

# User Manual



**SLIM & Slim B.LED handpiece**



This document is an English translation of the original French version.  
Reference J12920 version V6 and drawing number NBAFFR030F

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# Foreword

The medical device that you are about to install and use in your practice is a medical device designed for professional use. It is therefore a key tool with which you will provide treatment within the context of your work.

To ensure optimum safety for yourself and your patients, comfort in your daily practice and to benefit fully from the technology of your medical device, please read the documentation provided carefully.

Please refer to the cleaning, disinfection and sterilisation instructions for accessories and to the cleaning, disinfection and sterilisation instructions for handpieces for information about the following:

- Preparation of parts for sterilisation
- Detailed manual and automated instructions
- Information concerning conditioning for sterilisation
- Recommendations for the inspection of parts

Please refer to the instructions for the entire range of SATELEC, a company of Acteon group dental ultrasonic generators for information about the following:

- Documentation format
- Documentation archiving period
- Warnings concerning user and patient populations
- Treatment area
- Medical device usage interactions, contraindications and prohibitions
- Disposal and recycling of the medical device
- Manufacturer responsibility

Please refer to the User Manuals, Quick Start Guides and Quick Clean Guides for each medical device for information about the following:

- Unpacking and installing the medical device
- Using the medical device
- Monitoring and maintaining the medical device
- Technical specifications of the medical device



# 1 Documentation

This document contains the following information:

- Indications for use
- Medical device description
- Installation of the medical device
- Medical device use
- Preparation for cleaning and disinfection of the medical device
- Monitoring and general maintenance of the medical device
- Maintenance to be performed by the user

## 1.1 Associated documentation

This document must be used in association with the following documents:

Document title	References
Consulting electronic user instructions	J00007
General instructions relating to the complete range of dental ultrasonic generators	J00011
Cleaning, disinfection and sterilisation instructions for handpieces	J12911
Cleaning, disinfection and sterilisation instructions for wrenches	J81001
Cleaning, disinfection and sterilisation instructions for tips	J02001
SLIM handpiece user manual	J12921
SLIM handpiece Quick Start-Clean guide	J12930

The Quick Start and Quick Clean documents are summaries created for your approval. The only binding instructions are the user manuals and regulatory documentation associated with the medical device.

## 1.2 Electronic documentation



The user instructions for your device are available in electronic format on the specified website and not in printed format. If the website is unavailable, try again later. You can also request a free printed copy of the user instructions within seven days via our website, by telephone or in writing.

The electronic user instructions are available in PDF format (Portable Document Format). You will need to have a PDF file reader installed to read the electronic user instructions. It is important for you to have read and understood the content of the user instructions relating to the use of your device and its accessories.

Never use your device without first reading the user instructions.

The device user instructions can be consulted at the following addresses: [www.ultradent.com](http://www.ultradent.com) and [www.satelec.com](http://www.satelec.com).

When you receive your device, you are asked to print and/or to download all documents or sections of documents that you may need to refer to in the event of an emergency, if you are unable to connect to the internet or if your electronic display tool is not working (computer, tablet, etc.). We recommend that you visit the website regularly to consult and to download the latest version of your device's user instructions. Users are asked to keep documentation close at hand for reference when necessary.





## 2 Required information

### 2.1 Indication for use

The dental ultrasonic handpiece is used in association with a conventional dental piezoelectric ultrasonic generator and a tip or a dental file.

The treatments performed with this medical device are those described in the User Manual for your ultrasonic generator.

### 2.2 Operating principle

This handpiece is available in the Newtron SLIM and Newtron SLIM B.LED versions and works on piezoelectric ultrasonic generators fitted with a SLIM connector and an electronic LED.

An electrical signal emitted by the medical device is supplied to the ultrasonic handpiece. This is connected to the medical device via a cord. The handpiece comprises a piezoelectric ceramic transducer, which transforms the electrical signal into ultrasonic vibrations.

The Newtron SLIM B.LED fitted with its Blue LED ring and used in conjunction with the F.L.A.G. for B.LED fluorescent liquid, shows up dental plaque during the scale removal or dental prophylaxis phase. Fitted with a white LED ring, the handpiece emits a white light providing the user with optimum visibility of the treatment area.

### 2.3 Using accessories not supplied by the manufacturer

The handpiece is designed to operate with SATELEC, a company of Acteon group dental tips and files. The use of tips or files made by other manufacturers will damage the handpiece, break tips and files and void the warranty.

### 2.4 Connecting and disconnecting accessories during use

Do not tighten or loosen the tips when the handpiece is activated.

### 2.5 Repairing or modifying the medical device

Contact the supplier of your device. Using the services of an unapproved repairer could render your device dangerous for you and your patients.

Do not repair or modify the device without seeking the prior permission of SATELEC, a company of Acteon group.

If the device is modified or repaired, specific checks and tests must be carried out to ensure that the medical device is still safe to use.

In the event of doubt, contact an approved dealer or the SATELEC, a company of Acteon group Customer Service team:

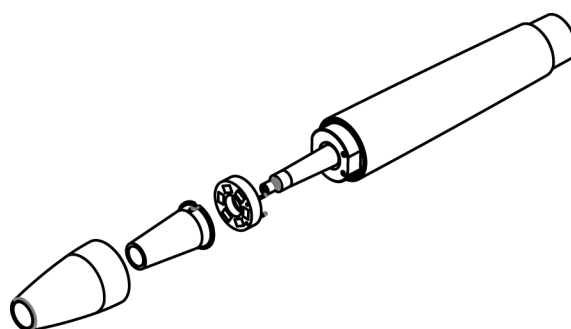
[www.acteongroup.com](http://www.acteongroup.com)

[satelec@acteongroup.com](mailto:satelec@acteongroup.com)

SATELEC, a company of Acteon group, at the request of technical personnel working for the network of approved dealers, will provide any information required to repair defective parts on which they may perform repairs.

### 2.6 Warranty

Only clearly indicated parts of the medical device can be unscrewed by the user. Unscrewing any other parts may void the warranty.



## 2.7 Latest document update

09/2017

## 2.8 Date of first CE marking

2013

## 2.9 Accessory usage conditions

The accessories and the handpiece must be cleaned, disinfected and sterilised prior to each use.



### 3 Unpacking the medical device

When you receive your medical device, check for any damage that may have occurred during transportation.

If you have received this medical device by mistake, please contact the supplier to arrange for it to be collected.

If you have any questions or requirements, contact your supplier.

The SLIM handpiece includes the following items:

- a SLIM handpiece;
- depending on the option you chose, a blue LED ring installed and an interchangeable white LED ring;
- a Quick Start- Clean guide for the handpiece SLIM [J12930].



## 4 Installing the medical device

### 4.1 Handpiece

The handpieces are designed to operate exclusively with SATELEC dental ultrasonic generators.

There is a handpiece with SLIM B.LED to white LED connector and a handpiece with SLIM B.LED to blue LED connector.

### 4.2 Handpiece cord

The SLIM cord is only compatible with Acteon handpieces with SLIM connector.

The cord ensures irrigation circulation and electrical connection between the medical device and the handpiece.

Never rotate the handpiece connector on its cord as this can damage your medical device.

Never wrap the handpiece cord around the medical device.

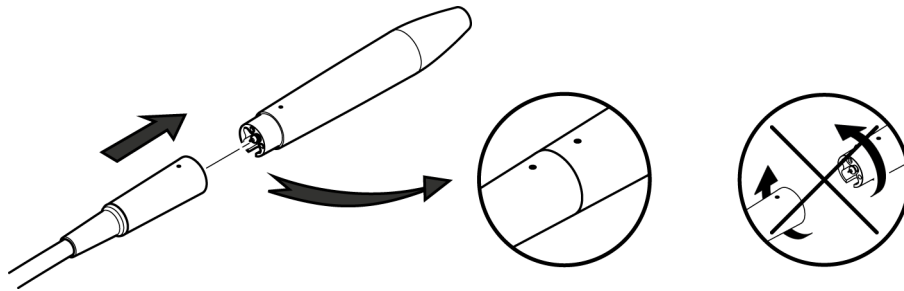
Make sure that it is not possible to wheel over or walk on the different cords.

The cord attached to its handpiece must be easily accessible. Make sure that the cord is slack during use.

### 4.3 Connecting the ultrasonic

Check for any traces of humidity on the handpiece connections. If the connections are damp, dry them with the multi-purpose syringe.

Lubricate the irrigation circuit seal located on the metal shaft on the back of the handpiece with silicone paste. This will prolong its service life and prevent leaks. Do not use spray lubricant on dental instruments.

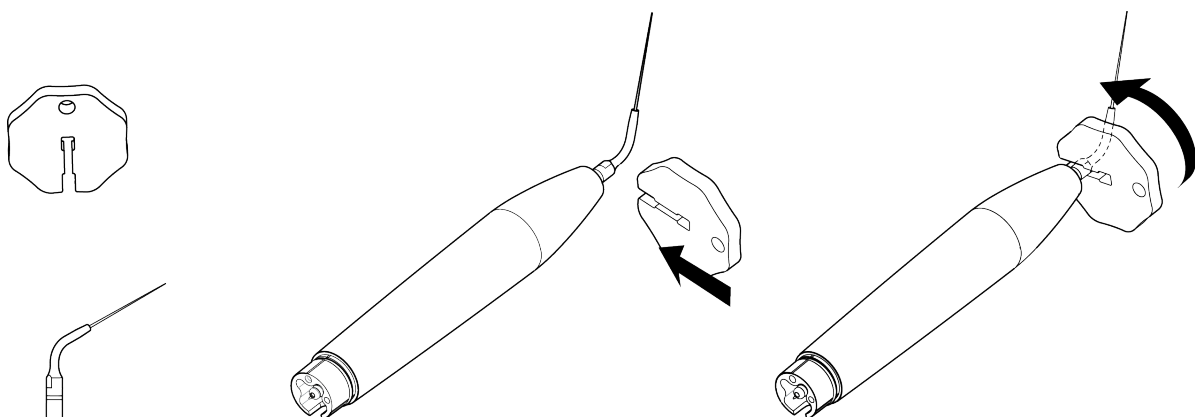


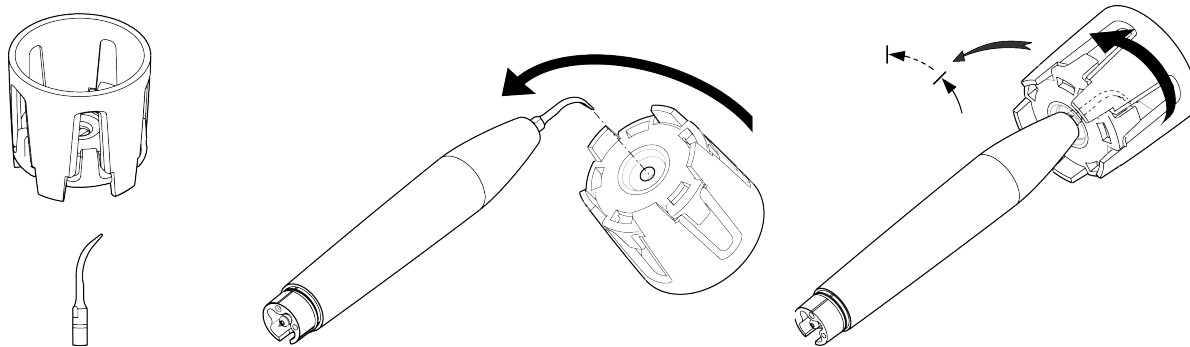
Place the handpiece on the support.

### 4.4 Attaching a tip or a file

A tip or a file vibrates correctly when it is perfectly tightened without being forced beyond its stop point. Tighten the tip with the torque wrench (F81320, F81321, F81322 or F81323) to ensure optimum ultrasonic function. Over-tightening of the tip or file with the open-ended wrench can result in breakage of the tip, file or handpiece.

To prevent self-locking of the tip or the file, the latter must be removed and sterilised after each use.





| The torque wrenches must be replaced every year.

# 5 Dispensing a treatment

## 5.1 Accessory usage conditions

The accessories and the handpiece must be cleaned, disinfected and sterilised prior to each use.



Refer to the cleaning, disinfection and sterilisation instructions for accessories listed in the chapter *Associated documentation page 5*.

## 5.2 Preparation for use



Protection  
Glasses Needed

To prepare your medical device, follow the steps below:

1. Wear safety goggles and protective gloves.
2. Clean the unit with an alcohol disinfectant wipe.
3. Remove the handpiece from its sterilisation bag.
4. Remove the wrench from its sterilisation bag.
5. Remove the tip from its sterilisation bag.
6. Screw the tip onto the handpiece, first manually and finishing with the wrench.
7. Connect the handpiece to the handpiece cord socket.
8. Place the handpiece on its support. .
9. Switch on the medical device.
10. Check the irrigation parameters depending on the tip chosen.
11. After water drainage, check that the spray works correctly.

Your medical device is now ready to use.





## 6 Disinfection and sterilising

The instructions relating to cleaning, disinfection and sterilisation protocols for accessories provided by SATELEC, a company of Acteon group have been approved for each medical device and accessory. The applicable guides are listed in the chapter *Associated documentation page 5*.

They can be downloaded at the following address: [www.satelec.com/documents](http://www.satelec.com/documents).

Download



Instructions For Use

In all cases, the local regulations in force relating to the cleaning, disinfection and sterilisation protocols for accessories take precedence over the information provided by SATELEC, a company of Acteon group.

### 6.1 Clean and disinfect the medical device

The medical device's control unit must be cleaned and disinfected daily.

The handpiece must be cleaned, disinfected and sterilised after each use.

- Do not immerse the handpiece.

The medical device must be in OFF or O stop position during cleaning and disinfecting procedures.

Refer to the instructions in the chapter *Cleaning the irrigation system page 17*.

Use alcohol disinfectant wipes.

Avoid using cleaning and disinfection products that contain flammable agents.

Otherwise, ensure that the product has completely evaporated or that there is no fuel left on the medical device and its accessories before switching it on.

- Do not use an abrasive product to clean the medical device.

- Never apply sprays directly to the medical device to clean it. Always spray the product onto a wipe, then clean the medical device.

### 6.2 Cleaning, disinfecting and sterilising accessories

Refer to the cleaning, disinfection and sterilisation instructions for accessories listed in the chapter *Associated documentation page 5*.



## 7 Monitoring and routine maintenance

Check the cleanliness of the handpiece nosepiece. It must be clean, smooth and corrosion-free. The handpiece must screw easily and firmly inside it.

Check the condition of the handpiece rear seals, which must not be distended, torn or broken.

Before and after use, check the medical device and its accessories entirely for any problems. This is necessary to detect any electrical isolation fault or damage. If necessary, replace damaged parts.

### 7.1 Cleaning the irrigation system

After installation and before first use, at the end of the day and following a period of prolonged non-use of the medical device, it is important to clean the irrigation system.

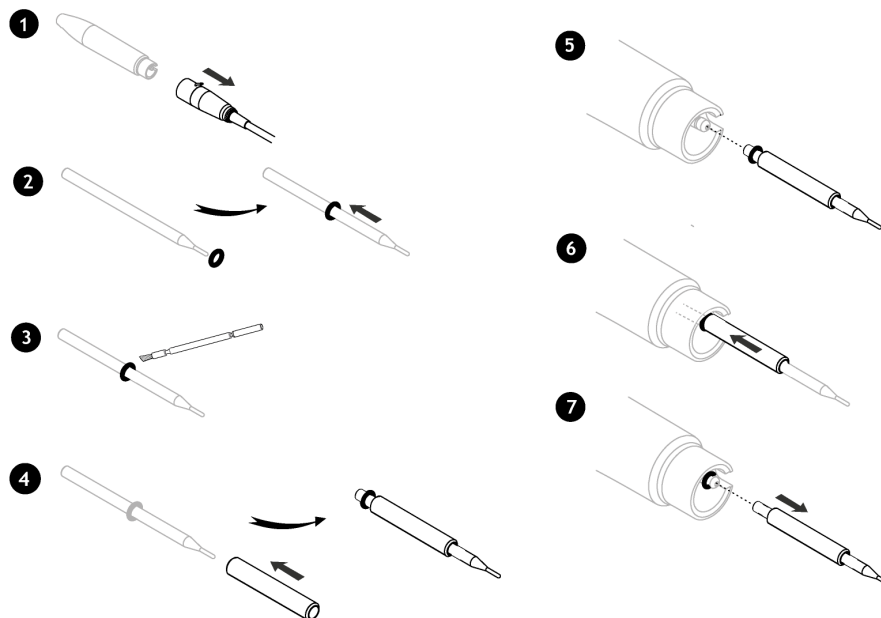
Operate the device at minimum power, at maximum irrigation flow rate for two minutes.

### 7.2 Corrective Maintenance

#### 7.2.1 Replacing the handpiece seal

Remove the faulty seal from the water connector using a thin pair of pliers.

Install the new seal using the purpose-designed kit as shown below.





## 8 Identifying incorrect operation

In the event of incorrect operation, refer to the tables below to quickly identify and repair the non-complex parts of the medical device.

If the incorrect operation is not described in the tables below, please contact your supplier or the customer service team at SATELEC, a company of Acteon group.

Do not use the medical device if it appears to be damaged or faulty. Isolate the medical device and make sure that it cannot be used.

### 8.1 No spray

Symptom: There is no water spray at the tip.

Possible causes	Solutions
Tip or file blocked	Unblock the tip or file using an ultrasonic tank
Incorrect choice of tip	Check the tip
Inadequate amount of spray	Adjust the spray

| Do not ever try to unblock a tip or file using a probe.

### 8.2 Ultrasounds not working

Symptoms: the tip does not vibrate.

Possible causes	Solutions
Tip loose	Fasten the tip using the wrench Replace your torque wrench (once a year)
Faulty connector contact	Clean the cord contacts
Handpiece cord wire(s) cut	Return to the Acteon Customer Service team to replace the cord

### 8.3 Water leakage

Symptoms: water is leaking between the base of the handpiece and its cord.

Possible causes	Solutions
Wear of 1.15 mm x 1 mm handpiece seal	Replace the seal using the purpose-designed kit.

### 8.4 No light

Symptoms: the handpiece does not light up.

Possible causes	Solutions
Connection of a handpiece to an ultrasonic generator not fitted with the LED function	Connect the handpiece to an ultrasonic generator fitted with the LED function
LED ring missing	Install a blue or white LED ring depending on the treatment to be performed
Faulty LED ring	Order and install a new LED ring
Faulty LED ring connector contacts	Clean the LED ring contacts
Handpiece or cord connector contacts faulty	Clean the handpiece and cord connector contacts



## 9 Technical specifications of the medical device

### 9.1 Identification

Manufacturer	SATELEC, a company of Acteon group
Name of the medical device	Newtron SLIM and Newtron SLIM B.LED handpiece

### 9.2 Handpiece

Length	110 mm
Diameter maximum	18 mm
Weight	44 g for SLIM handpiece and 48 g for SLIM B. LED handpiece

### 9.3 Light

Light source	LED
Light colour	White
Light colour	Blue
Output Luminous Emittance	27 500 lux

### 9.4 Length of cords

Handpiece cord	2 500 mm +/- 50 mm
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### 9.5 Irrigation

Water pressure at inlet	from 1 to 5 bars (15 to 73 p.s.i.)
Water output at the end of the handpiece	0 ml/min to 80 ml/min at 5 input bar

### 9.6 Environmental characteristics

Ambient operating temperature	10 to +30°C
Operating RH	30% to 75 %
Atmospheric operating pressure	Between 800 hPa and 1060 hPa
Maximum operating altitude	Equal to or less than 2000 metres
Storage temperature	-20°C to +70°C
Storage RH	10% to 100 %, including condensation
Atmospheric storage pressure	Between 500 hPa and 1060 hPa
Transportation temperature	-20°C to +70°C
Transportation RH	10% to 100 %, including condensation
Atmospheric transportation pressure	Between 500 hPa and 1060 hPa

### 9.7 Environmental restrictions

Usage premises	Usable in all medical premises. The medical device must not be used in an operating theatre or outdoors.
Use in gas-filled atmosphere	The medical device is not designed for use in a type AP or APG gas-filled atmosphere or in the presence of anaesthetic gases.
Immersion	The handpiece must not be immersed.

### 9.8 Main performance characteristics

Ultrasonic vibrations of the tip or file fitted to the end of the conventional dental ultrasonic handpiece.

- Vibration frequency  $\geq 28$  kHz.
- Tip amplitude  $\leq 200$   $\mu\text{m}$ .



# 10 Regulations and standards

## 10.1 Applicable standards and regulations










This medical device complies with the essential requirements of European Directive 93/42/EEC. It was designed and manufactured in accordance with an EN ISO 13485-certified quality assurance system.














This equipment is designed and developed in compliance with the Electrical Safety standard IEC60601-1 in force.



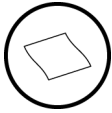
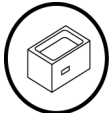

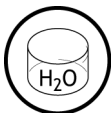



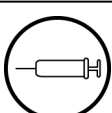
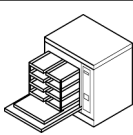
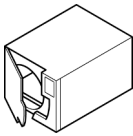
## 10.2 Medical class of the device

Class of medical device: IIa according to 93/42/EEC directive

## 10.3 Symbols

Symbol	Meaning
 Protection Glasses Needed	Always wear safety goggles
 Always wear protective gloves	Always wear protective gloves
 Refer to Instruction Manual/Booklet	Refer to the supporting documentation
 Consult Instructions for Use	Consult the User Manual
 Electronic User Information	The accompanying documentation is available in electronic format
	Pressure limit
	Temperature limit
	Humidity limit
	Packaging unit

Symbol	Meaning
	Fragile, handle with care
	Store in a dry place
	Sterilise prior to each use
	Biohazard
	Sterilisation at 134°C in an autoclave
	Sterilisation at 132°C in an autoclave
	Washer-disinfector for thermal disinfection
	CE marking
	CE marking
	Year of manufacture
	Manufacturer
	Do not dispose of as household waste
	Recycle your lamps and professional electrical equipment with Réylum
Rx Only	Under the United States Federal Law, this medical device must only be sold by or under the orders of a qualified doctor.
SN	Serial Number
PN	Packaging Number

	Use a dipping tank for cleaning
	Use a soft brush for cleaning
	Use a lint-free cloth for cleaning
	Use an ultrasonic tank for cleaning.
	Use a swab for cleaning
	Use deionised or osmosis-purified water for cleaning
	Use an alcohol disinfectant wipe for pre-disinfection and cleaning.
	Do not use the ultrasonic tank for cleaning.
	Clean under running water
	Use a syringe for cleaning
	Use a washer-disinfector for cleaning and disinfection
	Use a pre-vacuum air autoclave for sterilisation

## 10.4 Manufacturer identification



SATELEC

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[www.acteongroup.com](http://www.acteongroup.com)



## 10.5 Branch addresses

### **U.S.A. & Canada**

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124 Gaither Drive, Suite 140  
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## 10.6 Disposal and recycling

As an item of Electrical and Electronic Equipment, the medical device must be disposed of via a specialist collection, removal, recycling or destruction channel. This applies in particular to the European market, in reference to Directive 2002/96/EC dated 27/01/2003.

When your medical device has reached the end of its service life, contact your nearest dental equipment dealer, or the Acteon head office or one of the company branches to find out how to proceed. The relevant contact details are given in the chapter *Branch addresses* page 27.



| The indication below applies to France only.

In compliance with the provisions of the French Environment Code relating to the disposal of electronic and electrical equipment waste or WEEE (Decree no. 2012-617 dated 2 May 2012), our Company fulfils its obligations to reclaim and dispose of its electrical and electronic equipment through the means established by the approved organisation Réylum, NOR approval: DEVP1427651A.

As a manufacturer, our Company is listed in the National Register of Producers kept by the ADEME (French Environment and Energy Management Agency). Professionals buying our products directly from the distribution chain are responsible for passing on this information about our established recycling methods to the end user.

In addition, the buyer agrees to take back our brand's devices at the end of their service life and to transfer them to one of the collection centres set up by Réylum for recycling (see list of collection centres on the site

<http://www.recylum.com/>).

If necessary, Réylum can come and collect these devices from you free of charge once the quantity of devices has reached a certain level in the pallets-containers with which you are provided to store this waste.



An accessory that has reached the end of its service life must be disposed of in infectious clinical waste containers.



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## **W**

wrench 5  
wrenches 5



User Manual | SLIM handpiece | J12921 | V6 | (13) | 09/2017 | NBAFEN030F

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