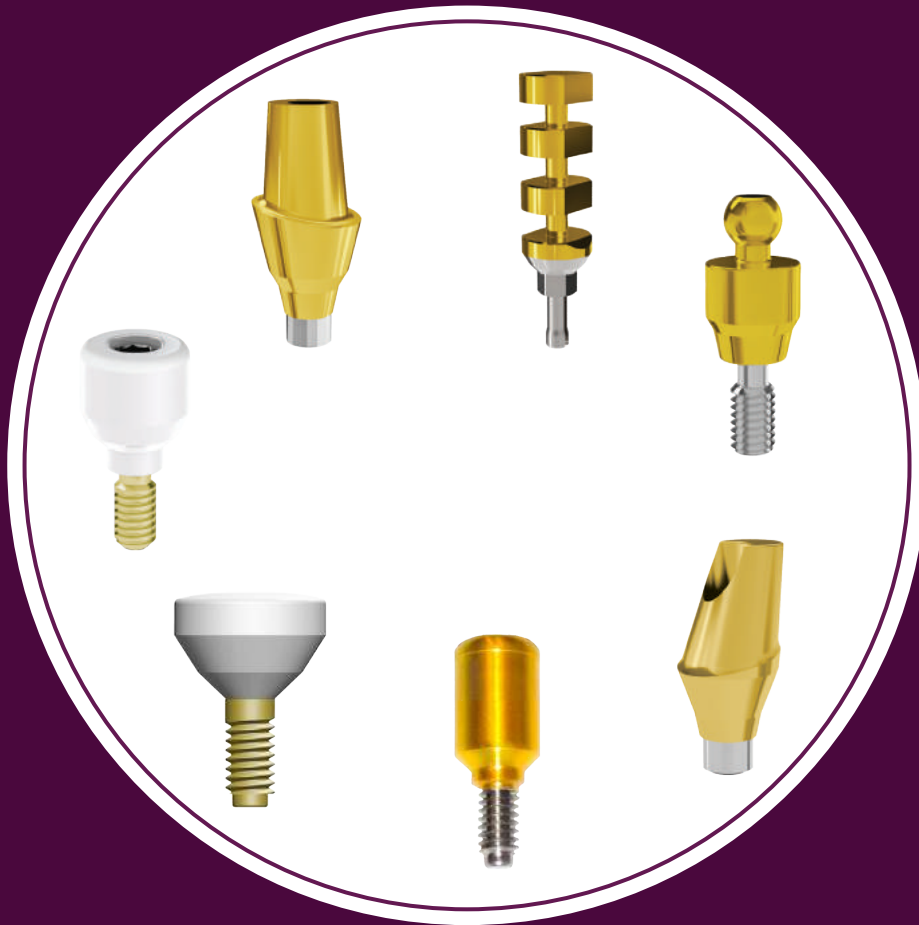


Prosthetic Guide



Introduction

Device Description

The SpiralTech implant system is a comprehensive product line that includes implants, corresponding abutments, and cover screws. SpiralTech dental implants are grade 5 titanium (Ti 6Al-4V ELI, conforms to ASTM F136) implants that come in 2 different surface treatments - SLA and RBM.

SpiralTech dental implants come in four designs with three based on their thread designs. The ESi has sharp, square, and rounded threads. The Ultimate implant also has sharp threads. The Premium implant features square and sharper threads in a more conventional design. The implants have diameters ranging from 3.0 mm to 6.0 mm, and the lengths from 8mm to 15 mm. ESi and Ultimate are intended to be used for immediate loading. The fourth implant type is the Solo One Piece, which comes with an abutment and cannot be used with low mechanical stability cases. Abutments are available in various types including straight, shoulder, angulated, ball attachments, multi-unit, temporary and healing. All abutments come in both hex and conical connections. Temporary abutments come in PEEK and zirconia. Healing abutments come in titanium alloy and zirconia. Abutments come in titanium alloy and as a titanium base with zirconia abutment. Ball attachments and multi-units are titanium alloy. No SpiralTech abutments are intended to be modified.

Indications For Use

The SpiralTech Dental Implants are endosseous implants intended to be surgically placed in the upper or lower jaw arches to provide support for prosthetic devices. The implants are designed to restore a patient's esthetics and chewing function. SpiralTech implants are intended for single or multiple unit restorations on splinted or non-splinted applications. The implants ESi and Ultimate are intended for immediate loading when good primary stability is achieved and with appropriate occlusive loading. These implants [along with Premium and Solo One Piece] can also be used for loading after a conventional healing period.

Solo One Piece 3.0 and 3.3 implants, Ultimate (conical) 3.0 implants, and ESi (conical) 3.0 implants are intended to replace a lateral incisor in the maxilla and/or a central or lateral incisor in the mandible. Mandibular central and lateral incisors must be splinted if using two or more 3.0 and/or 3.3 implants adjacent to one another.

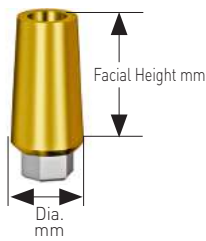
*Federal law restricts this device to sale by or on the orders of a dentist or physician. These devices are only to be used by trained professionals.

Cement/Screw Retained Abutments

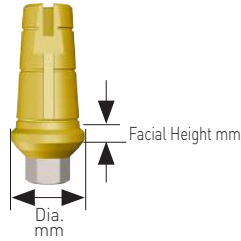
Prefabricated Flat and Anatomic Abutments with Conical or Hex Connections

Hex (for Ø3.5, Ø4.3, Ø5.0, Ø6.0 implants) NP (for Ø3.5 implants) RP (for Ø4.3, Ø5.0, Ø6.0 implants) SP (for Ø3.0 implants) with shoulder/cuff collar design

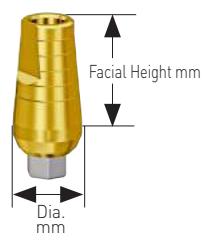
Design	Diameter (mm)	Facial Height (mm)	Hex Catalog No.	NP Conical Catalog No.	RP Conical Catalog No.	Slim Conical Catalog No.	
Flat (Titanium, Slim)	3.7	1	-	-	-	FSACSP3710	
		2	-	-	-	FSACSP3720	
		3	-	-	-	FSACSP3730	
Angulated 15° (Titanium, Slim)	3.7	1	-	-	-	15ASACSP3710	
		2	-	-	-	15ASACSP3720	
		3	-	-	-	15ASACSP3730	
Flat (Titanium, Narrow)	3.8	5	FTAH3805	FTACNP3805	FTACRP3805	-	
		7	FTAH3807	FTACNP3807	FTACRP3807	-	
		9	FTAH3809	FTACNP3809	FTACRP3809	-	
		11	FTAH3811	FTACNP3811	FTACRP3811	-	
Flat (Titanium, Standard)	4.5	5	FTAH4505	FTACNP4505	FTACRP4505	-	
		7	FTAH4507	FTACNP4507	FTACRP4507	-	
		9	FTAH4509	FTACNP4509	FTACRP4509	-	
		11	FTAH4511	FTACNP4511	FTACRP4511	-	
Flat (Titanium, Wide)	5.5	5	FTSAH5505	-	FTSARP5505	-	
		7	FTSAH5507	-	FTSARP5507	-	
		9	FTSAH5509	-	FTSARP5509	-	
		11	FTSAH5511	-	FTSARP5511	-	
Flat with Straight Shoulder (Titanium)	3.8	1	FTASH3810	FTASCNP3810	FTASCRP3810	-	
		2	FTASH3820	FTASCNP3820	FTASCRP3820	-	
		3	FTASH3830	FTASCNP3830	FTASCRP3830	-	
	4.5	1	FTASH4510	FTASCNP4510	FTASCRP4510	-	
		2	FTASH4520	FTASCNP4520	FTASCRP4520	-	
		3	FTASH4530	FTASCNP4530	FTASCRP4530	-	
		4	FTASH4540	FTASCNP4540	FTASCRP4540	-	
	5.5	1	FTASH5510	-	FTASCRP5510	-	
		2	FTASH5520	-	FTASCRP5520	-	
		3	FTASH5530	-	FTASCRP5530	-	
	Anatomic (Titanium)	4.5	1	ATAH4510	ATACNP4510	ATACRP4510	-
			2	ATAH4520	ATACNP4520	ATACRP4520	-
3			ATAH4530	ATACNP4530	ATACRP4530	-	
4			ATAH4540	ATACNP4540	ATACRP4540	-	
5.2		1	ATAH5210	-	ATACRP5210	-	
		2	ATAH5220	-	ATACRP5220	-	
		3	ATAH5230	-	ATACRP5230	-	
		3	ATAH5230	-	ATACRP5230	-	
15° Angulated (Titanium)	4.7	1	15ATAH4710	15ATACNP4710	15ATACRP4710	-	
		2	15ATAH4720	15ATACNP4720	15ATACRP4720	-	
		3	15ATAH4730	15ATACNP4730	15ATACRP4730	-	
25° Angulated (Titanium)	5.2	1	25ATAH5210	25ATACNP5210	25ATACRP5210	-	
		2	25ATAH5220	25ATACNP5220	25ATACRP5220	-	
		3	25ATAH5230	25ATACNP5230	25ATACRP5230	-	



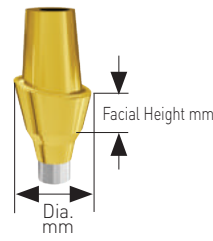
Flat, Titanium



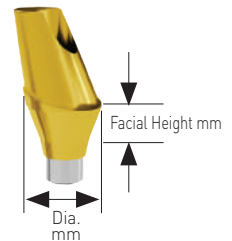
Flat, Titanium
with Straight
Shoulder



Flat, Titanium
Wide



Anatomic, Titanium



Angulated, Titanium

Cement-Retained Abutments

Anatomic Zirconia Abutments with Conical or Hex Connections*

Hex Abutments (for Ø3.5, Ø4.3, Ø5.0, Ø6.0 implants)

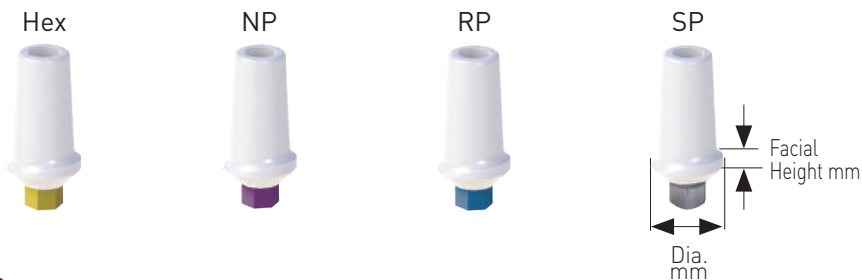
NP Abutments (for Ø3.5 implants)

RP Abutments (for Ø4.3, Ø5.0, Ø6.0 implants)

SP Abutments (for Ø3.0 implants)

Design	Diameter (mm)	Facial Height (mm)	Hex Catalog No.	NP Conical Catalog No.	RP Conical Catalog No.	Slim Conical Catalog No.
Anatomic zirconia with titanium base	3.5	1	-	-	-	AZACSP3510
		2	-	-	-	AZACSP3520
		3	-	-	-	AZACSP3530
		4	-	-	-	AZACSP3540
		5	-	-	-	AZACSP3550
	5.0	1	AZAHT5010	AZACTNP5010	AZACTRP5010	-
		2	AZAHT5020	AZACTNP5020	AZACTRP5020	-
		3	AZAHT5030	AZACTNP5030	AZACTRP5030	-
		4	AZAHT5040	AZACTNP5040	AZACTRP5040	-
		5	AZAHT5050	AZACTNP5050	AZACTRP5050	-

*Call for more information.



Cover Screws

Zero height abutments for covered healing (two-stage surgery).

Hex Abutments (for Ø3.5, Ø4.3, Ø5.0, Ø6.0 implants)

NP Abutments (for Ø3.5 implants)

RP Abutments (for Ø4.3, Ø5.0, Ø6.0 implants)

SP Abutments (for Ø3.0 implants)

Diameter (mm)	Hex Catalog No.	NP Conical Catalog No.	RP Conical Catalog No.	Slim Conical Catalog No.
3.0	-	-	-	CCSP30S
3.5	CSH35Y	CSCNP35P	-	-
4.3	CSH43Y	-	CSCR43B	-
5.0	CSH50Y	-	CSCR50B	-
6.0	CSH60Y	-	CSCR60B	-



Implant Carrier

Shank Height (mm)	Hex Catalog No.	NP Conical Catalog No.	RP Conical Catalog No.	Slim Conical Catalog No.
5	ICH5	ICNP5	ICRP5	ICCSP5
10	ICH10	ICNP10	ICRP10	ICCSP10

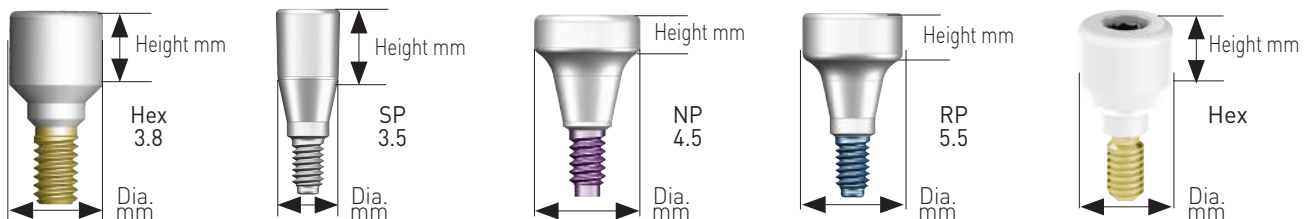


Titanium & Zirconia Healing Abutments

Available in various heights and diameters, healing abutments are used to sculpt soft tissues in preparation for placement of the final restoration. They can be used in the one-stage or two-stage surgical approach. All flat zirconia abutments have a 5mm height above the margin.*

Design	Diameter (mm)	Facial Height (mm)	Hex Catalog No.	NP Conical Catalog No.	RP Conical Catalog No.	Slim Conical Catalog No.
Healing Cap, slim	3.5	2	-	-	-	HACSP352
		3	-	-	-	HACSP353
		4	-	-	-	HACSP354
		5	-	-	-	HACSP355
		6	-	-	-	HACSP356
Healing Cap, narrow	3.8	2	HAH382	HACNP382	HACRP382	-
		3	HAH383	HACNP383	HACRP383	-
		4	HAH384	HACNP384	HACRP384	-
		5	HAH385	HACNP385	HACRP385	-
		6	HAH386	HACNP386	HACRP386	-
Healing Cap, medium	4.5	2	HAH452	HACNP452	HACRP452	-
		3	HAH453	HACNP453	HACRP453	-
		4	HAH454	HACNP454	HACRP454	-
		5	HAH455	HACNP455	HACRP455	-
		6	HAH456	HACNP456	HACRP456	-
Healing Cap, wide	5.5	2	HAH552	-	HACRP552	-
		3	HAH553	-	HACRP553	-
		4	HAH554	-	HACRP554	-
		5	HAH555	-	HACRP555	-
		6	HAH556	-	HACRP556	-
	6.0	2	HAH602	-	HACRP602	-
		3	HAH603	-	HACRP603	-
		4	HAH604	-	HACRP604	-
		5	HAH605	-	HACRP605	-
		6	HAH606	-	HACRP606	-
Zirconia Healing Cap*	3.5	2	-	-	-	ZHCSP352
		3	-	-	-	ZHCSP353
		4	-	-	-	ZHCSP354
		5	-	-	-	ZHCSP355
		6	-	-	-	ZHCSP356
	3.8	2	ZHCH382	ZHCNP383	ZHCRP383	-
		3	ZHCH383	ZHCNP384	ZHCRP384	-
		4	ZHCH384	ZHCNP385	ZHCRP385	-
		6	ZHCH386	ZHCNP386	ZHCRP386	-
	4.3	3	ZHCH433	ZHCNP433	ZHCRP433	-
		4	ZHCH434	ZHCNP434	ZHCRP434	-
	5.5	3	ZHCH553	-	ZHCRP553	-
		4	ZHCH554	-	ZHCRP554	-

*Call for more information.



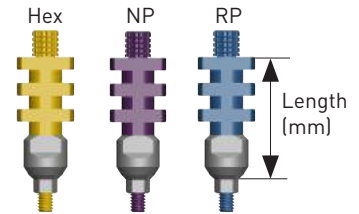
Impression Transfer

Available for both open-tray and closed-tray.

Open Tray: transfer screw supplied with both long and short pickup techniques.

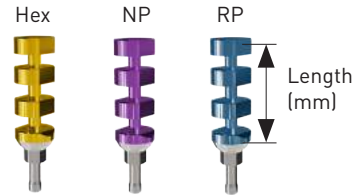
Open Tray: transfer screw supplied with both long and short pickups

Length (mm)	10	15	Transfer Screw
Hex Catalog No.	ITOH10	ITOH15	ITSH
NP Conical Catalog No.	ITOCNP10	ITONCNP15	ITSCNP
RP Conical Catalog No.	ITONCRP10	ITONCRP15	ITSCRCP
Slim Conical Catalog No.	ITOCSP10	ITOCSP15	ITSCSP



Closed Tray: long and short transfers

Length (mm)	10	15
Hex Catalog No.	ITCH10	ITCH15
NP Conical Catalog No.	ITCCNP10	ITCCNP15
RP Conical Catalog No.	ITCCRP10	ITCCRP15
Slim Conical Catalog No.	ITCCSP10	ITCCSP15



Screw-Retained & Multi-Unit Restorations

Our multi-unit abutment system is designed for restoration of both partially or fully edentulous arch cases.

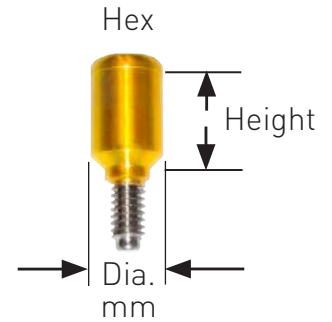
	Facial Height (mm)	1	2	3	4
Straight Multi Abutments	Hex Catalog No.	00MUAH1	00MUAH2	00MUAH3	00MUAH4
	NP Conical Catalog No.	00MUANP1	00MUANP2	00MUANP3	00MUANP4
	RP Conical Catalog No.	00MUARP1	00MUARP2	00MUARP3	00MUARP4
Angled 17° Multi Abutments	Hex Catalog No.	17MUAH1	17MUAH2	17MUAH3	-
	NP Conical Catalog No.	17MUANP1	17MUANP2	17MUANP3	-
	RP Conical Catalog No.	17MUARP1	17MUARP2	17MUARP3	-
Angled 30° Multi Abutments	Hex Catalog No.	30MUAH1	30MUAH2	30MUAH3	-
	NP Conical Catalog No.	30MUANP1	30MUANP2	30MUANP3	-
	RP Conical Catalog No.	30MUARP1	30MUARP2	30MUARP3	-

Abutment Accessories & Prosthetics

Order Number	MUPS0032	MUTS1250	MTMU1200	MTMU8005	MWQP0011	MHCC4550	MAMU1201	MSMU4023
Description	Plastic Sleeve screw included	Titanium Sleeve screw included	Open Tray Transfer screw included	Close Tray Transfer	Plastic for Closed Tray Transfer	Healing Abutment for Multi-Unit	Analog for Multi-Unit	Screw for Multi-Unit Sleeve

Implant Prosthetic Indicators (IPI)

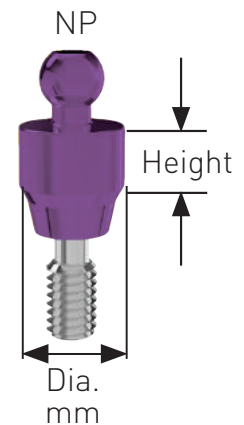
Diameter	Height (mm)	Hex Catalog No.	NP Conical Catalog No.	RP Conical Catalog No.
3.85	1	LOH1	LOHNP1	LOHRP1
	2	LOH2	LOHNP2	LOHRP2
	3	LOH3	LOHNP3	LOHRP3
	4	LOH4	LOHNP4	LOHRP4
	5	LOH5	LOHNP5	LOHRP5
	6	LOH6	LOHNP6	LOHRP6



Ball Attachments

Conical and Hex Connection manufactured in Titanium alloy

Design	Diameter (mm)	Facial Height (mm)	Hex Catalog No.	NP Conical Catalog No.	RP Conical Catalog No.
Ball Attachment	4	1	BAH1	BAHNP1	BAHRP1
		2	BAH2	BAHNP2	BAHRP2
		3	BAH3	BAHNP3	BAHRP3
		4	BAH4	BAHNP4	BAHRP4
		5	BAH5	BAHNP5	BAHRP5
		6	BAH6	BAHNP6	BAHRP6



Ball Attachment Covers (BAC)

Catalog No.	MAH1	NIS1	NIS2	NIS3
Description	Metal (BAC)	Standard Plastic (BAC)	Soft Plastic (BAC)	Hard Plastic (BAC)

Implant Prosthetic Indicator Covers (IPI)

Catalog No.	MAC1	NIP1	NIP2	NIP3
Description	Metal (IPI)	Standard Plastic (IPI)	Soft Plastic (IPI)	Hard Plastic (IPI)

Abutments—PEEK Temporary

Esthetic with Hex/Conical Connection*

Design	Length (mm)	Facial Height (mm)	Hex Catalog No.	NP Conical Catalog No.	RP Conical Catalog No.	Slim Conical Catalog No.
Ø4.5 Flat with Straight Shoulder	10	1	FPAH1001	FPACNP1001	FPACRP1001	FPACSP1001
	11	2	FPAH1102	FPACNP1102	FPACRP1102	FPACSP1102
	12	3	FPAH1203	FPACNP1203	FPACRP1203	FPACSP1203
Ø4.5 Anatomic	10	1	APAH1001	APACNP1001	APACRP1001	APACSP1001
	11	2	APAH1102	APACNP1102	APACRP1102	APACSP1102
	12	3	APAH1203	APACNP1203	APACRP1203	APACSP1203



*Call for more information.

Screws and Accessories

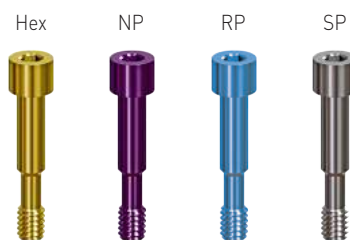
Lab —Titanium based Conical & Hex Plastic Sleeve

Material	Plastic	Plastic & Titanium
Platform	1.00mm	1.00mm
Length	12.00mm	12.00mm
Hex Catalog No.	SP8218	SPT3112
Conical Catalog No.	SPC8218	SPTC3112
Slim Conical Catalog No.	SPCSP8218	SPTCSP3112



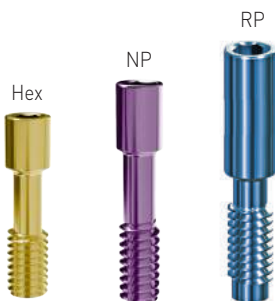
Connecting Screws for Impression Transfer

Length	13mm	18mm
Hex Catalog No.	ITSH13	ITSH18
NP Conical Catalog No.	ITSCNP13	ITSCNP18
RP Conical Catalog No.	ITSCR13	ITSCR18
Slim Conical Catalog No.	ITSCSP13	ITSCSP18



Screws

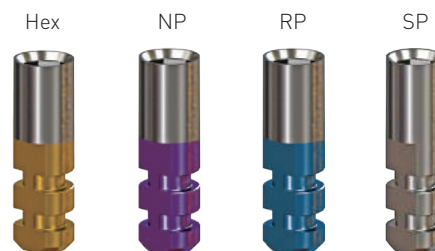
Packaged with	Angulated Abutments	Angulated & Straight Abutments	Straight and Abutments
Length	7.6mm	8.3mm	9.4mm
Hex Catalog No.	SCA76	SCA83	SCA94
NP Conical Catalog No.	SCACNP76	SCACNP83	SCACNP94
RP Conical Catalog No.	SCACRP76	SCACRP83	SCACRP94
Slim Conical Catalog No.	SCACSP76	SCACSP83	SCACSP94



Screws fit all abutments; utilize 1.25 mm Hex Driver; final torque 30 Ncm.

Lab Analogs

Material	Titanium	Titanium
Diameter	4.00mm	3.00mm
Length	Standard 12.00mm	Standard 12.00mm
Hex Catalog No.	ECAH	-
NP Conical Catalog No.	ECACNP	-
RP Conical Catalog No.	ECACRP	-
Slim Conical Catalog No.	-	ECACSP30



SpiralTech Prosthetic Implant Overview

Maximum success in immediate loading

Multi threaded system

Rounded threads enhance stability and stressless bone contact

Trapzeus thread stability

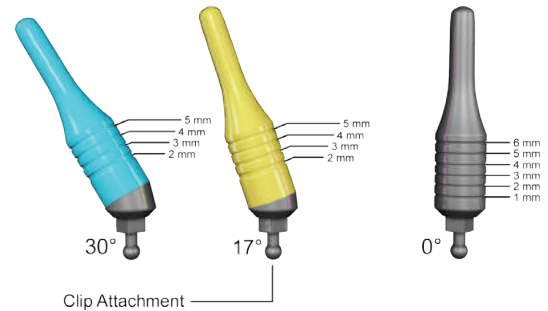
Knife-cutting edges for easy penetration

Designed to replicate natural teeth

Stores bone particles and enhances capillaries in fossa

Prosthetic Instructions for Implant Abutment

The following are instructions for usage of straight or angulated abutment.



1. Remove the portion of the gingival (gum) which is above the implant covering screw, measure tissue height from the implant crest and accordingly select the proper marginal shoulder height of the abutment.
2. Select healing cap according to the height and preferred width of the healing abutment after evaluating tissue height.

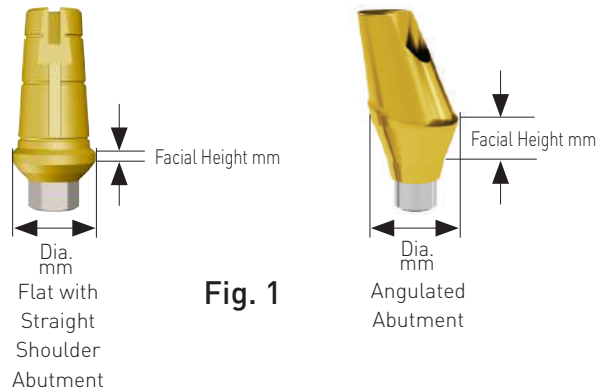


Fig. 1

Caution: Make sure healing abutment is at least 2mm above gingival to avoid tissue regeneration above healing cap.

3. Following tissue recovery, evaluate the angulation of the implant in relation to the adjacent teeth as well as the occlusal plane. This will lead you to select the proper abutment from the SpiralTech catalog. (Fig. 1: Straight, 15° or 25°.)
4. In order to stabilize the abutment, a minimal height of 2mm above the mucosa margin of the healing abutment must be made (Fig. 2). Cemented esthetic margin is recommended to be at least 1mm below mucosa.
5. Place the healing abutment in the implant (Fig. 3).



Fig. 2

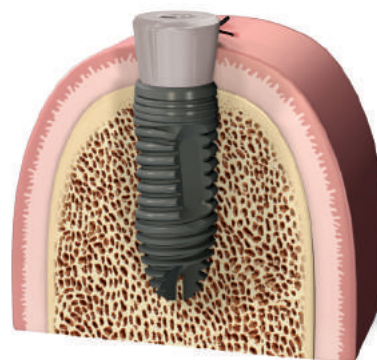


Fig. 3

Impression taking for abutment:

1. Select impression transfer—
Open or Closed Tray (Fig. 5).
2. Remove healing cap and place impression transfer (Fig. 6).
3. If the Closed Tray impression transfer won't fit into the implant, clamp prongs and rotate (Fig. 7).

Important: Make sure impression transfer is fully and properly engaged to implant margin.

3. Take radiograph and confirm impression transfer is positioned correctly in implant (Fig. 8).
4. Take final impression and place the lab implant analog into impression transfer (Fig. 9 and Fig. 10).

Important: Make sure the lab analog is fully engaged to avoid potential future complications.

5. Place Lab Analog into impression (Fig. 11).
6. Pour impression and send to lab (Fig. 11).

Closed Tray
Transfer



Open Tray
Transfer



Fig. 5



Open Tray
Hex



Closed Tray
Hex

Fig. 6



Overly opened
prongs

Fig. 7



X-Ray of
Closed Tray

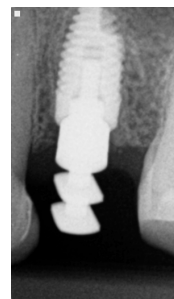


Fig. 8



Fig. 9

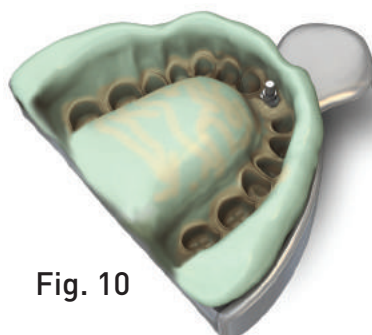


Fig. 10

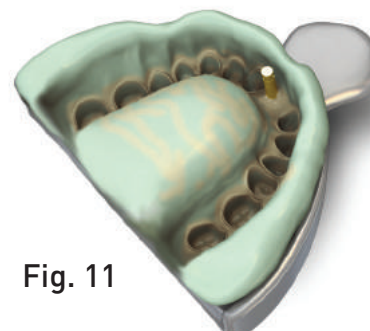


Fig. 11

Preparation of the abutment

1. Abutment (anatomic or flat with shoulder) consists of titanium and can be modified as required (Fig. 11).

Please NOTE: If modification of an anatomical abutment is needed utilize a polishing aid.

2. Modification of an anatomic abutment is placed in a master cast (Fig. 12).
3. Cast frame work using a standard casting method.
4. Coat the frame work with porcelain (Fig. 13).
5. The final restoration is delivered to the patient.
 - Remove the abutment from the master cast
 - Sterilize abutment and crown
 - Remove the healing cap or temporary restoration
 - Position the sterile abutment in the implant.
Tighten screw with 25Ncm using the Torque Wrench.
Close the opening of the abutment screw with cotton roll.
This will assist you in case you need to remove the abutment.
 - Cement the crown to the abutment and then remove superfluous cement



Fig. 11



Fig. 12



Fig. 13

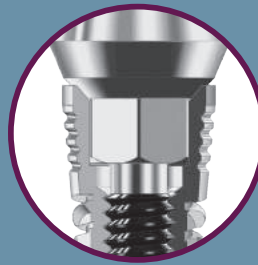
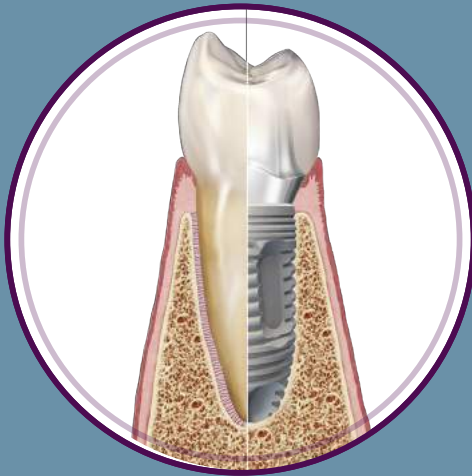
Autoclave Sterilization Instructions and Technique

1. Remove abutment from plastic package
2. Place abutment in sterile bag
3. See table for sterilization times

Sterilizer	Temperature	Pressure	Sterilized Time	Drying Time
Steam Autoclave	121°C (250°F)	15 psi	15 min	20 min
Unwrapped Items	132°C (270°F)	30 psi	3 min	20 min
Lightly Wrapped Items	132°C (270°F)	30 psi	8 min	20 min
Heavily Wrapped Items	132°C (270°F)	30 psi	10 min	20 min
Dry Heat Wrapped	170°C (340°F)	-	60 min	-
Dry Heat (Rapid Flow) Unwrapped Items	190°C (375°F)	-	6 min	-
Dry Heat (Rapid Flow) Packaged Items	190°C (375°F)	-	12 min	-

HEX CONNECTION

CONICAL HEX CONNECTION



ESi Implant maintains root formation

ONE OF OUR **SUPERIOR** PRODUCTS, **ESi** IMPLANT

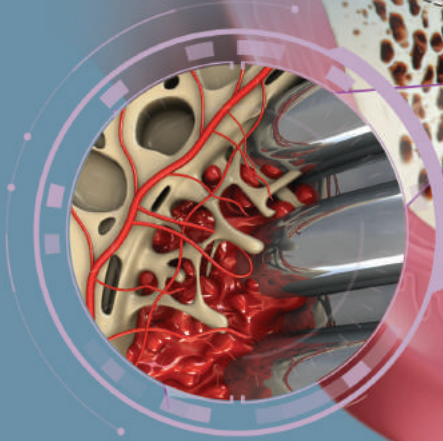
Knife-edged thread to improve implant penetration

Rounded threads located in middle third reduce potential implant internal bone pressure

Multi-threaded system designed to replicate natural teeth

Fossa reduces implant stress, stores bone particles and enhances osseointegration

Implant crestal area contains micro-rings with crestal converging angle that reduce trabecular bone resorption especially in immediate placement



Conical Hex or Hex connections



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