

DO NOT USE FOR ORAL SURGERY

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

Indications For Use

Low speed dental attachments are used intraorally by trained dental professionals for drilling and preparation of dental cavities for restoration, such as fillings. This also includes disking, cavity and crown preps, polishing, post and pint drilling and pin setting.

NOTICE Any serious incident occurring from the use of this device should be reported to StarDental immediately. If incident occurred in a EU Member State the Competent Authority must be notified.

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Features

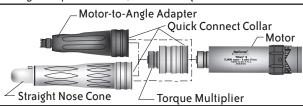
- LubeFree
- Smooth running, low friction performance
- Easy maintenance
- Long-term reliability
- Quick-disconnect mechanism
- Steam sterilization: 275° F (135° C) maximum

Sterilizable up to 135°C 555

Installation

CAUTION To prevent injury, always remove bur or cutting tool from the straight nose cone before installing or disconnecting the straight nose cone.

1. Assemble straight nose cone or motor-to-angle adapter to torque multiplier or motor by retracting the quick connect collar with fingers while placing straight nose cone or motor-to-angle adapter on motor; release the guick connect collar.



2. To remove straight nose cone, motor-to-angle adapter or torque multiplier, reverse the above procedure.

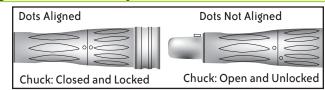
Note: Never use force to connect or disconnect the straight nose cone, motor-to-angle adapter or torque multiplier.

Torque Multiplier Operation

The torque multiplier, Titan® 3 StarDental® Part #258443 or Titan T StarDental Part# 263944, fits between the motor and either the straight nose cone or motor-to-angle adapter. Use the torque multiplier to reduce speed four to one and increase torque by a multiple of four.

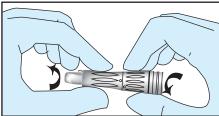
When used with the 20K motor, low speed capability expands to perform low speed, high torque procedures: prophylaxis, pin placement, endodontics, caries removal, and operations where higher torque is required.

Straight Nose Cone Operation



Engraved on the sleeve and chuck locking collar of the straight nose cone are two dots. Aligned dots indicate chuck is closed and locked. When dots are not aligned, chuck is open and unlocked.

To open chuck, grasp the chuck locking collar with one hand, the sleeve with the other, and rotate counterclockwise until a 'click' is heard.



With the chuck open, insert a .0925"(2.350mm)Ø shank bur, Doriot angle or disposable prophy angle the full length of the chuck. Close chuck and lock by reversing the opening procedure.

CAUTION Operate the straight nose cone with a bur, Doriot angle or disposable angle in chuck. Operating either with the chuck open or without a bur, Doriot angle or disposable angle installed will damage the chuck.

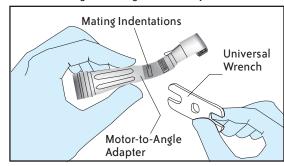
Angle Installation

1. Thread contra angle attachment of choice onto the motor-to-angle adapter, Titan-T BB StarDental Part #263970 or Titan 3 BB StarDental Part #264073, by hand. Seat completely.

Note: If angle does not seat on adapter, gears are not meshed correctly. Remove angle; spin motor-to-angle adapter drive gear and repeat step one.

Motor-to-Angle Adapter Drive Gear

2. Fit universal wrench, StarDental Part #203048, furnished with every angle, to mating indentations on angle neck; tighten securely.



Cleaning & Sterilization

| - | | | |
|---------------------------------|--|--|--|
| CAUTION | It is the responsibility of the user to use only FDA compliant sterilizing equipment and accessories that are capable of meeting the manufacturers recommendations below. | | |
| △CAUTION | Do not exceed 135°C Do not use: -immersion techniques -idetergents -idetergents -chemical disinfectors -told sterilizer -cold sterilizer -told steri | | |
| Limits on Reprocessing | chemical disinfectors hand soaps surgical milk Repeated processing has minimal effect on these attachments. End of life is normally determined by wear and damage due to use. | | |
| INSTRUCTIONS | | | |
| MARNING | The attachements must be cleaned and sterilized before first use and between patient use. | | |
| Containment and transportation: | d It is recommended that attachments are reprocessed as soon as is reasonably practical following use. | | |
| Preparation for cleaning: | Wear puncture-resistant gloves to prepare attachments for sterilization. Remove bur, disc or prophy cup from angle attachment. Disconnect straight nose cone, torque multiplier or angle and motor-to-angle adapter from motor. Disconnect angle from motor-to-angle adapter. | | |
| Cleaning Automated: | Washer-disinfectors are not recommended. | | |
| Cleaning-Manual: | | | |
| | Note: Do not rotate brush while inserting or removing. After removing brush, tap nose of chuck to expel debris. | | |
| | Do not adjust, disassemble or lubricate straight nose cone. | | |

| Cleaning-Manual: | Cleaning Brush | |
|--------------------------------|--|--|
| Continue | The state of the s | |
| | Clean all external surfaces of attachments and angles using a small brush and isopropyl alcohol. | |
| | Note: Only use isopropyl alcohol to clean attachments. DO NOT use any products that contain chlorine, such as disinfecting wipes or sprays. These can cause the attachments to corrode. | |
| | 2. Dry thoroughly. | |
| | 3. Place attachments in a sterilization bag; use paper or paper/plastic bags only. Follow the sterilization guidelines as stated by the manufacturer of your sterilizer. | |
| | 4. Remove attachments from sterilizer after the drying cycle and allow to cool in bag. | |
| Maintenance | Attachments should be routinely maintained, checked for corrosion, worn parts, etc. and should be replaced on an as needed basis. | |
| Lubrication : | No lubrication required. | |
| Disinfection: | Use steam sterilization exclusively for complete sterility as outlined below. | |
| Inspection & function testing: | ction See Installation, Operating Recommendations, and/or Troubleshooting sections of this manual. | |
| Packaging: | Single: A standard sterilization packaging material must be used. Ensure that the pack is large enough to contain the item without stressing the seals. | |
| Instrument Sterilization: | A wrapped motor or attachment should be steam sterilized at 132° C for a minimum of 10 minutes or at 121° C for a minimum of 50 minutes. Do not exceed 135° C. | |
| | An unwrapped motor or attachment should be steam sterilized at 132° C for a minimum of 8 minutes or at 121° C for a minimum of 30 minutes. Do not exceed 135° C. Note: An unwrapped handpiece motor needs to be used immediately or sterility is not maintained. | |
| Drying: | Always use complete dry cycle of sterilizer. Always allow product to cool in bag to room temperature prior to using. Contact your sterilizer manufacturer if moisture remains inside bag and on product after drying. | |
| Storage: | Store in bag after sterilization until ready to use. | |
| Additional | Do not exceed the sterilizer manufacturer's guidelines for load capacity. Use only | |
| Information: | paper or paper/plastic bags. | |
| Manufacturer | See first or last panels of this manual. | |

Contact:

Troubleshooting

Problem: LOW POWER

Cause: Crimped tubing

Correction: Straighten tubing inside and outside delivery head.

Cause: Debris build-up in attachment

Correction: Clean and lubricate the attachment (see Cleaning & Lubricating); and clean the motor (refer to Titan Motor Instruction Manual,

StarDental Part #062283).

Cause: Straight nose cone, motor-to-angle adapter or torque multiplier

mechanism is worn

Correction: Verify speed by attaching an alternate attachment. If alternate attachment shows better performance, send attachment to factory

for repair through your authorized dealer.

Cause: Air pressure

Correction: Verify proper motor air pressure

(refer to Titan Motor Instruction Manual, StarDental Part #062283).

Problem: BUR LOCKS IN CHUCK

Cause: Use of non-ISO burs

Correction: Always use ISO burs less than 24 mm overall length and a shank

length of at least 7.3 mm.

Problem: BUR SLIPS IN CHUCK

Cause: Use of non-ISO burs

Correction: Always use ISO burs less than 24 mm overall length and a shank

length of at least 7.3 mm.

Cause: Bur not properly installed

Correction: SNC - Remove and re-install bur per Straight Nose Cone Operation

section of this manual

Angle - Remove and re-install bur per the applicable section of the

angle's instruction manual

Note: Always use ISO burs to prevent locking and slipping of burs in chuck. If a problem persists, contact dealer for further assistance or **StarDental** Customer Service at 1-866-DTE-INFO.

Replacement Part Numbers

Always insist on **StarDental**® parts for best performance.

| Description | Item |
|-----------------------------------|----------|
| | |
| Titan® 3 Straight Nose Cone | 257506 |
| Titan T™ Straight Nose Cone | . 263942 |
| Straight Nose Cone Cleaning Brush | . 203043 |
| Straight Nose Cone Tip | 257504 |
| Titan 3 BB Motor-to-Angle Adapter | 264073 |
| Titan-T BB Motor-to-Angle Adapter | 263970 |
| Titan 3 Torque Multiplier | . 258443 |
| Titan T Torque Multiplier | . 263944 |
| Universal Wrench | . 203048 |

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

- 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.



For new products, manuals and technical information, call 1-866-DTE-INFO or visit our web site at www.dentalez.com.

Limited Warranty

DentalEZ® warrants the Titan® Low Speed System to be free of defects in material and workmanship, under normal usage, under the following terms:

StarDental® Products: Warranty Period*:

Titan Torque Multiplier 6 Months from date of purchase
Titan Straight Nose Cone 6 Months from date of purchase
Titan Motor to Angle Adapter 6 Months from date of purchase

Please note the following additional terms of our warranty and return policy:

- Warranties cover manufacturing defects only and do not cover defects resulting from abuse, improper handling, cleaning, care or maintenance, normal wear and tear or non-observance of operating, maintenance or installation instructions. Failure to use authorized parts or an authorized repair facility voids this warranty.
- Liability is limited to repair or replacement of the defective product at our sole discretion. All other liabilities, in particular liability for damages, including, without limitation, 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.

