

DENTSPLY
FRIADENT



ANKYLOS® XiVE® FRIALIT® FRIOS®

**Instructions for Sterilization
and Instrument Care**

General requirements for the preparation of medical devices

- Please pay attention to the valid legal regulations of your country as well as the hygiene guidelines for practices and clinics. In particular, please heed the guidelines regarding and effective inactivation of prions.
- The ever-present risk of contamination and infection must be excluded or reduced by specific preventive measures.
Among these are:
 - Assessment of the risks and dangers in connection with the medical treatment and definition of appropriate precautions
 - Schematization and systematization of work routines with the predominant aim of avoiding contamination and injuries
 - Careful anamnesis with special regard to the patient-induced risks of infection
- Not only used medical devices have to be considered contaminated but also those materials which are openly displayed. They must be prepared hygienically without exception. During transport it has to be assured that neither staff nor third parties are at risk. For their own safety, staff members must wear appropriate protective clothing and protective gloves.
- Medical devices should not be stored in physiological saline solution as a longer exposure might lead to corrosion. The parts must be moistened completely and bubble-free in a tub. For the final rinsing after disinfection, demineralized water is required in order to avoid water stains and crystal seeding which might disturb the subsequent process of sterilization.
- As you are responsible for the sterility of the applied medical devices, please keep in mind that only validated procedures must be used for cleaning, disinfection, and sterilization. All equipment has to be serviced at regular intervals, and all parameters must be observed in every cycle. Please observe the shelf-life of the sterile packaging of products (see manufacturer's instructions). Preparation ends with the release for application.
- Every sterile packaging should display an indicator of sterilization and should be marked with the date of sterilization.

Annotations for the preparation of DENTSPLY Friadent medical devices

- All medical devices produced sterile by DENTSPLY Friadent are intended for single use only and must not be re-sterilized.
- For medical devices which are not produced by DENTSPLY Friadent please, check the manufacturers' guidelines regarding preparation and re-usability.
- All demountable parts must be disassembled for cleaning and disinfection and assembled prior to sterilization. In case of disassembly, please only clean and disinfect the parts of one instrument in a lot.
- If an ultrasonic cleaning solution is used, the drills must be placed in a drill organizer.

Validated* sterilization procedure for DENTSPLY Friadent medical devices

1. Pre-disinfection (avoidance of cross contaminations)

Place all medical devices in a disinfectant bath** immediately after use. Remove all residues and disassemble demountable products.

2. Cleaning

Please use distilled water and neutral cleaning agents** only. The internal irrigation tube has to be cleaned with a Miller needle and must be rinsed with distilled water at the beginning and the end of the exposure time using a disposable syringe (min. 10 ml). The products must be cleaned with a plastic instrument cleaning brush and then rinsed with distilled water. Please check all products after cleaning in order to avoid either damaging and corrosion. Damaged products must be replaced.

3. Disinfection

Place all products in a germicidal bath**.

4. Rinsing and Drying

After removal of the products from the disinfectant bath, all components must be rinsed 3 times with distilled water (e.g. aqua purificata). Please dry all components thoroughly with a lint-free disposable cloth. Oil-free compressed air is mandatory for cleaning the internal irrigation tube. Please re-check all parts for damage or corrosion afterwards.

5. Preparation for sterilization

Please place all medical devices in the tray provided. Weld the sterilizable tray or the single medical devices in a sterile bag suitable for saturated steam.

6. Sterilization

The materials are sterilized in the autoclave for 7 minutes at 132 °C (270 °F) up to 134 °C (273.2 °F) or for 20 minutes at 121 °C (250 °F) – these are the minimum holding times, the time of operation is longer and may vary depending on the type of device used.

7. Storage

Store the sterilized parts dry and dust-free at room temperature.

* The sterilization procedure was validated according to the following guidelines:
1. DIN EN ISO 1764: Sterilization of medical devices
2. RKI guideline: 2001 Hygiene requirements for the preparation of medical devices (Bundesgesundheitsblatt (German Federal Health Gazette) 44:1115 – 1126)
** Please observe all manufacturers' guidelines for disinfection and cleaning agents with special regard to the concentration, exposure time and temperature. Only neutral disinfection solutions without chlorine, ammoniac and aldehydes and with a proven effectiveness against HBV, HCV, and HIV must be used. The products have to meet the respective national regulations for disinfectants (e.g. FDA approval, DGHM listing, CE marking). If disinfectants containing aldehydes are used, this might lead to a possible fixation of proteins. Please use only freshly prepared solutions.



IMPORTANT!

All medical devices which are supplied non-sterile must be prepared according to the manufacturers' guidelines prior to and after every use in patient treatment. This also applies for the very first use.

If a deviating procedure is applied, it must be validated by the practice or clinic.

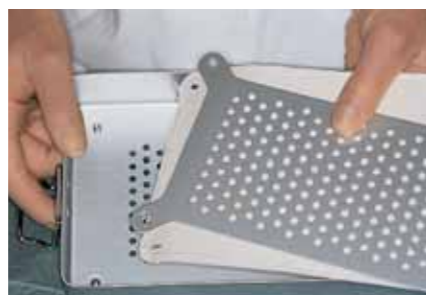
For information on the re-usability of medical devices, please check the

product label and the following list. Disposable products are marked with Ⓢ on the label. Products which are not suitable for sterilization in saturated steam due to their components have to be disinfected prior to use (see page 4). The disassembly/assembly of products and trays is described on page 4 and pages 12 – 15.

Conditioning of trays/kits

Trays/kits have to be conditioned after every utilization. Please disassemble them according to the following instructions.

- Please remove all products from the tray/kit and condition them as described.
- Please remove the basic plate and the accessory box, if present, from the tray/kit.
- Please remove the aluminum insert for separated cleaning.



PLEASE CONSIDER:

- When using ANKYLOS® kits please disassemble the plastic straps.
- Please replace possible existing sterile filters.
- Then prepare all individual components of the tray/kit. Re-assemble the tray/kit for sterilization and equip it with the required products..

IMPORTANT!

- The clear cover in the ANKYLOS® kits must not be sterilized.
- The tub-shaped insert (small box) in the FRIALIT® and XIVE® trays is no sterile container.

Special instructions for preparation of plastic trays

Filled trays must not be cleaned or disinfected.

When using the tray collect used instruments separately and do not replace them in the tray. This will prevent greater contamination and avoid having to clean and disinfect the filled tray.

Clean and disinfect the used instruments, then place them in the tray and sterilize the instrument tray with all the instruments in their places.

The initial disinfection cannot replace the subsequent disinfection step required after cleaning.

Use only neutral cleaning agents and disinfectants without chlorine, ammonia, phenol, aldehydes that are suitable for cleaning and disinfecting plastic instruments. Disinfectants must conform to the applicable national regulations for disinfectants (such as FDA approval, CE mark, DGHM/VAH listing). If disinfectants containing aldehyde are used, they may fix blood or protein. If ultrasonic baths are used, non-foaming cleaning agents and disinfectants must be used.

Use only water with a bioburden ≤ 10 CFU/ml and an endotoxin burden ≤ 0.25 IU/ml (e.g. water for cleaning or freshly prepared purified or ultrapurified water in accordance with the pharmacopoeia).



1. Pretreatment

Large or visible impurities must be removed from the trays immediately after use (no more than two hours later).

Remove all instruments from the trays (separate cleaning and disinfection as directed by the manual for sterilization and instrument care).

Use running water (move the parts back and forth thoroughly for at least one minute) or a disinfectant solution (rinse thoroughly three times). Use only a soft brush or a clean soft cloth, which is used for this purpose only, for manual removal of impurities, never metal brushes or steel wool.

Disassemble the trays completely.

2. Cleaning

Immerse the disassembled trays in a freshly prepared cleaning bath of the specified concentration for the period specified by the manufacturer.

Clean the surfaces with a soft brush until there is no visible contamination. Clean the holes separately with a fine brush. Clean the bottom of the modules thoroughly and also the parts between the hard and soft plastic parts.

After cleaning, rinse all parts thoroughly with water at least three times. Move the parts back and forth.

Special instructions for preparation of plastic trays

3. Disinfection

Immerse the disassembled tray into a freshly prepared disinfectant bath of the specified concentration for the period stipulated by the manufacturer.

4. Rinsing and drying

After disinfection, rinse all parts thoroughly with water as specified by the disinfectant manufacturer. Move the parts back and forth.

Dry all parts with lint-free disposable cloths (do not use recycled cloths). Use oil-free compressed air to dry holes.



5. Maintenance and assembly

Reassemble the trays. Do not use instrument oil or damaged trays.

6. Preparation for sterilization

Place the separately cleaned and disinfected instruments back into the trays.

Please pack the trays in disposable sterilization packs (single or double packs) and/or sterilization containers that conform to the following requirements:

- DIN EN ISO/ANSI AAMI ISO 11607
- suitable for steam sterilization (temperatures up to at least 137 °C (279 °F), adequate steam permeability)
- adequate protection of trays and sterilization packages from mechanical damage
- regular maintenance in accordance with the manufacturer's specifications (sterilization containers)

7. Sterilization

See instructions for sterilization and instrument care, page 3, section 6.

The internal padded insert is for protection during shipping only and must be removed before using the tray for the first time. The padded insert must never be sterilized.

All trays must be cleaned, disinfected and sterilized before using them for the first time and then after every use and every time they are contaminated. If greater contamination can be avoided (used instruments not returned to tray, no visible contamination on the tray), it is not necessary to clean and disinfect the trays. In this case the used instruments must be cleaned and disinfected separately and the loaded trays sterilized. However, thorough cleaning and disinfection is absolutely essential for effective sterilization.

Please also follow the relevant instructions on page 3.

List of trays / kits

	Material
ANKYLOS®	
ANKYLOS® Prosthetic Kit Mini	synthetics
ANKYLOS® Prosthetic Tray (complete/for Balance or Standard Systems)	aluminum/synthetics
ANKYLOS® Recovery Tray	aluminum/synthetics
ANKYLOS® Surgery Tray BoneCondenser	aluminum/synthetics
ANKYLOS® Surgery Tray BoneExpander	aluminum/synthetics
ANKYLOS® Surgery Tray Direction Gauge	aluminum/synthetics
ANKYLOS® Surgery Tray EA	aluminum/synthetics
ANKYLOS® Surgery Tray for A + B + C Implants (metal box)	aluminum/stainless steel/sterile filter
ANKYLOS® Surgery Tray for D Implants	aluminum/synthetics
ANKYLOS® Surgery-Kit (synthetic box)	synthetics/silicone
ANKYLOS® Tray Sinus Lift Instruments	aluminum/synthetics
ANKYLOS® Trial Abutment Tray Standard Abutments	aluminum/synthetics
FRIADENT®	
FRIADENT® Prosthetic Set Mini	synthetics
FRIADENT® Tray for Torque Ratchet	aluminum
FRIALIT®	
FRIALIT® BoneCondenser Tray	aluminum/stainless steel/synthetics
FRIALIT® BoneExpander Tray	aluminum/stainless steel/synthetics
FRIALIT® Prosthetic Tray	aluminum/stainless steel/synthetics
FRIALIT® Select Tray	aluminum/stainless steel/synthetics
FRIALIT® Surgical Tray	aluminum/stainless steel/synthetics
FRIOS®	
FRIOS® BoneCollector Tray	aluminum/synthetics
FRIOS® FixationSet Tray/EasyFix Tray	aluminum/synthetics
FRIOS® MicroSaw Tray	med. grade steel/synthetics/aluminum
FRIOS® SinusSet Tray	aluminum/synthetics
FRIOS® Unit Sterilization Tray	stainless steel/synthetics
XiVE®	
XiVE® BoneCondenser Tray	aluminum/stainless steel/synthetics
XiVE® Prosthetic Tray	aluminum/stainless steel/synthetics
XiVE® Security Kit Tray	aluminum/stainless steel/synthetics
XiVE® Select Try-in Implant Basic Set Tray	aluminum/synthetics
XiVE® Surgery Tray (metal box)	aluminum/stainless steel/synthetics
XiVE® Surgical Tray (synthetic box)	synthetics/silicone
XiVE® Tap Set Tray	aluminum/stainless steel/synthetics

List of medical devices for sterilization/disinfection

	Re-usability	Sterilization/ disinfection	Disassembly	Material
ANKYLOS® cutting and abrasive instruments				
ATP Punch	yes ^{1,4}	sterilization	yes	medical grade steel
BoneCondenser	yes	sterilization		Ti6Al4V
BoneExpander	yes	sterilization		medical grade steel
Drills, Milling Tools, Conical Reamers	yes ¹	sterilization		medical grade steel
Implant Recovery Instruments	yes	sterilization		medical grade steel
Mucosa Punch	yes ⁴	sterilization	yes	medical grade steel
Sinus Lift Instruments	yes	sterilization		medical grade steel
Taps	yes ¹	sterilization		medical grade steel
ANKYLOS® surgical components				
Assembly Device for Implants	yes	sterilization		titanium
Cooling Device	yes	sterilization		synth./copper (gold plated)
Direction Gauges Surgery	yes	sterilization		synthetics
Extra long Instruments	yes	sterilization		medical grade steel
Parallel Gauges for Drills	yes	sterilization		titanium
Surgical Mallet and Chisel	yes ²	sterilization		medical grade steel
Try-in Abutments	yes	sterilization		synthetics
Tweezers	yes	sterilization		titanium
ANKYLOS® ratchets, torque drivers, activators, deactivators				
Activator/De-activator for Matrix of Snap Attachment	yes	sterilization		med. grade steel/synthetics
Assembly Device	yes	sterilization		medical grade steel
Cover Cap for Ratchet Insert	yes	sterilization		medical grade steel
Handles	yes	sterilization		medical grade steel
Insertion Instruments for Implants	yes	sterilization		medical grade steel
Inserts for Prosthetic Ratchet	yes	sterilization		medical grade steel
Mounting Device Insert for Prosthetic Ratchet	yes	sterilization		medical grade steel
Open-end Wrench	yes	sterilization		medical grade steel
Placement Aids	yes	sterilization		medical grade steel
Prosthetic Ratchet	yes	sterilization	yes	medical grade steel
Ratchet Inserts for Implants	yes	sterilization		medical grade steel
Ratchet Inserts for Instruments	yes	sterilization		medical grade steel
Screwdriver Inserts	yes	sterilization		medical grade steel
Surgical Ratchet	yes	sterilization		medical grade steel
Unscrew Instruments for Cover Screws	yes	sterilization		medical grade steel

List of medical devices for sterilization/disinfection

	Re-usability	Sterilization/ disinfection	Disassembly	Material
ANKYLOS® screws/sleeves				
Screws	no	sterilization		Ti6Al4V
Sleeves / Threaded Sleeves	no	sterilization		Permador® PDF
ANKYLOS® impression taking / abutments				
Balance Anterior Abutments	no	sterilization		Ti6Al4V
Balance Base Abutments	no	sterilization		Ti6Al4V
Balance C / Temporary Abutments	no	sterilization		synthetics
CERCON® Balance Abutments	no	sterilization		ZrO ₂ -TZP/Ti6Al4V
Drilling Sleeve for SynCone®	no	sterilization		Ti6Al4V
Gingiva Former / Sulcus Former	no	sterilization		Ti6Al4V
Gold Coping DEGUNORM®	no	sterilization		DEGUNORM®
Gold Coping Permador® / Permador® PDF	no	sterilization		Permador®/Permador PDF
Gold Copings / Bars (Standard Abutment)	no	sterilization		DEGUNORM®/Permador®
Parallel Gauge	yes	sterilization		Ti6Al4V
Positioning / Polymerisation Sleeve	no	sterilization		synthetics
Regular C/X Abutments	no	sterilization		Ti6Al4V
Retention Copings	no	sterilization		Ti6Al4V
Standard Abutments (all)	no	sterilization		Ti6Al4V
Standard Abutments with Magnetic Attachment	no	sterilization		titanium/Sm ₂ Co ₁₇
Standard Abutments with Snap Attachment	no	sterilization		Ti6Al4V/Permador®
Sulcus Former	no	sterilization		Ti6Al4V
SynCone® Abutment	no	sterilization		Ti6Al4V
Taper Cap for SynCone®	no	sterilization		Degulor® 3406
Temporary Caps	no	sterilization ³		synthetics
Transfer Cap	no	disinfection		medical grade steel
Transfer Components for the Balance System	no	sterilization		medical grade steel
Wax-Up Copings	no	disinfection		synthetics
ANKYLOS® Repair Instruments				
Extraction pin	no	sterilization		medical grade steel
Handle for taper protection	no	sterilization		medical grade steel
Rachet insert for extraction pint	yes	sterilization		medical grade steel
Taper protection	no	sterilization		medical grade steel
Taps	no	sterilization		medical grade steel
Trepine	no	sterilization		medical grade steel
Unscrew Instrument	no	sterilization		medical grade steel

¹ All cutting or abrasive products have to be replaced after 20 usage cycles at the most or as occasion demands (e.g. due to bluntness).

² Resharpen if blunt

³ Final products can be sterilized (after casting)

⁴ Disposable product (punch cannula)

⁵ Disposable product (center pin)

PLEASE CONSIDER:
All materials qualify for medical use.
Please contact us for more detailed specifications.

IMPORTANT:
Not all products are available in every country!

XiVE®, FRIALIT®, FRIADENT®

List of medical devices for sterilization/disinfection

	Re-usability	Sterilization/ disinfection	Disassembly	Material
XiVE®, FRIALIT®, FRIADENT® cutting and abrasive instruments				
Drills, Stepped Drills, Depth Stops and Depth Stop Tools	yes ¹	sterilization	yes	medical grade steel
FRIADENT® BoneProfiler	yes ¹	sterilization		medical grade steel
FRIADENT® Periostome/Periostome Blades	yes/yes ¹	sterilization	yes	medical grade steel
FRIADENT® Tissue Punch	yes ¹	sterilization		medical grade steel
XiVE® / FRIALIT® BoneCondenser	yes ¹	sterilization		med. grade steel/synthetics
XiVE® / FRIALIT® BoneExpander	yes	sterilization		med. grade steel/synthetics
XiVE® / FRIALIT® Trepine Drills	yes ¹	sterilization		medical grade steel
XiVE® Taps	yes ¹	sterilization		medical grade steel
XiVE®, FRIALIT®, FRIADENT® surgical components				
FRIADENT® Depth Gauges, Gingiva Measuring Probes	yes	sterilization		titanium
FRIADENT® Drill Extensions	yes	sterilization		medical grade steel
FRIADENT® Implant Forceps	yes	sterilization		titanium
FRIADENT® Implant Mallet	yes	sterilization		med. grade steel/synthetics
FRIADENT® Radiographic Balls	yes	sterilization		medical grade steel
FRIADENT® Seating Instruments, Paralleling Pins	yes	sterilization		stainless steel
XiVE® / FRIALIT®, FRIADENT® Select Components	yes	sterilization		titanium
XiVE®, FRIALIT®, FRIADENT® ratchets, screwdrivers, implant drivers, activators, deactivators				
FRIADENT® Activator/Deactivator for Attachments	yes	sterilization		med. grade steel/synthetics
FRIADENT® Bar Clip Activator	yes	sterilization		medical grade steel
FRIADENT® Handpiece/Ratchet Hex/Slot Screwdrivers	yes	sterilization		medical grade steel
FRIADENT® Placement Instruments	yes	sterilization		titanium
FRIADENT® Ratchet	yes	sterilization	yes	medical grade steel
FRIADENT® Ratchet Inserts	yes	sterilization		medical grade steel
FRIADENT® Torque Drivers	yes	sterilization	yes	medical grade steel
XiVE® / FRIALIT®, FRIADENT® Implant Drivers	yes	sterilization		medical grade steel
XiVE® TG, FRIADENT® screws/sleeves				
FRIADENT® Cover Screws / MP Cover Screws	no	sterilization		titanium
FRIADENT® Fixation screws	no	sterilization		Ti6Al4V
FRIADENT® Standard Abutment Screws	no	sterilization		Ti6Al4V
FRIADENT® Thread Sleeves	no	sterilization		noble metal alloy
FRIADENT® Transfer Screws	no	sterilization		Ti6Al4V
XiVE® TG Abutment Screws	no	sterilization		Ti6Al4V
XiVE® TG Coping Screws	no	sterilization		Ti6Al4V
XiVE® TG Cover Screws for Implants	no	sterilization		titanium
XiVE® TG PickUp Guide Pins	no	sterilization		Ti6Al4V
XiVE®, FRIALIT®, FRIADENT® impression taking, abutments				
FRIADENT® CeraBase	no	sterilization		Al ₂ O ₃ /Ti6Al4V/titanium
FRIADENT® CERCON® Abutments	no	sterilization		ZrO ₂ -TZP
FRIADENT® Telescopic Abutments	no	sterilization		Ti6Al4V/titanium
FRIADENT® EstheticBase	no	sterilization		Ti6Al4V/titanium
FRIADENT® EsthetiCap	no	sterilization		synthetics

XiVE®, FRIALIT®, FRIADENT®, FRIOS®

List of medical devices for sterilization/disinfection

	Re-usability	Sterilization/ disinfection	Disassembly	Material
XiVE®, FRIALIT®, FRIADENT® impression taking, abutments				
FRIADENT® Gingiva Formers (all)	no	sterilization		titanium
FRIADENT® Gold Round Bars	no	sterilization		Noble metal alloy
FRIADENT® MP Abutments	no	sterilization		Ti6Al4V/titanium
FRIADENT® ProTect	no	disinfection		synthetics
FRIADENT® TempBase	no	sterilization		Ti6Al4V
FRIADENT® TempBase Cap	no	disinfection		synthetics
FRIADENT® Titanium Round Bars	no	sterilization		titanium
FRIADENT® Transfer Copings	no	sterilization		titanium
FRIADENT® TransferCap	no	disinfection		synthetics
FRIADENT®, XiVE® TG Attachment	no	sterilization		titanium
FRIADENT®, XiVE® TG AuroBase	no	sterilization ³		Noble metal alloy/syn.
FRIADENT®, XiVE® TG Castable Waxing Sleeves	no	sterilization ³		synthetics
FRIADENT®, XiVE® TG Cast-to Waxing Sleeves	no	sterilization ³		Noble metal alloy/syn.
FRIADENT®, XiVE® TG Gold Bar Copings	no	sterilization		Noble metal alloy
FRIADENT®, XiVE® TG Impression Copings	no	sterilization		titanium
FRIADENT®, XiVE® TG Titanium Bar Copings	no	sterilization		titanium
XiVE® TG Abutments	no	sterilization		titanium
FRIOS®				
Bone Stud Remover	yes ¹	sterilization		medical grade steel
Drill Set for FRIOS® SinusSet	yes ¹	sterilization		medical grade steel
FRIOS® BoneCollector (case)	yes	sterilization	yes	titanium
FRIOS® BoneShield FormSet	yes	sterilization		titanium/syn./aluminum
FRIOS® Drilling and Positioning Tool for Membrane Tacks	yes	sterilization		medical grade steel
FRIOS® EasyFix	yes	sterilization	yes	med. grade steel/titanium
FRIOS® Holder for Membrane Tacks	yes	sterilization		titanium
FRIOS® MicroSaw Chisel	yes ²	sterilization		medical grade steel
FRIOS® MicroSaw Protector	yes	sterilization		med. grade steel/nickel silver
FRIOS® Seating Instruments for Membrane Tacks	yes	sterilization		medical grade steel
FRIOS® Sinus instruments	yes	sterilization		Ti6Al4V/surgical steel
FRIOS® Trephines for Bone Removal	yes ¹	sterilization		medical grade steel
Trepine Drill	yes ¹	sterilization		medical grade steel

¹ All cutting or abrasive products have to be replaced after 20 usage cycles at the most or as occasion demands (e.g. due to bluntness).
² Resharpen if blunt
³ Final products can be sterilized (after casting)
⁴ Disposable product (punch cannula)
⁵ Disposable product (center pin)

PLEASE CONSIDER:
 All materials qualify for medical use.
 Please contact us for more detailed specifications.

IMPORTANT:
 Not all products are available in every country!

Disassembly/assembly of DENTSPLY Friadent medical devices

ANKYLOS® Surgical Ratchet/XiVE® Ratchet

Disassembly

- First please twist the reverse button
- Then press it down and loosen it by turning counter-clockwise. Now please release the milled ring nut from the ratchet by turning it counter-clockwise (1)



- Remove the sprocket with the return spring from the ratchet (2)
- Remove the return spring from the sprocket (3)



- Prior to sterilization, please lubricate the components with a thin layer of resin-free oil and let excess oil drip off

Assembly

- Please assemble the ratchet in reverse order



ANKYLOS® Prosthetic Ratchet/FRIADENT® Ratchet



Disassembly

- First unscrew the ratchet head (1) from the handle (5)
- Then please remove the ratchet insert for implant driver or the torque driver from the ratchet head
- Now remove the guide jacket (2), sprocket (3) and ratchet spring (4) from the ratchet head



- Now please remove the return spring from the sprocket
- Prior to sterilization, please lubricate the components with a thin layer of resin-free oil and let excess oil drip off

Assembly

- Please assemble the ratchet in reverse order



ANKYLOS®/FRIADENT® Torque Driver Inserts for Prosthetic Ratchet

Disassembly

- Press the rod at the end of the ratchet handle into the recess at the housing of the torque driver until the blade detaches from the housing



Assembly

- Insert the blade of the torque driver carefully while turning it clockwise into the housing



- Now turn the blade in the housing and press it until it locks with an audible "click".



Disassembly/assembly of DENTSPLY Friadent medical devices

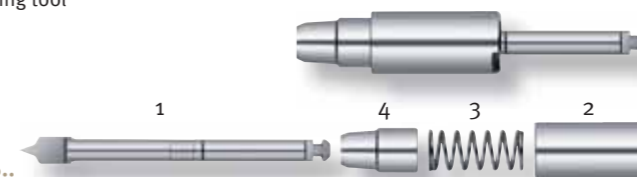
ANKYLOS® ATP Punch

Disassembly

- The ATP Punch is held together by a bayonet fitting and can be disassembled by just twisting
- Hold the housing of the ATP Punch and turn the milling tool (1) clockwise
- Now remove housing (2) and spring (3) from the milling tool
- Finally the punching sleeve (4) can be slid from the milling tool

Assembly

- Please slide the punching sleeve for the ATP Punch onto the milling tool
- Then turn the sleeve and the milling tool clockwise
- Now slide the spring and the housing onto the milling tool
- Finally please turn housing and milling tool clockwise



PLEASE CONSIDER::
The punching sleeve is disposable and has to be replaced after use



ANKYLOS® Mucosa Punch

Disassembly

- Loosen the cover screw with the screwdriver counter-clockwise from the large milled ring nut (1/2)
- Now please remove the center pin with the spring (3)



- Loosen the small milled ring nut by turning it counter-clockwise
- Now remove the punching cannula from the clamping chuck

Assembly

- Please assemble in reverse order

Altering the working length

- Loosen the cover screw on the large milled ring nut with the screwdriver of the mucosa punch
- When removing the screw, please be careful with the compression spring of the punch (spring loaded!)
- Now remove the center pin with the compression spring, place the compression spring onto the required

length of the center pin and insert it back into the mucosa punch (Please consider the pinpoint!)

- When screwing in the cover screw, please avoid pinching of the compression spring



Changing the punching cylinder

- Turn the small milled ring nut against the large one and unscrew it
- Then please remove the punching cannula from the clamping chuck and turn or replace it (5)

- Please pay attention to the pinpoint when inserting the punching cannula

PLEASE CONSIDER:
The center pin and the punching cannula are disposable.

Disassembly/assembly of DENTSPLY Friadent medical devices

XiVE® Depth Stops for Twist Drills

Disassembly

- Place the tip of the drill on a soft pad (e.g. surgical cloth)
- Now please remove the depth stop manually over the tip of the drill

Assembly

- Please push the depth stop manually over the tip of the drill



PLEASE CONSIDER:
The depth stops of XiVE® twist drills are not pre-mounted

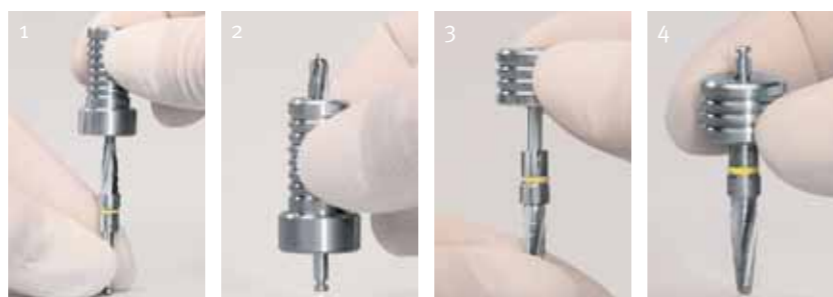
FRIALIT® Drill Depth Stop Tool (from D 3,4 on)

Disassembly

- Place the tip of the drill on a soft surface (1/2)
- Now please remove the depth stop from the drill using the long depth stop tool

Assembly

- Please mount the depth stop onto the drill using the short depth stop tool onto the drill



PLEASE CONSIDER:
The depth stops of the FRIALIT® stepped drills universal are not pre-mounted.

FRIADENT® Periotome

Disassembly

- Please loosen the head of the instrument counter-clockwise from the handle
- Then please remove the blade from the working part

Assembly

- Please assemble in reverse order



PLEASE CONSIDER:
During assembly, the driving stud of the blade must be inserted in one of the notches at the working part

Disassembly/assembly of DENTSPLY Friadent medical devices

FRIOS® BoneCollector

Disassembly

- First remove the disposable suction tube (1) from the particulate container (2)
- Then strip the suction unit adapter (3) from the suction unit (4)
- Now please unscrew the particulate container from the suction unit
- Please remove the titanium filter (5) from the suction unit adapter

Assembly

- Please assemble in reverse order



PLEASE CONSIDER:
The suction tube and titanium filter have to be disposed after use. The sterile titanium filter and the sterile disposable suction tube are inserted into the BoneCollector housing immediately prior to use

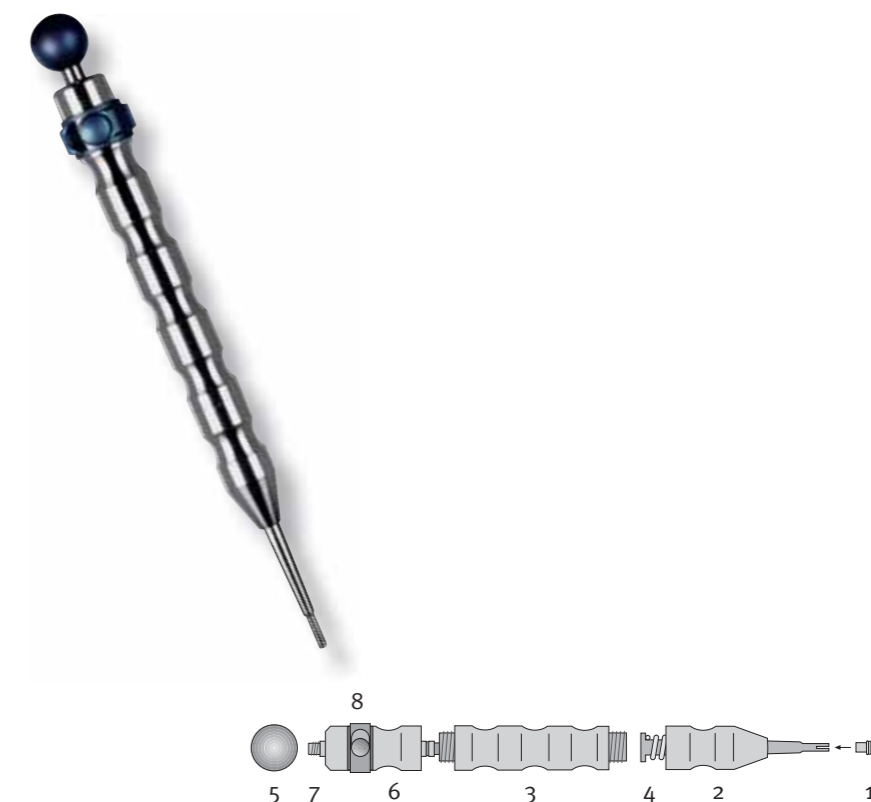
FRIOS® EasyFix

Disassembly

- Remove the protective cap (1)
- Now please unscrew the tip (2) of the centerpiece (3) and remove the working part with the return spring
- Then unscrew centerpiece and end
- Please unscrew the sphere (5) from the retracting handle (6) and remove the clamp pin (7) from the end
- Let the trigger drop from the end
- Finally please remove the securing ring from the end

Assembly

- Please assemble in reverse order



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CE for FRIADENT Class I Devices

CE 0123 for FRIADENT Class II a, II b and III Devices

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