



Instructions for use



alegra

Handpiece

HE-43, HE-43 A/E

Contra-angle handpieces with light

WE-56 LED G, WE-66 LED G, WE-99 LED G

Contra-angle handpieces without light

WE-56, WE-56 A/E, WE-57 E, WE-66, WE-66 A/E, WE-99 A

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W&H Symbols

Symbols in the Instructions for use



WARNING!
(risk of injury)



ATTENTION!
(to prevent
damage occurring)




General explanations,
without risk to
persons or objects





**Do not dispose of
with domestic waste**


W&H Symbols


Symbols on the instrument


 CE 0297
from the manufacturer

 Thermo washer disinfectable

 Sterilizable up to the
stated temperature

 Date of manufacture

 Data Matrix Code for
product identification, e.g.
in hygiene / maintenance
process

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

REF Catalogue number

SN Serial number

1. Introduction

Customer satisfaction is the main priority under the W&H quality policy. This W&H product has been developed, manufactured and subjected to final inspection according to legal regulations, quality norms 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 W&H product and guarantee a smooth and efficient operation.

Intended use

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

Misuse may damage the handpiece/contra-angle and hence cause risks and hazards for patients, users and third parties.

Qualifications of the user

We have based our development and design of the dental handpiece and contra-angle on the »dentists, dental hygienists, dental employees (prophylaxis) and dental assistants« target group.



Production according to EU directive

The handpiece/contra-angle is a medical product according to the EU-directive 93/42/EEC.



Responsibility of the manufacturer

The manufacturer can only accept responsibility for the safety, reliability and performance of the straight/ contra-angle handpiece when it is used in compliance with the following directions:

- > The straight/contra-angle handpiece must be used in accordance with these Instructions for use.
- > The straight/contra-angle handpiece has no components that can be repaired by the user. Assembly, modifications or repairs must only be undertaken by an authorized W&H service partner (see page 43).

Skilled application

The straight/contra-angle handpiece is intended only for skilled application in the dental or medical field according to its purpose of use in compliance with the valid health and safety at work regulations, the valid accident prevention regulations as well as in compliance with these Instructions for use. The handpiece/contra-angle 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.

Service

In case of service or repair contact an authorized W&H service partner (see page 43). Service and maintenance work must only be carried out by an authorized W&H service partner.

2. Safety notes



- > Always ensure the correct operating conditions and cooling function.
- > Always ensure that sufficient and adequate cooling is delivered and ensure adequate evacuation. In case of coolant supply failure, the straight/contra-angle handpiece must be stopped immediately.



- > Check the straight/contra-angle handpiece for damage and loose parts prior to use (e.g. press button on the contra-angle handpiece).

Do not operate the straight/contra-angle handpiece if it is damaged.

- > Use only non-contaminated, filtered, oil-free and dry compressed cooling air to operate the straight-/contra-angle handpiece.
- > The operation of the contra-angle handpiece with light is permitted only on dental units which correspond to the standards IEC 60601-1 (EN 60601-1) and IEC 60601-1-2 (EN 60601-1-2).

The power supply unit for the dental unit must satisfy the following requirements to be guaranteed by the system assembler:

- > The compliance with the leakage currents of the application section must be guaranteed by the system assembler.

- > The secondary voltage must be non-earthed.
- > The secondary circuits must be protected against short-circuiting and overloading
- > Perform a test run prior to each treatment.
- > Avoid contact between the instrument head and soft tissue (danger of burning due to the press-button heating up).
- > Run the rinse function for the dental unit once per day.
- > Do not use the contra-angle handpiece as a light sensor.
- > Do not look directly into the optic outlet.



The brightness is dependent on the motor speed.
Always start the motor with a speed of at least 9,000 rpm.



Danger zones M and G

In accordance with IEC 60601-1 / ANSI/AAMI ES 60601-1, the straight/contra-angle handpiece is not suitable for use in potentially explosive atmospheres or with potentially explosive mixtures of anaesthetic substances containing oxygen or nitrous oxide.



The straight/contra handpiece is not suitable for use in oxygen enriched atmospheres.



Zone M is defined as a »medical environment« and constitutes the part of a room in which potentially explosive atmospheres may form due to the use of anaesthetics or medical antiseptics and antibacterial soaps; such atmospheres are typically localized and temporary.

Zone M comprises a truncated pyramid below the operating table which is tilted outwards at a 30° angle.



Zone G, also known as an »enclosed medical gas system«, does not necessarily include areas enclosed around all sides, in which explosive mixtures are continuously or temporarily generated, directed or used in small quantities.



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 product 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).

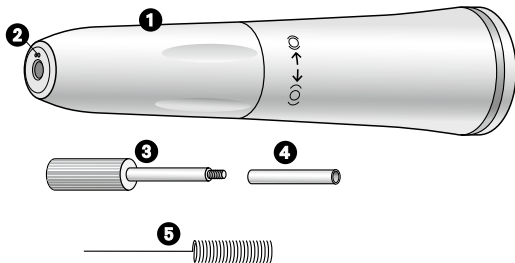
Hygiene and maintenance prior to initial use

The straight/contra-angle handpiece is in a clean condition and sealed in PE-film when delivered. Lubricate the contra-angle handpiece. Sterilize straight/contra-angle handpiece, rotary instrument and nozzle cleaner as well as the limit stop and pin remover of the handpiece.

> Oil service page 29

> Sterilization page 33

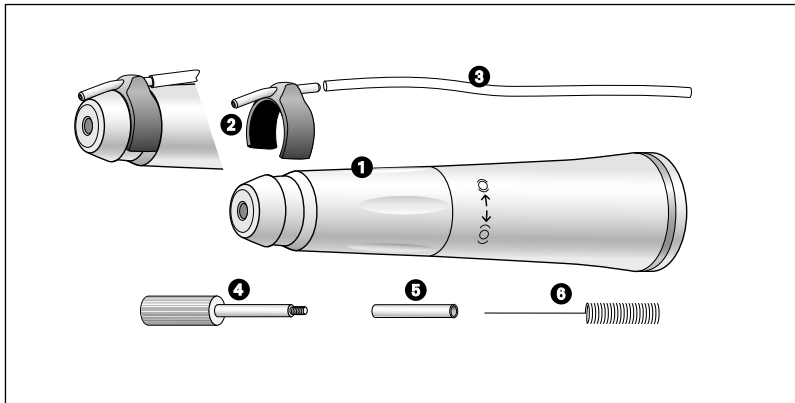
3. Product description



**Straight handpiece HE-43
(without spray)**

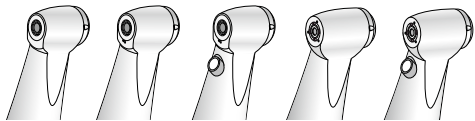
**Straight handpiece HE-43 A
(Spray internal)**

- ①** Handpiece sleeve with twist check
- ②** Spray nozzles (HE-43 A)
- ③** Threaded pin
- ④** Bur limit stop
- ⑤** Nozzle cleaner



Straight handpiece HE-43 E [Spray external]

- ① Handpiece sleeve with twist check
- ② Spray clip
- ③ Coolant hose
- ④ Threaded pin
- ⑤ Bur limit stop
- ⑥ Nozzle cleaner



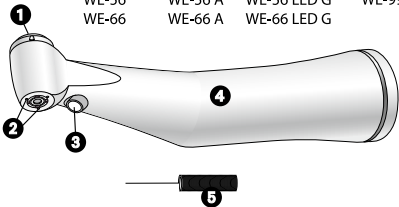
WE-56
WE-66

WE-56 A
WE-66 A

WE-56 LED G
WE-66 LED G

WE-99 A

WE-99 LED G



**Contra-angle handpieces
(without spray)**

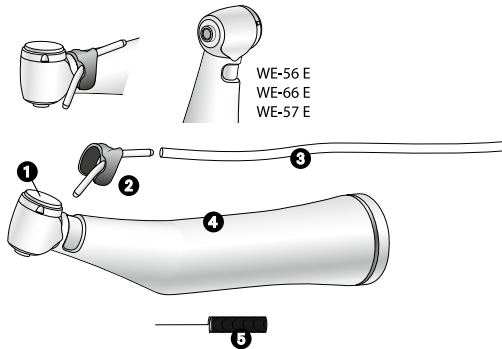
**Contra-angle handpieces
(Spray internal)**

- ① Press button
- ② Spray nozzles
(except for WE-56 / WE-66)
- ③ LED*
- ④ Sleeve
- ⑤ Nozzle cleaner

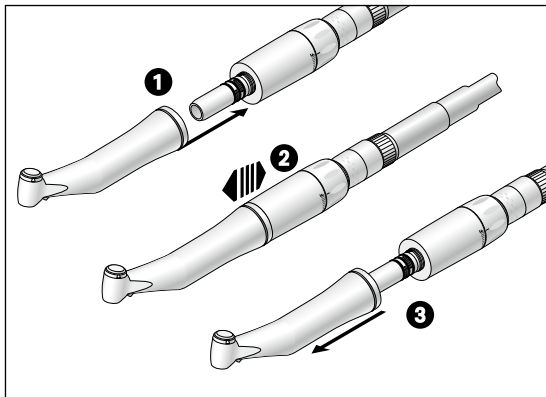
* WE-56 LED G / WE-66 LED G /
WE-99 LED G

Contra-angle handpieces (Spray external)

- ① Press button
- ② Spray clip
- ③ Coolant hose
- ④ Sleeve
- ⑤ Nozzle cleaner



4. Operation



Assembly and removal



**Do not assemble / remove
during operation!**

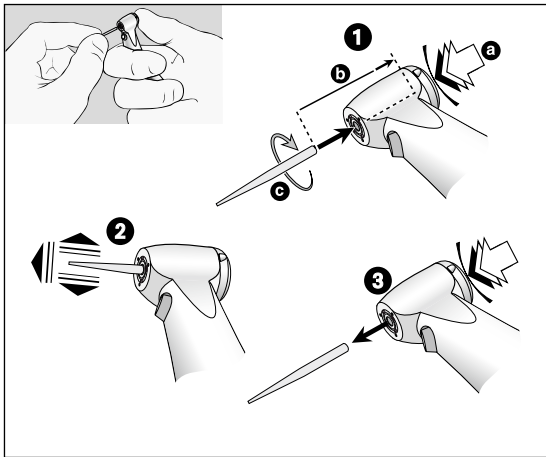


- ① Fit the straight/contra-angle handpiece onto the motor.
- ② Check the connection to the motor is secure.
- ③ Remove the straight/contra-angle handpiece from the motor by pulling in an axial direction.

Rotary instruments

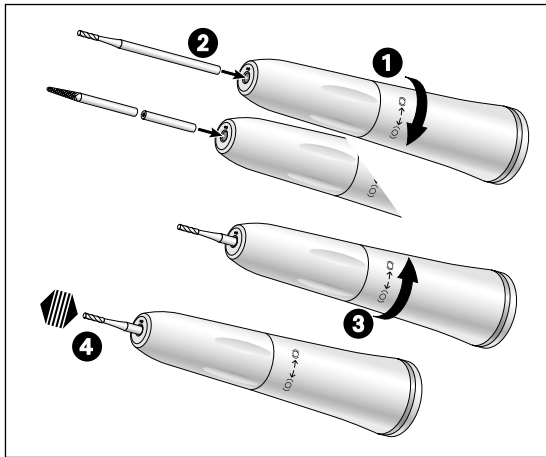


- > Use only rotary instruments which are in perfect condition and which have shanks that meet the requirements of the DIN EN ISO 1797-1 standard. Follow the operating instructions of the manufacturer.
- > Insert rotary instruments only when the straight/contra-angle handpiece is stationary.
- > Do not interfere with the running or slowing down of rotary instruments.
- > Do not activate the rotary chuck of the handpiece or press button of the contra-angle during operation or slowing down. This leads to detachment of the rotary instruments, damage to the rotary chuck [handpiece], and/or makes the press button hot [contra-angle]. (Risk of injury)



To change rotary instrument with contra-angles

- 1** Rotary instrument $\varnothing 1.6\text{ mm}$: Insert rotary instrument. Press the button firmly [a] and at the same time insert the rotary instrument until it reaches the limit stop [b].
Rotary instrument $\varnothing 2.35\text{ mm}$: Press the button [a] and at the same time insert the rotary instrument and turn it until it engages [c].
- 2** Check that the connection is secure by applying slight axial tension.
- 3** Remove the rotary instrument by pushing the press button.



Inserting the rotary instrument with straight handpieces

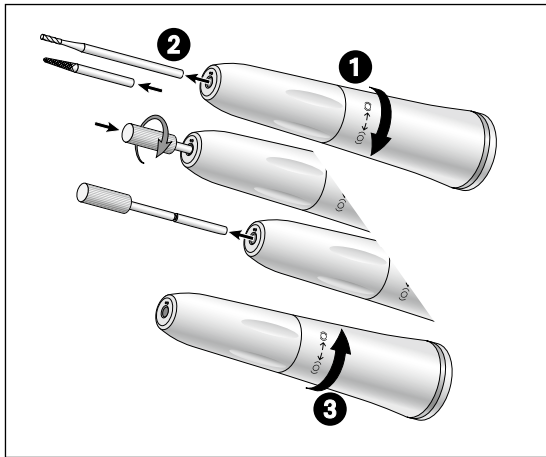
- ① Rotate the handpiece sleeve in an anticlock-wise (O) direction (opening) until it clicks.
- ② *Handpiece bur:* insert the rotary instrument up to the limit stop.
Contra-angle handpiece bur: insert the bur limit stop and then insert the rotary instrument up to the limit stop. The bur limit stop compensates for the difference in length.
- ③ Rotate the handpiece sleeve in a clockwise (O) direction (closing) until it clicks. Check that the handpiece rotary chuck is closed and the bur has engaged.
- ④ Check that the rotary instrument is held securely by pulling on it in an axial direction.

Test run



Do not hold the straight/contra-angle handpiece at eye level.

- > Insert rotary instrument.
- > Start the straight/contra-angle handpiece.
- > If you observe problems (e.g. vibrations, unusual noise, overheating, coolant supply failure or leakage) or discolouration of the LED, stop the handpiece/contra-angle immediately and contact an authorized W&H service partner (see page 43).



Removing the rotary instrument for straight handpieces

- 1 Rotate the handpiece sleeve in an anticlock-wise (O) direction (opening) until it clicks.
- 2 *Handpiece bur:* Remove the rotary instrument.
Contra-angle handpiece bur: Screw the threaded pin clockwise into the bur limit stop and pull the latter out.
- 3 Rotate the handpiece sleeve in a clockwise (O) direction (closing) until it clicks.
Check that the handpiece rotary chuck is closed.

5. Hygienic Maintenance



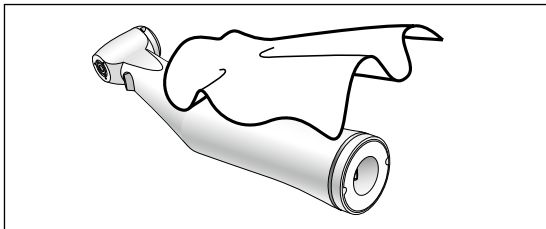
- > Follow your country-specific directives, standards and guidelines for cleaning, disinfection and sterilization.
- > The straight/contra-angle handpiece can be prepared manually or mechanically.



- > Wear protective clothing.
- > Remove the rotary instrument.
- > Remove the straight/contra-angle handpiece from the motor.

- > Clean and disinfect the straight/contra-angle handpiece immediately **after every application** to flush out any liquid (e. g. blood, saliva, etc.), which may have seeped in and to prevent settling on the internal parts.

- > Sterilize the handpiece/contra-angle following manual or mechanical cleaning, disinfection, and lubrication.
- > Sterilize the nozzle cleaner and spray clips following cleaning and disinfection.

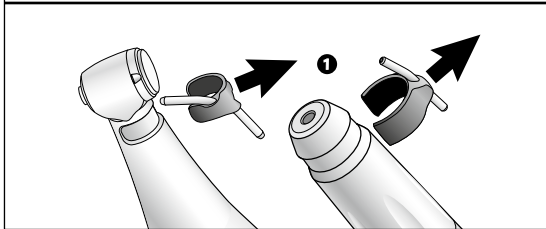


Pre-disinfection

> If heavily soiled: Clean first with disinfectant cloths.

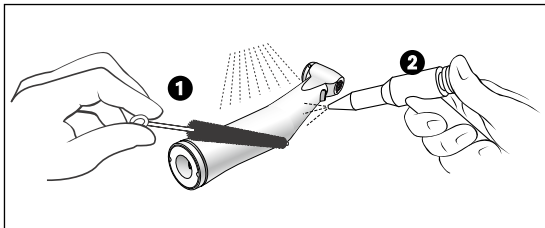


Only use disinfectants that have no proteinfixing effects.



Removing the spray clip (HE-43 E / WE-56 E / WE-57 E / WE-66 E)

❶ Remove the spray clip

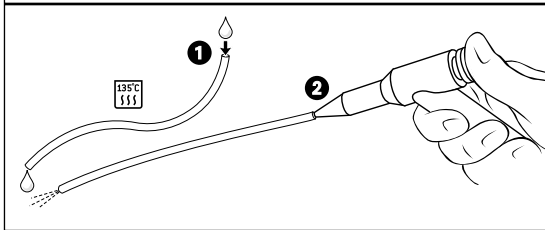


Manual cleaning (internal and external)

- 1 Rinse under demineralized water ($< 38\text{ }^{\circ}\text{C}$) with the aid of a brush.
- 2 Then remove any liquid residues (absorbent cloth, blow dry with compressed air).

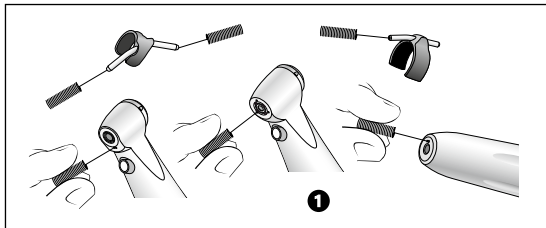


Do not place the handpiece/contrangle in liquid disinfectant or in an ultrasonic bath!



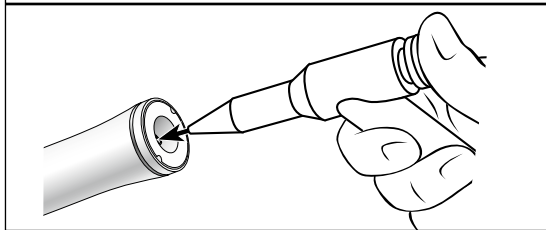
Clean the external coolant hose (HE-43 E / WE-56 E / WE-57 E / WE-66 E)

- 1 Rinse under demineralized water ($< 38\text{ }^{\circ}\text{C}$).
- 2 Remove any liquid residues (blow dry with compressed air).




Clean spray nozzles

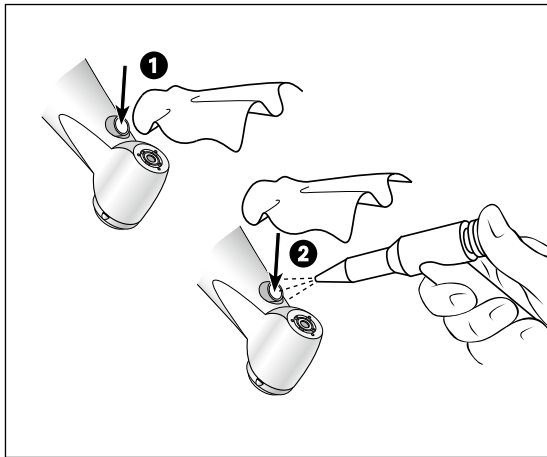
- 1 Clean spray nozzles carefully with the nozzle cleaner to remove dirt and deposits.
- > Clean and disinfect the nozzle cleaner and spray clips in an ultrasonic bath/disinfection bath.



Cleaning the coolant tube

Blow through the coolant tube with an air syringe.

-  In the case of clogged spray nozzles or coolant tubes contact an authorized W&H service partner service partner (see page 43).



Cleaning the optic outlet for contra-angles with light

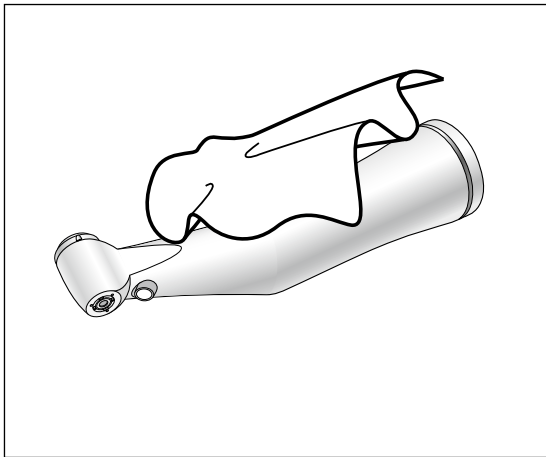


Avoid scratching the optic outlet!

- 1 Wash the optic outlet with cleaning fluid and a soft cloth.
- 2 Dry the optic outlet with an air syringe or carefully with a soft cloth.



Carry out a visual inspection after each cleaning process. Do not use the contra-angle if the optic outlet is damaged and contact an authorized W&H service partner [see Page 43].



Manual disinfection



W&H recommends wiping down with disinfectant.

- > Use only disinfectants which do not contain chlorine and which are certified by officially recognized institutes. For USA: Use EPA registered surface disinfectants.
- > Note the manufacturer's specifications for the use of the disinfectants.



After manual cleaning, disinfection and lubrication you must carry out a final thermal disinfection (unwrapped) or sterilization (wrapped) in the class B or S steam sterilizer (according to EN 13060).

Mechanical cleaning and disinfection internal and external



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

- > Follow the instructions in the Assistina Instructions for use.



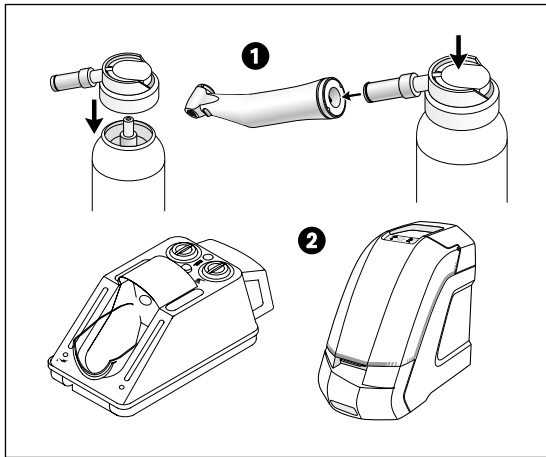
The straight/contra-angle handpiece can be cleaned and disinfected in a thermo washer disinfectant.

- > Note the manufacturer's specifications on equipment, cleaning agents and detergents.



> Make sure, that the handpiece/contra-angle is completely dry internally and externally after thermo washer disinfection. Remove any liquid residues with compressed air.

- > Lubricate the dry handpiece/contra-angle immediately after thermo washer disinfection.



Daily oil service

❶ Only with W&H Service Oil F1, MD-400

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

or

❷ Only with W&H Assistina

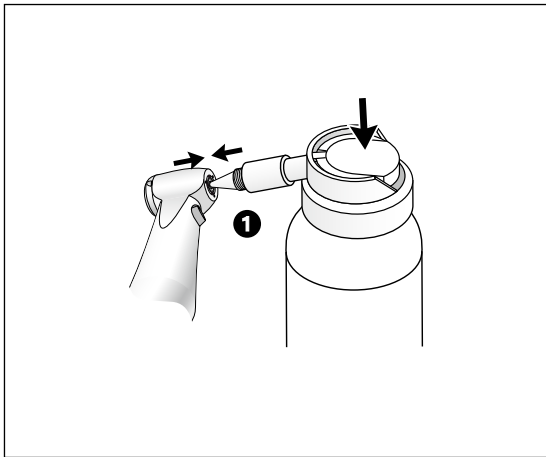
- > Please refer to the Instructions for Use of Assistina.

Recommended lubrication cycles

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

or

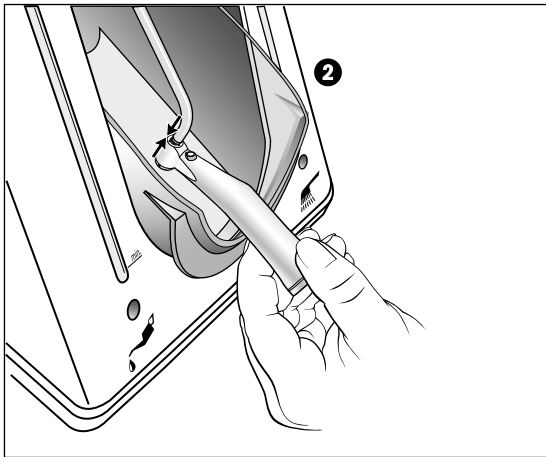
- > After 30 minutes of use or
- > at least twice daily



Weekly oil service of the chuck system

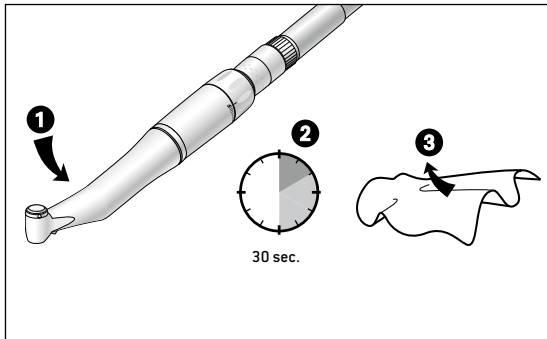
- ❶ Only with W&H Service Oil F1, MD-400
- > Fit the spray cap REF 02036100 onto the spray can.
- > Hold the contra-angle handpiece firmly.
- > Press the tip of the spray cap firmly into the chuck system.
- > Spray for approx. 1 second.

or



② Only with W&H Assistina 301 plus


- > Fit the adaptor REF 02693000 onto the maintenance attachment. Direct spray exit nozzle downwards.
- > Press the bur side of the contra-angle onto the adaptor from below.
- > Start the Assistina.
- > Press the contra-angle onto the adaptor for approx. 10 seconds.
- > Remove the contra-angle from the adaptor.
- > Close the cover of the Assistina and allow it to run for the remainder of the maintenance cycle [approx. 25 seconds].




Test run following oil service

- 1 Place the straight/contra-angle handpiece with the instrument tip/head downwards.
- 2 Start the straight/contra-angle handpiece for 30 seconds to remove excess oil.
 - > Start at the minimum speed and increase to the maximum speed within 5 to 10 seconds.
 - > Repeat the entire hygienic maintenance process if dirt emerges.
- 3 Wipe the straight/contra-angle handpiece with gauze or a soft cloth.


Sterilization and storage

 W&H recommends sterilization according to EN 13060, class B

- > Follow the operating instructions of the manufacturer.
- > Clean, disinfect and lubricate prior to sterilization.
- > Only sterilize cleaned and dried coolant hoses.
- > Wrap the straight/contra-angle handpiece and accessories in sterile goods packaging according to EN 868-5.
- > Make sure that you only remove dry sterile goods.
- > Store sterile goods dust-free and dry.

 The standard ISO 14457 stipulates a durability of at least 250 sterilization cycles.
In the case of the straight/contra-angle handpiece from W&H, we recommend you to have a regular service carried out after 1000 sterilization cycles or one year.

Approved sterilization methods

 Observe your country-specific guidelines, standards and requirements.

- > Steam sterilization class B (pre and post vacuum) with sterilizers in accordance with EN 13060.
Sterilization holding time a minimum of 3 minutes at 134 °C

or

- > Steam sterilization class S with sterilizers in accordance with EN 13060.
The sterilizer manufacturer must give their express approval for the sterilization of straight/contra-angle handpiece.
Sterilization holding time a minimum of 3 minutes at 134 °C

6. W&H Accessories

Use only original W&H accessories and spare parts!

Suppliers: W&H partners

301	W&H Assistina
19922000	Assistina 3x2 (MB-200)
19923000	Assistina 3x3 (MB-300)
02693000	Assistina adapter for chuck system
10940021	W&H Service Oil F1, MD-400 (6 pcs)
02038200	Spray cap with nozzle for straight/contra-angle handpieces
02036100	Spray cap with nozzle for chuck system
02015101	Nozzle cleaner
00636901	Nozzle cleaner (for straight handpieces HE-43 A/E)

01312500	Bur limit stop
01312600	Threaded pin (for dismantling bur limit stop)
05379500	Spray clip for Exco straight handpiece
05430100	Spray clip for Exco contra-angle handpieces
01524900	Spray tube for Exco straight/contra-angle handpieces (length 185 mm)

Technical Data

Straight handpiece		HE-43 A/E	
Transmission ratio		1 : 1	
Colour coding		1 blue ring	
Motor coupling acc. to standard		ISO 3965	
Instruments ø	acc. to standard EN ISO 1797-1:1995 [mm]	2.35	
Length approved by W&H [mm]		Contra-angle handpiece bur 34*	Handpiece bur 50*
Chucking		Contra-angle shank: with bur limit stop*	Handpiece shank
Min. chuck length [mm]		12*	to the limit stop*
Max. motor speed [min ⁻¹]		40,000	
Spray flow rate acc. ISO 14475 [ml/min]		> 50	
Water setting range (rec. water pressure) [bar]		0,5 – 2 (1.5)**	
Chip air setting range (rec. chip air pressure) [bar]		1.5 – 3 (2)**	
Chip air consumption at 2 bar [NI/min]		> 1.5	

* If the rotary instrument is not inserted up to the limit stop, the minimum chucking length must be maintained. In this case, or when using rotary instruments longer than 50 mm, the user must ensure by correct selection of the operating conditions that there is no danger to the user, patients or third parties.

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

rpm = min⁻¹ (Revolutions per minute)

Contra-angles with light Contra-angles without light	WE-99 LED G / WE-99 A	WE-66 LED G / WE-66 A/E	WE-56 LED G / WE-56 A/E	WE-57 E
Transmission ratio	1:4.5	4:1	1:1	1:1
Colour coding	1 red ring	1 green ring	1 blue ring	1 blue ring
Motor coupling acc. to standard	ISO 3964	ISO 3964	ISO 3964	ISO 3964
Rotary instruments EN ISO 1797-1:1995 (ø mm)	1.6	2.35	2.35	1.6
Length approved by W&H (mm)	25*	34*	34*	25*
Min. chuck length	to the limit stop	engaging	engaging	to the limit stop
Max. motor speed (min ⁻¹)	40,000	40,000	40,000	40,000
Spray flow rate according to ISO 14475 (ml/min)	> 50	> 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)**	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)**	1.5 – 3 (2)**
Chip air consumption at 2 bar (NI/min)	> 1.5	> 1.5	> 1.5	> 1.5

* When using longer rotary instruments (or if the rotary instrument is not inserted up to the limit stop) the user must ensure, by correct selection of the operating conditions, that there is no danger to the user, patient or third parties.

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

rpm = min⁻¹ (Revolutions per minute)

Straight handpiece (without spray)		HE-43	
Transmission ratio		1:1	
Colour coding		1 blue ring	
Motor coupling acc. to standard		ISO 3965	
Instruments \varnothing	acc. to standard EN ISO 1797-1:1995 (mm)	2.35	
Length approved by W&H	(mm)	Contra-angle handpiece bur 34*	Handpiece bur 50*
Chucking		Contra-angle shank: with bur limit stop*	Handpiece shank
Min. chuck length	(mm)	12*	to the limit stop*
Max. motor speed	(min ⁻¹)	40,000	

Contra-angles (without spray)		WE-56	WE-66
Transmission ratio		1:1	1:4,5
Colour coding		1 blue ring	1 green ring
Motor coupling acc. to standard		ISO 3964	ISO 3964
Rotary instruments	EN ISO 1797-1:1995 (\varnothing mm)	1.6	1.6
Length approved by W&H	(mm)	25	21
Min. chuck length		2.5	2
Max. motor speed	(min ⁻¹)	40,000	40,000

* When using longer rotary instruments (or if the rotary instrument is not inserted up to the limit stop) the user must ensure, by correct selection of the operating conditions, that there is no danger to the user, patient or third parties.
rpm = min⁻¹ (Revolutions per minute)

Temperature information

Temperature of the straight/contra-angle handpiece at the operator side:	max. 55 °C (131 °F)
Temperature of the straight/contra-angle handpiece at the patient side:	max. 50 °C (122 °F)
Temperature of the working part (rotary instrument):	max. 41 °C (105.8 °F)

Physical characteristics

Temperature for storage and transport:	-40 °C to +70 °C
Air humidity for storage and transport:	8 % to 80 % (relativ), non-condensing
Ambient temperature during operation:	+10 °C to +35 °C
Air humidity during operation:	15 % to 80 % (relativ), non-condensing

8. Recycling and disposal

Recycling

W&H considers that it has a special duty towards the environment. The straight/contra-angle handpiece along with its packaging has been designed to be as environmentally friendly as possible.



Disposal of the straight/contra-angle handpiece

Follow your country-specific laws, directives, standards and guidelines.

Ensure that the parts are not contaminated on disposal.

Disposal of the packaging material

All packaging materials have been selected according to environmentally compatible and disposal aspects and can be recycled. Please send old packaging materials to the relevant collection and reprocessing system. This way, you will contribute to the recycling of raw materials and the avoidance of waste.

Explanation of warranty terms

This W&H product 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 you 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 9446739, f + 1 519 9746121, E-Mail: service.ca@wh.com

W&H Impex Inc., 14300 Henn Rd., Dearborn, MI 48126, USA
t + 1 519 9446739, f + 1 519 9746121, E-Mail: service.us@wh.com

W&H Austria GmbH, Ignaz-Glaser-Straße 53, 5111 Bürmoos, Austria
t + 43 6274 6236-239, f + 43 6274 6236-890, E-Mail: office.at@wh.com

A-DEC AUSTRALIA CO. INC., Office and showroom, Unit 8, 5-9 Ricketty Street, 2020 Mascot NSW
t + 61 2 8332 4000, f + 61 2 8332 4099, E-Mail: a-dec@a-dec.com.au

Manufacturer

W&H Dentalwerk Bürmoos GmbH
Ignaz-Glaser-Straße 53, 5111 Bürmoos, Austria

t + 43 6274 6236-0, f + 43 6274 6236-55
office@wh.com wh.com

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