## Instructions for Use (IFU)

## **Separable Fastener**



#### Manufacturer:



Smart Denture Conversions, LLC
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Suite 320
Apex NC, 27511
855-550-8787
www.SmartDentureConversions.com

## Training:

The following descriptions are insufficient to allow immediate use of the Smart Denture Conversions' system. Knowledge of implant-prosthetic treatment and instruction in the handling of the Smart Denture Conversions' system provided by an operator with the relevant experience are necessary. It is strongly recommended that new and experienced users of Smart Denture Conversions' products complete special training before using a new product for the first time. Smart Denture Conversions offers a variety of training options. Please go the www.SmartDentureConversions.com for more information.

#### **Product Description:**

The Smart Denture Conversions' Separable Fastener secures the TiBase to the multi-unit abutment the same way as a prosthetic screw, except the PEEK Cap (screw head) and the Threaded Post are designed to separate, allowing the denture to be removed from the mouth. The PEEK Cap will disengage and remain in the TiBase for the pickup while the Threaded Post remains in the multi-unit abutment. Smart Denture Conversions' Separable Fasteners are offered in two sizes across 5 styles. The table below summarizes the items:

Name	Part Number	Compatible TiBase	Material	# of Uses
Standard Separable Fastener, Unigrip	ASF-001	SF-003	300 Series Stainless Steel And Unfilled PEEK (Poly-Ether Ether	Single
Tall Separable Fastener, Unigrip	ASF-001L	SF-004		
Standard Separable Fastener, Extended Thread	ASF-002	SF-003		
Tall Separable Fastener, Extended Thread	ASF-002L	SF-004		
Standard Separable Fastener, Tilobe	ASF-003	SF-003		
Tall Separable Fastener, TiLobe	ASF-003L	SF-004		
Standard Separable Fastener, Paltop	ASF-004	PT-003	Ketone)	
Tall Separable Fastener, Paltop	ASF-004L	PT-004	-	
Standard Separable Fastener, 0.05" Hex	ASF-005	SF-003		
Tall Separable Fastener, 0.05" Hex	ASF-005L	SF-004		

#### **Indications for Use:**

Separable Fasteners are indicated for use with Smart Denture Conversions' TiBases and screw-retained multiple-unit Abutments in the maxilla and mandible. Standard Separable Fasteners should be used with Standard TiBases and Tall Separable Fasteners should be used with Tall TiBases. Separable Fasteners are designed to withstand enough torque to hold the TiBase to the multi-unit abutment, Lab Analog or Coating Mandrel, but not too much to prematurely separate the Separable Fastener. Smart Denture Conversions' Separable Fasteners are intended for single use. Re-use of single use devices creates a potential risk of patient or user infection and misfitting components. For more specific information on process steps, please refer to the Technique manual located on the website <a href="https://www.SmartDentureConversions.com">www.SmartDentureConversions.com</a>.

IFU-001 Rev-C (Draft) Page **1** of **6** 



**Note:** It is suggested to use the Torque Driver to properly tighten the Separable Fastener and the axis' must be properly aligned to ensure the proper amount of torque is transferred while tightening. Applying too much torque when tightening the Separable Fastener can cause the threaded post to continue to screw into the mating component and cause the PEEK Cap to separate. To correct this, ensure the top of the threaded section of the Threaded Post is flush with the top of the MUA. This can be done either by hand or by using the Retrieval Tool in a contra angle. With the Threaded Post at the proper height, the Peek Cap can simply be pressed back on, then turned clockwise slightly to ensure a snug fit.

#### **Contraindications:**

It is contraindicated to using Smart Denture Conversions' Separable Fasteners in:

- Patients who are medically unfit for an oral surgical procedure.
- Patients in whom adequate sizes, numbers or desirable positions of implants are not reachable to achieve safe support of functional or eventually parafunctional loads.
- Patients who show signs of allergy or hypersensitivity to the chemical components of the materials listed in the chart above.

#### Warning:

- Components are to be used by dental health care professionals and are to be used in patients subject to dental implant treatment.
- If the indication or the nature of use is not clear, do not use until all points have been clarified.
- Do not use if package is damaged.
- Always inspect components before use. Do not use damaged, deformed, corroded, or discolored components.
- Ensure products are secured against aspiration when handled intraorally. Aspiration of products may lead to infection or unplanned physical injury.
- Failure to follow the procedures outlined in these instructions may lead to any or all of the following complications: Aspiration or swallowing of a component, follow-up treatment, incorrect impression resulting in incompatible restorations.
- As the clinical outcome of dental treatment is influenced by multiple variables, even if the product is used
  according to the instructions for use the residual risks described below can. anaphylaxis (severe allergic
  reaction); aspiration or swallowing of components; pain; local infection; inflammation; local irritation; loss of
  product function; follow-up treatment.
- Smart Denture Conversions is not liable for damage resulting from use outside the intended use of the product.

#### **Cautions/Precautions:**

The following precautions are required before or during treatment:

- Do not use Smart Denture Conversion components after the expiration date on packaging (if applicable).
- All products intended for single use must not be reused. Re-use of single use devices creates a potential risk of patient or user infection and misfitting components.
- Before every procedure make sure that all required components, instruments, and auxiliary equipment are complete, in operating order and available in the required quantity.
- If, due to unfavorable anatomical conditions, instruments do not fit or cannot be used for other reasons, the course of treatment planned with them must not be continued and alternatives must be sought.
- Always wear suitable personal protective equipment for your own safety.
- Position the patient such that the danger of aspiration of components is minimized.
- All components used in the patient's mouth must be secured to prevent aspiration and swallowing.

IFU-001 Rev-C (Draft) Page **2** of **6** 



#### Magnetic Resonance Imaging (MRI) Safety Information:

All Smart Denture Conversion LLC products which remain in the patient's body have not been evaluated for safety and compatibility in the MR environment. They have not been tested for heating, migration, or image artifact in the MR environment. The safety of the Smart Denture Conversion LLC products in the MR environment is unknown. Scanning a patient who has such a product may result in patient injury.

#### **Cleaning and Sterilization Instructions:**

Components are delivered non-sterile by Smart Denture Conversions and are intended for single use. Prior to use, the devices must be cleaned and sterilized by the user.

Sterilization is to be performed corresponding to the following scheme:

Preparation for sterilization: Place components in a sterilization pouch which is legally marketed (for the US market: FDA-cleared) for use with the recommended sterilization parameters. Every sterilization package must have a sterilization indicator and sterilization date.

#### 2. Sterilization:

Method	Cycle	Temperature	Exposure Time*	Dry Time	Cooling Time	Reference
Steam	Dynamic Air Removal (Prevacuum)	132°C (270°F)	4min	20min	30min	ANSI/AAMI
Steam	Gravity Displacement	121°C (250°F)	30min	30min	30min	TIR12:2010
Steam	Gravity Displacement	132°C (270°F)	15min	30min	30min	

<sup>\*</sup>Minimum exposure times, the operating times are longer and may vary depending on the device.

#### **Storage, Handling and Transportation:**

The devices must be stored in a dry place in their original packaging at room temperature and protected from direct sunlight. Improper storage may compromise essential material and design characteristics, leading to device failure.

#### Disposal:

Safely discard potentially contaminated or no longer usable medical devices as healthcare (clinical) waste in accordance with local healthcare guidelines, country and government legislation or policy. Separation, recycling or disposal of packaging material shall follow local country and government legislation on packaging and packaging waste, where applicable. If there is no current legislation, pack them in a perforating waste/sharps disposal container and dispose of them in hospital waste.

IFU-001 Rev-C (Draft) Page **3** of **6** 



### **Basic UDI-DI Information:**

The following table lists the Basic UDI-DI information for the devices described in this IFU.

Product	Catalog Number	Included Parts	Basic UDI-DI Number	
Separable Fastener 10-Pack	SF10PK	ASF-001	+D990SF10PK0	
Tall Separable Fastener 10-Pack	TSF10PK	ASF-001L	+D990TSF10PK0	
Separable Fastener 10PK, Ext. Thread	TFMV-SF10PK	ASF-002	+D990TFMV-SF10PK0	
Tall Separable Fastener 10PK, Ext. Thread	TFMV-TSF10PK	ASF-002L	+D990TFMV-TSF10PK0	
Tall Separable Fastener 10-Pack, w/	DDUS-			
Cementation Aid, Ditron	TSFCA10PK	ASF-001L	+D990DDUS-TSFCA10PK0	
Separable Fastener 10PK, TiLobe (Quad				
Drive)	KDTL-SF10PK	ASF-003	+D990KDTL-SF10PK0	
Separable Fastener, Tall 10PK, TiLobe	WDTI T05400W	465.0001	DOGGUETI TETADUG	
(Quad Drive)	KDTL-TSF10PK	ASF-003L	+D990KDTL-TSF10PK0	
Separable Fastener 10PK, Paltop (IHex)	KDIH-SF10PK	ASF-004	+D990KDIH-SF10PK0	
Separable Fastener, Tall 10PK, Paltop	VDIII TCC10DV	ASE 0041	+ D000KDIII TSE10BK0	
(IHex)	KDIH-TSF10PK	ASF-004L	+D990KDIH-TSF10PK0	
Separable Fastener 10PK, 0.05" Hex	FZMF-SF10PK	ASF-005	+D990FZMF-SF10PK0	
Tall Separable Fastener 10PK, 0.05" Hex	FZMF-TSF10PK	ASF-005L	+D990FZMF-TSF10PK0	
Tall Spare Parts Kit, 0.05" Hex	FZMF-TSP	ASF-005L	+D990FZMF-TSP0	
Premium Starter Kit, SDC	PSK	ASF-001/ASF-001L	+D990PSK0	
Starter Kit, SDC	SK	ASF-001/ASF-001L	+D990SK0	
Recharge Kit w/ Tall Spare Parts, SDC	RK 🔦	ASF-001/ASF-001L	+D990RK0	
Recharge Kit w/ POC, SDC	RKPOC	▲ ASF-001	+D990RKPOC0	
Separable Fastener Assembly 10-pack with Drill kit	SFA10PKDK	ASF-001	+D990SFA10PKDK0	
Tall Spare Parts Kit, SDC	TSP	ASF-001L	+D990TSP0	
Premium Starter Kit, Straumann	PSK-ST	ASF-002/ASF-002L	+D990PSK-ST0	
Starter Kit, Straumann	SK-ST	ASF-002/ASF-002L	+D990SK-ST0	
Recharge Kit w/ Tall Spare Parts,		·	DOODLY STO	
Straumann	RK-ST	ASF-002/ASF-002L	+D990RK-ST0	
Recharge Kit w/ POC, Straumann	RKPOC-ST	ASF-002	+D990RKPOC-ST0	
Separable Fastener Assembly 10-pack with Drill kit, Straumann	SFA10PKDK-ST	ASF-002	+D990SFA10PKDK-ST0	
Tall Spare Parts Kit, Straumann	TSP-ST	ASF-002L	+D990TSP-ST0	
Premium Starter Kit, TiLobe	KDTL-PSK	ASF-003/ASF-003L	+D990KDTL-PSK0	
Starter Kit, TiLobe	KDTL-SK	ASF-003/ASF-003L	+D990KDTL-SK0	
Recharge Kit w/ Tall Spare Parts, TiLobe	KDTL-RK	ASF-003/ASF-003L	+D990KDTL-RK0	
Recharge Kit w/ POC, TiLobe	KDTL-RKPOC	ASF-003	+D990KDTL-RKPOC	
Separable Fastener Assembly 10-pack	KDTL-SFA10PKDK	ASF-003	+D990KDTL-SFA10PKDK0	
with Drill Kit, TiLobe				
Tall Spare Parts Kit, TiLobe	KDTL-TSP	ASF-003L	+D990KDTL-TSP0	
Premium Starter Kit, Paltop	KDIH-PSK	ASF-004/ASF-004L	+D990KDIH-PSK0	
Starter Kit, Paltop	KDIH-SK	ASF-004/ASF-004L	+D990KDIH-SK0	
Recharge Kit w/ Tall Spare Parts, Paltop	KDIH-RK	ASF-004/ASF-004L	+D990KDIH-RK0	
Recharge Kit w/ POC, Paltop	KDIH-RKPOC	ASF-004	+D990KDIH-RKPOC0	
Separable Fastener Assembly 10-pack with Drill kit, Paltop	KDIH-SFA10PKDK	ASF-004	+D990KDIH-SFA10PKDK0	
Tall Charo Darte Vit Dalton	KDIH-TSP	ASF-004L	+D990KDIH-TSP0	
Tall Spare Parts Kit, Paltop	KDIII 131	A31 004L	י ווושאטפכטי	

IFU-001 Rev-C (Draft) Page 4 of 6



Starter Kit, BioHorizons	BHHD-SK	ASF-005/ASF-005L	+D990BHHD-SK0
Recharge Kit w/ Tall Spare Parts, BioHorizons	BHHD-RK	ASF-005/ASF-005L	+D990BHHD-RK0
Recharge Kit w/ POC, BioHorizons	BHHD-RKPOC	ASF-005	+D990BHHD-RKPOC0
Separable Fastener Assembly 10-pack with Drill kit, BioHorizons	BHHD- SFA10PKDK	ASF-005	+D990BHHD-SFA10PKDK0
Premium Starter Kit, TSV	ZVTS-PSK	ASF-005/ASF-005L	+D990ZVTS-PSK0
Premium Starter Kit, Low Profile	ZVLP-PSK	ASF-005/ASF-005L	+D990ZVLP-PSK0
Recharge Kit w/ Tall Spare Parts, TSV	ZVTS-RK	ASF-005/ASF-005L	+D990ZVTS-RK0
Recharge Kit w/ Tall Spare Parts, Low Profile	ZVLP-RK	ASF-005/ASF-005L	+D990ZVLP-RK0
Recharge Kit w/ POC, TSV	ZVTS-RKPOC	ASF-005	+D990ZVTS-RKPOC0
Recharge Kit w/ POC, Low Profile	ZVLP-RKPOC	ASF-005	+D990ZVLP-RKPOC0
Separable Fastener 10PK, ZimVie	ZV-SF10PK	ASF-005	+D990ZV-SF10PK0
Tall Separable Fastener 10PK, ZimVie	ZV-TSF10PK	ASF-005L	+D990ZV-TSF10PK0
Separable Fastener Assembly 10PK - Drill Kit Included, TSV	ZVTS-SFA10PKDK	ASF-005	+D990ZVTS-SFA10PKDK0
Separable Fastener Assembly 10PK - Drill Kit Included, Low Profile	ZVLP-SFA10PKDK	ASF-005	+D990ZVLP-SFA10PKDK0

## Validity:

Upon publication of these instructions for use, all previous versions are superseded.

## **Availability:**

Some items of Smart Denture Conversions are not available in all countries.





### Warranty:

Please visit <u>www.SmartDentureConversions.com</u> for the most up to date warranty information.

## **Symbols Glossary:**

The following Symbols may be present on the device labeling or in information accompanying the device. Refer to the device labeling or accompanying information for the applicable symbols.

	Manufacturer		Date of Manufacture
<u> </u>	Use By Date	SN	Serial Number
LOT	Batch Code	REF	Catalog Number
UDI	Unique Device Identifier	MD	Medical Device
CE	CE Mark	UK RP	UK Representative
UK	United Kingdom Conformity Assessment Mark	UK CA 0086	United Kingdom Conformity Assessment Mark with Approved Body Number
EC REP	European Representative	NON	Non-Sterile
STERILE	Comes Sterilized	STERILE A	Comes Sterilized using Aseptic Processing
STERILEEO	Comes Sterilized using Ethylene Oxide Processing	STERILE R	Comes Sterilized using Irradiation Processing
STERILE	Comes Sterilized using Dry Heat Processing	STERMIZE	Do Not Resterilize
2	Do Not Reuse	i	Consult Instructions for Use
#	Keep Dry	*	Keep Away from Sunlight
RX Only	For Prescription Use Only	<u> </u>	Caution, Consult Accompanying Documents

IFU-001 Rev-C (Draft) Page 6 of 6