

StarDental® Instruments



NuTorque Lite Electric 1:1 Straight Attachment

Caution: Federal law restricts this device to sale by or on the order of a dentist.

Non-Sterile
Medical Device



Manufactured for
StarDental®
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Made In Japan

BEFORE OPERATING THE ATTACHMENT, CAREFULLY READ AND FOLLOW ALL OF THESE INSTRUCTIONS. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE AND OBSERVE ALL WARNINGS AND CAUTIONS.

Indications For Use

The handpiece is designed only for clinical dental treatment use by qualified personnel.



- When operating the handpiece always consider the safety of the patient.
- Do not disassemble nor alter handpiece.
- Check for vibration, noise and overheating outside the patient's oral cavity before use. If any abnormalities are found, stop using the handpiece immediately and contact authorized dealer.
- Do not connect or disconnect the handpiece until the motor has completely stopped.
- Always keep bur shanks clean. Dirt or debris in a chuck could cause poor bur concentricity or low chuck retention force.
- Wear protection glass and dust mask for your health and safety.

Connecting / Removing the Handpiece and the Motor

Connecting

Align handpiece and the motor, and insert it straight until end of the motor insertion.

Removing

Hold the handpiece and the motor and pull it out straight.

Changing Bur

Handpiece Bur

Inserting the Bur

1. Turn the Bur Lock Ring in the direction of mark {O} until it clicks.
2. Insert the bur.
3. Turn the Bur Lock Ring in the direction of the mark {C} until it clicks. Make sure Black Dots align (see picture below).

Removing the Bur

Turn the Bur Lock Ring in the direction of mark {O} until it clicks and remove the bur.

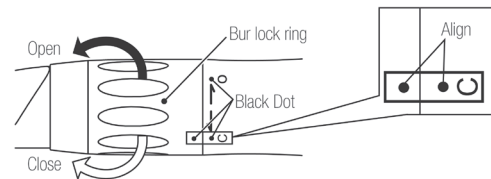


Fig. 1

Contra-Angle Bur

Inserting the Bur

1. Turn the Bur Lock Ring in the direction of mark [O] until it clicks. (Fig.1)
2. Insert the supplied bur stopper into the chuck. (Fig. 2)
3. Insert the Contra- Angle Bur until it stopped.

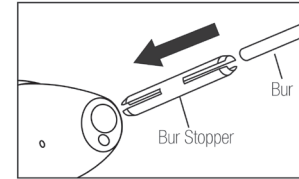


Fig. 2

4. Turn the Bur Lock Ring in the direction of the mark [C] until it clicks. Make sure Black Dots align.

Removing the Bur

Turn the Bur Lock Ring in the direction of mark [O] until it clicks and remove the bur.

Removing the bur stopper

1. Turn the Bur Lock Ring in the direction of mark [O] until it clicks.
2. Insert the supplied Bur Stopper puller into the chuck. Pull out the Bur Stopper by hooking at the slit of Bur Stopper. (Fig. 3)

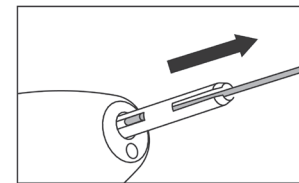


Fig. 3



- Make sure that the bur is securely locked in the chuck before each use. Improper mounting of the bur could cause the bur to spin out during rotation and endanger anyone in the vicinity.
- Insert bur stopper firmly into the handpiece until it stops. If inserted incorrectly, it may become difficult to remove. It may cause injury by loosening the chuck and dislodging the bur.
- Do not use bent, damaged or sub-standard burs. And do not exceed the drive motor speed recommended by the bur manufacturers. This may cause shank to bend or break even within the recommended speed.
- Do not use short shank Contra-Angle Bur. It may cause injury by loosening the chuck and dislodging the bur.
- Do not rotate the motor when the bur lock ring is at OPEN position, or a bur is not inserted in the chuck and do not turn the bur lock ring while the handpiece is rotating. It may cause the motor/handpiece disconnection or sudden heat generation.
- Bur and/or Bur Stopper should be inserted until it stopped. This will prevent "BUR WALK OUT", and/or damage the ball bearing.

Post-use Maintenance

1. Preparation

Remove the handpiece from the motor and detach the bur from the chuck.

2. Cleaning

Manual: Clean the external surface of handpiece with running water (<38°C, demineralized water recommended).

Automated: handpieces with this symbol are thermo-disinfector-ready and may be washed and disinfected by using a thermo-disinfector. When using a thermo-disinfector, be sure to follow its manufacturer's instructions.

3. Disinfection

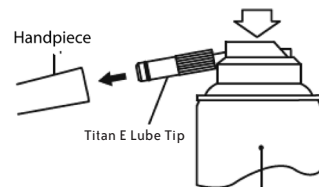
Manual: Wipe the external surface of handpiece carefully with cleaning or disinfectant solution.

4. Lubrication

Lubricate handpiece by using StarDental Lubricant, Electric HP. To prevent mist spray from escaping into the environment, use absorbent cloth. Expel excess lubrication.

Manual:

1. Push or screw nozzle. Shake the spray can 3-4 times.
2. Insert the spray nozzle in the rear of the handpiece and spray for approximately 2-3 seconds until the oil comes out of the handpiece nose.



CAUTION

- Be sure to hold the handpiece firmly to prevent the handpiece from slipping out by the spray pressure when lubricating.
- Keep the spray can upright.
- Use of lubricants other than StarDental Lubricant, Electric HP can cause excessive heat generation and possible handpiece damage.

Sterilization

Autoclave sterilization is recommended. Sterilization is required first time of use and after each patient as noted below. Autoclave Procedure:

1. Insert into an autoclave pouch. Seal the pouch.
2. Autoclavable up to a max. 135°C. Autoclave for 20 minutes at 121°C, or 15 minutes at 132°C.

NOTICE Sterilization at 121°C for more than 15 minutes is recommended by EN13060 or EN ISO17665-1

CAUTION

- Always place the handpiece in the center or upper shelf of the chamber, as the local temperature at the bottom of chamber could rise beyond the set value.
- Do not autoclave the handpiece even when it is bagged, together with other instruments, from which chemicals are not sufficiently cleaned. This is to avoid discoloration and/or damage the plating of the handpiece.
- Do not heat or cool the handpiece quickly. Rapid change in temperature could break the glass rod and give abnormal strain to other metals.
- We do not recommend you to sterilize on plasma sterilization or EOG sterilization.

Storage

Immediately after a sterilization cycle, remove handpiece from the autoclave. Keep them in a dust-free sterilized storage or bring them to a treatment room for use.

CAUTION

- The handpiece is kept in stable atmospheric pressure, temperature, humidity, ventilation and sunlight. Moreover, air does not include a dust, salt and sulfur.

Cleaning Glass Rod Optic End

In case the light had become dim, clean the Glass Rod Optic End with an alcohol-soaked cotton swab. (Fig. 4)

CAUTION

Do not use a sharp tool to clean the Glass Rod Optic End. It could damage the glass and reduce the light Transmission. If illumination becomes dim, contact dealer.

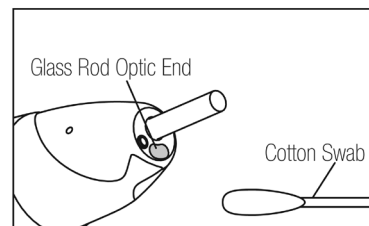


Fig. 4

Specifications

Model	1:1 Straight
Max Rotation Speed Motor	40,000min ⁻¹
Max. Rotation Speed (Handpiece)	40,000min ⁻¹
Gear Ratio	1:1 Direct Drive
Bur Type	ISO 1797-1 (EN ISO 1797-1) Type1 Ø2.35mm CA Bur, ISO 1797-1 (EN ISO 1797-1) Type2 Ø2.35mm HP Bur
Chuck Length	11.5mm (CA Bur), 29.5mm (HP Bur)
Max. Bur Length	22.5mm (CA Bur), 44.5mm (HP Bur)
Max. Working Part Diameter	Ø4.0mm
Optic	Glass Rod
Water Spray Type	Single
Water Consumption	≥50mL/min (0.20MPa)
Chip Air Consumption	≥1.5NL/min (0.20MPa)
Use Environment	Temperature: 10 - 35°C, Humidity: 30 - 75% (No Condensation)
Transportation and Store Environment	Temperature: -10 - 50°C, Humidity: 10 - 85%, Pressure: 500 - 1,060hPa

Symbols

- This product can be sterilized in a steam sterilizer up to Max 135°C.
- This product can be washed via Thermo Disinfecter.

Replacement Parts

NUTORQUE LITE 1:1 ELECTRIC STRAIGHT ATTACHMENT	263986
LUBRICANT, ELECTRIC HP	265138
TITAN E LUBRICATION TIP, PACKAGED	263026
STOPPER W/EXTRACTION TOOL REPL KIT	265140

Disposing Product

In order to avoid the health risks of operators handling the disposal of medical equipment, as well as the risks of environmental contamination caused thereof, a surgeon or a dentist is required to confirm the equipment is sterile. Ask specialist firms who are licensed to dispose of specially controlled industrial wastes, to dispose the product for you.

Limited Warranty

DentaleZ® warrants NuTorque Lite Electric Straight Attachment for 2 years from the date of purchase*.

Please note the following additional terms of our warranty policy:

- Warranty covers manufacturing defects only and does not cover defects resulting from abuse, accidents, misuse, improper handling, cleaning, care or maintenance or the failure to follow or observe our operating/ use, maintenance and/or installation instructions. Damage resulting from the use of chemicals, cleaners, disinfectants or sterilization is not covered under this warranty nor is normal wear and tear. **Failure to use authorized parts or an authorized repair facility voids this warranty.**
- **Liability is limited to repair or replacement of the defective part(s) or products at our sole discretion. All other liabilities, in particular liability for damages, including, without limitation, special, exemplary, consequential or incidental damages are excluded**
- THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO EMPLOYEE, REPRESENTATIVE OR DEALER IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR TO GRANT ANY OTHER WARRANTY.

*Provided conditions in warranty are met.



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Important Notice About Returning Product To The DentaleZ Inc.

Anyone wishing to return any DentaleZ Inc. product to a DentaleZ facility MUST obtain the proper RETURN AUTHORIZATION NUMBER from the Customer Service Department. The RA Number must appear clearly marked on both the outside and inside of the returned product carton. When calling for a return authorization number you will be asked to provide the following information:

- | | |
|--|---|
| To Obtain A Return Authorization Number Call 1-866-DTE-INFO | <ul style="list-style-type: none"> • Product Name, Model Number or Part Number • Serial Number of Product • Dealer Return Purchase Order Number • Reason For Return • Copy of Invoice Showing Purchase |
|--|---|

Items will be evaluated. Return Authorization Number is not a guarantee for credit. Your cooperation with this procedure will help us expedite processing of any returns.

WARRANTY REGISTRATION

 PLEASE VISIT THE WEBSITE BELOW TO REGISTER YOUR STARDENTAL PRODUCT. THIS WILL ENSURE PROPER REGISTRATION AND PROMPT AND ACCURATE SERVICE SHOULD ANY OF YOUR PURCHASES NEED EVALUATION OR REPAIR DURING THE WARRANTY PERIOD.

 StarDental® Products: www.dentalez.com/warranty