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

To minimize risk of serious injury when using handpiece:
• Do not position handpiece on the skin. The high-speed spinning action may penetrate and injure the skin.
• Do not exceed 135°C.

Contents
430 SWL 45 and 432 SWL 45: High Speed Handpieces are designed to fit a 246 quick disconnect swivel. The 432 SWL 45 connects to a 3 pin NaCal swivel.

Specifications (Nominal)
430 SWL 45 Type Operating Air Pressure 45 psig +/− 10% (315 kPa) Max Pressure 60 psig (415 kPa) No Load Speed 465,000 rpm 260 quick disconnect swivel with 3-pin ISOB connections or 6-pin FO ISO connections

432 SWL 45 Type Operating Air Pressure 45 psig +/− 10% (315 kPa) Max Pressure 60 psig (415 kPa) No Load Speed 465,000 rpm 260 quick disconnect swivel with 3-pin ISOB connections or 6-pin FO ISO connections

Handpiece Installation
Note: Filter air and water supplies, recommended filtration 20 micros. Suction and delivery unit. Be sure filters operate effectively.
1. Grasp the suction in front of the bearing assembly between the thumb and index finger as shown.

2. With the suction in place, insert the swivel 3-way connector into the handpiece. Do not exceed 135°C.
3. Align and insert swivel tubes into the ISO connection holes.
4. While applying light pressure to hold in the connector holes, slide coupler forward and engage threads. Continue threading coupler clockwise until hand tight against the swivel.
5. Using the screw as a handle, tighten the screw by turning coupling until the coupling begins to rotate, then stop.

Handpiece Operation
• Use only recommended burs. An improperly clamped or bent bur, usually indicated by sudden high-pitched sound or increased vibration during use, may damage bur or increase wear on bur and/or handpiece.

CAUTION Never depress the end cap and use the end cap only against the end cap, never against the cuticle or against the nail.

To minimize risk of injury or damage to handpiece or auto chuck:
• Always insert the full length of the cuticle. If you attempt to remove from the cuticle, the bur may damage tissue and possibly damage the end cap.

CAUTION Never depress the end cap and use the end cap only against the end cap, never against the cuticle or against the nail.

To prevent premature damage to the turbine, do not exceed 135°C when using a HiFlo turbine.

Air Consumption:
• 30 to 34 psi with fiber optic tubing

Power:
• 12 watts

Tubing
• 5 feet tubing
• 34 psi + 5 psi = 39 psi

For example, if you want to operate at 34 psi and you are using either 5 feet or 12 feet of tubing, then the pressure should be set at 39 psi, the sum of 34 psi and the 5 psi increase due to tubing friction.

WARNING To prevent damage to the bur, use an acceptable handpiece.

Cleaning & Sterilization
• Do not use:
  • hand soaps
  • surgical milk
  • chemical disinfectors
  • ultrasonic cleaners
  • dry heat sterilizer

• Use DentalEZ® Dental Instrument Cleaner, Part# 205472, or water.

-Manual Cleaning:
  • Cleaning - Manual:
    • Rinse the bur thoroughly and allow it to dry, then Sterilize – See Sterilization.
  • Cleaning Diamond Burs:
    • After each use, clean the diamond bur against a wet diamond cleaning stone.
    • Use an air pressure stream to dry the bur.
    • Use an air pressure high-speed cleaning device to remove debris from the bur and to prevent premature bur failure by removing debris from the bur.

-Warranty: StarDental® handpieces are used by trained dental professionals for the removal of impacted third molars and periodontal procedures for which a conventional handpiece cannot be used.

WARNING Take extreme care when operating handpiece outside oral cavity. Do not use if it does not run concentrically or runs with excessive vibration.

Safety Instructions
To minimize risk of serious injury:
• Use genuine StarDental® lab/Ledu® 45 replacement turbine in the 432 SWL 45 handpiece. The StarDental® turbine is critical to the proper operation of the device. Using anything other than the lab/Ledu® 45 handpiece may cause severe injury to the operator.

To prevent premature damage to the turbine, do not exceed 135°C when using a HiFlo turbine.

WARNING

Handpiece Installation, continued
2. Align and insert swivel tubes into the ISO connection holes.
3. While applying light pressure to hold in the connector holes, slide coupler forward and engage threads. Continue threading coupler clockwise until hand tight against the swivel.
4. Using the screw as a handle, tighten the screw by turning coupling until the coupling begins to rotate, then stop.

Handpiece Operation
• Use only recommended burs. An improperly clamped or bent bur, usually indicated by sudden high-pitched sound or increased vibration during use, may damage bur or increase wear on bur and/or handpiece.

CAUTION Never depress the end cap and use the end cap only against the end cap, never against the cuticle or against the nail.

To prevent premature damage to the turbine, do not exceed 135°C when using a HiFlo turbine.

WARNING
Troubleshooting

Problem: AIR LEAKAGE AROUND BUR INTO WORK AREA
Cause: Housing pressure relief valve is clogged
Correction: Clean: Using ISO lubricant
Cause: Improper tubing replacement
Correction: Replace with StarDental® tubing per Turbine Replacement instructions

Problem: NO LIGHT OR INTERMITTENT LIGHT
Cause: Electrical connections
Correction: Verify connections: wall outlet-power pack, power pack-power lamp control, and lamp control connecting cable.
Cause: Creased signal line to lamp cap
Correction: Straighten signal line to allow free flow.
Cause: StarBright® Tubing: compression on lamp cap
Correction: Remove lamp cap from the StarBright® swivel connected and lamp cap contacts with propylene alcohol.
Cause: StarBright® Tubing: lamp burnt out
Correction: Replace a new StarBright® Tubing Part #406202 or when operating with a StarBright® Tubing Part #406242 or when using a non-StarBright® tub cap.

Problem: YELLOWISH LIGHT
Cause: Debris on optical surfaces
Correction: Clean all exposed optical surfaces. (Refer to Cleaning.)

Problem: REDUCED LIGHT
Cause: Low voltages
Correction: Refer to StarBright Fiber-Optic Electrical System & Handpiece Tubing Instruction Manual or contact StarBright® Customer Service at 1-866-DTE-INFO.

Problem: TURBINE SYSTEM
Cause: Low voltages
Correction: Refer to StarBright Fiber-Optic Electrical System & Handpiece Tubing Instruction Manual or contact StarBright® Customer Service at 1-866-DTE-INFO.

Problem: LACK OF POWER
Cause: Air pressure too low
Correction: Verify proper handpiece air pressure. (Refer to Handpiece installation.)
Cause: Creased tubing
Correction: Straighten tubing inside and outside delivery head.
Cause: Debris buildup
Correction: Clean: Inside of housing and end cap with藻和 alcohol.

Problem: WATER LEAKAGE
Cause: Brittle handpiece rear seal
Correction: Swivel O-ring worn
Correction: Replace both O-rings and reassemble the front of swivel using StarBright® Swivel O-ring Kit.

Problem: TURBINE REPLACEMENT
To avoid excessive wear, a replacement turbine kit is required when the turbine housing is removed from the handpiece for service. Clean tubing inside and outside delivery head and replace tubing.

1. Remove end cap with the end cap wrench.
2. Inspect housing before cleaning. Remove any obvious debris to prevent damage and to ensure performance of cartridge.
3. Connect handpiece and run air through turbine housing without turbine installed for 5 seconds.
4. Clean housing thoroughly with cotton swab and isopropyl alcohol. Dry with syringe air.
5. Replace handpiece assembly into housing and gently push in to ensure.
6. Engage and thread each of new end caps into housing by hand until snug.
7. Tighten end cap with the end cap wrench.

Turbine Replacement

Problem: EMERGENT NEEDS SWIVEL FROM HANDPIECE
Cause: Build-up of debris
Correction: Pouring water on swivel after removal of delivery head. Rotate swivel using a cotton swab. Drainage handpiece. Contact dealer if unable to drain remove. To prevent recurrence, refer to Cleaning.

Problem: LOW PRESSURE WATER STREAM
Cause: Clogged filters, tubes or water ports
Correction: Inspect and clean water filter in delivery head. Disassemble handpiece. Drainage handpiece. Contact dealer if unable to drain remove. To prevent recurrence, refer to Cleaning.

Problem: 430 SW, 430 SWL Handpiece: handpiece with autoclave Turbine
Correction: Swivel Assembly 430 SW, 430 SWL Turbine

Replacement Part Numbers

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Replacement Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivel O-ring Kit</td>
<td>Swivel O-ring Kit 263772</td>
</tr>
<tr>
<td>StarDental® Cleaning and Sterilization Kit</td>
<td>StarDental® Cleaning and Sterilization Kit 263772</td>
</tr>
<tr>
<td>Swivel O-ring Kit (Large or Small)</td>
<td>Swivel O-ring Kit 263772</td>
</tr>
<tr>
<td>HiFlo 6-pin Swivel Assembly: Fiber Optic</td>
<td>HiFlo 6-pin Swivel Assembly: Fiber Optic 263822</td>
</tr>
<tr>
<td>HiFlo 6-pin Swivel Assembly: 4-line Fiber Optic</td>
<td>HiFlo 6-pin Swivel Assembly: 4-line Fiber Optic 263822</td>
</tr>
<tr>
<td>StarBright® Tubing</td>
<td>StarBright® Tubing 263772</td>
</tr>
<tr>
<td>StarBright® Cleaning Wire</td>
<td>StarBright® Cleaning Wire 263772</td>
</tr>
<tr>
<td>StarBright® SPARKL® Dental Instrument Cleaner</td>
<td>StarBright® SPARKL® Dental Instrument Cleaner 263772</td>
</tr>
<tr>
<td>StarBright® Autochuck End Cap</td>
<td>StarBright® Autochuck End Cap 263772</td>
</tr>
<tr>
<td>StarBright® LubeFree Ceramic Bearing Autochuck Replacement Turbine</td>
<td>StarBright® LubeFree Ceramic Bearing Autochuck Replacement Turbine 263772</td>
</tr>
<tr>
<td>*Ship to a repair facility</td>
<td>*Ship to a repair facility 263772</td>
</tr>
<tr>
<td>StarBright® Air Bottle</td>
<td>StarBright® Air Bottle 263772</td>
</tr>
<tr>
<td>StarBright® Coolant Bottle</td>
<td>StarBright® Coolant Bottle 263772</td>
</tr>
<tr>
<td>StarBright® End Pieces</td>
<td>StarBright® End Pieces 263772</td>
</tr>
<tr>
<td>StarBright® Optical Assembly</td>
<td>StarBright® Optical Assembly 263772</td>
</tr>
<tr>
<td>StarBright® O-Ring Kit</td>
<td>StarBright® O-Ring Kit 263772</td>
</tr>
<tr>
<td>StarBright® Swivel O-Ring Kit</td>
<td>StarBright® Swivel O-Ring Kit 263772</td>
</tr>
<tr>
<td>StarBright® Turbine</td>
<td>StarBright® Turbine 263772</td>
</tr>
</tbody>
</table>

WARRANTY REGISTRATION

PLEASE VISIT ONE OF THE WEBSITES BELOW TO REGISTER YOUR TURBINE PRODUCT. THIS REGISTRATION IS IMPORTANT AS IT PROVIDES YOU WITH CONFIRMATION OF YOUR PURCHASE AND ENABLES YOU TO CALIBRATE YOUR TURBINE REGULARLY.

For Dental: Dentaltown.net/warranty
For Oral Care: CavityStop.com/warranty

Replacement Parts

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Replacement Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivel O-ring Kit</td>
<td>Swivel O-ring Kit 263772</td>
</tr>
<tr>
<td>StarDental® Cleaning and Sterilization Kit</td>
<td>StarDental® Cleaning and Sterilization Kit 263772</td>
</tr>
<tr>
<td>Swivel O-ring Kit (Large or Small)</td>
<td>Swivel O-ring Kit 263772</td>
</tr>
<tr>
<td>HiFlo 6-pin Swivel Assembly: Fiber Optic</td>
<td>HiFlo 6-pin Swivel Assembly: Fiber Optic 263822</td>
</tr>
<tr>
<td>HiFlo 6-pin Swivel Assembly: 4-line Fiber Optic</td>
<td>HiFlo 6-pin Swivel Assembly: 4-line Fiber Optic 263822</td>
</tr>
<tr>
<td>StarBright® Tubing</td>
<td>StarBright® Tubing 263772</td>
</tr>
<tr>
<td>StarBright® Cleaning Wire</td>
<td>StarBright® Cleaning Wire 263772</td>
</tr>
<tr>
<td>StarBright® SPARKL® Dental Instrument Cleaner</td>
<td>StarBright® SPARKL® Dental Instrument Cleaner 263772</td>
</tr>
<tr>
<td>StarBright® Autochuck End Cap</td>
<td>StarBright® Autochuck End Cap 263772</td>
</tr>
<tr>
<td>StarBright® LubeFree Ceramic Bearing Autochuck Replacement Turbine</td>
<td>StarBright® LubeFree Ceramic Bearing Autochuck Replacement Turbine 263772</td>
</tr>
<tr>
<td>*Ship to a repair facility</td>
<td>*Ship to a repair facility 263772</td>
</tr>
<tr>
<td>StarBright® Air Bottle</td>
<td>StarBright® Air Bottle 263772</td>
</tr>
<tr>
<td>StarBright® Coolant Bottle</td>
<td>StarBright® Coolant Bottle 263772</td>
</tr>
<tr>
<td>StarBright® End Pieces</td>
<td>StarBright® End Pieces 263772</td>
</tr>
<tr>
<td>StarBright® Optical Assembly</td>
<td>StarBright® Optical Assembly 263772</td>
</tr>
<tr>
<td>StarBright® O-Ring Kit</td>
<td>StarBright® O-Ring Kit 263772</td>
</tr>
<tr>
<td>StarBright® Swivel O-Ring Kit</td>
<td>StarBright® Swivel O-Ring Kit 263772</td>
</tr>
<tr>
<td>StarBright® Turbine</td>
<td>StarBright® Turbine 263772</td>
</tr>
</tbody>
</table>

Warranty Registration

The StarBright® StarDental® 430 SW, 430 SWL Turbine is warranted for a period of 5 years from the date of purchase*.

To Obtain A Return Authorization Number, Call: 1-866-DTE-INFO
Reason For Return
Copy of Return Shipping 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 www.dentalz.com

Limited Warranty

This warrant is limited to repair or replacement of the defective product at our sole discretion, and all liabilities, in particular liability for damages, resulting without express limitations of liability (e.g., losses due to failure of the product) are excluded. Customer is responsible for all costs incurred. Customer is responsible for all costs incurred. This warranty is exclusive of all other warranties, express or implied, including any implied warranties or merchantability, fitness for a particular purpose. This warranty is non-transferable.

Any modification or repair not authorized by us or any alteration of the software, to this product or any other product, which may void this warranty, is not authorized.

These warranties are void if there is any evidence of tampering, failure or abuse. These warranties are void if there is any evidence of tampering, failure or abuse. These warranties are void if there is any evidence of tampering, failure or abuse. These warranties are void if there is any evidence of tampering, failure or abuse. These warranties are void if there is any evidence of tampering, failure or abuse.

Contact your dealer for any available warranty. When calling for a return authorization number you will be asked to provide the following information:

• Product Name, Model Number or Part Number
• Serial Number of Product or Purchaser
• Number of Product
• Number of Purchaser
• Reason For Return

Failure to use authorized parts or an unauthorized repair facility voids this warranty. This warranty does not cover repairs or services performed by unauthorized repair facilities. Void the warranty for any repairs or services by unauthorized repair facilities.

Your purchase of the 430 SW, 430 SWL Handpiece with autoclave Turbine warrants a period of 5 years from the date of purchase with the exception of the light bulb which is warranted for a period of 6 months. The service life of the lamp is determined by the manufacturer of the lamp and is not warranted by StarDental.

Always insist on StarDental Parts for best performance. When ordering a replacement, be sure to order StarBright® Autochuck End Cap 261294, or contact StarDental® Customer Service at 1-866-DTE-INFO.

Always insist on StarDental Parts for best performance. When ordering a replacement, be sure to order StarBright® Autochuck End Cap 261294, or contact StarDental® Customer Service at 1-866-DTE-INFO.

Important Note About Replacement Product To The Dentalz® Group

Anyone wishing to return any Dentalz® replacement products to the Dentalz® Group 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:

• Product Name, Model Number or Part Number
• Serial Number of Product or Purchaser
• Number of Product
• Number of Purchaser
• Reason For Return

Copy of Return Shipping Purchase

Items will be evaluated. Return Authorization Number is not a gauge 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 www.dentalz.com.