

Dentium Instruments
for Total Solution

Catalog & Manual

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Guide System

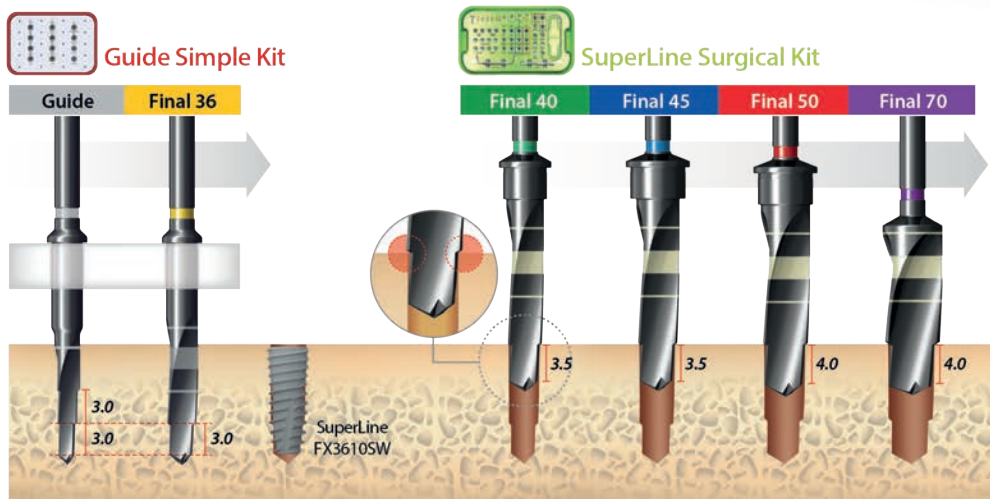
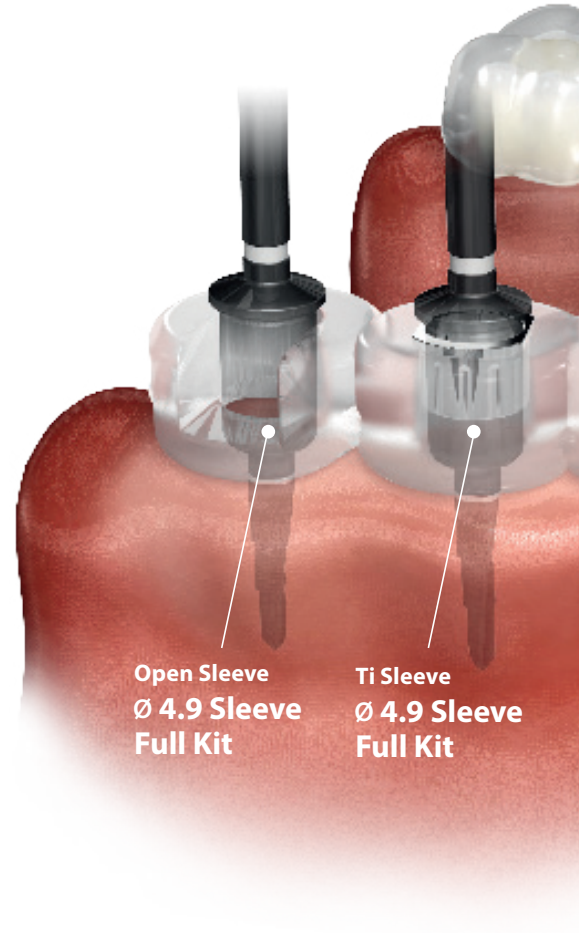
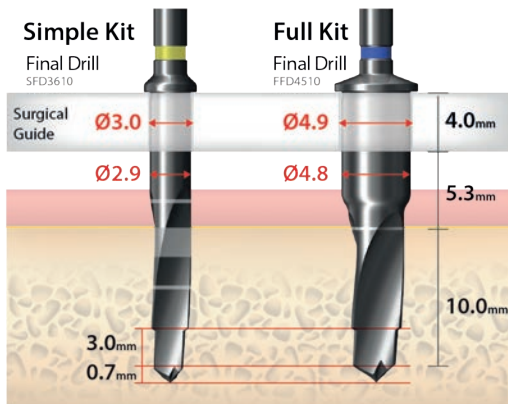
Digital Guide
Full kit & Simple Kit

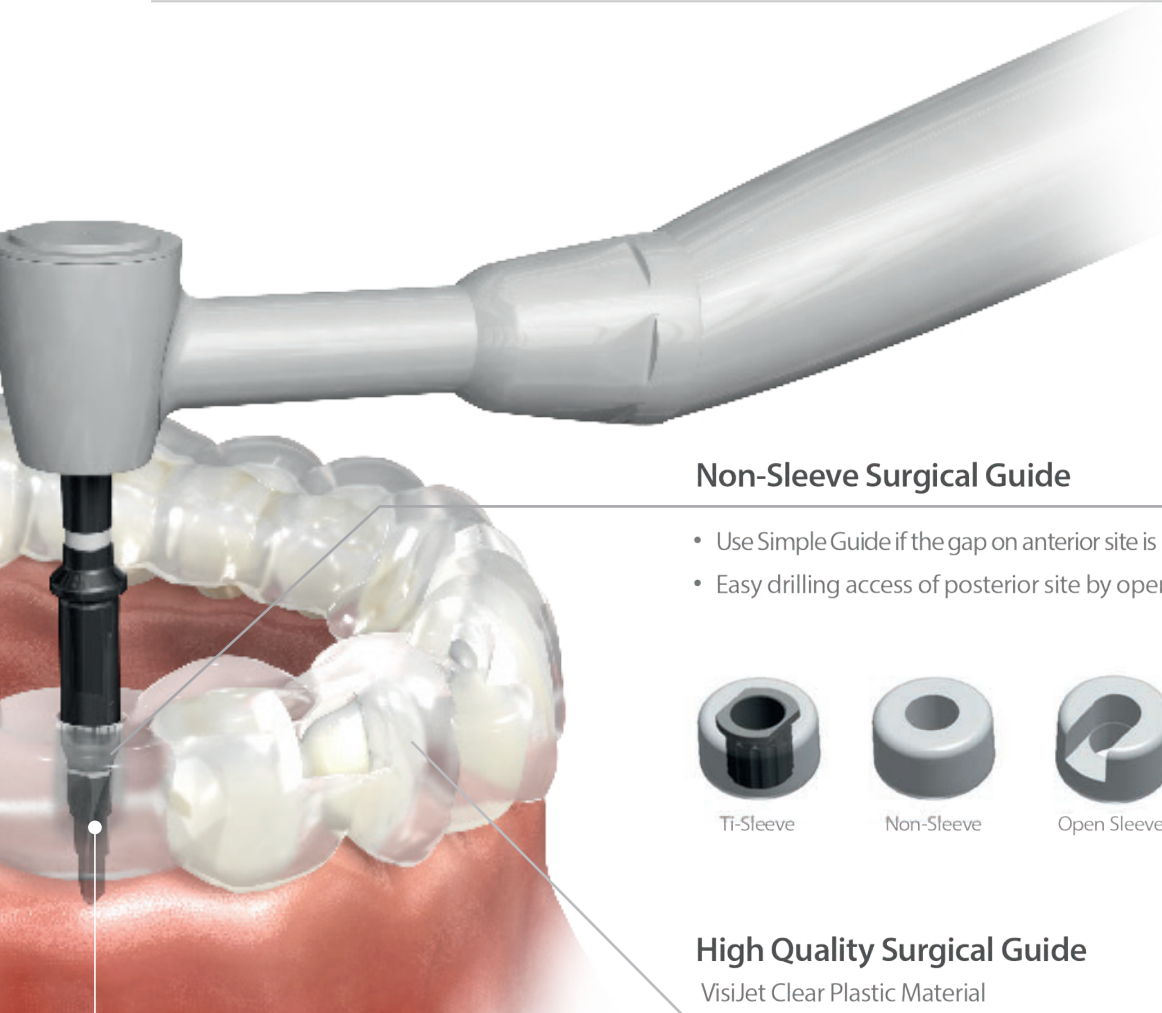
Polymer Guide
Implant Guide

Digital Guide

Simple & accurate digital guided surgery

- Simple Kit or Full kit
- Non-Sleeve, Open Sleeve or Ti-Sleeve
- Enhanced guided function by step drill





Non-Sleeve Surgical Guide

- Use Simple Guide if the gap on anterior site is narrow.
- Easy drilling access of posterior site by open-sleeve



Ti-Sleeve



Non-Sleeve



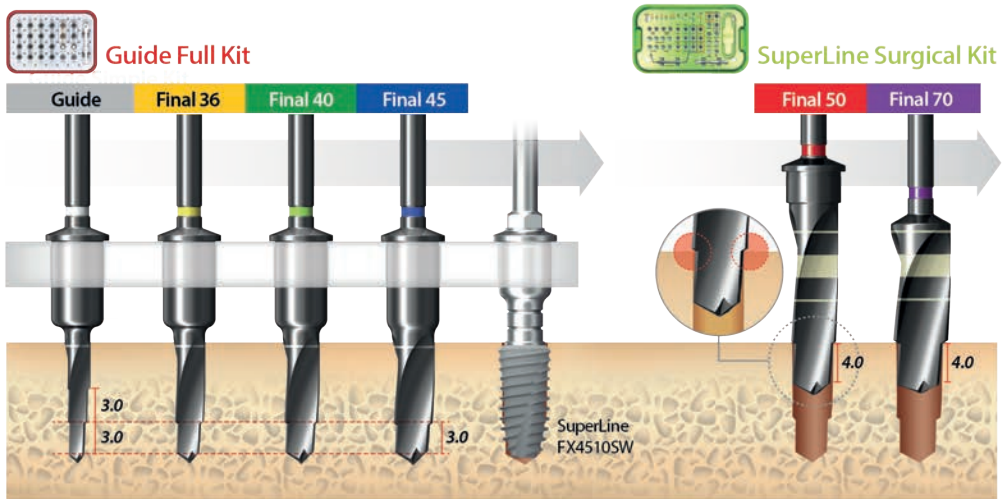
Open Sleeve

High Quality Surgical Guide

VisiJet Clear Plastic Material

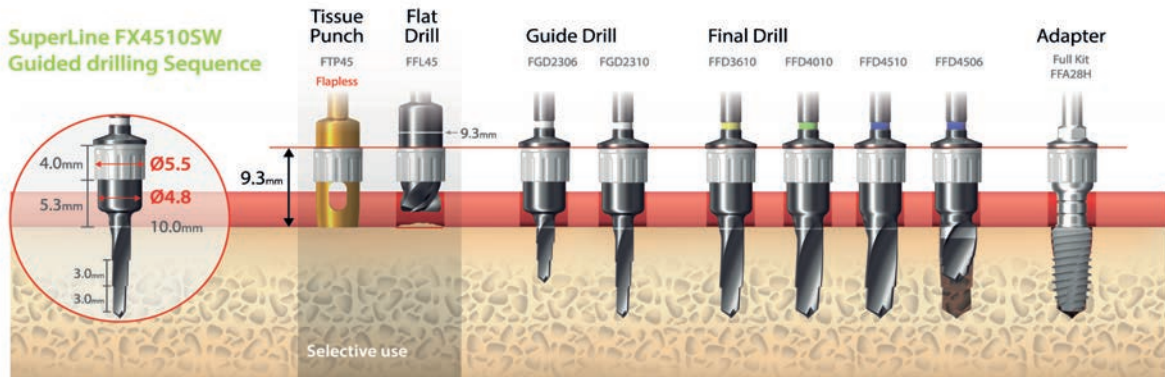
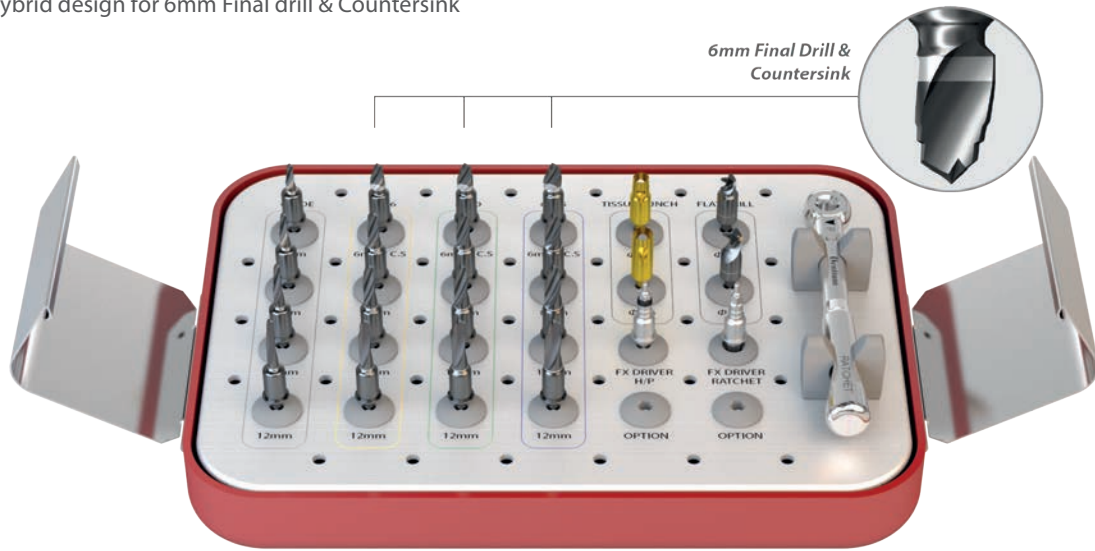
- USP Class VI Certification
- High tensile strength of guide material

Non Sleeve
 Ø 3.0 Sleeve
 Simple Kit



Full Kit

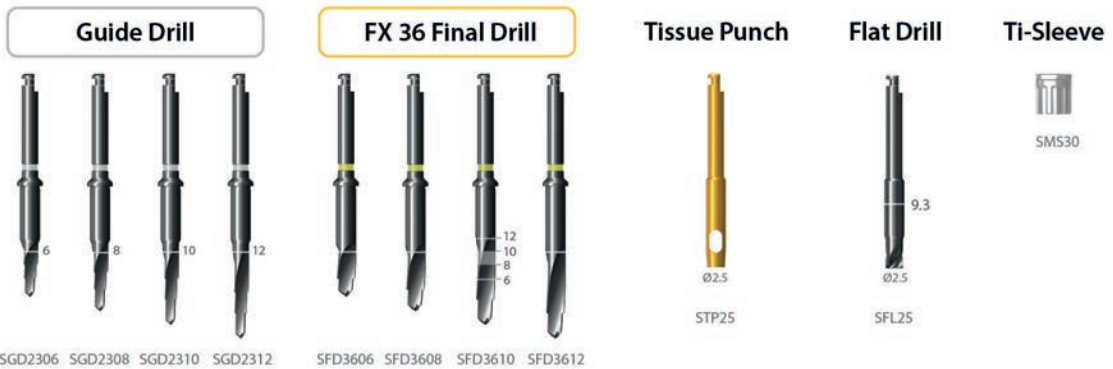
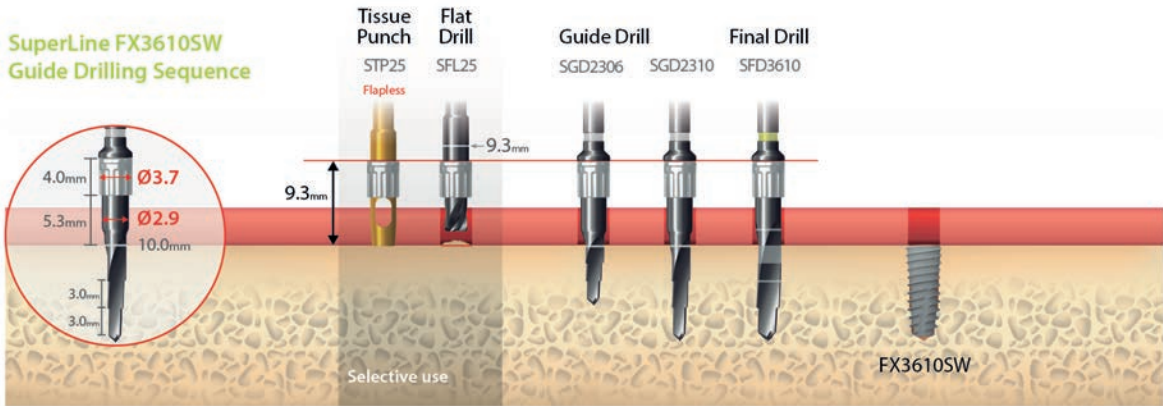
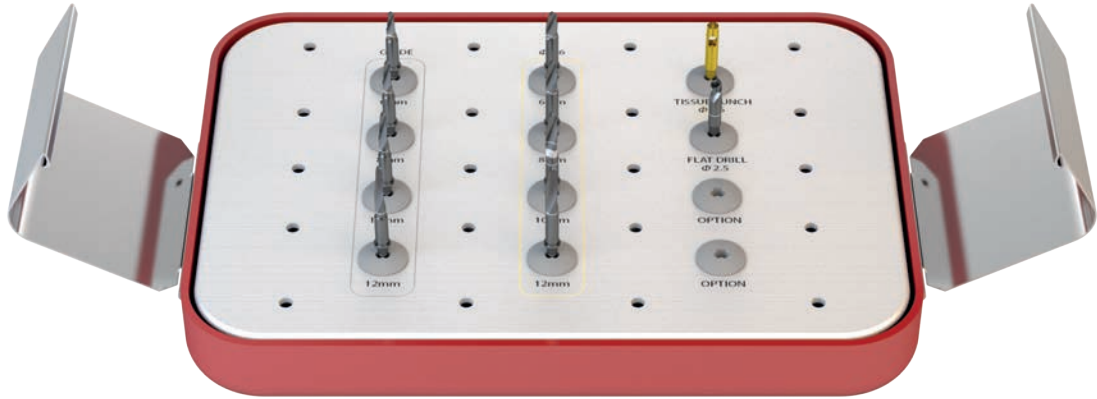
- For Ø36, Ø40, Ø45 Fixture
- Hybrid design for 6mm Final drill & Countersink



Simple Kit

Path&Depth Guided

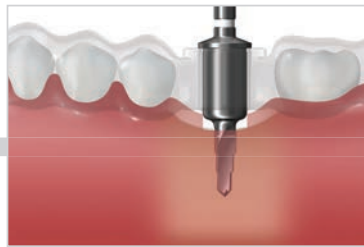
- For Ø36 Fixture
- Ø3.0 Narrow Sleeve



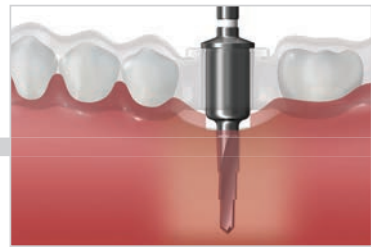
Full Kit / Flapless Surgery (SuperLine FX4510SW Installation)



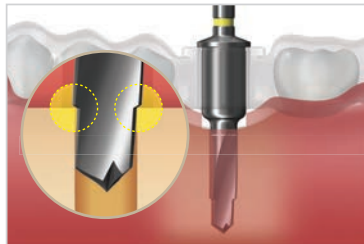
Tissue Punch
FTP45
(1000rpm/30~45N-cm with irrigation)



Guide drill with Surgical guide
FGD 2306
(1000rpm/30~45N-cm with irrigation)



Guide drill with Surgical guide
FGD 2310
(1000rpm/30~45N-cm with irrigation)



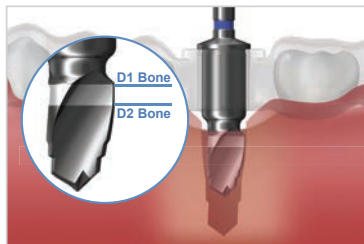
Final drill with Surgical guide
FFD 3610
(1000rpm/30~45N-cm with irrigation)



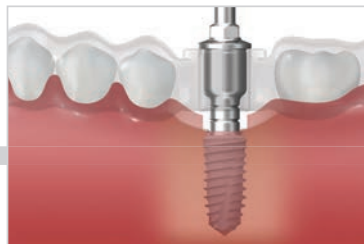
Final drill with Surgical guide
FFD 4010
(1000rpm/30~45N-cm with irrigation)



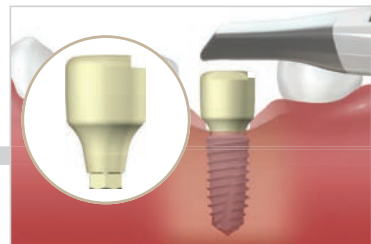
Final drill with Surgical guide
FFD 4510
(1000rpm/30~45N-cm with irrigation)



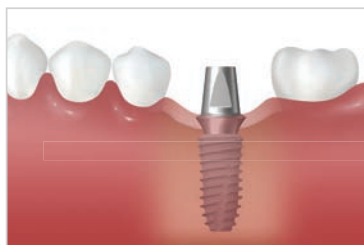
Countersink with Surgical guide
FFD 4506
(1000rpm/30~45N-cm with irrigation)



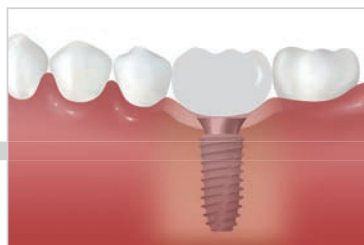
Fixture installation with Surgical guide
FFA28H
SuperLine : FX4510SW(50rpm/70N-cm)



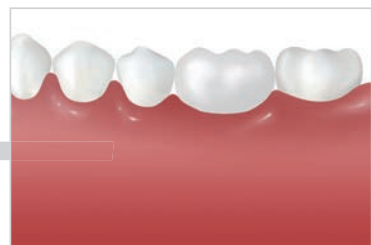
IOS Healing Abutment
Connect IOS Healing Abutment & Take digital impression with intraoral scanner



Abutment selection
Select Stock abutment or Customized abutment regarding tissue condition and occlusion

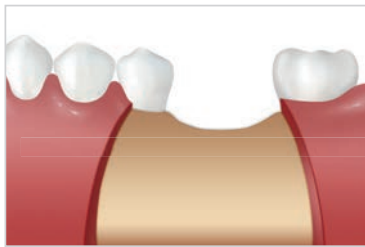


Provisional restoration
Stabilize occlusion & Soft tissue

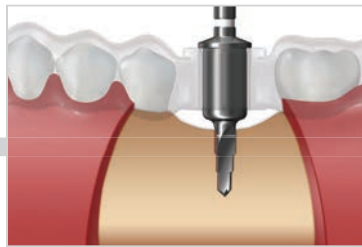


Final prosthesis

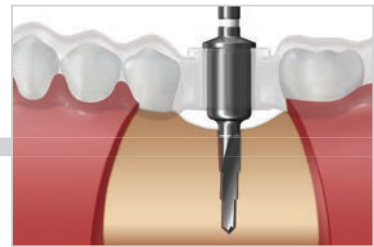
Full Kit / Flap Surgery (SuperLine FX5010SW Installation)



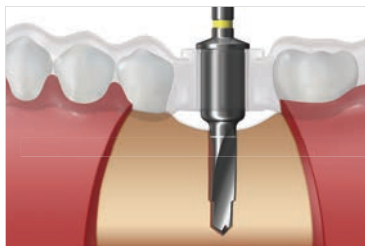
Incision



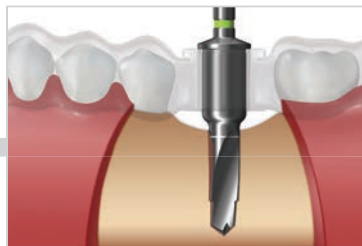
Guide drill with Surgical guide
FGD 2306
(1000rpm/30~45N·cm with irrigation)



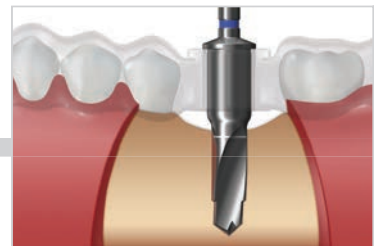
Guide drill with Surgical guide
FGD 2310
(1000rpm/30~45N·cm with irrigation)



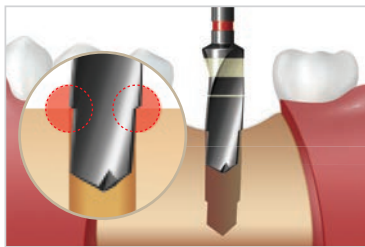
Final drill with Surgical guide
FFD 3610
(1000rpm/30~45N·cm with irrigation)



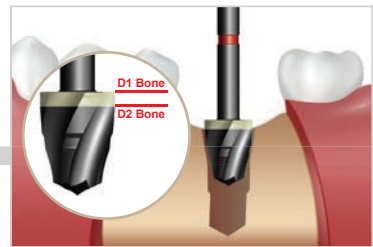
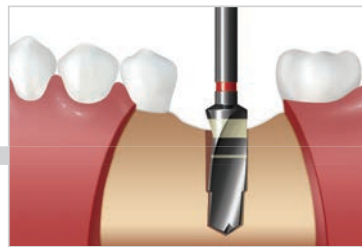
Final drill with Surgical guide
FFD 4010
(1000rpm/30~45N·cm with irrigation)



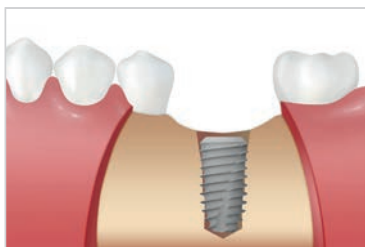
Final drill with Surgical guide
FFD 4510
(1000rpm/30~45N·cm with irrigation)



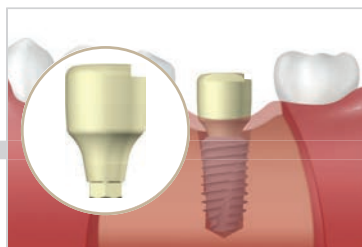
SuperLine Final drill
XFD 5010
(1000rpm/30~45N·cm with irrigation) or
(50rpm/70N·cm without irrigation)



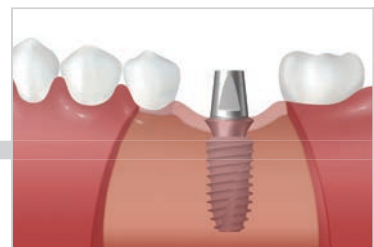
SuperLine Countersink
XCS 5029SW
(1000rpm/30~45N·cm without irrigation)



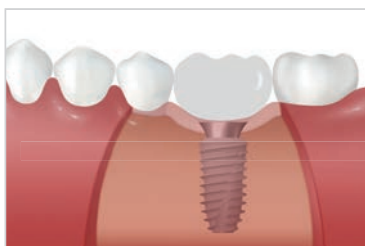
Fixture installation
SuperLine : FX5010SW
(50rpm/70N·cm)



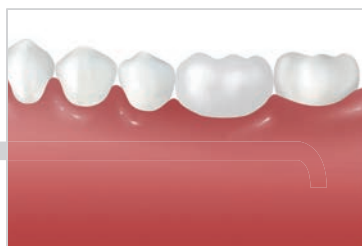
IOS Healing Abutment
Connect IOS Healing Abutment & Take
digital impression with intraoral scanner



Abutment selection
Select Stock abutment or
Customized abutment regarding tissue
condition and occlusion

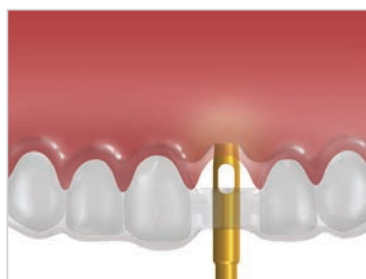


Provisional restoration
Stabilize occlusion & Soft tissue

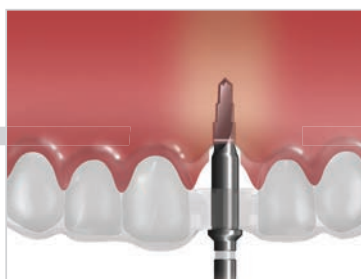


Final prosthesis

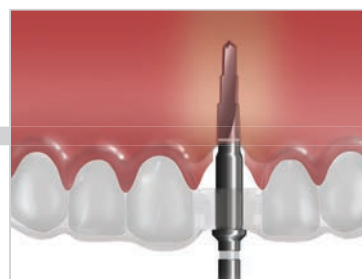
Simple Kit / Flapless Surgery (SuperLine FX3610SW Installation)



Tissue Punch
STP25
(1000rpm/30~45N-cm with irrigation)



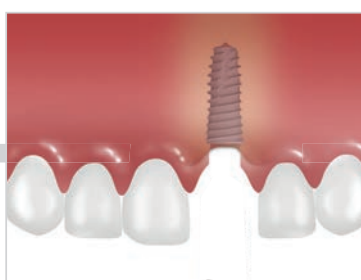
Guide drill with Surgical guide
SGD 2306
(1000rpm/30~45N-cm with irrigation)



Guide drill with Surgical guide
SGD 2310
(1000rpm/30~45N-cm with irrigation)



Final drill with Surgical guide
SFD 3610
(1000rpm/30~45N-cm with irrigation)



Fixture installation
SuperLine : FX3610SW
(50rpm/70N-cm)



IOS Healing Abutment
Connect IOS Healing Abutment & Take digital impression with intraoral scanner



Abutment selection
Select Stock abutment or Customized abutment regarding tissue condition and occlusion

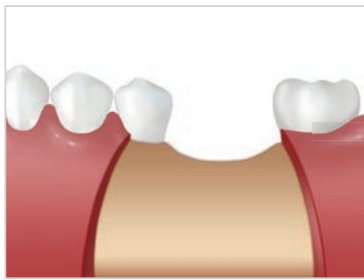


Provisional restoration
Stabilize occlusion & Soft tissue

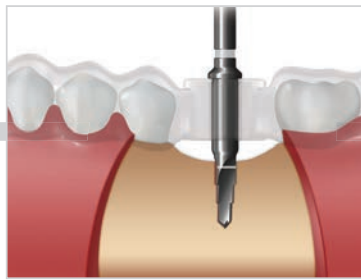


Final prosthesis

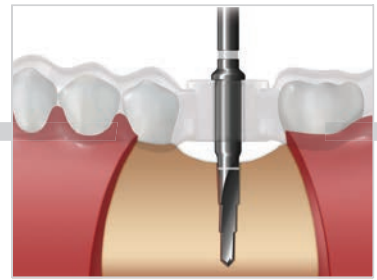
Simple Kit / Flapless Surgery (SuperLine FX4510SW Installation)



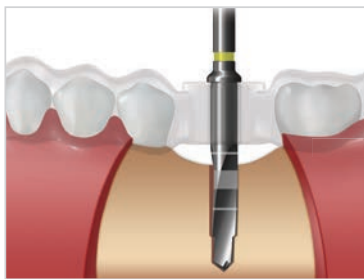
Incision



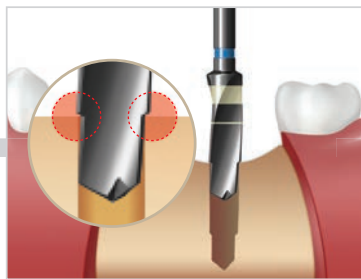
Guide drill with Surgical guide
SGD 2306
(1000rpm/30~45N-cm with irrigation)



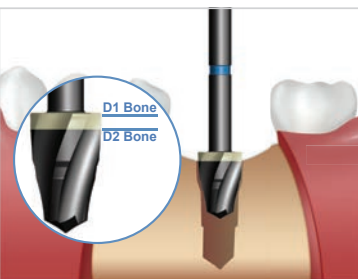
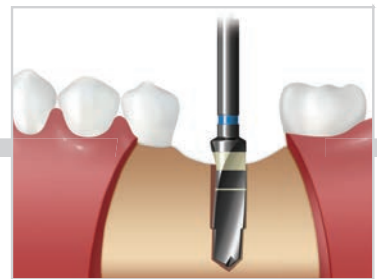
Guide drill with Surgical guide
SGD 2310
(1000rpm/30~45N-cm with irrigation)



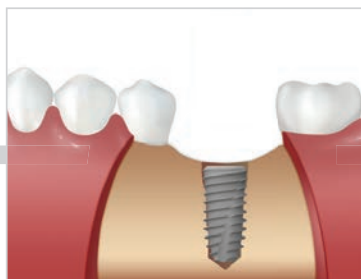
Final drill with Surgical guide
SFD 3610
(1000rpm/30~45N-cm with irrigation)



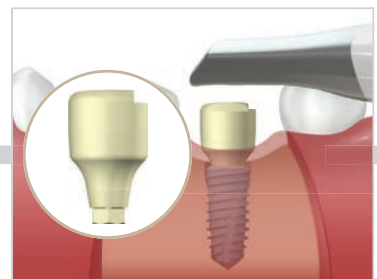
SuperLine Final drill
XFD 4329
(1000rpm/30~45N-cm with irrigation) or
(50rpm/70N-cm without irrigation)



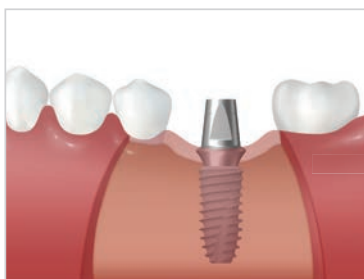
SuperLine Countersink
XCS 4529SW
(1000rpm/30~45N-cm without irrigation)



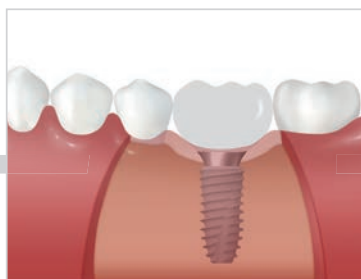
Fixture installation
SuperLine : FX4510SW
(50rpm/70N-cm)



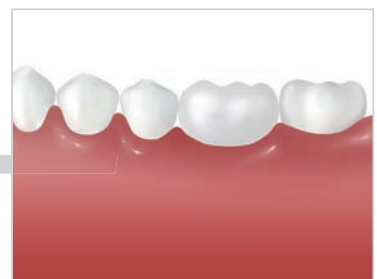
IOS Healing Abutment
Connect IOS Healing Abutment & Take digital impression with intraoral scanner



Abutment selection
Select Stock abutment or
Customized abutment regarding tissue
condition and occlusion



Provisional restoration
stabilize occlusion & soft tissue



Final prosthesis

Polymer Guide

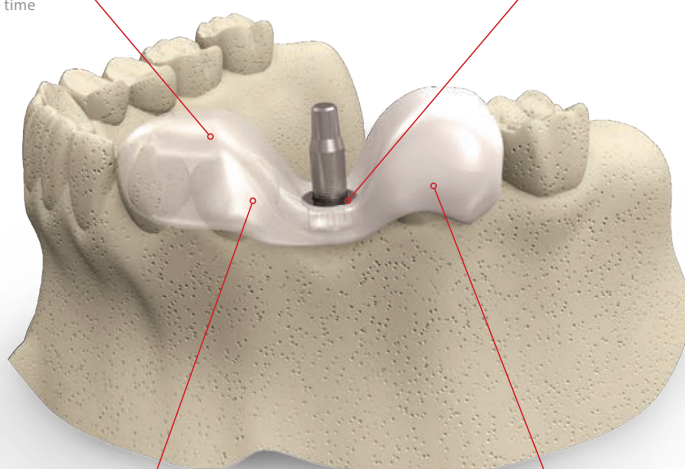
Thermoplastic Surgical Template for Dental Implant Placement

- Fabricate precise surgical template in just minutes using hot water
- Disposable material to promote control of infection and contamination
- Titanium sleeve is compatible with Dentium Final Drills



Thermoplastic surgical template
Fabricate an accurate surgical template in just minutes, greatly reducing the lab and chairside time

Fully compatible with Dentium drill system



Suitable template shape

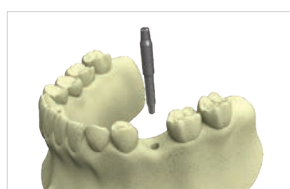
Polymer Guide is designed to maximize contact area over the adjacent teeth while allowing substantial field of view during implant surgery

Improved infection/contamination control

To ensure infection/contamination-free surgery every time, the Polymer Guide is made to be disposable



Drill a hole in the stone model



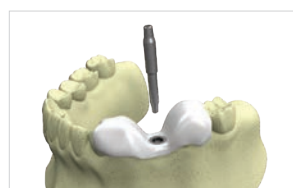
Insert the Guide Pin



Soak the Polymer Guide in hot water above 65°C to soften up the material for easy molding



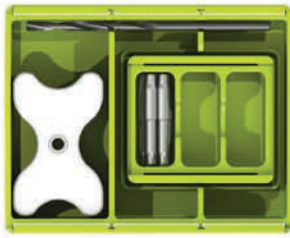
Apply of Polymer Guide on stone model



Remove the Guide Pin



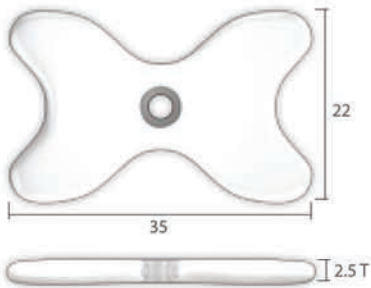
Position the Polymer Guide intra-orally for drilling



PGSSK

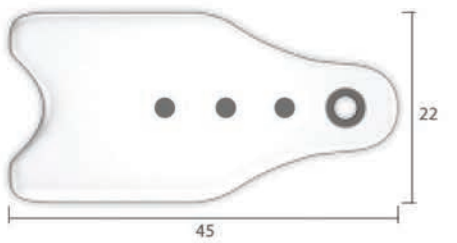


PGSCK



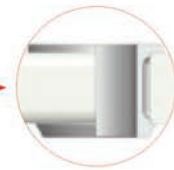
Single Standard (5ea)

T	Art. No.
2.5	XSG 34 35 S



Cantilever Multi-Ready (5ea)

T	Art. No.
2.5	XSG 34 45 C



* 1 fixed Sleeve + 3 additional Sleeve Hole

· Stone Drill



XGD 23 60 (1 ea)

· Guide Pin



XGP 34 23 S (5ea)

· Additional Metal Sleeve
(for Cantilever Multi-Ready)

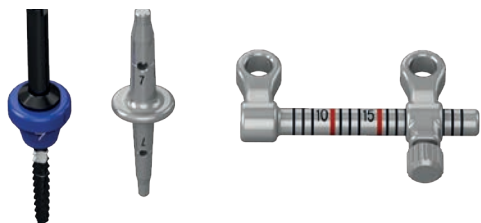


XPGS 34 25 A (5ea)

Implant Guide Kit

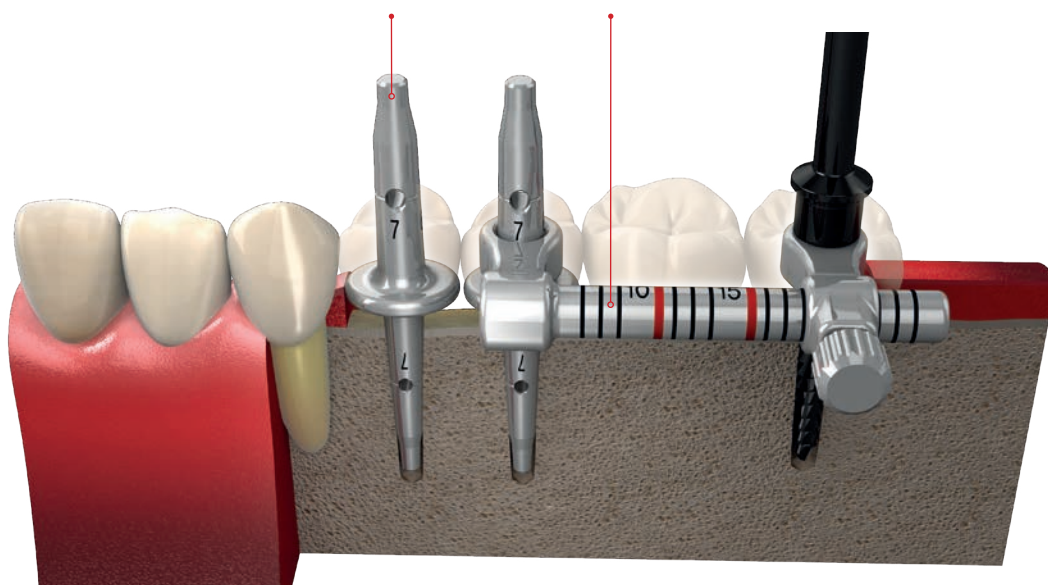
Surgical guide implementing Silicon Spacer, Unique Single Guide pin & Multi Guide

- The Multi Guide is designed to take into consideration the mesiodistal width and drilling position in the edentulous area
- Single guide pins and Spacers are configured based on the average of tooth width

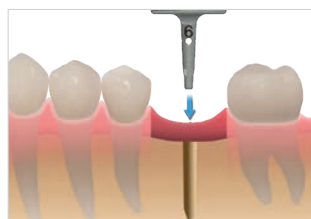


Assist in the implant positioning as well as determining the width and the position of the prosthetic components.

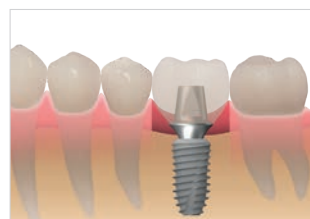
The Multi Guide is adjustable in length and angle to guide the implant position and drilling. It is particularly useful when applying multiple prostheses.



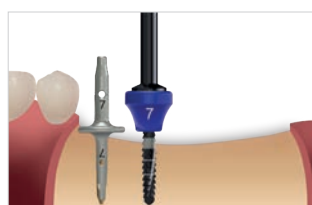
Spacer + Guide Drill



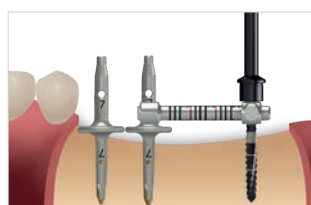
Single Parallel Pin



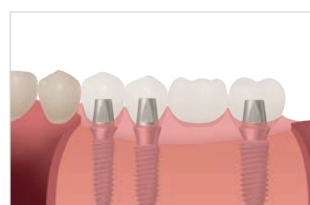
Final prosthesis



Spacer + Guide Drill



Single Parallel Pin + Multi Guide



Final prosthesis



GIGK

Guide Drill

Diameter	L	Art. No.
Ø2.6	29	GGD 26 29
Ø2.6	35	GGD 26 35



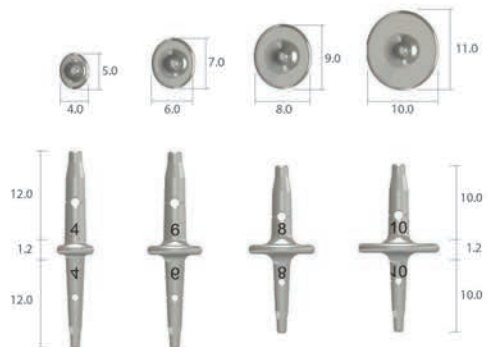
Spacer

Width	Art. No.
5.0	GSP 05
7.0	GSP 07
9.0	GSP 09
11.0	GSP 11



Single Guide Pin

Width	Art. No.
4.0 / 5.0	GGP 04 05
6.0 / 7.0	GGP 06 07
8.0 / 9.0	GGP 08 09
10.0 / 11.0	GGP 10 11

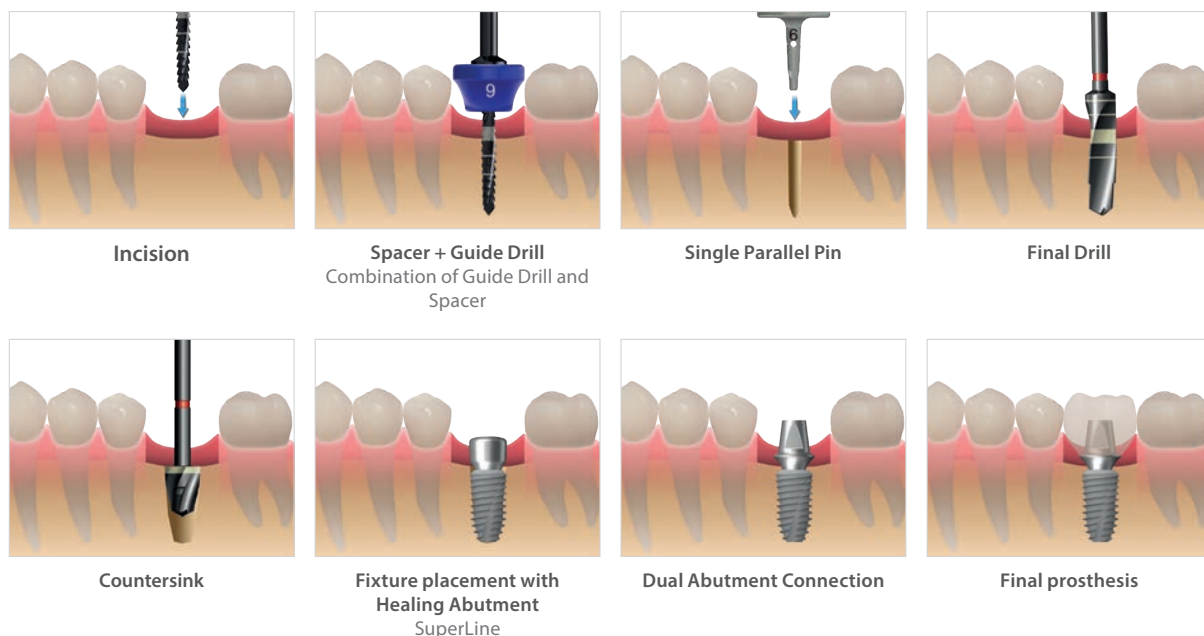


Multi Guide

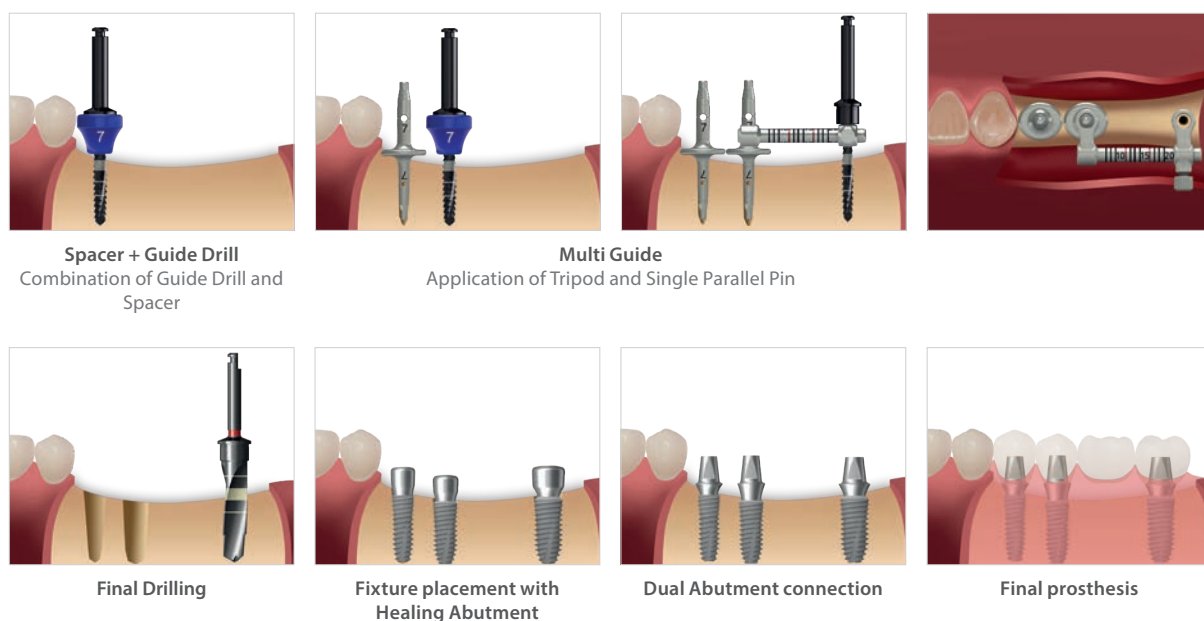
Art. No.	GMG2
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Single Case (SuperLine FX5010SW Installation)



Multiple Case (SuperLine Installation)



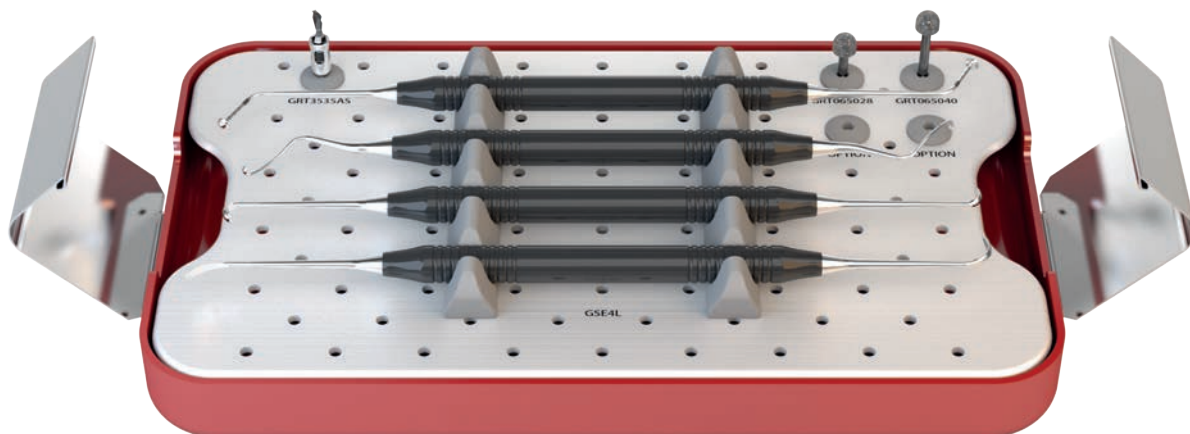
Metal Kit

Sinus Kit
RE Kit



Sinus Kit

Unit: mm, Scale 1 : 1



GSEK

Crestal Drill

Diameter	L	Art. No.
Ø3.5	35	GRT 35 35 AS



Lateral Drill

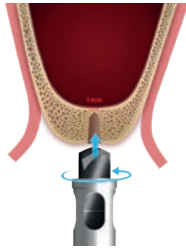
Diameter	L	Art. No.
Ø6.0	28	GRT 06 50 28
Ø6.0	40	GRT 06 50 40



Sinus Curette Scale 1 : 2 / mm

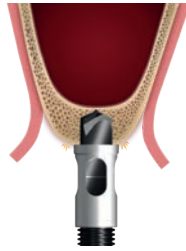


Crestal approach (SuperLine+ OSTEON™3 Lifting)



Crestal Drill

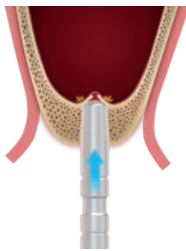
After Final drilling, eliminate the residual bone [1mm] using a Crestal Drill at low speed [20~100rpm] until feel a slight drop



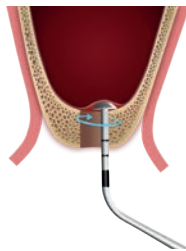
Adjust the desired length of drilling with Stopper to prevent unexpected Sinus perforation



Eliminate the residual bone [1mm] using a Crestal Drill at low speed [20~100rpm] until feel a slight drop

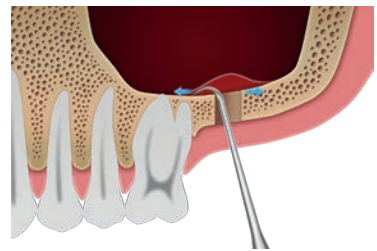


Or eliminate the residual bone [1mm] using [Osteotome] until you feel a slight drop

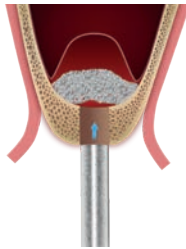


Sinus Curette

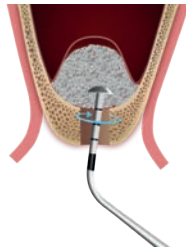
Use the dome-shaped sinus curette (GSE 1L) to detach Sinus membrane



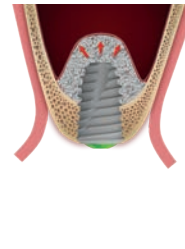
Elevate the sinus membrane to create adequate space for graft material



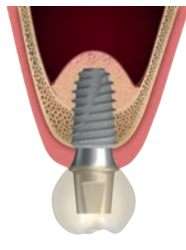
Fill the Sinus cavity with [OSTEON™3 Lifting] graft material



Fill and distribute [OSTEON™3 Lifting] graft material properly into the Created space

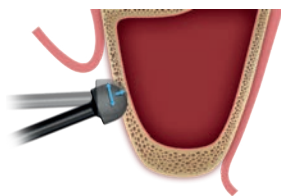


Fixture installation – [SuperLine] into the osteotomy site



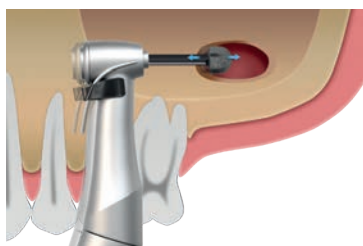
Final prosthesis

Lateral approach (SuperLine+OSTEON™3 Sinus+OSTEON™3 Collagen+Collagen Membrane)

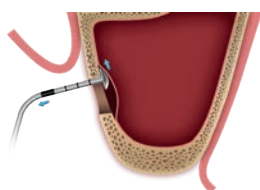
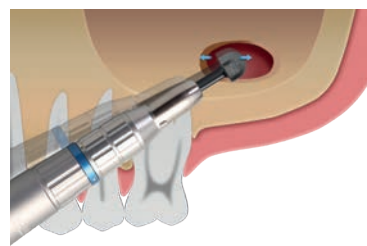


Lateral Drill

Thin down the lateral wall with Lateral Drill (Contra-Angle) to reach the Schneiderian membrane

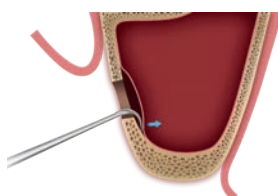


Mesio-distally with a gentle pressure until You get a proper size and shape of window for bone augmentation
[Drill speed 800 to 1,200rpm, 30~45N-cm with irrigation]

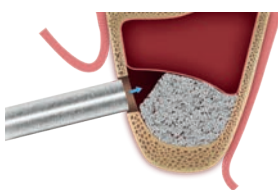
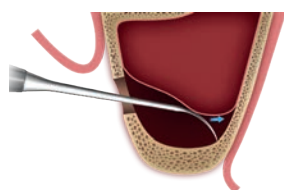
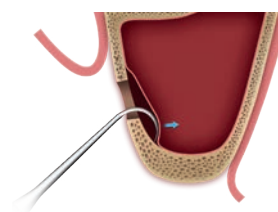


Sinus Curette

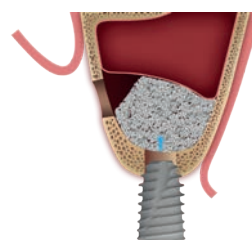
Detach sinus membrane using a dome-shape Sinus curette (GSE 1L)



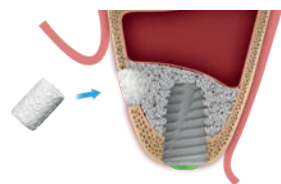
Elevate the sinus membrane to create adequate Space for graft material



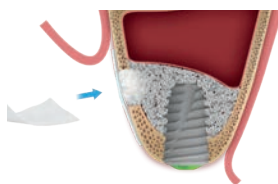
Fill the Sinus cavity with [OSTEON™3 Sinus] graft material



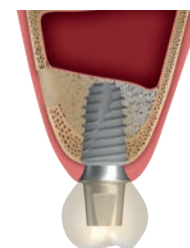
Fixture installation – [SuperLine] into the osteotomy site



Fill into [OSTEON™3 Collagen] into lateral wall



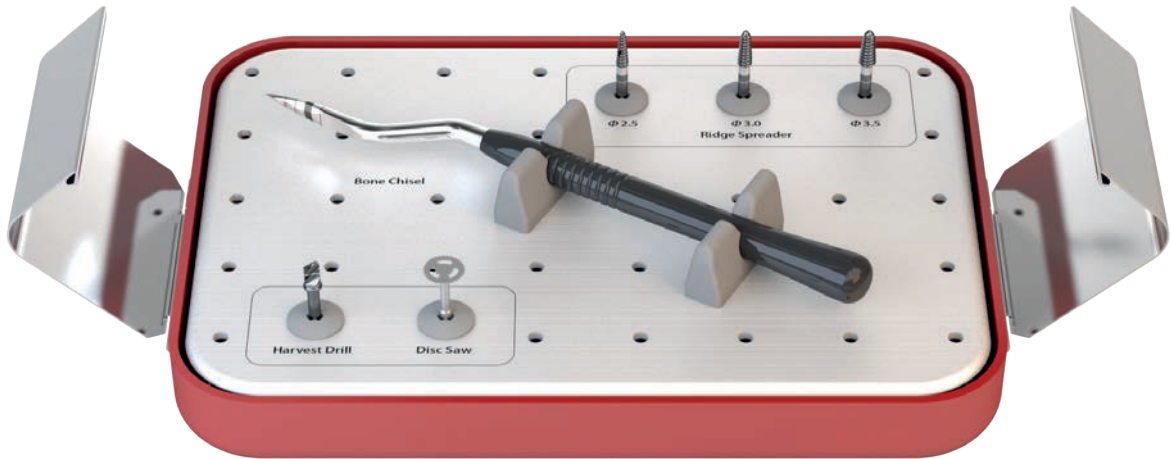
[Collagen Membrane] application



Final prosthesis

RE (Ridge Expander) Kit

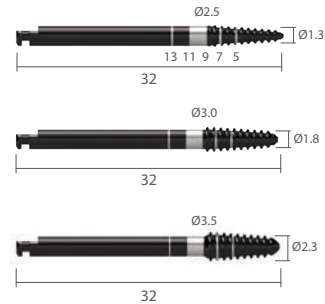
Unit: mm, Scale 1 : 1



GREK

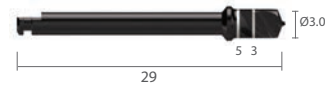
Ridge Spreader

Diameter	L	Art. No.
Ø1.3 / Ø2.5	32	GRS 13 25
Ø1.8 / Ø3.0	32	GRS 18 30
Ø2.3 / Ø3.5	32	GRS 23 35



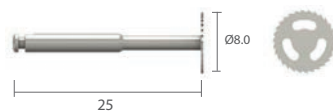
Harvest Drill

Diameter	L	Art. No.
Ø3.0	29	GHD 30 29



Disc Saw

Diameter	L	Art. No.
Ø8.0	25	GDS 80 25



Bone Chisel

Art. No.	GBC 18 45 13
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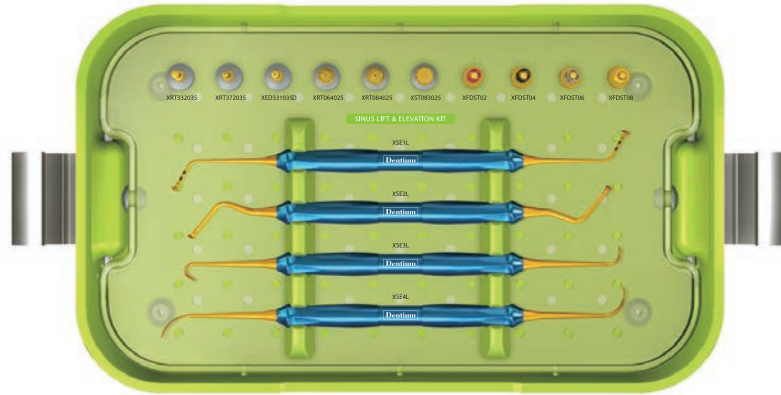




Sinus Instruments

DASK
Osteotome Kit
Sinus Elevator

Dentium Advanced Sinus Kit (DASK)



DASK Drills



[Unit: mm, Scale 1.2 : 1]

Type	DASK Drill #	Art. No.
Crestal Approach	DASK Drill # 1	XRT 332035
	DASK Drill # 2	XRT 372035
	DASK Drill # 3	XED 331035D
Lateral Approach	DASK Drill # 4	XRT 064025
	DASK Drill # 5	XRT 084025
	DASK Drill # 6	XRT 083025

* Note: Drill speed 800 to 1,200rpm, 30~45N-cm with irrigation

Stoppers | for XRT332035, XRT372035, XED331035D



[Unit: mm, Scale 1 : 1]

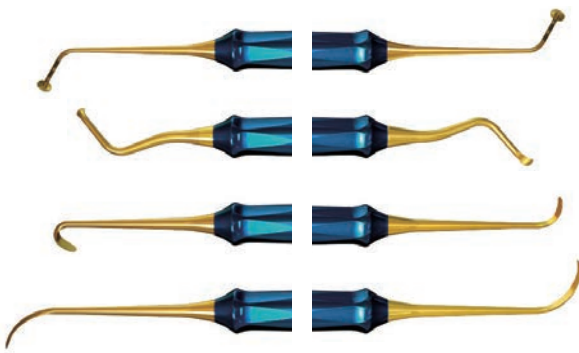
Drilling Depth	L	Art. No.
08	10.6	XFDST 08
06	12.6	XFDST 06
04	14.6	XFDST 04
02	16.6	XFDST 02

Sinus Bur Kit



SDK

Sinus Elevation Instruments



[Unit: mm, Scale 0.68 : 1]

Art. No.	XSE1L
Art. No.	XSE2L
Art. No.	XSE3L
Art. No.	XSE4L

Drills for Crestal Approach



DASK Drill #1
XRT332035



DASK Drill #2
XRT372035

[800~1,200 rpm]



DASK Drill #3
XED331035D

[800~1,200 rpm]

The distance from the alveolar crest to the sinus floor should be measured on x-rays prior to surgery. Site preparation is performed with twist drills in sequence up to 1mm short of the sinus floor. Then **DASK Drill #1** or **#2** is used and the sinus floor is carefully approached under light apical pressure. When you feel the sinus floor yields, remove the drill. Or partial preparations with DASK Drill #1 or #2 and up-fracture with osteotomes can be performed.

*The internal irrigation not only provides a cooling effect, but also adds hydraulic pressure to slightly lift the sinus membrane during drilling.

When the sinus cavity is accessed, **DASK Drill #3** is introduced and much broader detachment from the sinus floor can be facilitated horizontally with hydraulic pressure thanks to the internal irrigation hole.

DASK Drill #3 can also be used for lateral window approach.

Drills for Lateral Approach



DASK Drill #4
XRT064025



DASK Drill #5
XRT084025

[800~1,200 rpm]



DASK Drill #6
XST083025

[800~1,200 rpm]

To make a lateral window through the antrostomy (thin-out) approach

*DASK Drill #4 or #5 is used to prepare a lateral sinus window using light pressure and rotating strokes. The DASK Drill #4 or #5 is designed to minimize the risk of sinus membrane perforation.

To make a lateral window through the wall-off technique

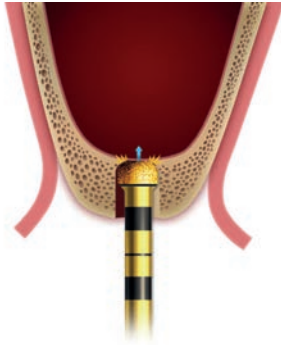
*DASK Drill #6 is used to cut and detach a bony island like a trephine bur from the lateral wall. Uncontrolled overdrilling may lead to sinus perforation and possible damage to the membrane. External irrigation is necessary when drilling.

DASK Maintenance

Sterilization and Instrument Care Procedures

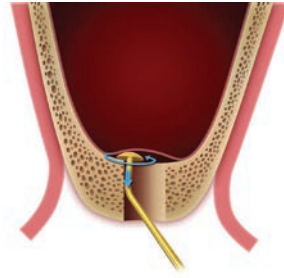
- It is important to use protective clothing and face shield while cleaning contaminated instruments.
 - Always wear protective glasses, mask, gloves, etc. for your safety.
1. Rinse instruments immediately after use under running tap water (<40° C) for a minimum of one (1) minute to remove all debris including extraneous body fluids, bone debris and tissue.
 2. Soak all instruments immediately after rinsing in an enzymatic cleaning solution * for 10 to 20 minutes (Do not soak overnight)
*Follow manufacturer's instructions and observe recommended cleaning solution concentrations (enzymatic detergent with a pH level between 7-10 and temperature not to exceed 40° C). Do not use incompatible cleaning solutions to clean instruments.
 3. For internal irrigation drills, use a 1mL syringe and a 25 gauge needle to clean the drill irrigation hole with a minimum of 0.2mL of the prepared cleaning solution. Repeat this step two (2) more times for a total of three (3) rinses.
 4. of the prepared cleaning solution. Repeat this step two (2) more times for a total of three (3) rinses.
 5. Scrub with a soft brush a minimum of 1 (one) minute to remove any debris from the drill.
 6. Rinse instruments under running tap water (<40°C) for a minimum of 1 minute. Use a 1mL syringe and a 25 gauge needle with a minimum of 0.2mL of tap water to forcefully flush inside the drill irrigation hole. Repeat flushing of drill irrigation hole two(2) more times for a total of three (3) flushes.
 7. Place instruments into an ultrasonic cleaner with neutral detergent**. Keep instruments inside the ultrasonic bath for 15 minutes using a frequency of 25-50 kHz. Ensure multiple instruments placed within the bath remain separated.
**Follow manufacturer's instructions and observe recommended neutral detergent solution concentrations (neutral detergent with a pH level between 7-10 and temperature not to exceed 40°C). Do not use incompatible neutral detergent solutions to clean instruments.
 8. Rinse instruments thoroughly with running tap water (<40°C) for a minimum of 1 (one) minute until all traces of neutral detergent solution are removed. Rinse inside drill irrigation hole using a 1mL syringe and a 25 gauge needle with a minimum of 0.2mL of tap water. Repeat rinsing drill irrigation hole two (2) more times for a total of three (3) rinses.
 9. Gently wipe instruments with a soft lint-free cloth or place the instruments in a drying cabinet (60°C for less than 10 hours) until fully dry. Blow residual water from drill irrigation hole using a 1mL syringe and a 25 gauge needle. Visually inspect instruments in a well-lit area to ensure they are clean, dry and free of residue.
 10. a well-lit area to ensure they are clean, dry and free of residue.
 11. Clean instrument trays with a germicidal cleaner prior to returning instruments into Kit.
 12. Always check for damage or corrosion after rinsing and drying

Crestal Approach (Sinus Lifting) (SuperLine+OSTEON™3 Lifting)



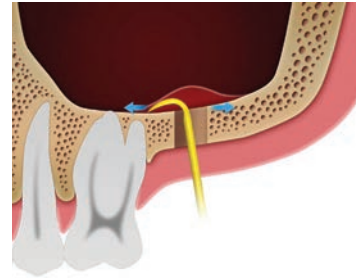
DASK Drill

After Ø3.8 Final drilling, eliminate the residual bone (1mm) using a DASK Drill #1 or #2 (in hard bone) until you feel a slight drop

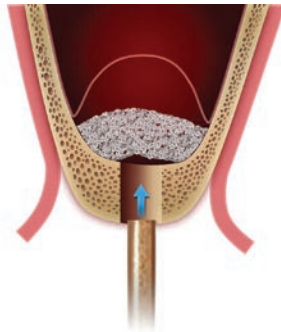


Sinus Elevation Instruments

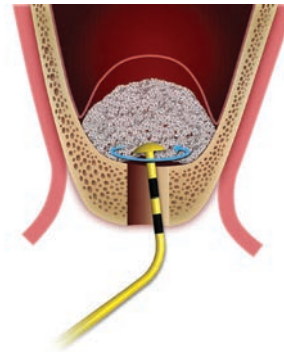
Detach the sinus membrane to create adequate space for graft material using dome-shaped curette



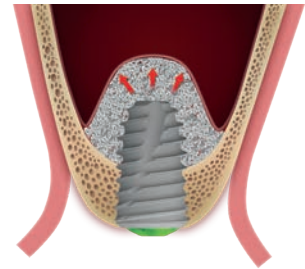
Elevate the Sinus membrane to create adequate space for graft material



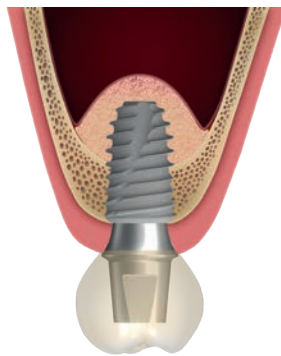
Fill the sinus cavity with [OSTEON™3 Lifting] graft material



Fill and distribute [OSTEON™3 Lifting] graft material properly into the Created space



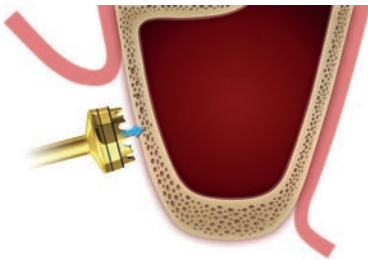
Fixture installation – [SuperLine] into the osteotomy site



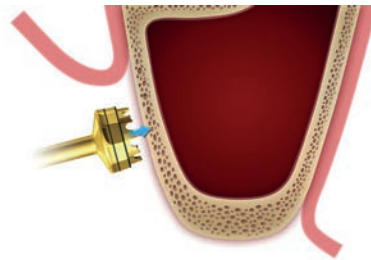
Final prosthesis

Lateral Approach (Sinus Elevation) (SuperLine+OSTEON™3 Sinus)

Wall-off Technique

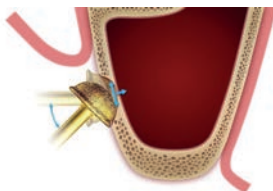


DASK Drill#6 is used to cut a round bony island from the lateral wall like a trephine bur.
 Start to drill at a desired location and proceed until you see the shadow of the sinus membrane. Then, separate and lift the bony island up from the neighboring wall with a molt curette or a periosteal elevator.
 The bony island is repositioned back in its original after bone augmentation

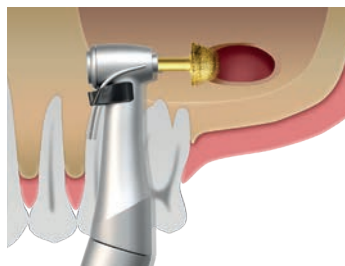


The first laser mark is 1.5mm and the second is 3.0mm.
 Overdrilling can cause sinus perforation and possible damage to the membrane

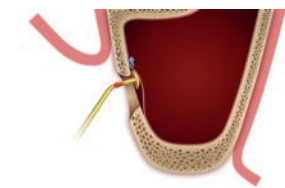
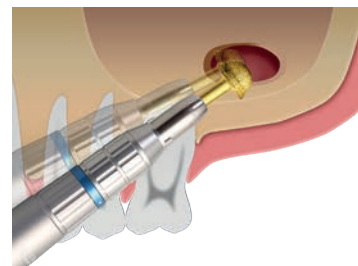
Thin-out Technique



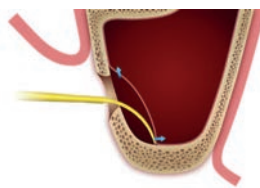
Thin down the lateral wall with DASK Drill #4 or #5 at a 45 degree angle to reach the Schneiderian membrane



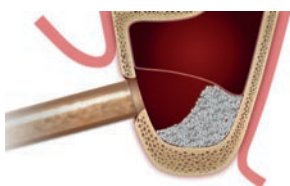
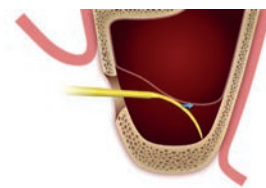
Move the DASK Drill #4 or #5 Mesio-distally with a gentle pressure until You get a proper size and shape of the window for bone augmentation



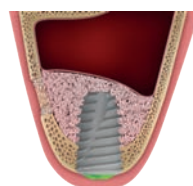
Sinus Elevation Instruments
 Detach sinus membrane using a dome-shape Sinus curette



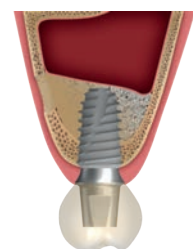
Elevate the sinus membrane to create adequate space for graft material



Fill the Sinus cavity with [OSTEON™3 Sinus] graft material



Fixture installation – [SuperLine] into the osteotomy site

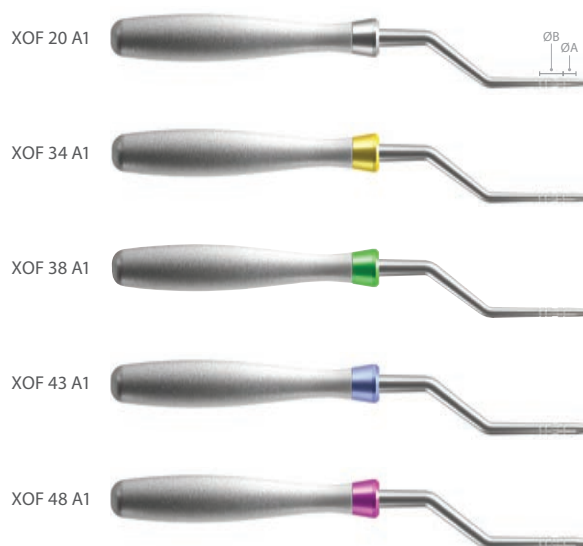


Final prosthesis

Osteotome Kit

- Osteotomes compress the bone laterally, providing denser bony interface rather than removing valuable bone from the surgical site

Osteotomes | Final drill type



[Unit: mm, Scale 0.4 : 1]

Type A
(Convex)



Type B
(Concave)



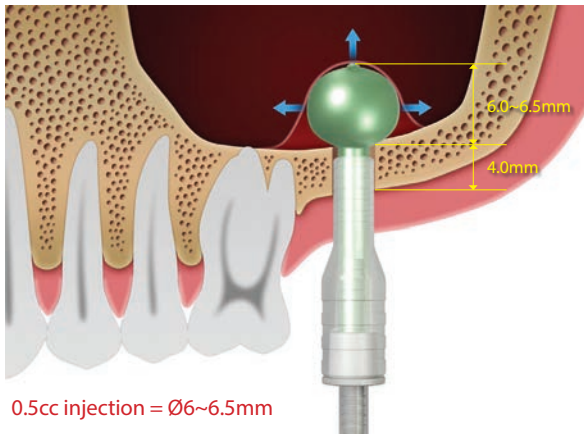
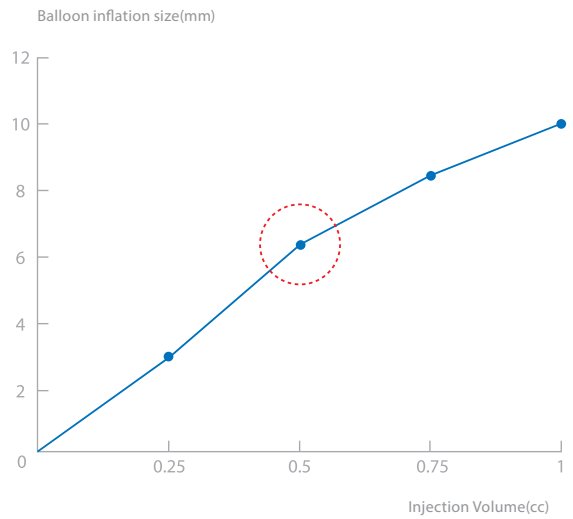
Type	Art. No.	ØA	ØB
XOFK A (Convex)	XOFK 20 A1	Ø1.7	Ø2.8
	XOFK 34 A1	Ø2.3	Ø2.8
	XOFK 38 A1	Ø2.7	Ø3.2
	XOFK 43 A1	Ø2.8	Ø3.8
	XOFK 48 A1	Ø3.0	Ø4.3
XOFBK B (Concave)	XOFK 20 B1	Ø1.7	Ø2.8
	XOFK 34 B1	Ø2.3	Ø2.8
	XOFK 38 B1	Ø2.7	Ø3.2
	XOFK 43 B1	Ø2.8	Ø3.8
	XOFK 48 B1	Ø3.0	Ø4.3

Sinus Elevator

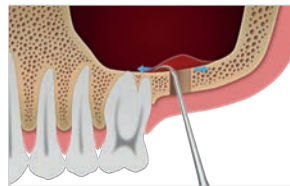
- Makes the sinus lift easy and drastically reduce the possibility of membrane perforation
- Balloon expansion of 0.5cc saline equals 6mm of membrane elevation



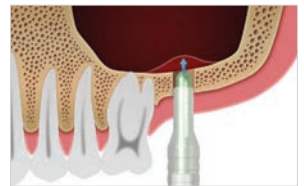
Type	Art. No.
Including Syringe	GSB 38
Balloon Only	GSB 38B



0.5cc injection = Ø6~6.5mm



Detach the sinus membrane to create adequate space for graft material.



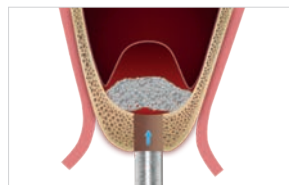
Carefully insert the Sinus Elevator into the Osteotomy site.



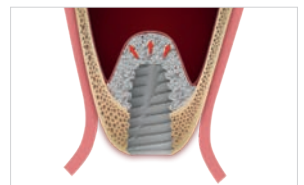
Expand the balloon progressively.



Elevate the sinus membrane through the balloon inflation.



Fill the Sinus cavity with **OSTEON3™ Lifting** graft material.



Placement of implant into the osteotomy site.

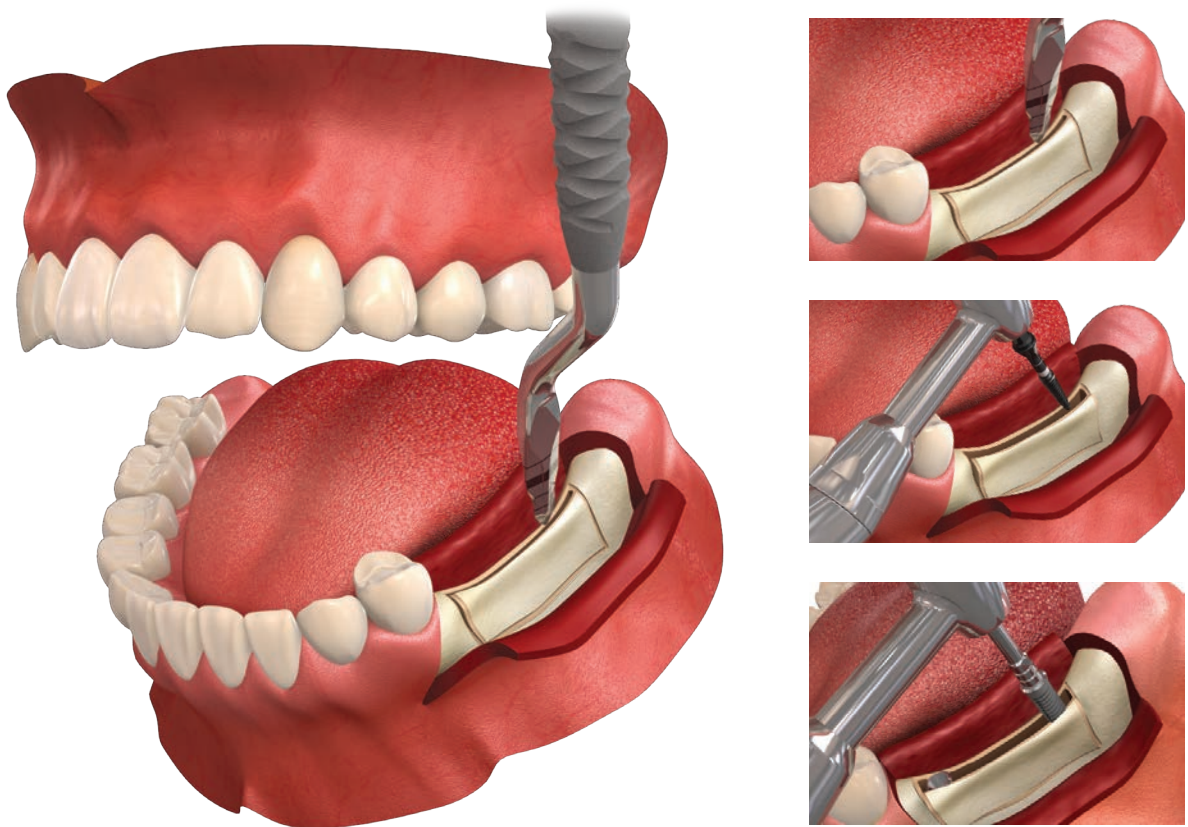
GBR Instruments

*RS Kit
Harvest Drill*

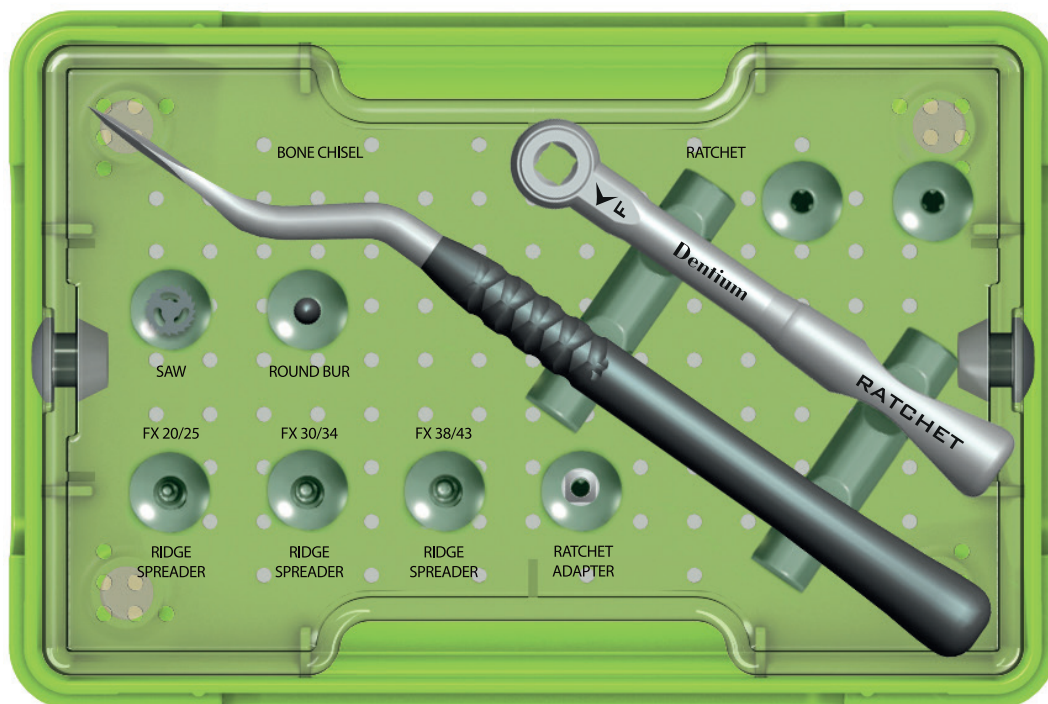


RS (Ridge Spreader) Kit

- Allows the achievement of space for implantation through the spreading of the bone with chisel without drilling
- There are three types of Ridge Spreaders to create space up to Ø4.5mm
- Convenient surgeries due to the compatibility with hand-piece and ratchet
- Easy-to-use kit component



RS (Ridge Spreader) Kit



XRSK

Kit contents

Bone Chisel		XBC305013
Ratchet		XRCA1
Ridge Spreader Drills		RS142435
		RS203235
		RS263635
Round Bur		XRB4035
Ratchet Adapter		XRA3917
Mini Saw		XDS8025

Bone Chisel



Art. No.	XBC305013
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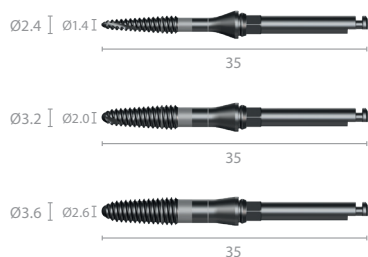
Ratchet



Art. No.	XRCA1
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[Unit: mm, Scale 0.6 : 1]

Ridge Spreader Drills



Diameter	L	Art. No.
$\varnothing 1.4$ / $\varnothing 2.4$	35	RS142435
$\varnothing 2.0$ / $\varnothing 3.2$	35	RS203235
$\varnothing 2.6$ / $\varnothing 3.6$	35	RS263635

Round Bur



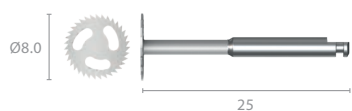
Diameter	L	Art. No.
$\varnothing 4.0$	35	XRB4035

Ratchet Adapter



Art. No.	XRA3917
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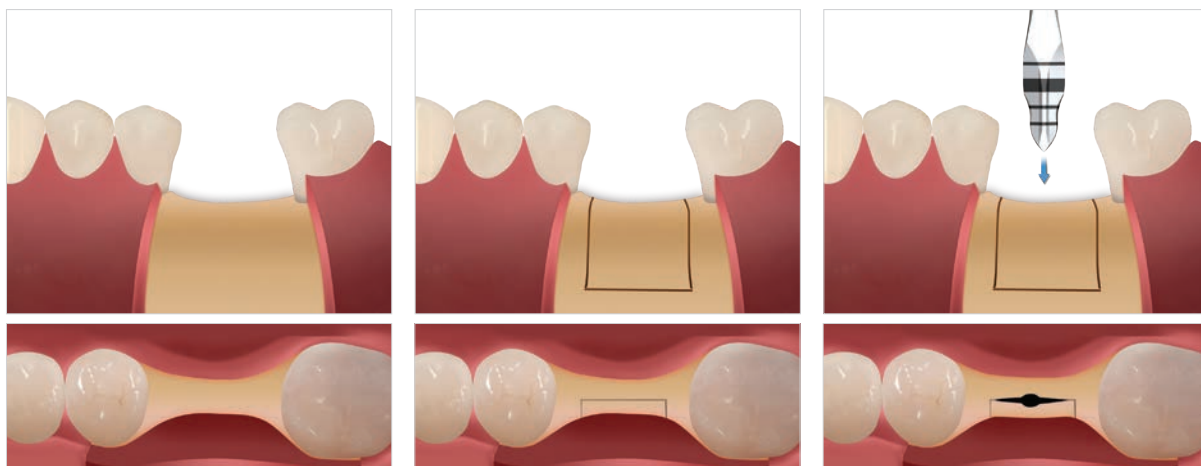
Mini Saw



Diameter	L	Art. No.
$\varnothing 8.0$	25	XDS8025

[Unit: mm, Scale 1 : 1]

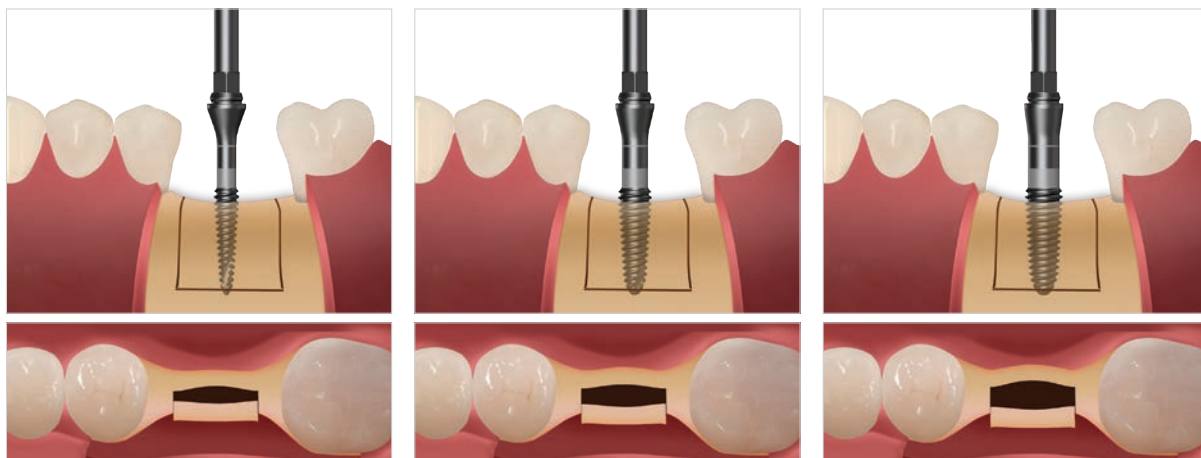
Ridge Spreading (NR Line + OSTEON™ 3 + Collagen Membrane)



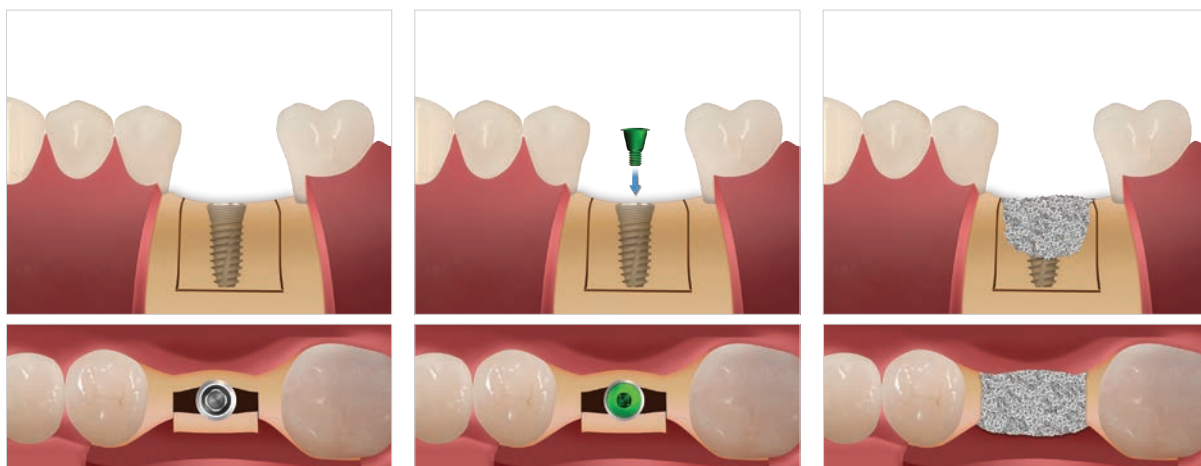
Incision

Decortification

Expansion with Bone Chisel



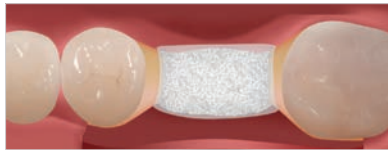
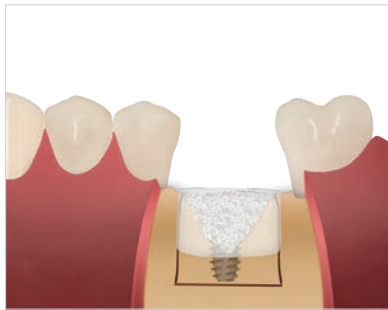
Expansion with Ridge Spreader (20~60rpm / 30~45N-cm) - Expanding alveolar bone ridge to make space for fixture



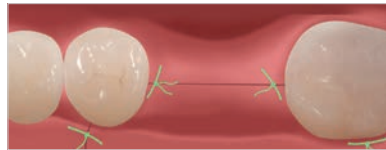
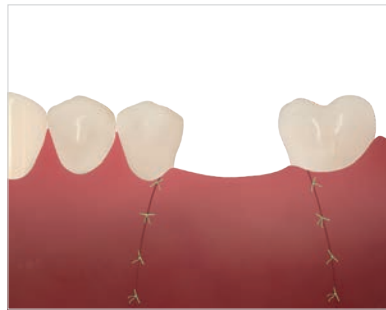
Fixture placement
NR Line

Cover Screw connection

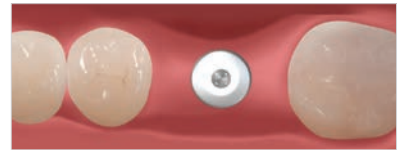
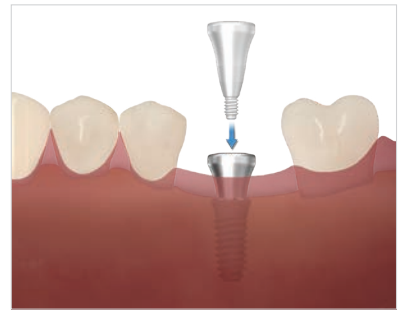
Application of graft material
OSTEON™ 3



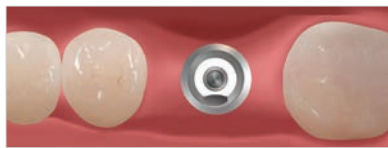
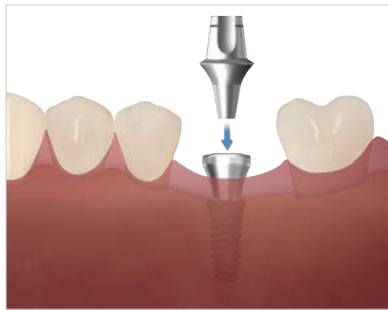
Barrier membrane application
Collagen Membrane



Suture



Healing Abutment connection



Dual Abutment connection



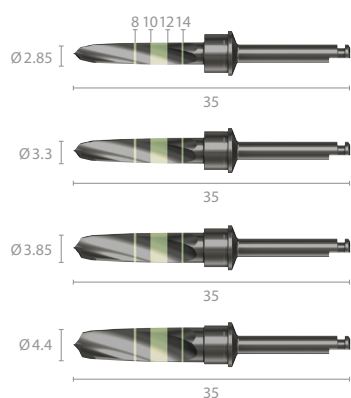
Final prosthesis

Harvest Drill

Collect autogenous bone and prep osteotomy simultaneously and effectively using the specially designed drills, the Harvest Drills

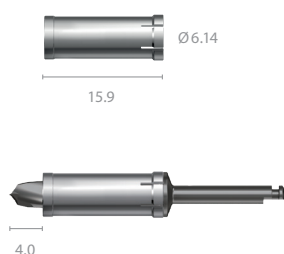
- Sharp, pointed tip to prevent drill chattering for precise drilling
- Drill stoppers applicable to control the depth of the drilling for safe and efficient bone harvesting, especially in the buccal side of the ridge
- Recommended drill speed of less than 100 rpm / 50N-cm helps preserve the vital autogenous bone
- Excellent clinical results may be achieved when harvested autogenous bone is combined with Osteon™ II

Harvest Drills



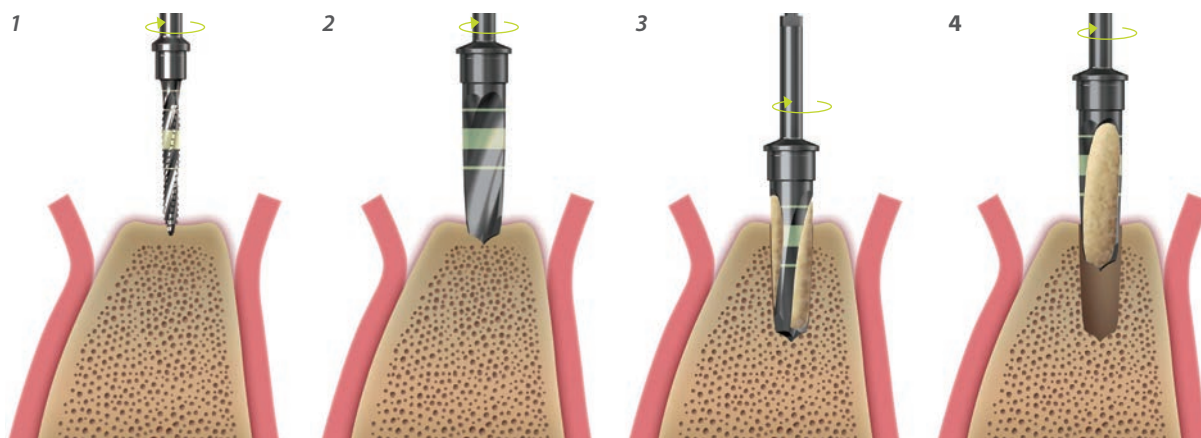
Diameter	L	Art. No.
Ø2.85	35	XFH 34 35
Ø3.3	35	XFH 38 35
Ø3.85	35	XFH 43 35
Ø4.4	35	XFH 48 35

Harvest Drill Stopper



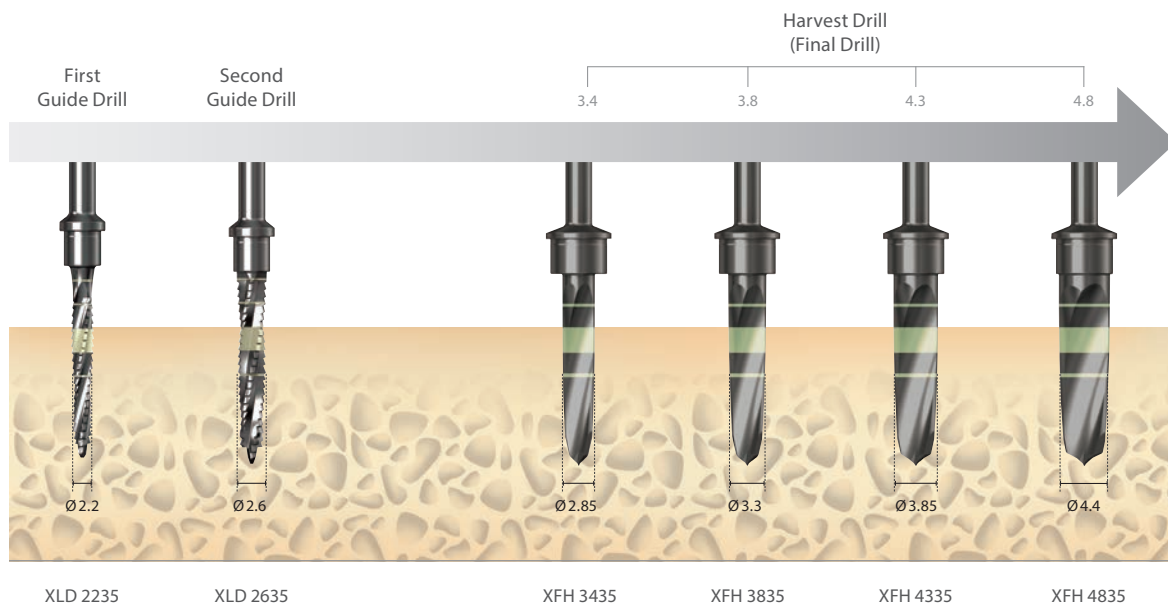
Diameter	L	Art. No.
Ø6.14	15.9	XFHST04

Final Drill



1 - First Guide Drill
1,000rpm/30~45N-cm with irrigation

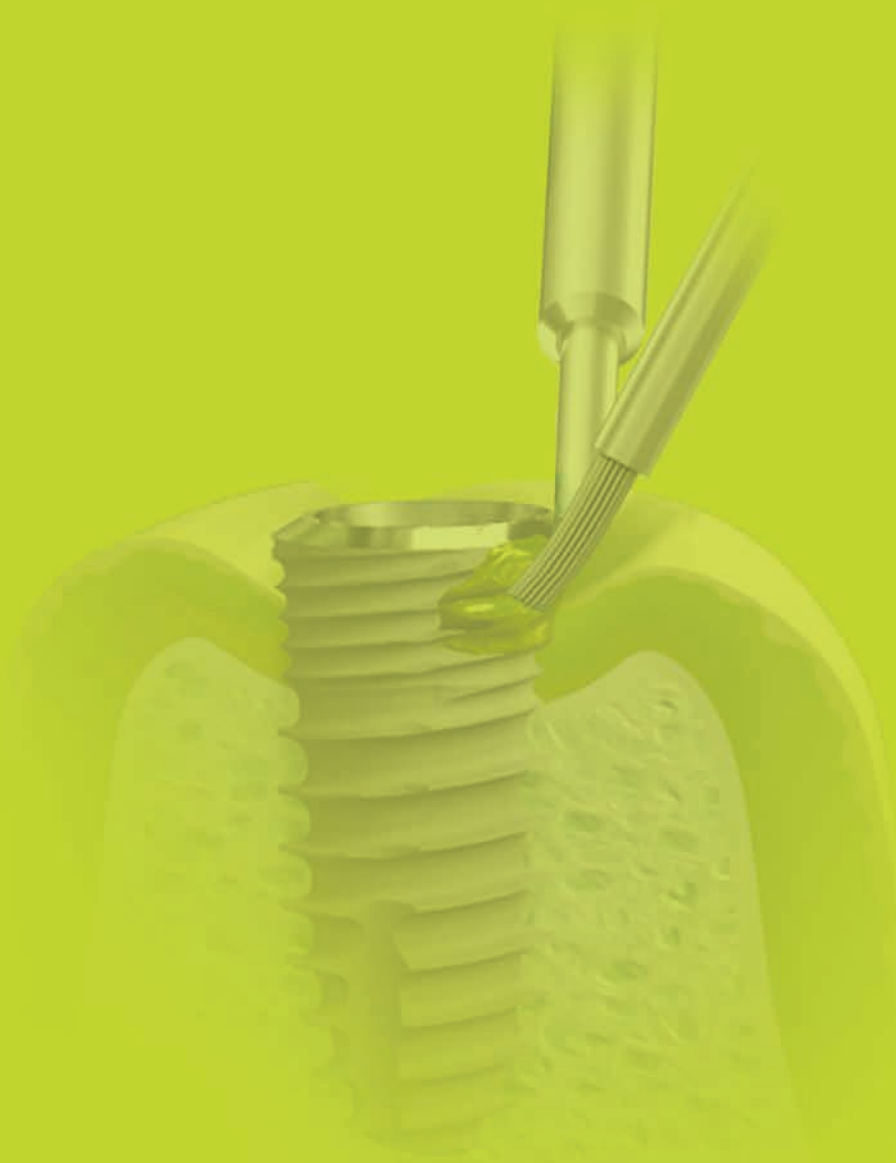
2 ~ 4 - Harvest Drill
30~100rpm/30~50N-cm without irrigation



* During the 4.3/4.8 fixture insertion into the bone density of D3~D4, the 3.35/3.85 harvest drilling process can be skipped.

Others

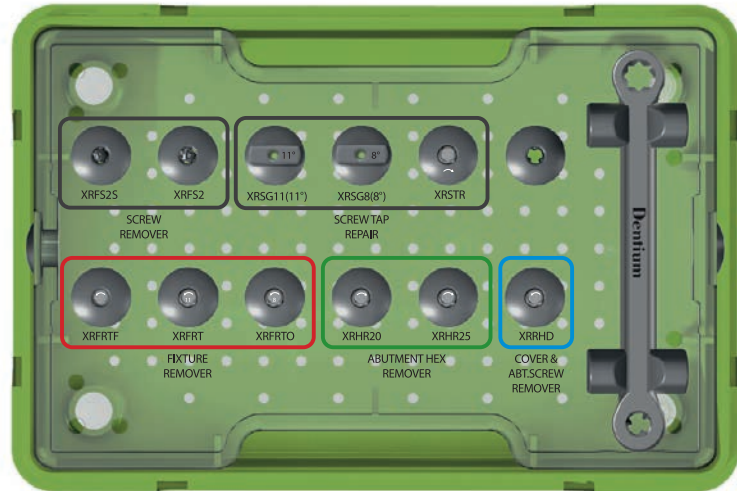
Help Kit
Temporary Shell
White Seal
TN-Brush



Help Kit

- Easy solution for critical problems which may occur in the prosthetic process consist of 5 tools in a kit
- (Screw Remover/ Abutment Hex Remover/ Screw Tap Repair / Fixture Remover / Cover & Abutment Screw Remover)
- Compatible with most dental implant products now available on the global market
- Heavy duty with robust design and proven materials

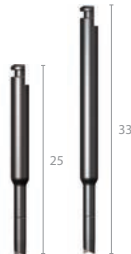
IMPLANTIUM
SuperLine
SimpleLine II



XIH

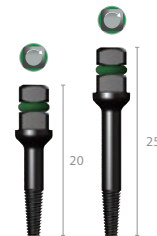
Screw Remover

L	Art. No.
25	XRF S2S
35	XRF S2



Abutment Remover

L	Art. No.
20	XRHR 20
25	XRHR 25



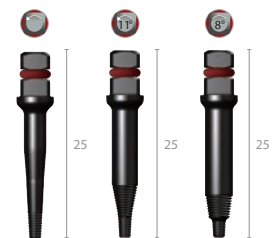
Screw Tap Repair

Type	Art. No.
Tap	XRSTR
11° Guide	XRSG11
8° Guide	XRSG8



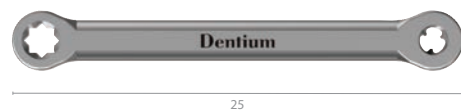
Fixture Remover

Type	Art. No.
Remover	XRFRTF
	XRFRT
	XRFRT0
Wrench	XRFRW

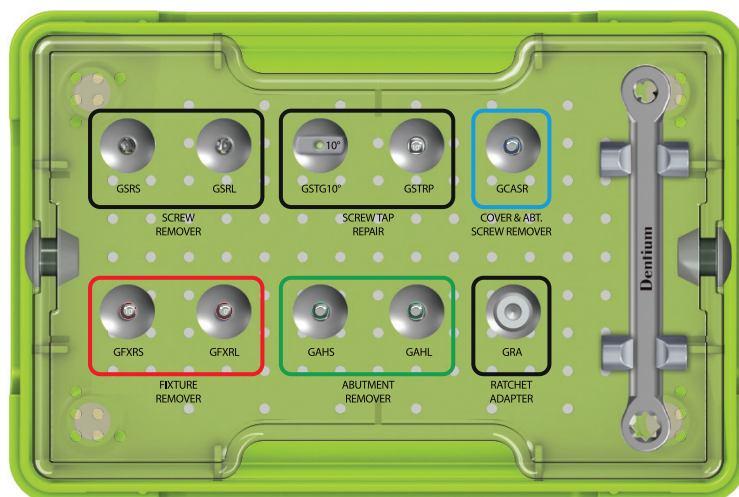


Cover & Abutment Screw Remover

L	Art. No.
25	XRRHD



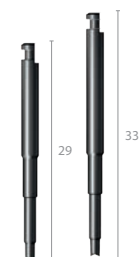
NR Lrne



GXIH

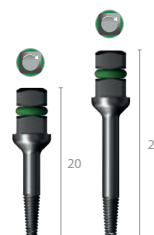
Screw Remover

L	Art. No.
29	GSRS
33	GSRL



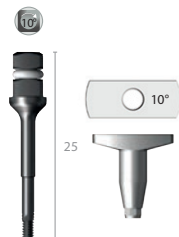
Abutment Remover

L	Art. No.
20	GAHS
25	GAHL



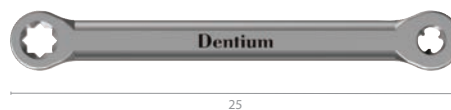
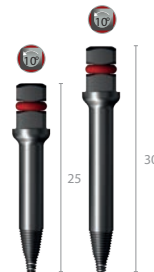
Screw Tap Repair

L	Art. No.
25	GSTRP
GUIDE	GSTG10



Fixture Remover

Type	Art. No.	
	25	GFXRS
	30	GFXRL
Wrench		XRFRW



Cover & Abutment Screw Remover

L	Art. No.
25	GCASR



Ratchet adapter

L	Art. No.
13.9	GRA



Screw Remover

Application

To remove the remaining screw when the abutment screw is broken inside the fixture

Advantage

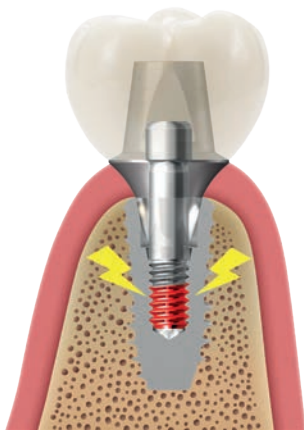
Easy to remove the broken screw, as well as protect the internal threads of the fixture from being damaged

Usage

1. Set the torque of the implant motor to 30~50 rpm in a CCW (counterclockwise) direction
2. Assemble the tool with the hand-piece
3. Run the motor while keeping the tip of the tool appropriately contacted with the broken screw until successfully removed

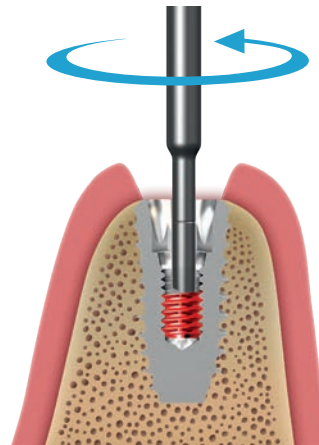
*Caution: Do not overload the tool with pressure; apply moderate pressure

1



Dual Abutment

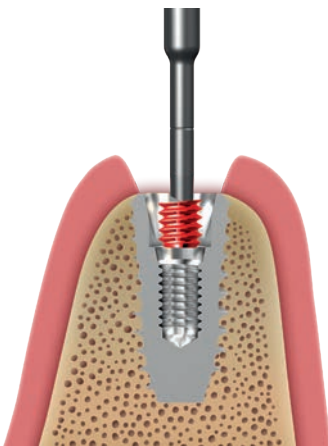
2



Use the friction force of the tool rotating counterclockwise to remove the screw

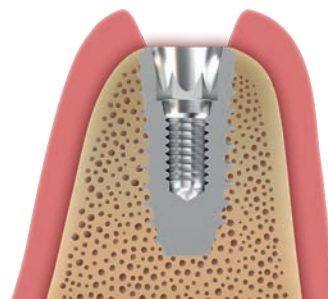
Hand-piece Speed: 30~50rpm / CCW

3



Allow the screw to gradually come out in a swaying motion

4



Abutment Hex Remover

Application

To remove the remaining hex when the hex portion of an abutment is broken

Advantage

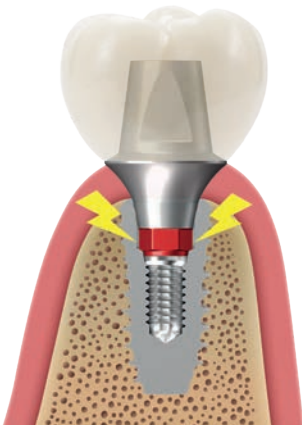
Easy to remove the broken hex, as well as protect the internal threads of the fixture from being damaged

Usage

1. Insert the tool inside into the remaining hex hole of the fixture inside
2. Assemble the ratchet with the tool and rotate it in a CW (clockwise) direction to lock the tool tip with the remaining hex
3. Disengage the ratchet and remove the remaining hex by gently rocking the tool
4. If necessary, the hole located in the upper portion of the tool may be used with the crown ejector (not included)

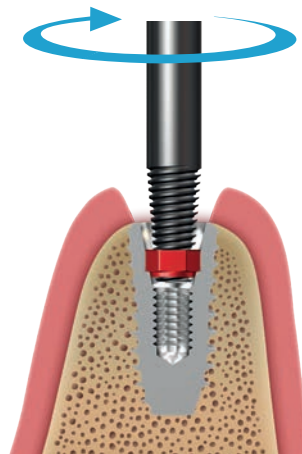
*Caution: Do not overload the tool with pressure; apply moderate pressure

1



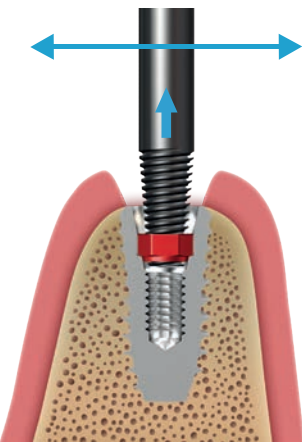
Dual Abutment (Hex)

2



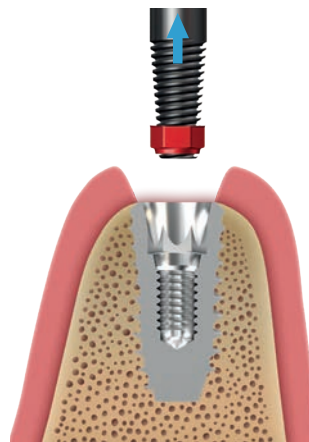
Rotate the tool clockwise so that the remaining hex gets tightly engaged to the tool

3



Once the tool is tightly locked to the hex remnant, disengage the ratchet. Gently rock the tool until the hex is successfully removed

4



Screw Tap Repair

Application

To recreate the internal thread lines of the fixture when it is damaged

Advantage

Easy to recreate the internal threads with the help of the guides corresponding to different internal angulation (8, 11 degrees) of the fixture

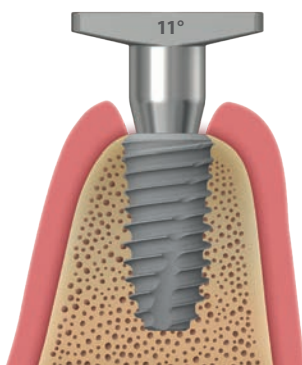
Usage

1. Place the guide with corresponding degree to the fixture
2. Assemble the tap tool with ratchet
3. Start tapping using the tap tool with appropriate torque
4. If excessive debris accumulates, pause tapping and remove using suction
5. Repeat steps 3 and 4 until completed

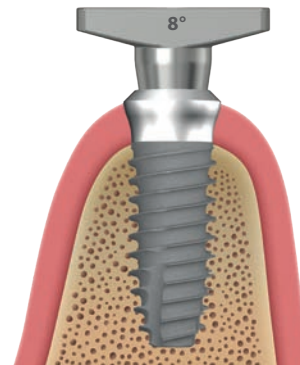
*Caution: Do not apply excessive torque onto the tap tool

It is highly recommended to use the ratchet after the initial engagement of the tool and the internal threads

1

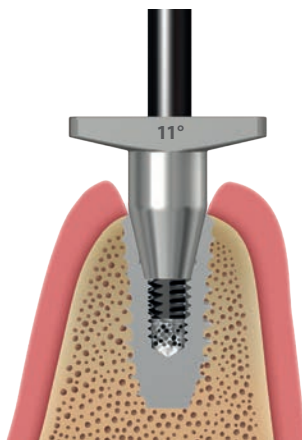


SuperLine / IMPLANTIUM:11°



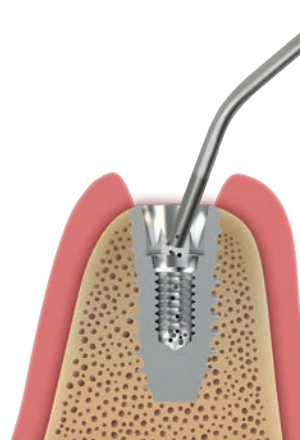
SimpleLine II: 8°

3



Tap with the guide attached

4



Remove the tool and the guide to suction the debris

*If excessive debris accumulates, pause tapping and remove using suction

Fixture Remover

Application

To remove the fixture when critically damaged with no other recovery options

Advantage

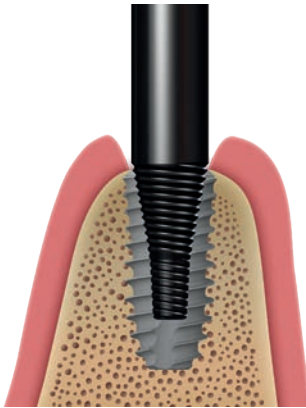
Easy to remove the failed fixture without causing damage to the adjacent bone

Usage

1. Assemble the tool with ratchet, and insert it into the failed fixture to be removed
2. Gently rotate the ratchet in a CCW direction until the tool is tightly locked into the fixture
3. Continue to rotate the ratchet with greater torque in a CCW direction until the failed fixture is completely removed
4. Separate the tool from the removed fixture by rotating it in a CW direction. If necessary, use the wrench (included) to hold the fixture while rotating the tool with ratchet in a CW direction

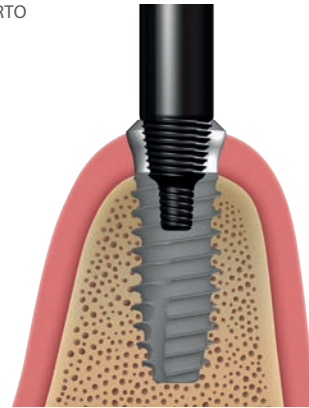
*Caution: Sufficient irrigation should be applied to the tool to prevent excessive heating during the procedure

1 Art No. XRFRT



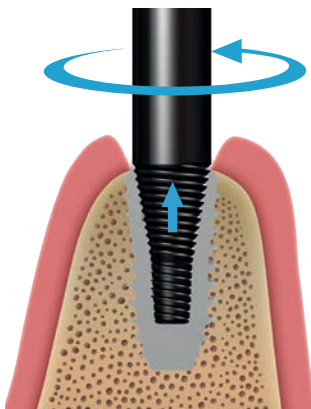
IMPLANTIUM / SuperLine:11°

Art No. XRFRT0



SimpleLine II:8°

2~3



Rotate the tool in a counter clockwise direction until it is tightly locked into the fixture
Continue to rotate with additional torque until the failed fixture is completely removed

4



Separate the tool from the fixture using the ratchet and the wrench that are included in the kit

Cover & Abutment Screw Remover

Application

To disengage the cover screw, healing abutment and abutment screw from the fixture when the 1.28 hex on the head is stripped or damaged

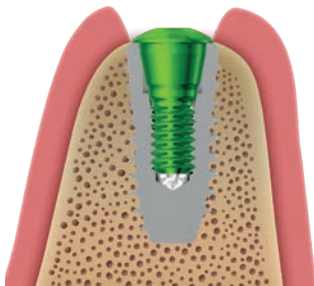
Advantage

Easy to disengage the cover screw, healing abutment and abutment screw with stripped or damaged hex

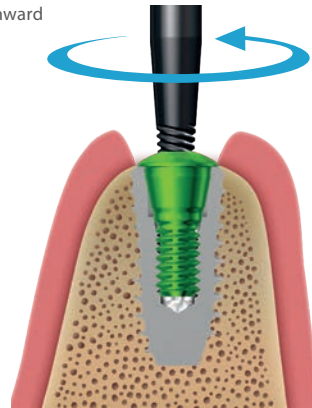
Usage

1. Assemble the tool with the ratchet and place it over the damaged 1.28 hex of the cover screw, healing abutment or abutment screw that needs to be removed
2. Gently rotate the ratchet in a CCW direction to tightly engage the tapered top of the tool into the damaged 1.28 hex.
3. Continue to rotate the ratchet in a CCW direction with greater torque until the cover screw, healing abutment or abutment screw is completely removed
4. After the removal, rotate the ratchet in a CW to separate the tool and the removed component

1 Cover Screw

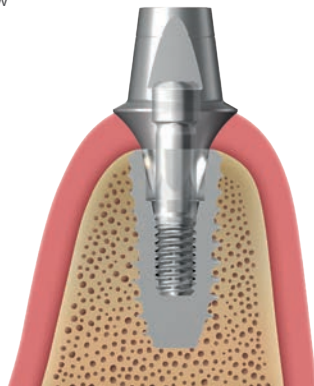


2 Loading downward

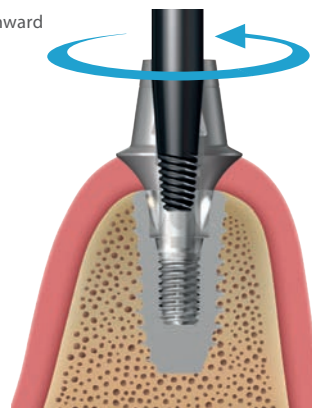


Rotate the tool counterclockwise until tightly locked into the 1.28 hex of the cover screw

3 Abutment Screw



4 Loading downward

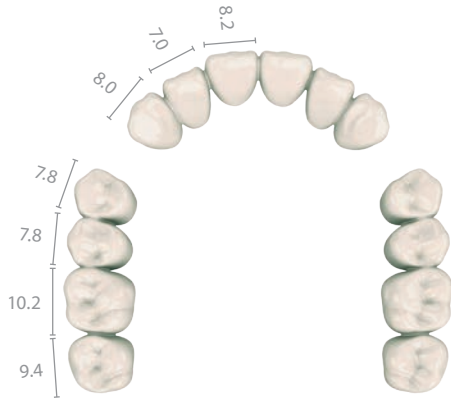


Rotate the tool counterclockwise until tightly locked into the 1.28 hex of the abutment screw

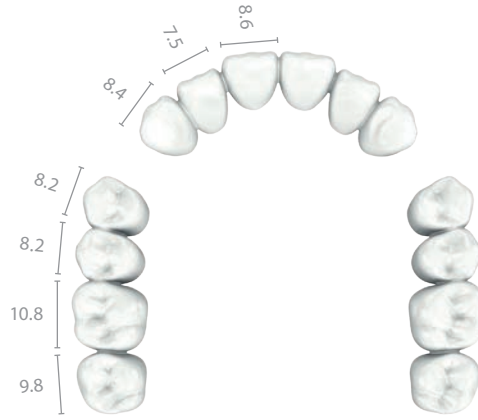
Temporary Shell

Preformed Temporary Crown

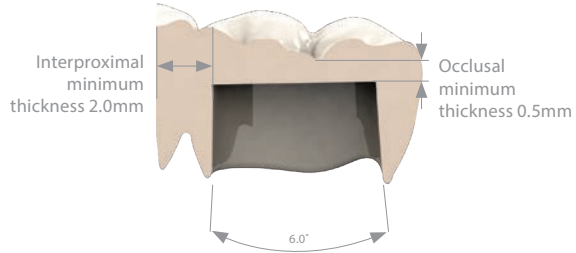
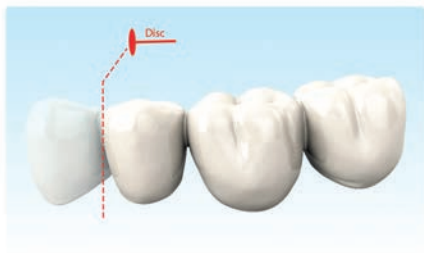
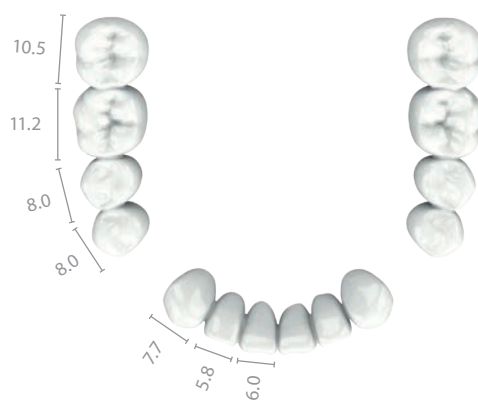
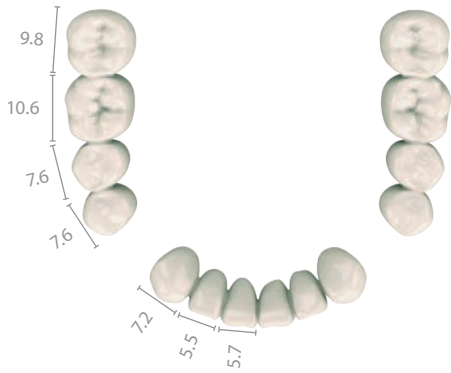
- Esthetic appearance that mimics a natural tooth
- Convenient for both single and multi-unit restoration





A2 Shade



Translucent



Shade		Type	REF
	A2	Full set	TSA2-FS
	Translucent	Full set	TSTR-FS

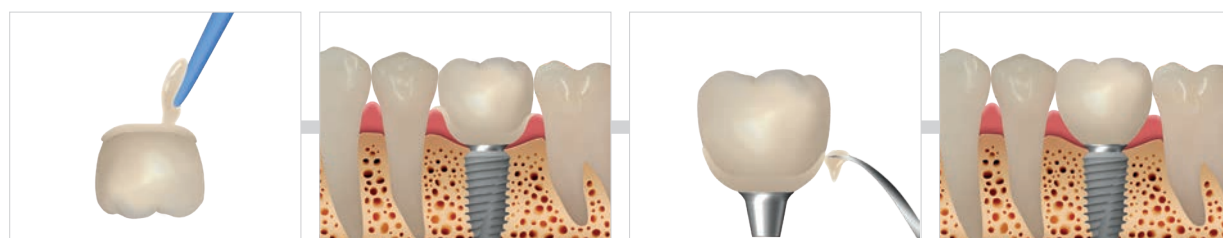


Healing

Temporary Abutment connection

Temporary Abutment preparation

Temporary Shell try-in



Filling of the Temporary Shell with acrylic Resin

Placement of Temporary Shell

Contouring of the cervical crown margin

Placement of Temporary Shell



Healing

Temporary Abutment connection

Temporary Shell try-in

Filling of the Temporary shell with acrylic resin



Acrylic resin setting

Contouring of the cervical crown margin

Contoured restoration

Provisional restoration

White Seal

Easier filling and removal

- Unlike the conventional cotton or impression material, the plush material allows a greater user-friendliness during dental procedures

No odor & color change

- Odor and color changing problem seen in Silicone or other sealing materials is eliminated

Stable form maintenance

- The rod with proper stiffness helps maintain its form while preventing the upper application layer from collapsing

Easy to fill into the screw hole

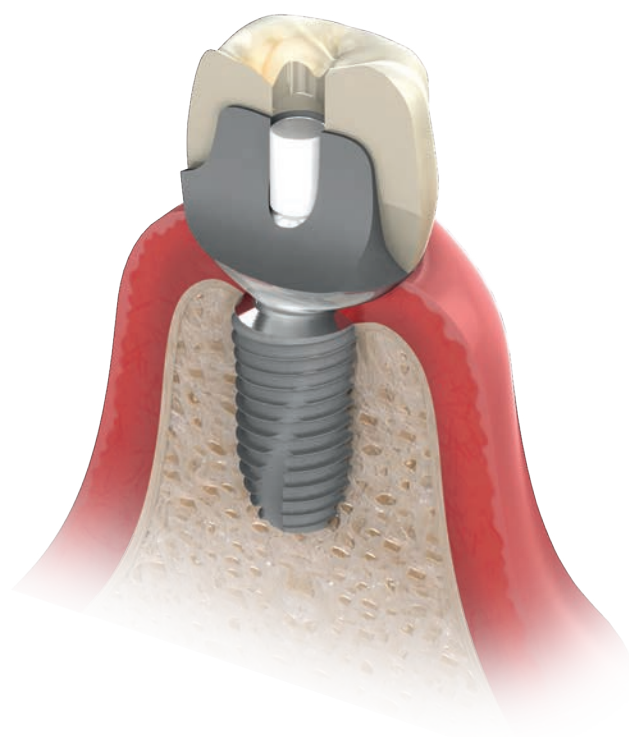
- White Seal™ is available in 30mm (length) size. The user may easily cut off the desired length and conveniently store away the rest for later use

Color / Odor Change Test



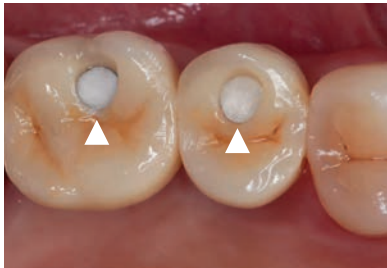
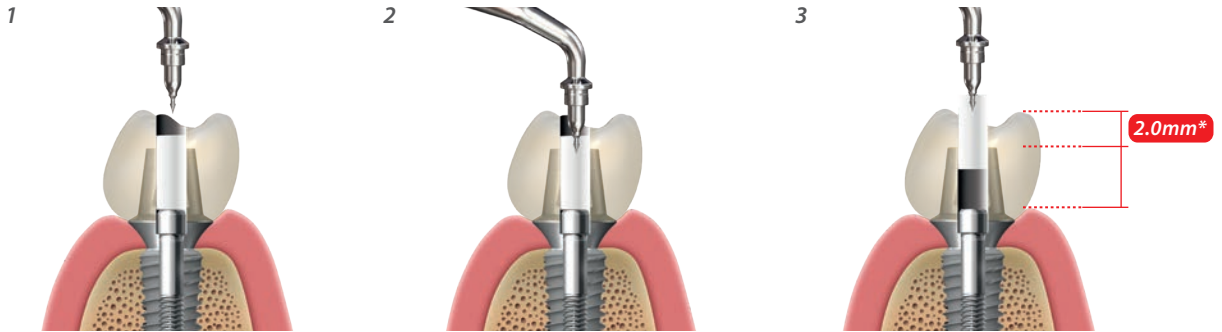
Products

Diameter	Length	Art. No.
Ø1.9	30	AHF 19030
Ø2.3	30	AHF 23030



How to use

Cut off a piece of the White Seal™ in the desired size with scissors or a knife.
Insert the piece into the abutment hole and seal it with a resin material.
(*It is recommended to submerge the White Seal™ 2.0mm from the occlusal surface.)



White Seal Tool

Depth Gauge & Delivery Holder

XSWN



XSWS



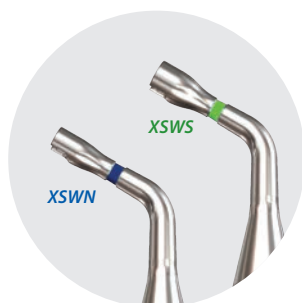
Remover

XSWR



Application	Art. No.
NR Line	XSWN
SuperLine, Implantium, SimpleLine II	XSWS

Application	Art. No.
Use common	XSWR



Delivery Holder

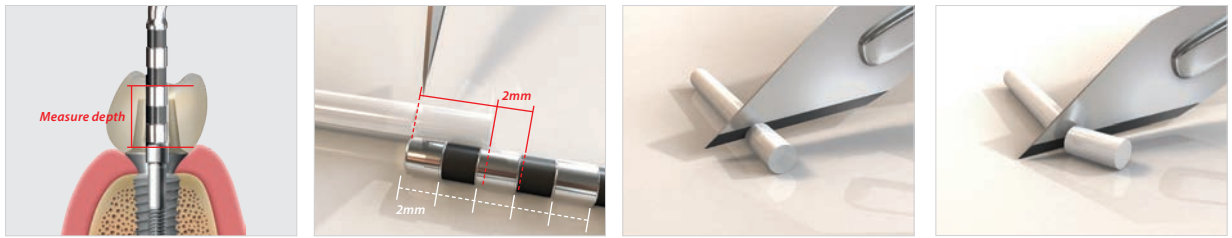


Depth Gauge

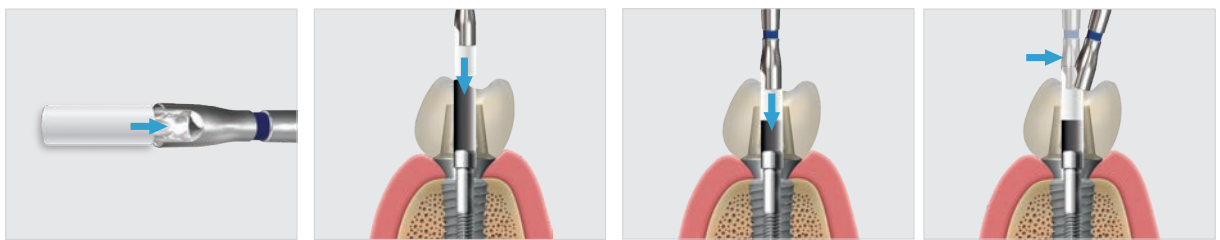


Remover

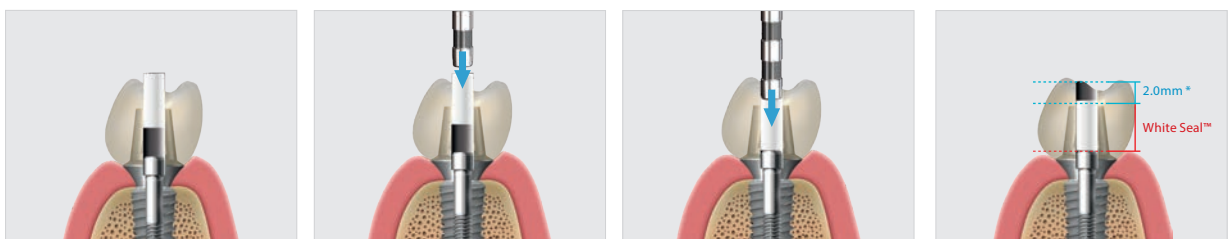
1 Cutting the White Seal™



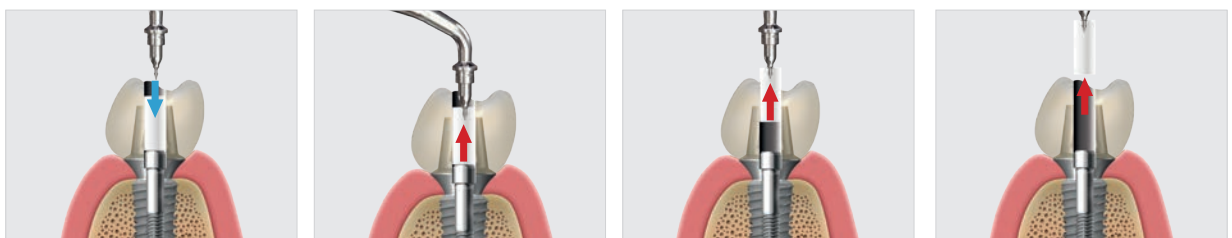
2 Delivery the White Seal™ (Delivery holder)



3 Delivery the White Seal™ (Depth gauge)

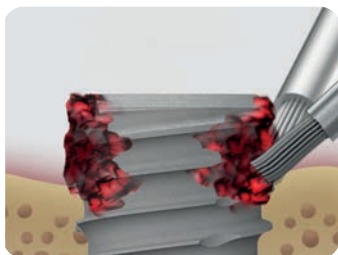


4 Removal of the White Seal™ (Remover)



TN-Brush

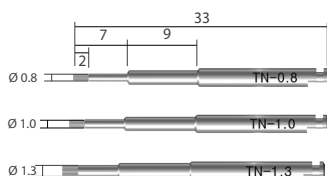
- Remove plaque and granulation tissue around the fixture using spinning brush
- The force of shape restoration is excellent with chosen highly elastic brush



Use brush left to right or top to bottom
500~800 rpm with irrigation

Brush

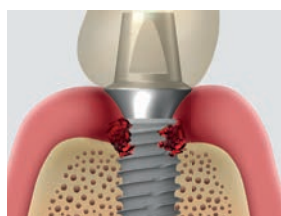
Diameter	Art. No.
Ø0.8	TN-0.8
Ø1.0	TN-1.0
Ø1.3	TN-1.3



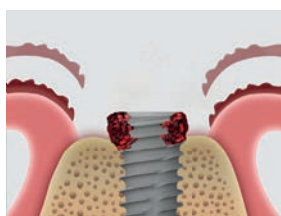
[Unit: mm, Scale 2 : 1]

Manual

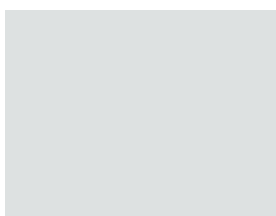
case 1 _ Peri-implantitis



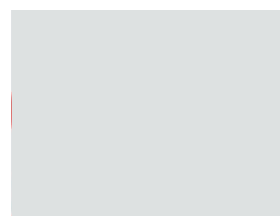
Pre-op



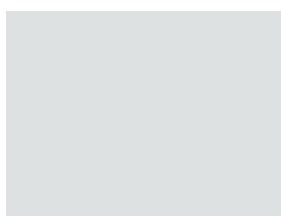
Flap reflection



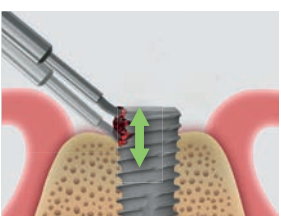
Removal of granulation tissue using curette



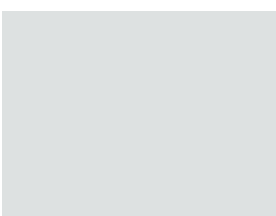
Tetracycline application (1min 30sec)



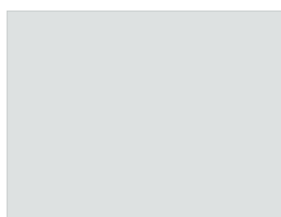
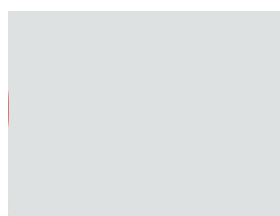
Using TN-Brush (Left to right)



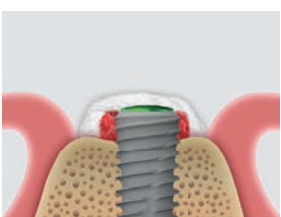
Using TN-Brush (Top to bottom)



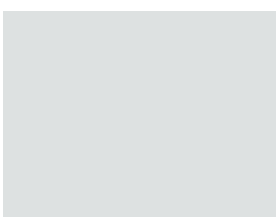
After using TN-Brush



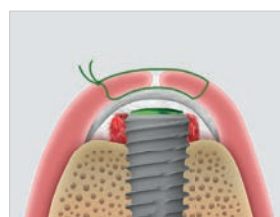
After Washing



Bone graft
(OSTEON™ II Collagen + Autogenous bone)

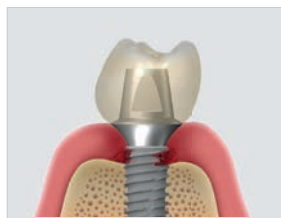


Bone graft
(Collagen graft)

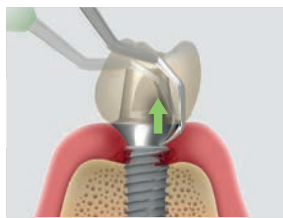


Suture

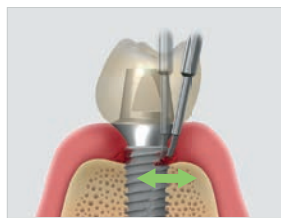
case 2_Perio-implantitis



Pre-op



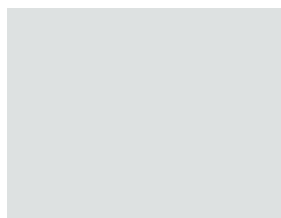
Removal of granulation tissue using curette



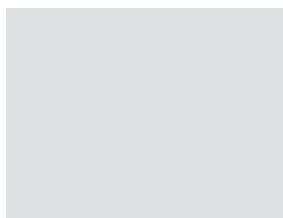
Using TN-Brush (Left to right)



Using TN-Brush (Top to bottom)

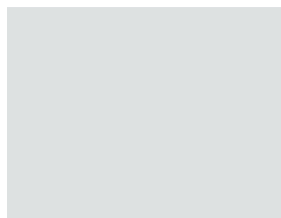


After using TN-Brush

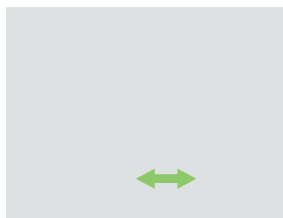


Healing

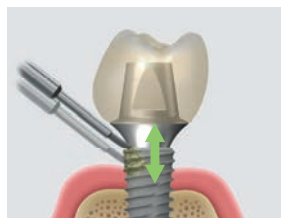
Case 3_Perio-implantitis



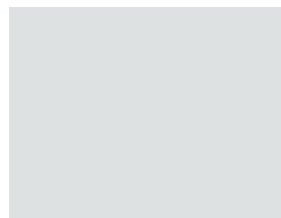
Pre-op



Using TN-Brush (Left to right)

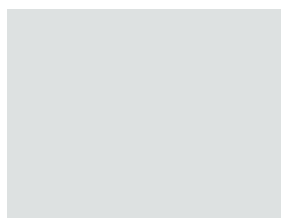


Using TN-Brush (Top to bottom)

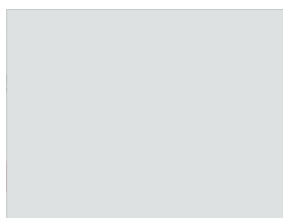


After using TN-Brush

Case 4_Periodontal treatment

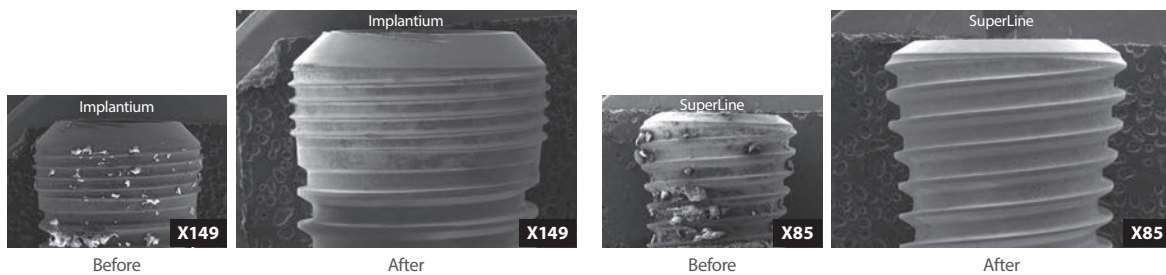


Flap reflection



Root planing in open treatment

SEM

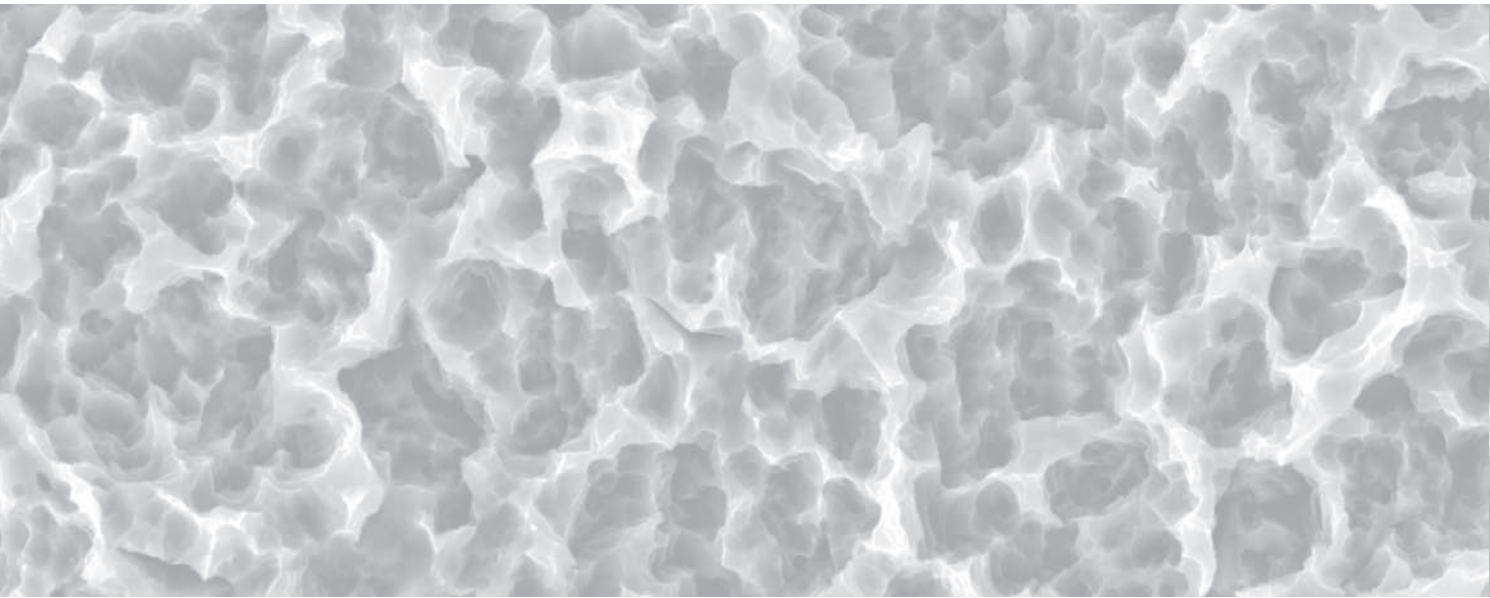


Before

After

Before

After



Simple & Predictable

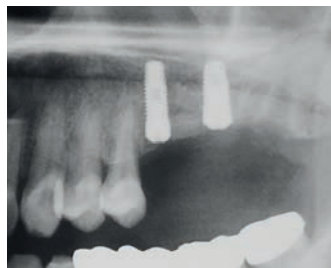
15 Years of Clinical Evidence

over
15 years
of Long
term
data

OVER A **DECADE** OF COMMITMENT TO THE
BEST PRODUCTS FOR DENTISTS AND PATIENTS



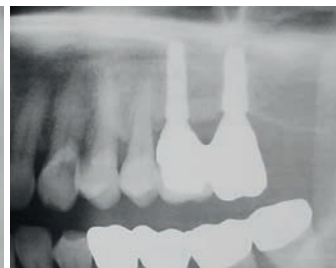
06. 20. 2002
Pre-op



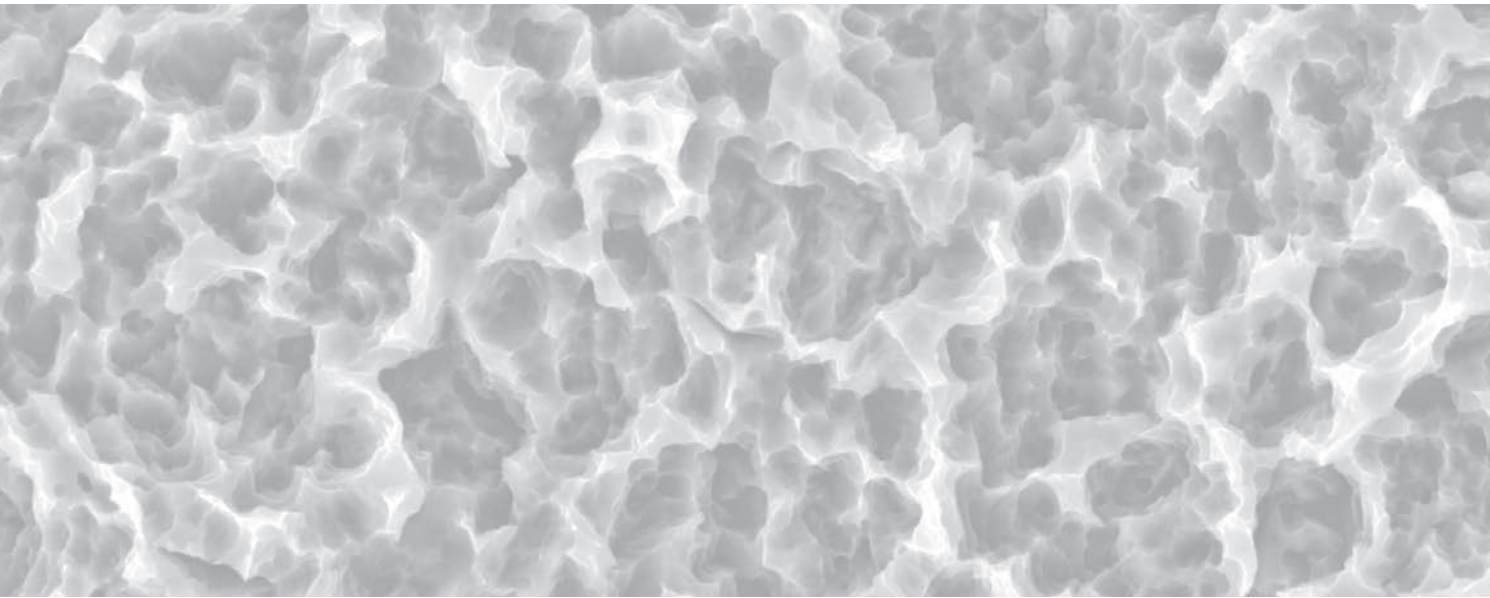
07. 02. 2002
Post-op



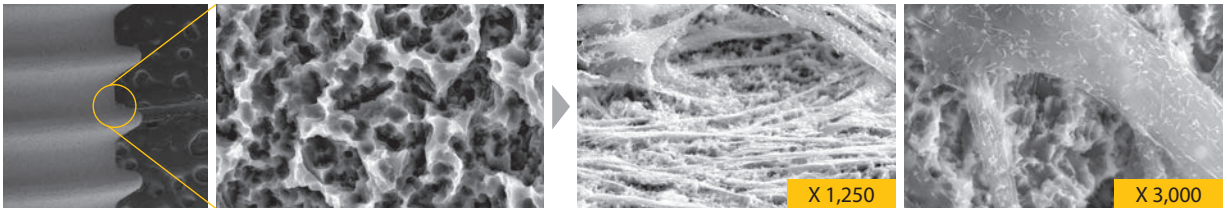
11. 29. 2002
Final Prosthesis



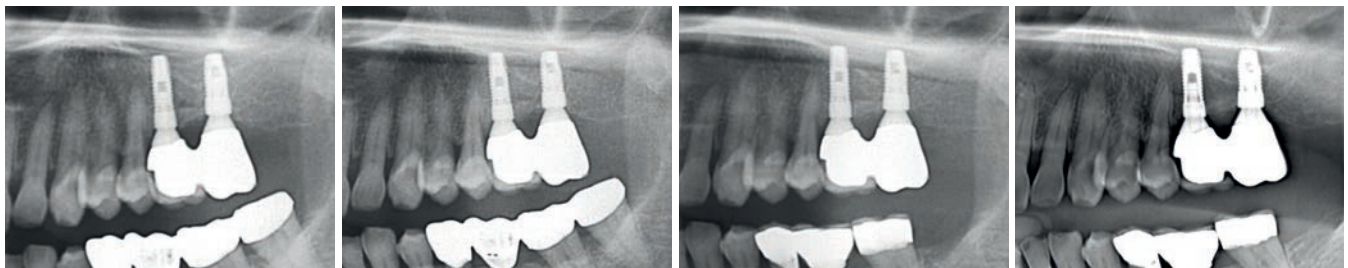
06. 02. 2004
1 Years 2 months



S.L.A. (Sandblasting with Large grits and Acid etching) Surface?



Cell number 3×10^6 , after 7 days of cell culture



11. 15. 2007
5 Years

07. 24. 2009
6 Years 8 months

05. 23. 2012
9 Years 6 months

11. 25. 2017
15 Years

Dentium Instruments

for Total Solution

Catalog & Manual

Dentium
For Dentists By Dentists

Specifications are subject to change without any notice.
Some products listed in this catalog are not available in the market due to pending approval.