



TM

PARAGON

IMPLANT COMPANY
SURGICAL & PROSTHETIC GUIDE



NIZPLANT™

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About This Guide

This surgical manual demonstrates the protocol for implantation of the NizPlant dental implant system. The NizPlant dental implant system is recommended for use by trained clinicians with prior training and experience placing dental implants. For additional information, please refer to the NizPlant Instructions for Use at paragon-implant.com/IFU.

The NizPlant Implants are intended for use in the mandible and maxilla in support of and the retention of overdentures, multiple-unit, screw- or cement-retained prostheses. The implants are intended for either a delayed loading period or immediate placement and function, for the support of multiple-tooth restorations, while taking into consideration bone volume and density ensuring primary stability and appropriate occlusal load requirements.

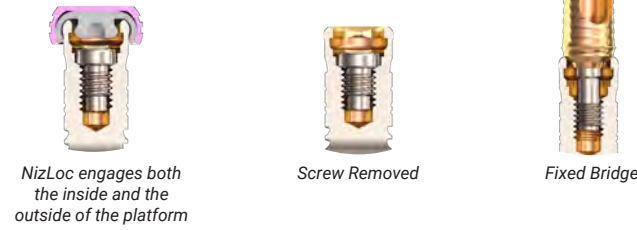
NizPlant Implant Sizes:

<u>Body Diameters</u>	<u>Platform Diameters</u>	<u>Lengths</u>
3.0mm	3.9mm	9mm, 11mm, 12.5mm, 14mm
3.7mm	3.9mm	7mm, 9mm, 11mm, 12.5mm, 14mm
4.2mm	3.9mm	7mm, 9mm, 11mm, 12.5mm, 14mm
4.7mm	3.9mm	7mm, 9mm, 11mm, 12.5mm, 14mm
5.2mm	3.9mm	7mm, 9mm, 11mm, 12.5mm, 14mm
5.7mm	3.9mm	7mm, 9mm, 11mm, 12.5mm, 14mm

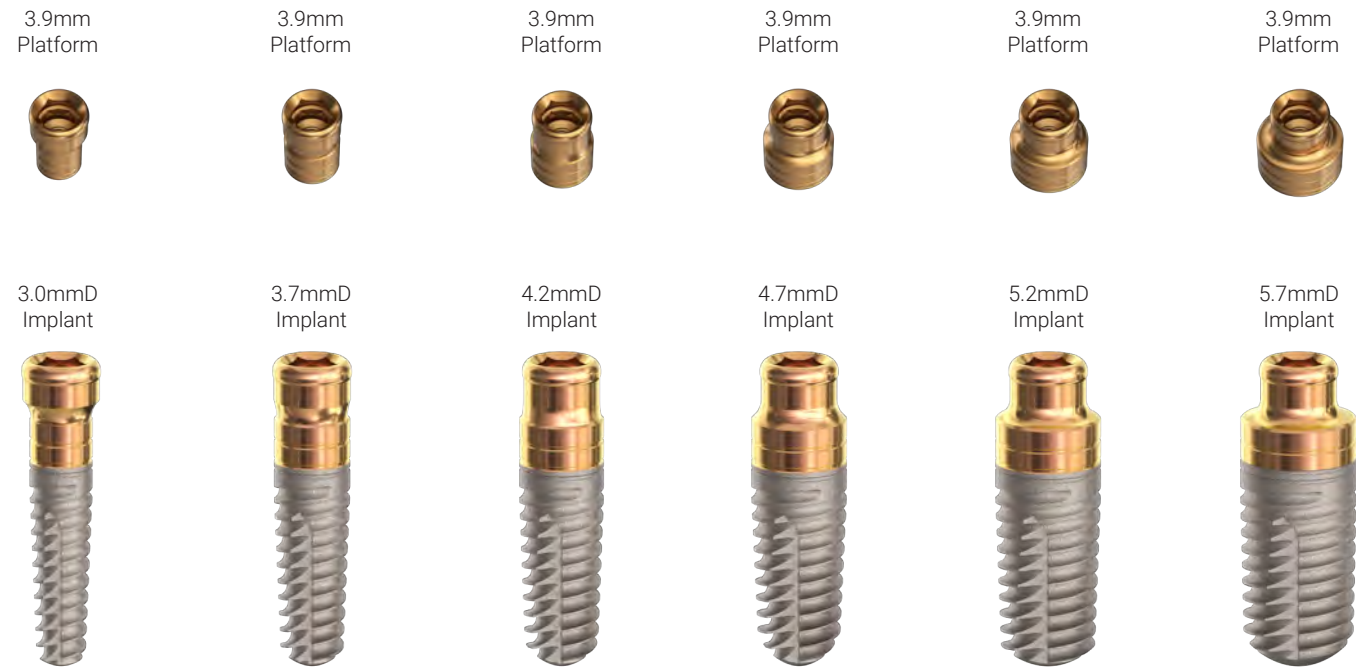
Warnings:

- NizPlant 3.0mm diameter x 9.0mm length implants (NP3009) are not indicated for 1mm supracrestal placement.
- NizPlant 3.7mm diameter x 7.0mm length implants (NP3707) are not indicated for 1mm supracrestal placement.

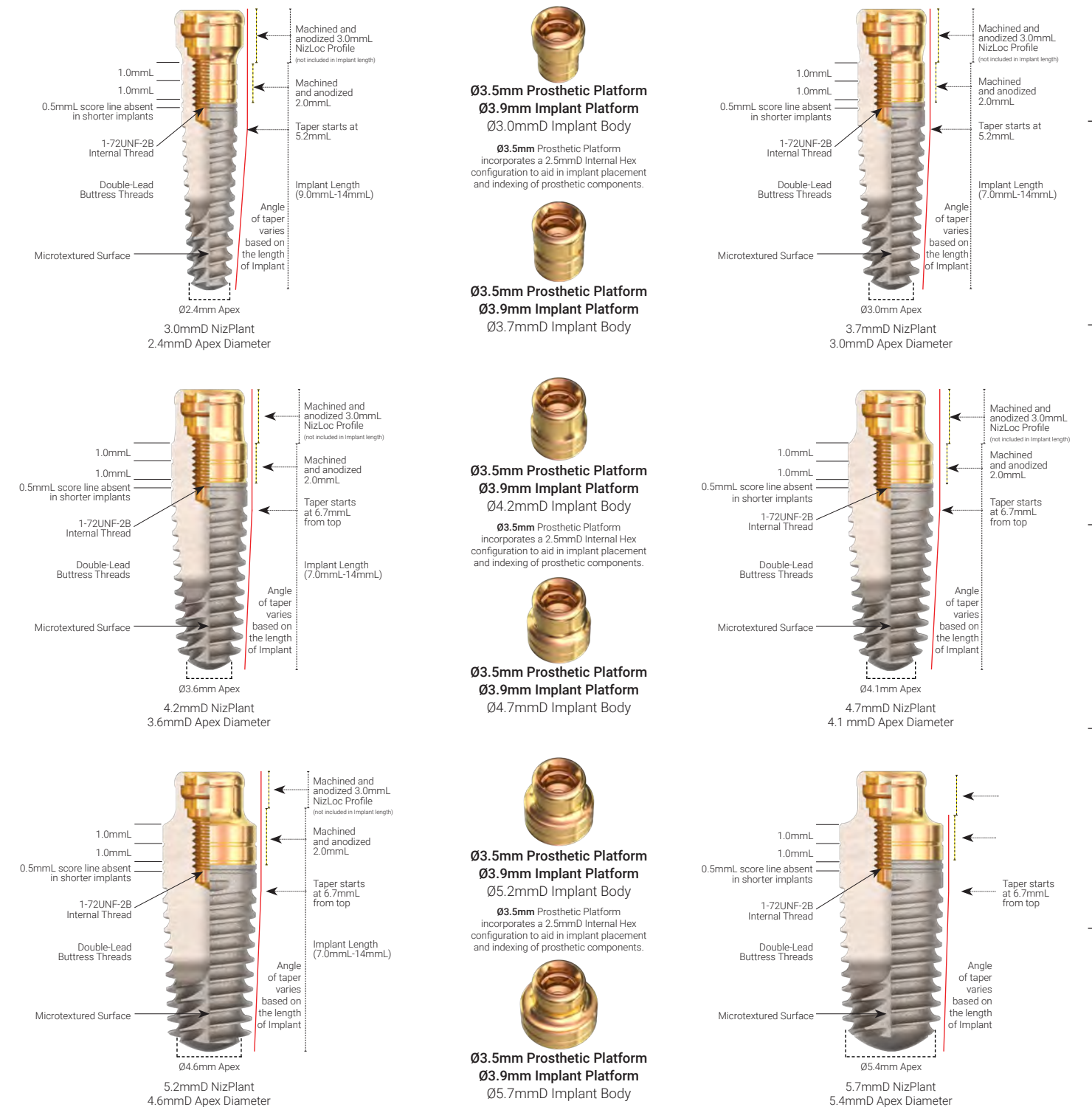
*Locator is a registered trademark of Zest IP Holdings



- 1-piece implant with a dual-function platform that allows it to be used to initially retain an overdenture, and then be converted to a full-arch fixed restoration
- NizPlant™ has a 45° lead-in bevel, internal hex, and internal threads for attachment of a fixed full-arch hybrid restoration



NIZPLANT™ DIMENSIONS



NIZPLANT™ IMPLANT AND DIMENSIONS

SURGICAL DRILLS AND DRILL SEQUENCE

NIZPLANT SURGICAL PROCEDURES

STEP DRILL DEPTH MARKINGS & BONE DRILL

DRILL STOPS AND DRILL STOP PLACEMENT

SELECTION CHART AND NIZPLANT PROSTHETICS

NIZPLANT PROSTHETIC TECHNIQUE

SURGICAL DRILLS & DRILL SEQUENCE

Code	Description
SD1.8	Pilot Drill, Ø1.8mm, 7mmL
SD2.3	Step Drill 2.3/2.0, 7-14mmL, Long

Code	Description
SD2.8	Step Drill 2.8/2.3, 7-14mmL, Long
CD3.3	Crestal Drill, Ø3.3mm

Code	Description
SD3.4	Step Drill 3.4/2.8, 7-14mmL, Long
CD3.7	Crestal Drill, Ø3.7mm

Code	Description
SD3.8	Step Drill 3.8/3.4, 7-14mmL, Long
CD4.2	Crestal Drill, Ø4.2mm

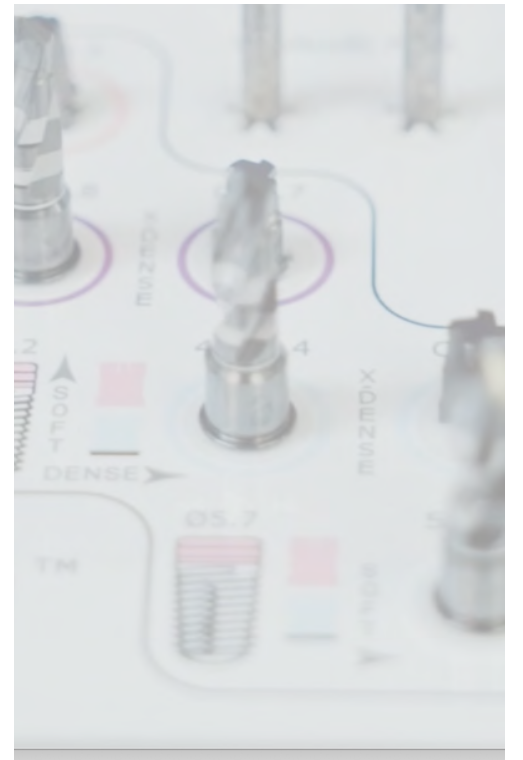
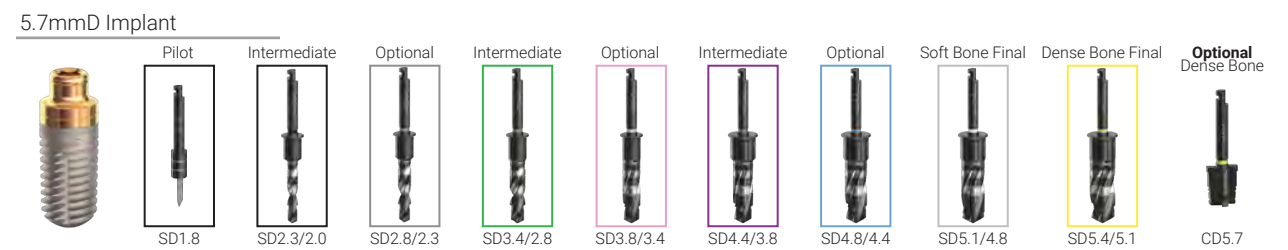
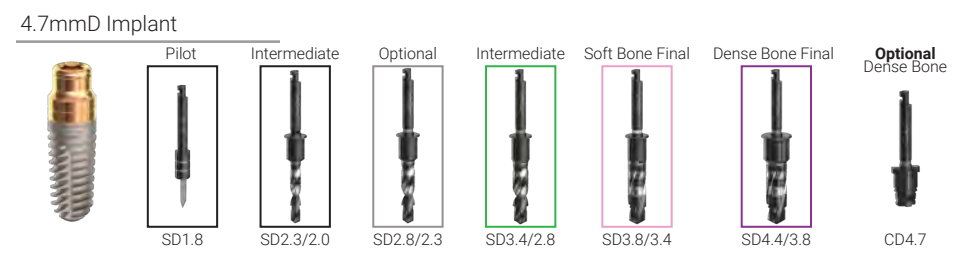
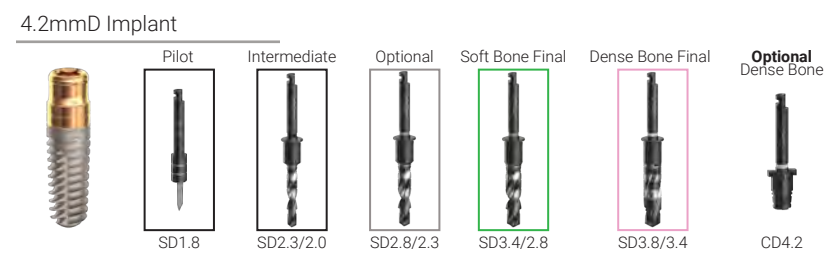
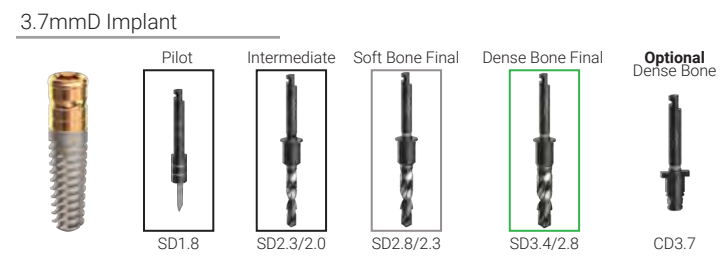
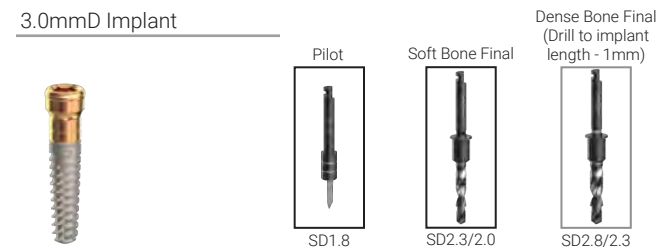
Code	Description
SD4.4	Step Drill 4.4/3.8, 7-14mmL, Long
CD4.7	Crestal Drill, Ø4.7mm

Code	Description
SD4.8	Step Drill 4.8/4.4, 7-14mmL, Long
CD5.2	Crestal Drill, Ø5.2mm

Code	Description
SD5.1	Step Drill 5.1/4.8, 7-14mmL, Long

Code	Description
SD5.4	Step Drill 5.4/5.1, 7-14mmL, Long
CD5.7	Crestal Drill, Ø5.7mm

Code	Description
SD5.4	Step Drill 5.4/5.1, 7-14mmL, Long
CD5.7	Crestal Drill, Ø5.7mm



NIZPLANT SURGICAL PROCEDURE

Prepare Osteotomy



Prepare surgical site with sequential step drills

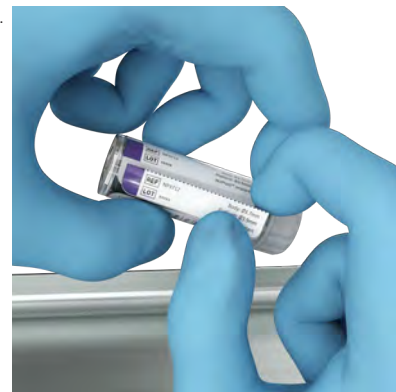
Implant Removal from Packaging

a.



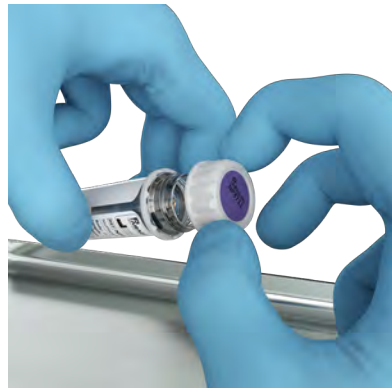
All Paragon Implants are supplied in gamma irradiated, sterile packaging

b.



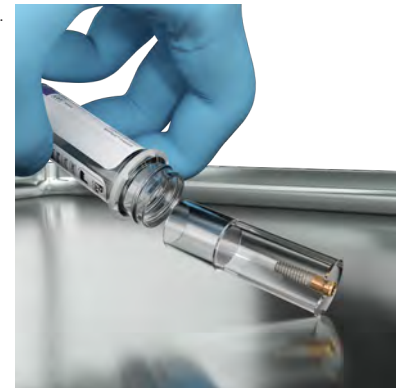
Each label has two tear-off labels for patient records

c.



Color coded labels on top of the cap identify the diameter of the platform

d.



Drop implant assembly out of vial onto a sterile surface

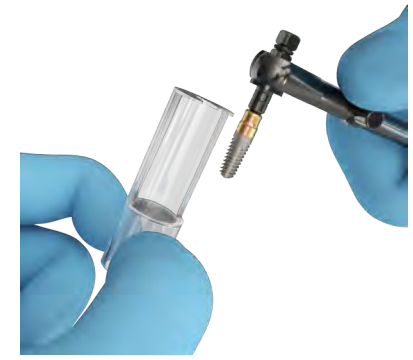
Implant Placement

a.



Engage internal hex feature with a hand driven 2.5mmD driver (NPIT-S)

b.



Remove NizPlant implant from the inner vial using the 2.5mmD driver

c.



Insert implant level with crest

d.



The internal hex of the implant should be indexed with a flat on the labial/lingual

NizPlant Insertion Tool

Code

Description



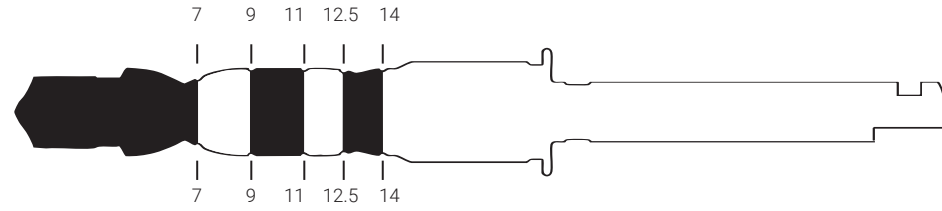
NPIT-S

NPIT-S

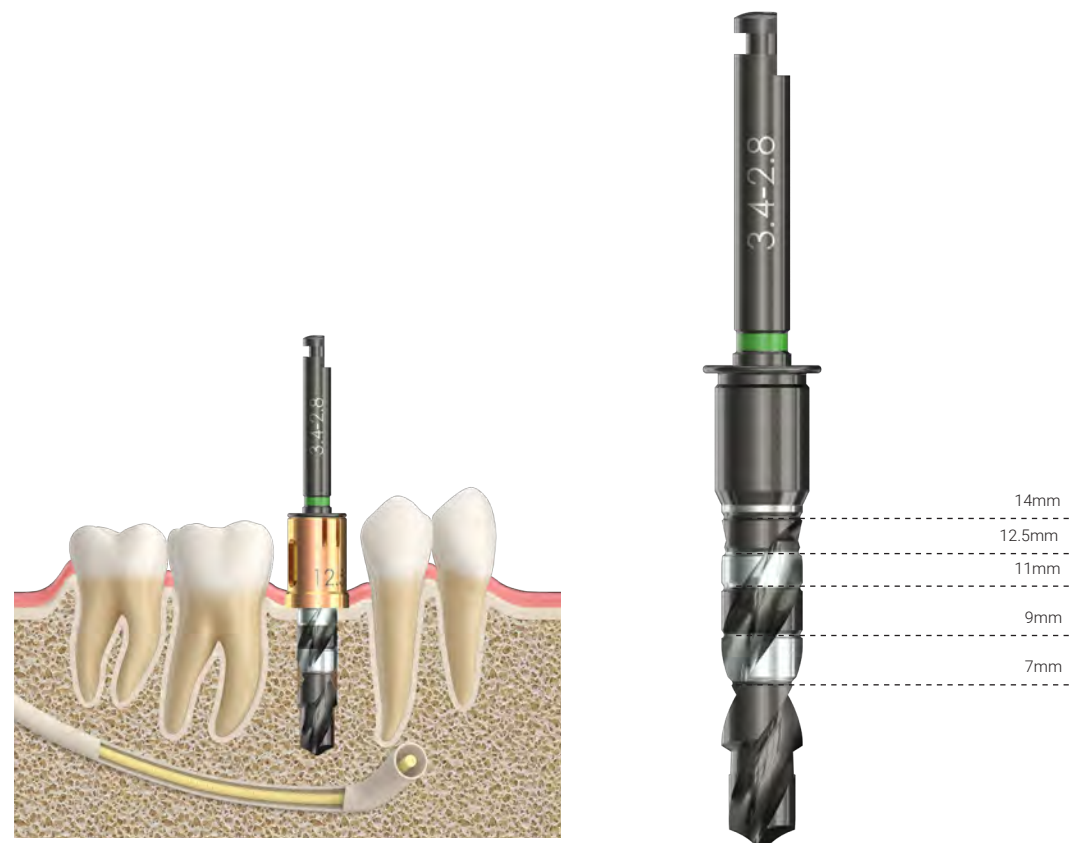
2.5mm NizPlant Insertion Tool, Short

STEP DRILL DEPTH MARKINGS & CRESTAL BONE DRILLS (OPTIONAL)

You can easily verify the depth marking line on DLC drills by aligning the point of the drill with the ruler on the surgical kit.

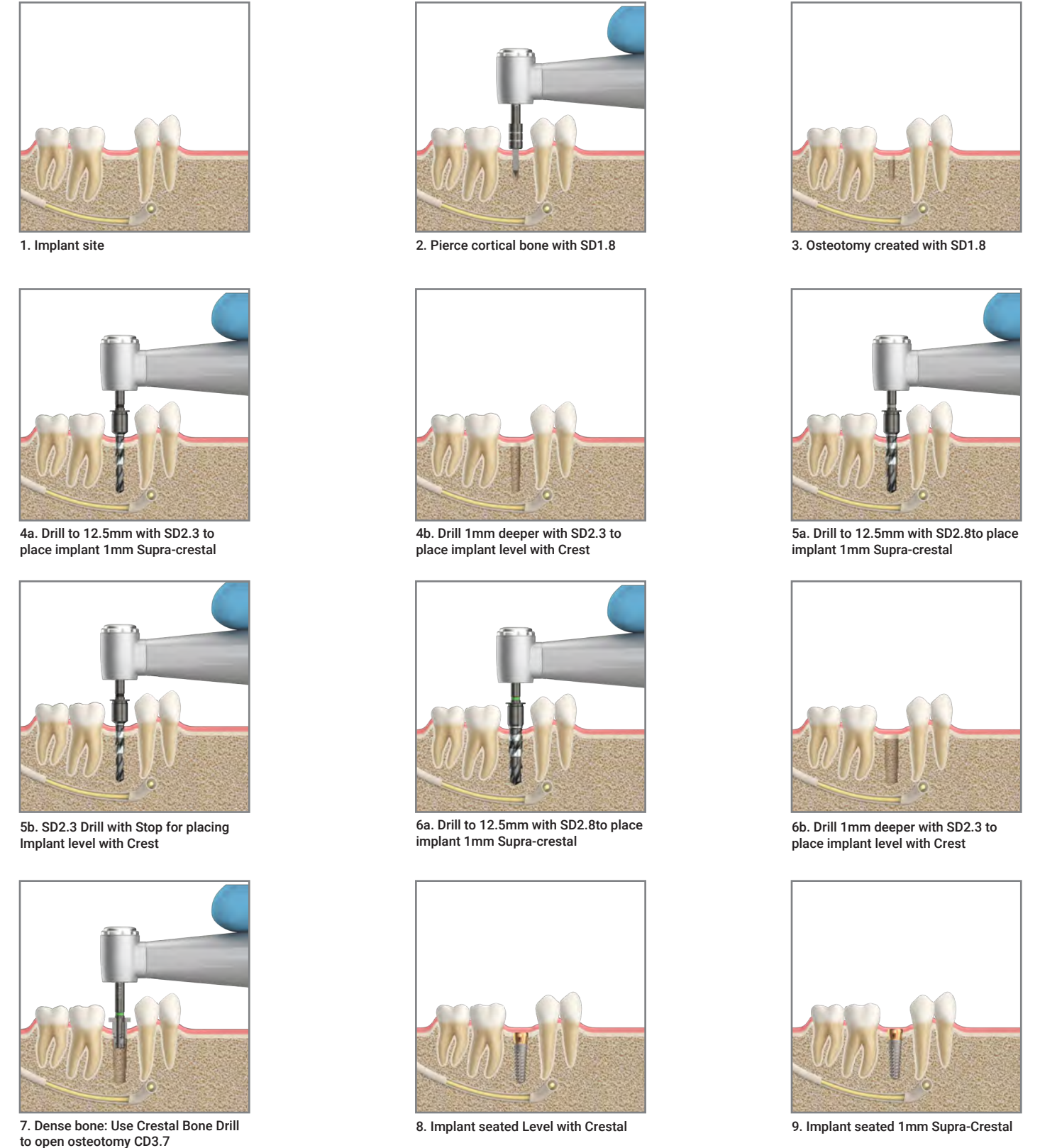


Use constant and profuse irrigation. During drilling, use an in-and-out motion. Move the drill up without stopping handpiece motor which allows the irrigation to flush away bone debris.



The Drill Stops provide the Implantologist control of what depth they prepare the osteotomy to, by providing a physical stop that fits over each drill.

BONE DRILL SEQUENCE



DRILL STOPS

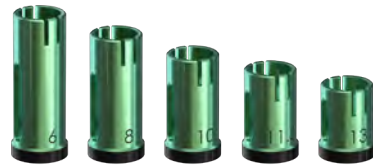
ASC Tools

Bone Level <= 3.8mmD



DSN-07 - DSN-14

+1mm Level <= 3.8mmD



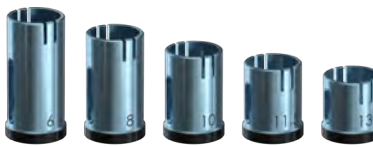
DSN-06 - DSN-13

Bone Level => 4.4mmD



DSR-07 - DSR-14

+1mm Level => 4.4mmD



DSR-06 - DSR-13



DSK

Code

DSN-07

DSN-09

DSN-11

DSN-12

DSN-14

DSN-06L

DSN-08L

DSN-10L

DSN-11L

DSN-13L

DSR-07

DSR-09

DSR-11

DSR-12

DSR-14

DSR-06L

DSR-08L

DSR-10L

DSR-11L

DSR-13L

DSK

Description

Drill Stop Narrow- 2.3 -3.8mmD for 7mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 9mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 11mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 12.5mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 14mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 6mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 8mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 10mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 11.5mmL Imp.

Drill Stop Narrow- 2.3 -3.8mmD for 13mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 7mmL Imp.

Drill Stop Regular- 4.4-5.4mmD or 9mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 11mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 12.5mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 14mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 6mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 8mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 10mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 11.5mmL Imp.

Drill Stop Regular- 4.4-5.4mmD for 13mmL Imp.

Drill Stop Kit

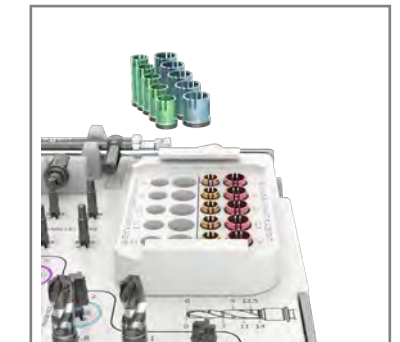
DRILL STOP SEQUENCE AND PLACEMENT



1. Drill Stop Kit is seated in the Surgical Kit



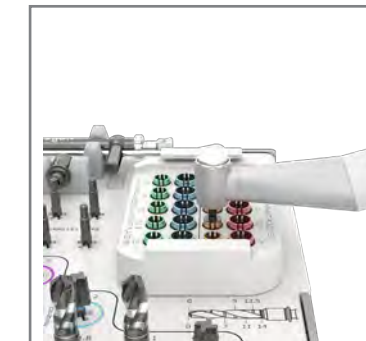
2. The Bone-level drill stops: gold stops are narrow, and pink stops are wide



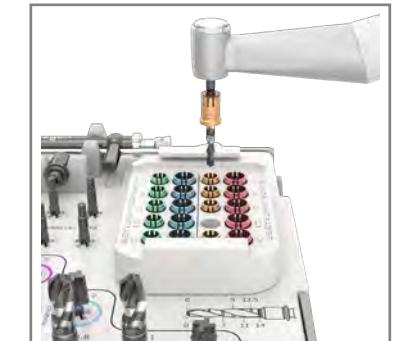
3. The 1mm supra-crestal drill stops: green stops are narrow, and blue stops are regular (with black band on bottom)



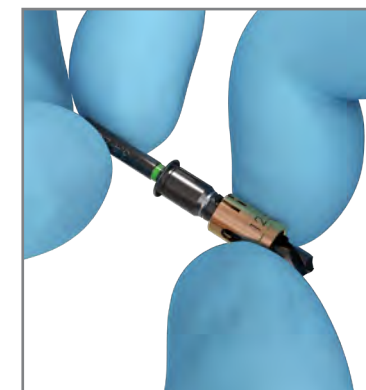
4. Handpiece with drill is shown floating above the Drill Stop kit



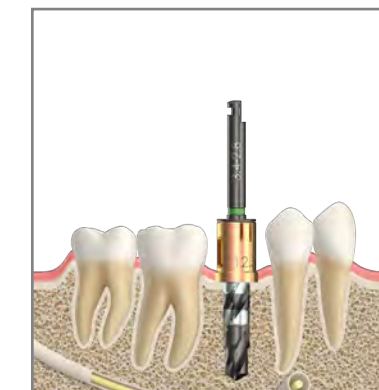
5. Drill is inserted into the selected drill stop.



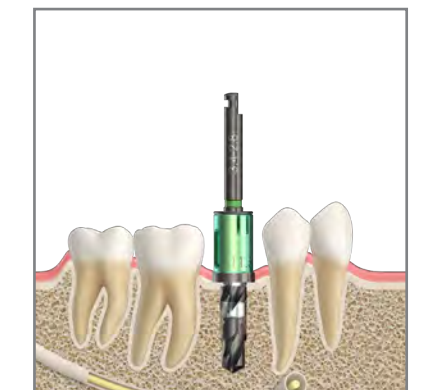
6. Handpiece lifted with the drill stop now attached to the drill.



Placing the drill stop on the drill

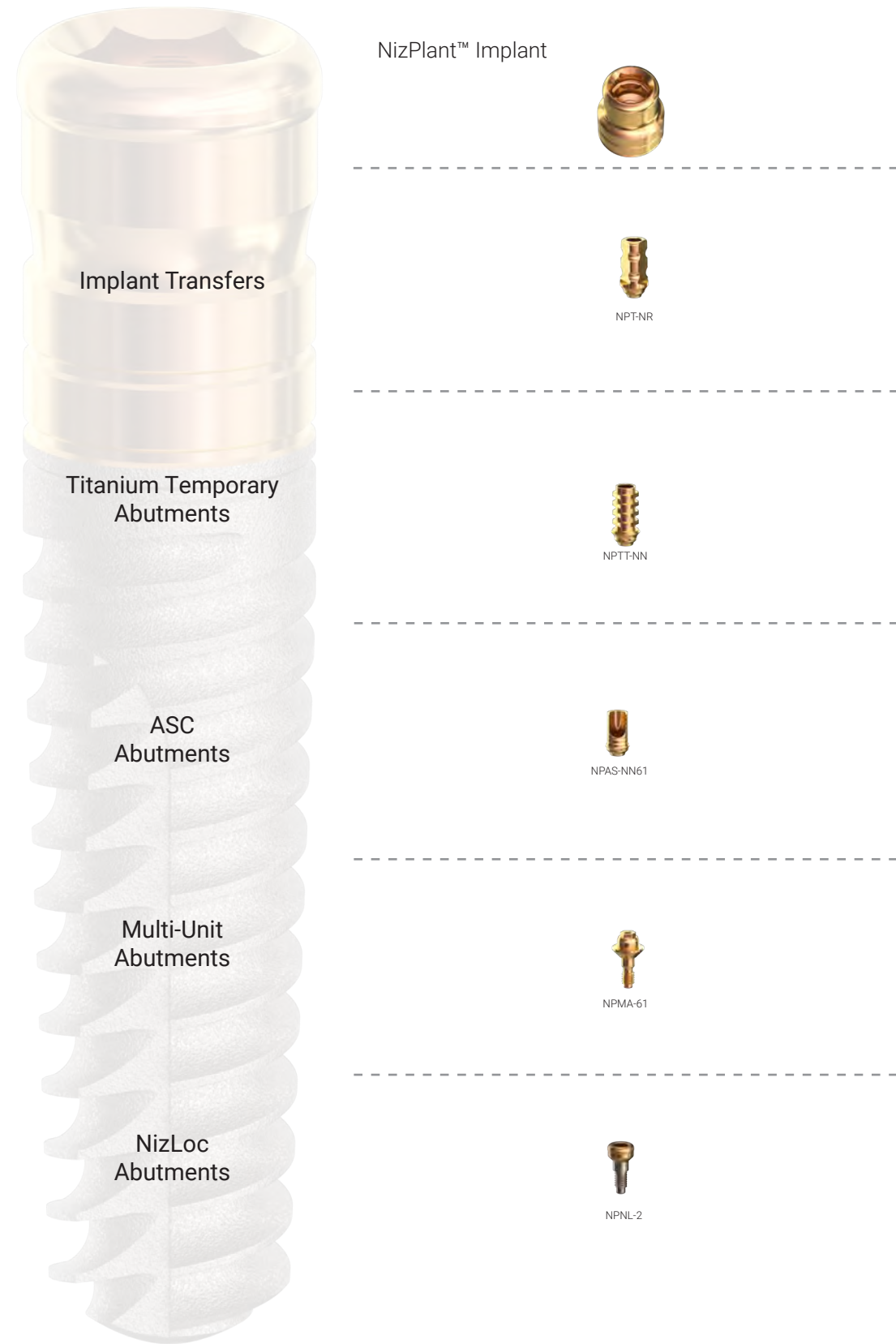


The Gold and Magenta Narrow Drill Stops create a socket depth equal to the overall length of the implant selected for placement 1mm supra-crestal



The Green and Blue Regular Drill Stops create a socket depth 1mm short of the overall length of the implant selected for placement 1mm supra-crestal

SELECTION CHART



NizPlant™ Implant



Implant Transfers



NPT-NR

Titanium Temporary Abutments



NPTT-NN

ASC Abutments



NPAS-NN61

Multi-Unit Abutments



NPMA-61

NizLoc Abutments



NPNL-2

NIZPLANT PROSTHETICS

Nizplant Transfers (incl. UFS and NPFSL Screw)



NPT-NR

Code	Platform	Diameter
NPT-NR	3.9mmP	4.3mmD
Additional Screws: UFS (x2) NPFSL		

Nizplant Temporary Abutments (incl. UFS Screw)



NPTT-NN

Code	Platform	Diameter
NPTT-NN	3.2mmP	4.2mmD
Additional Screws: UFS (x2)		

Nizplant ASC Abutments (incl. UFSXS Screw)



NPAS-NN61

Code	Platform	Diameter	Length
NPAS-NN61	4.7mmP	5.2mmD	0.5mmL
Additional Screws: UFSXS (x2)			

Nizplant Multi-Unit Abutments (*Incl. Comfort Cap)



NPMA-61

Code	Platform	Diameter	Length
NPMA-61	3.9mmP	4.8mmD	3.2mmL

Nizplant NizLoc Abutment



NPNL-2

Code	Platform	Length
NPNL-2	3.9mmP	2mmL

NIZPLANT PROSTHETIC TECHNIQUE

Male Liner and Components:

The Male Liners and sub-components are marketed/manufactured by Terrats Medical SL and are used in the restorative fabrication to retain the prosthesis to the implant.

Metal Housing-manufactured from Titanium alloy (Ti-6Al-4V ELI), and anodized a gingival rose gold color, is encapsulated into the pink part of the patient's prosthetic. This housing stays permanently in the prosthesis and is used to house the male nylon liners of various retentions and is supplied with the black processing sleeve already inserted.

Silicone Spacer-placed over the coronal portion of the implant or abutment snapping tightly on the neck portion of the components. This is done prior to the attachment of additional restorative components. During processing, either chairside or in the laboratory this step in the process creates a space below the attachment and above the soft tissue to provide for some vertical and rotational movement during mastication.

Black processing sleeve manufactured from POM plastic, is used internally within the Abutment Impression Coping and within the Metal Housing internal aspect.

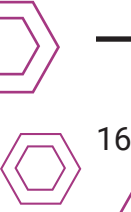
Engaging and Extended Range nylon liners are housed within the Metal Housing. A selection of nylon liners is provided with the packaging giving the clinician the option to determine which to use at time of implant or abutment placement. (Nylon Male Liners are not released for sale)

The extended range version engages only the outer profile of the implants or abutments. The liner can accommodate up to 40° of combined internal and external rotational capabilities and of relative divergence between splinted components.

The engaging version of nylon liner has within the center an inverted bulbus portion which can interface and engage undercut within the NizPlant Implant. This additional retention is in combination to the retention obtained on the outer profile engagement.

- 1 Attach the (NLPP) Parallel Posts to the implants to determine the divergence.
- 2 For Laboratory Porcedure Attach the (NLIC) Implant Coping to the implants.
- 3 Flow impression material around (NLIC).
- 4 Take impression.
- 5 Attach (NIA) NizPlant Implant Analog
- 6 Pour stone model
- 7 Attach (NLC-L) Processing Male
- 8 Seat fabricated prosthesis.
- 9 Remove prosthesis and processing liner
- 10 Insert appropriate liner
- 11 Insert prosthesis in patients mouth
- 12 Verify seating
- 13 Verify occlusion

NIZPLANT IMPLANT AND DIMENSIONS
SURGICAL DRILLS AND DRILL SEQUENCE
NIZPLANT SURGICAL PROCEDURES
STEP DRILL DEPTH MARKINGS & BONE DRILL
DRILL STOPS AND DRILL STOP PLACEMENT
NIZPLANT PROSTHETIC AND NIZPLANT PROSTHETICS
NIZPLANT PROSTHETIC TECHNIQUE





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