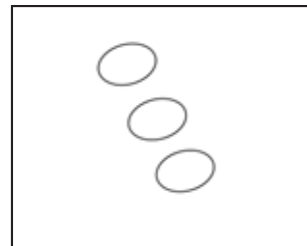
05882600

Handpiece holder



07918800

Handpiece sleeve



02695700

O-ring (3 pcs)



07969610

Charger incl. adaptor



30316000

Foot control C-NW
with Stick



07979710

Prophy Angle Cup, 105°,
firm / dark green (100 pcs)



07994950

Prophy Angle Cup, 105°,
soft / apple green (100 pcs)

11. Technical data

Ambient conditions

Temperature during storage and transport:	-20°C bis +60°C [-4°F to +140°F]
Humidity for storage and transport:	8% to 80% [relative], non-condensing
Temperature in operation:	+10°C to +35°C [+50°F to +95°F]
Humidity in operation:	15% to 80% [relative], non-condensing

Handpiece drive	PL-40 H
Battery type:	Li-Ion
Runtime:	8 treatments with a polishing duration of 6 min.
Standby:	automatically after 4 min.
Charging time:	approx. 2 h
Rated voltage:	3.7 V
Rated capacity:	680 mAh
Max. speed	3,000 rpm
Maximum torque:	2 Ncm
Dimensions (WxDxH):	160 x 25 x 28 mm
Weight:	118 g

Technical data

Frequency band:	2.4 GHz ISM band (2,402 – 2,480 GHz)
Transmitting power:	3 dBm
Modulation:	GFSK
Channels:	40 channels with 2 MHz spacing

Charger	
Rated voltage:	100 - 240 V
Permissible voltage fluctuation:	$\pm 10 \%$
Frequency:	50 – 60 Hz
Power:	7 VA

Technical data

Classification according to Paragraph 6 of the General Specifications for the Safety of Medical Electrical Equipment according to IEC 60601-1/ANSI/AAMI ES 60601-1



Charger: Class II medical electrical equipment (protective earth conductor used for functional earth connection only!)

Handpiece drive: Internally powered



Type BF applied part (not suitable for intracardiac application)

Pollution level: 2
Overvoltage category: II
Altitude: up to 3,000 m above sea level



Temperature information

Temperature of the handpiece at the operator side: max. 55°C (max. 131°F)
Temperature of the handpiece at the patient side: max. 50°C (max. 122°F)

12. Data on electromagnetic compatibility according to IEC/EN 60601-1-2



Operating environment and EMC warning notes

This medical device is neither life-sustaining nor coupled to the patient. It is suitable for operation both in domestic healthcare and in facilities used for medical purposes except rooms/areas, in which EMC interference of high-intensity may occur. The customer and/or the user should assure that this medical device is set up and used in an environment of the specified type and/or in accordance with the specifications of the manufacturer. This medical device uses RF energy only for its internal functions. Therefore, its RF emissions are very low and not likely to cause any interference in nearby electronic equipment.

No special precautions are necessary to maintain the basic safety and essential performance of this medical device



Essential performance

This medical device has no critical functions and therefore does not have any essential performance features.

Data on electromagnetic compatibility according to IEC/EN 60601-1-2



RF communication equipment

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to the medical device. Otherwise, degradation of the performance of this medical device could result.



W&H guarantees the compliance of the device with the EMC requirements only when used with original W&H accessories and spare parts. The use of accessories and spare parts not approved by W&H can lead to an increased emission of electromagnetic interference or to a reduced resistance against electromagnetic interference.



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



The medical device is not intended for use in the vicinity of HF surgical devices.

Results of the electromagnetic tests

Requirement	Class / Test Level*		
Electromagnetic emissions			
Mains terminal disturbance voltage (Conducted Emissions) CISPR 11/EN 55011 [150 kHz – 30 MHz]	Group 1 Class B		
Electromagnetic radiation disturbance (Radiated Emissions) CISPR 11/EN 55011 [30 MHz – 1000 MHz]	Group 1 Class B		
Harmonic distortion IEC/EN 61000-3-2	Class A		
Voltage fluctuations and flicker IEC/EN 61000-3-3	–		
Immunity to electromagnetic interference			
Electrostatic discharge (ESD) IEC/EN 61000-4-2	Contact discharge: ± 2 kV, ± 4 kV, ± 6 kV, ± 8 kV Air discharge: ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV		
Radiated RF electromagnetic fields IEC/EN 61000-4-3 [80 MHz – 2.7 GHz]	10 V/m		
Proximity fields from RF wireless communications equipment IEC/EN 61000-4-3	710 / 745 / 780 / 5240 / 5500 / 5785 MHz		9 V/m
	385 MHz		27 V/m
	450 / 810 / 870 / 930 / 1720 / 1845 / 1970 / 2450 MHz		28 V/m
Electrical fast transients / bursts IEC/EN 61000-4-4	Mains supply: ± 2 kV		
Surges IEC/EN 61000-4-5	± 1 kV L – N	± 2 kV L – PE	± 2 kV N – PE
Conducted disturbances induced by RF fields IEC/EN 61000-4-6	3 V 6 V in ISM bands and in amateur radio bands		
Power frequency magnetic fields IEC/EN 61000-4-8	30 A/m		
Voltage dips, short interruptions and voltage variations IEC/EN 61000-4-11	0% for 0.5 cycle at 45° steps from 0°-315° 0% for 1 cycle 70% for 25/30 cycles 0% for 250/300 cycles		
Proximity magnetic fields IEC/EN 61000-4-39	30 kHz		8 A/m
	134.2 kHz		65 A/m
	13.56 MHz		7.5 A/m

* There are no deviations or simplifications to IEC/EN 60601-1-2.

13. Disposal



Ensure that the parts are not contaminated on disposal.



Follow your local and national laws, directives, standards and guidelines for disposal.

- > Medical device
- > Waste electrical equipment
- > Packaging

Explanation of warranty terms

This W&H medical device has been manufactured with great care by highly qualified specialists. A wide variety of tests and controls guarantees faultless operation. Please note that claims under warranty can only be validated when all the directions in the Instructions for Use have been followed.

As the manufacturer, W&H is liable for material or manufacturing defects within a warranty period of 12 months from the date of purchase. Accessories and consumables (handpiece holder, stick) are excluded from the warranty.

We accept no responsibility for damage caused by incorrect handling or by repairs carried out by third parties not authorized to do so by W&H!

Claims under warranty accompanied by proof of purchase must be sent to the vendor or to an authorized W&H service partner. The provision of service under warranty extends neither the warranty period nor any other guarantee period.

12 months warranty

Authorized W&H service partners

Find your nearest authorized W&H service partner at <http://wh.com>
Simply go to the menu option “Service” for full details.

Or simply scan the QR code.





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