







Contra-angle handpieces with light WE-56 LED G, WE-66 LED G, WE-99 LED G

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Symbols

in the Instructions for use







General explanations, without risk to persons or objects



Do not dispose of with domestic waste



CE marking with identification number of the Notified Bodu



DataMatrix Code for product information including UDI (Unique Device Identification)



Data structure in accordance with Health Industry Bar Code



Catalogue number



Thermo washer disinfectable



Sterilizable up to the stated temperature



Serial number



UL Component Recognition Mark indicates compliance with Canadian and U.S. requirements



Date of manufacture



Ronly sold by or on the order of a dentist, physician or any other medical Caution! According to Federal law, this medical device may only be practitioner licensed by the law of the State in which he or she practices and who intends to use or order the use of this medical device

1. Introduction

Customer satisfaction has absolute priority in the W&H quality policy. This medical device has been developed, manufactured and subjected to final inspection according to legal regulations, quality and industry standards.

For your safety and the safety of your patients

Prior to initial use please read the Instructions for use. These explain how to use your medical device and guarantee a smooth and efficient operation.



Observe the safety notes.

Intended use

The dental straight/contra-angle handpiece is intended for the following applications: Removal of decayed materials, cavities and crown preparation, removal of fillings, finishing and polishing of tooth and restoration surfaces.



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 \gg dentists, dental hygienists, dental employees (prophylaxis) and dental assistants« target group.

Production according to EU Directive

1297 The medical device meets the requirements of Directive 93/42/EEC.

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.
- > The medical device has no components that can be repaired by the user.
- Modifications or repairs must only be undertaken by an authorized W&H service partner (see page 43).

Skilled application

The medical device is intended only for skilled application according to the intended use as well as in compliance with the valid health and safety at work regulations, the valid accident prevention regulations and in compliance with these Instructions for use.

The medical device should be prepared for use and maintained by staff who have been trained in procedures for infection control, personal safety and patient safety.

Improper use, (e.g., through poor hygiene and maintenance), 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.

2. Safety notes General



- > Always ensure the correct operating conditions and cooling function.
- > Always ensure that sufficient and adequate cooling is delivered and ensure adequate suction.
- > In case of coolant supply failure, the medical device must be stopped immediately.
- > Use only filtered, oil-free and cooled air supplied by dental compressors to operate the medical device.
- > Check the medical device for damage and loose parts each time before using (e.g., push-button).
- > Do not operate the medical device if it is damaged.
- > Perform a test run each time before using.
- > Avoid overheating at the treatment site.
- > Do not touch the soft tissue with the head of the medical device. Risk of burning if the medical device overheats!
- > Run the rinse function for the dental unit once per day.
- > Do not use the medical device as a light probe.
- > Do not look directly into the LED.
- > Avoid contact between LED and soft tissue (risk of burning due to the LED heating up).

2. Safety notes General



> Before using the medical device for the first time, store it at room temperature for 24 hours.

> The operation of the medical device is permitted only on supply units which correspond to the standards IEC 60601-1 [EN 60601-1] and IEC 60601-1-2 [EN 60601-1-2].



The light is only available from a motor speed of 9,000 rpm.





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

Risks due to electromagnetic fields



The functionality of implantable systems, such as cardiac pacemakers and ICD (implantable cardioverter defibrillator) can be affected by electric, magnetic and electromagnetic fields.

- > Find out if patient and user have implanted systems before using the medical device and consider the application.
- > Weigh the risks and benefits.
- > Keep the product away from implanted systems.
- > Make appropriate emergency provisions and take immediate action on any signs of ill-health.
- > Symptoms such as raised heartbeat, irregular pulse and dizziness can be signs of a problem with a cardiac pacemaker or ICD (implantable cardioverter defibrillator).

Hygiene and maintenance prior to initial use

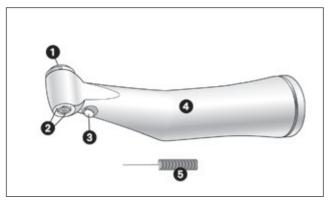


- > The medical device is sealed in PE film and not sterilized when delivered.
- > The PE film and the packaging are non-sterilizable.



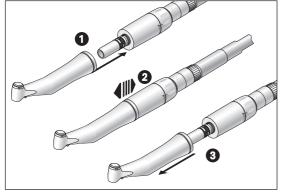
- Clean, disinfect and lubricate the medical device.Sterilize the medical device.

3. Product description



- 1 Push-button
- Spray nozzle
- 3 LED
- 4 Sheat
- 6 Nozzle cleaner

4. Operation Assembly/Removal





Do not assemble or remove the medical device during operation!

Push the medical device onto the motor.



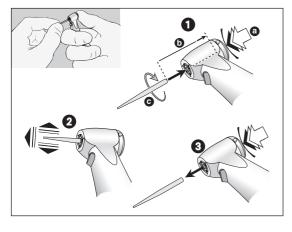
2 Verify full engagement.

Remove the medical device.

Rotary instruments



- > Use only rotary instruments which are in perfect condition. Follow the operating instructions of the manufacturer.
- > Insert the rotary instrument only when the medical device is stationary.
- > Never touch the rotary instrument while it is still rotating.
- > Do not activate the chucking system of the medical device during operation. This leads to detachment of the rotary instrument, damage to the chucking system and/or heating up of the medical device. Risk of burning!
- > Do not lift the cheek or tongue with the contra-angle head. Risk of burning due to the push-button heating up!



To change rotary instruments

 Rotary instrument shank ø 1.6 mm: Insert rotary instrument.

Activate the push-button (a) and at the same time insert the rotary instrument until it reaches the limit stop (b).

Rotary instrument shank ø 2.35 mm:

Activate the push-button (a) and at the same time insert the rotary instrument and turn it until it snaps into place (c).



Verify full engagement.

Remove the rotary instrument by pushing the push-button.

Test run



Do not hold the medical device at eye level.

- Insert the rotary instrument.
- Operate the medical device.



In the event of operating malfunctions (e.g., vibrations, unusual noise, overheating, coolant failure or leakage) 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.



> Use only oil-free, filtered compressed air with a maximum operating pressure of 3 bar for manual drying.

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 a regular service for the W&H medical device after 1,000 processing cycles or one year.



Clean the medical device immediately after every treatment, to flush out any liquid (e.g., blood, saliva etc.) and to prevent settling on the internal parts.

- > Operate the medical device for at least 10 seconds at idle speed.
- > Ensure that all coolant outlets are rinsed out.



- > Wipe the entire surface of the medical device with disinfectant.
- > Remove the rotary instrument.
- > Remove the medical device.

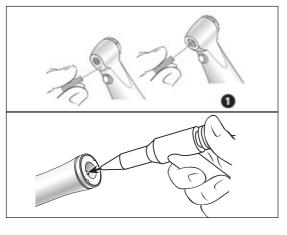


Note that the disinfectant used during pre-treatment is only for personal protection and cannot replace the disinfectant step after cleaning.



Do not place the medical device in liquid disinfectant or in an ultrasonic bath.

- > Clean the medical device under running tap water (< 35°C / < 95°F).
- > Rinse and brush off all internal and external surfaces.
- > Move moving parts back and forth several times.
- > Remove any liquid residues using compressed air.



Clean spray nozzles

Clean coolant outlets carefully with the nozzle cleaner to remove dirt and deposits.



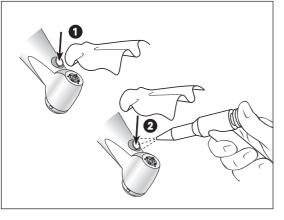
The nozzle cleaner can be cleaned in an ultrasonic bath and/or in the washer-disinfector.

Cleaning the coolant tube

> Blow through the coolant tube using compressed air.



In the case of blocked coolant outlets or coolant tubes contact an authorized W&H service partner.



Cleaning the optic outlet



Avoid scratching the optic outlet!

- Wash the optic outlet with cleaning fluid and a soft cloth.
- Blow the optic outlet dry using compressed air or dry it carefully with a soft cloth.



- > Carry out a visual inspection after each cleaning process.
- > Do not use the medical device if the optic outlet is damaged and contact an authorized W&H service partner.



W&H recommends mechanical cleaning and lubrication with W&H Assistina 3x3.

> Follow the instructions in the Assistina Instructions for use.



W&H recommends wiping down with disinfectant.



Evidence of the medical device's basic suitability for effective manual disinfection was provided by an independent test laboratory using the »mikrozid® AF wipes« disinfectant (Schülke & Mayr GmbH, Norderstedt).



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.



Evidence of the medical device'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.

Inspection



- > 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 medical device following cleaning, disinfection and lubrication.

Lubrication



> Lubricate the dry medical device immediately after cleaning and/or disinfection.

Recommended lubrication cycles

- > Essential after every internal cleaning
- > Before each sterilization

or

- > After 30 minutes of use or once a day
- > chucking system once a week

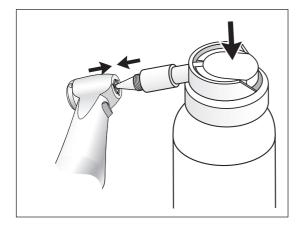
With W&H Service Oil F1, MD-400

> Follow the instructions on the oil spray can and on the packaging.

or

With W&H Assistina

> Follow the instructions in the Assistina Instructions for use.



Lubrication of the chucking system WE-99 LED G

With W&H Service Oil F1, MD-400

- > Fit the spray cap REF 02036100 onto the oil spray can.
- > Hold the medical device firmly.
- Press the tip of the spray nozzle firmly into the chucking system.
- > Spray for approximately 1 second.

or

With W&H Assistina TWIN / Assistina 301 plus

 Follow the instructions in the Assistina Instructions for use.

Test after lubrication



- > Direct the medical device downwards.
- > Take the medical device into operation so that excess oil can escape
- > Excess oil may result in the medical device overheating.



Pack the medical device and the accessories 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.



W&H recommends sterilization according to EN 13060, EN 285 or ANSI/AAMI ST79.



- > 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 medical device.

Recommended sterilization procedures

- > Fractionated pre-vacuum process (type B)
- > Gravity displacement process (type N)
- > Sterilization time at least 30 minutes at 121°C (250°F) or at least 3 minutes at 134°C (273°F)
- > Maximum sterilization temperature 135°C (275°F)



Evidence of the medical device'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.I., Brusaporto (BG)) and the CertoClav MultiControl MC2-S09S273 gravitation sterilizer (CertoClav GmbH, Traun).

- > Fractionated pre-vacuum process (type B): temperature 134°C (273°F) 3 minutes*
- > Gravity displacement process (type N): temperature 121°C (250°F) 30 minutes**

 $^{^{\}ast}$ according to EN 13060, EN 285, ISO 17665 / ** according to ANSI/AAMI ST55 , ANSI/AAMI ST79



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

6. 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.

7. W&H Accessories and spare parts



Use only original W&H accessories and spare parts or accessories approved by W&H. $\textbf{Suppliers:} \ \textbf{W\&H} \ \textbf{partners}$

000301xx	W&H Assistina
19922000	W&H Assistina 3x2 (MB-200)
19923000	W&H Assistina 3x3 (MB-300)
30310000	Assistina TWIN (MB-302)
02693000	Assistina adaptor for chuck system
10940021	W&H Service Oil F1, MD-400 (6 pcs)
02038200	Spray adaptor for straight/contra-angle handpieces
02036100	Spray adaptor for chuck system
02015101	Nozzle cleaner
20	

8. Technical data

		WE-99 LED G	WE-66 LED G	WE-56 LED G
Transmission ratio		1:4.5	4:1	1:1
Colour coding		orange	green	blue
Motor coupling	acc. to	ISO 3964	ISO 3964	ISO 3964
Instrument shaft diameter	ISO 1797 (mm)	1.6	2.35	2.35
Length in mm approved by W&H*	(mm)	25	34	34
Min. chuck length		until back stop	engaging	engaging
Max. operating part diameter	(mm)	2.5		-
Max. motor speed	(min-1)	40,000	40,000	40,000
Spray flow rate	nach ISO 14457 (ml/min)	> 50	> 50	> 50
Water setting range (rec. water pressure)**	(bar)	0.5 – 2 (1.5)	0.5 – 2 (1.5)	0.5 – 2 (1.5)
Chip air setting range (rec. chip air pressure) **	(bar)	1.5 – 3 (2)	1.5 – 3 (2)	1.5 – 3 (2)
Chip air consumption at 2 bar	[NI/min]	> 1.5	> 1.5	> 1.5



^{*} When using longer rotary instruments the user must ensure by correct selection of the operating conditions that there is no danger to the user, patient or third parties.

min⁻¹ [Revolutions per minute]

^{*} The chip air / water pressure must be set at the same time. The chip air must be higher than the water pressure



Temperature information

Temperature of the medical device on the operator side: Temperature of the medical device on the patient side: Temperature of the working part (rotary instrument): maximum 55°C (131°F) maximum 50°C (122°F) maximum 41°C (105.8°F)

Ambient conditions

Temperature during storage and transport: Humidity during storage and transport: Temperature during operation: Humidity during operation: $-40^{\circ}\text{C to } +70^{\circ}\text{C } \left[-40^{\circ}\text{F to } +158^{\circ}\text{F} \right] \\ 8\% \text{ to } 80\% \text{ (relative), non-condensing} \\ +10^{\circ}\text{C to } +35^{\circ}\text{C } \left(+50^{\circ}\text{F to } +95^{\circ}\text{F} \right) \\ 15\% \text{ to } 80\% \text{ (relative), non-condensing}$

9. 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 medical device has been manufactured with great care by highly qualified specialists. A wide variety of tests and controls guarantee 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 manufacturer, W&H is liable for material or manufacturing defects within a warranty period of 12 months from the date of purchase.

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 partner

Find your nearest W&H service partner at http://wh.com Simply go to the menu option »Service« for full details. Alternatively please contact:

W&H (UK) LIMITED, Unit 6, Stroud Wood Business Centre, Park Street, St Albans, AL2 2NJ Hertfordshire t +44 1727 874990, f +44 1727 872254, E-Mail: technical.uk@wh.com

W&H Impex Inc., 6490 Hawthorne Drive, Windsor, Ontario, N8T 1J9, Canada t+1 519 944 6739, f+1 519 974 6121, E-Mail: service.ca@wh.com

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