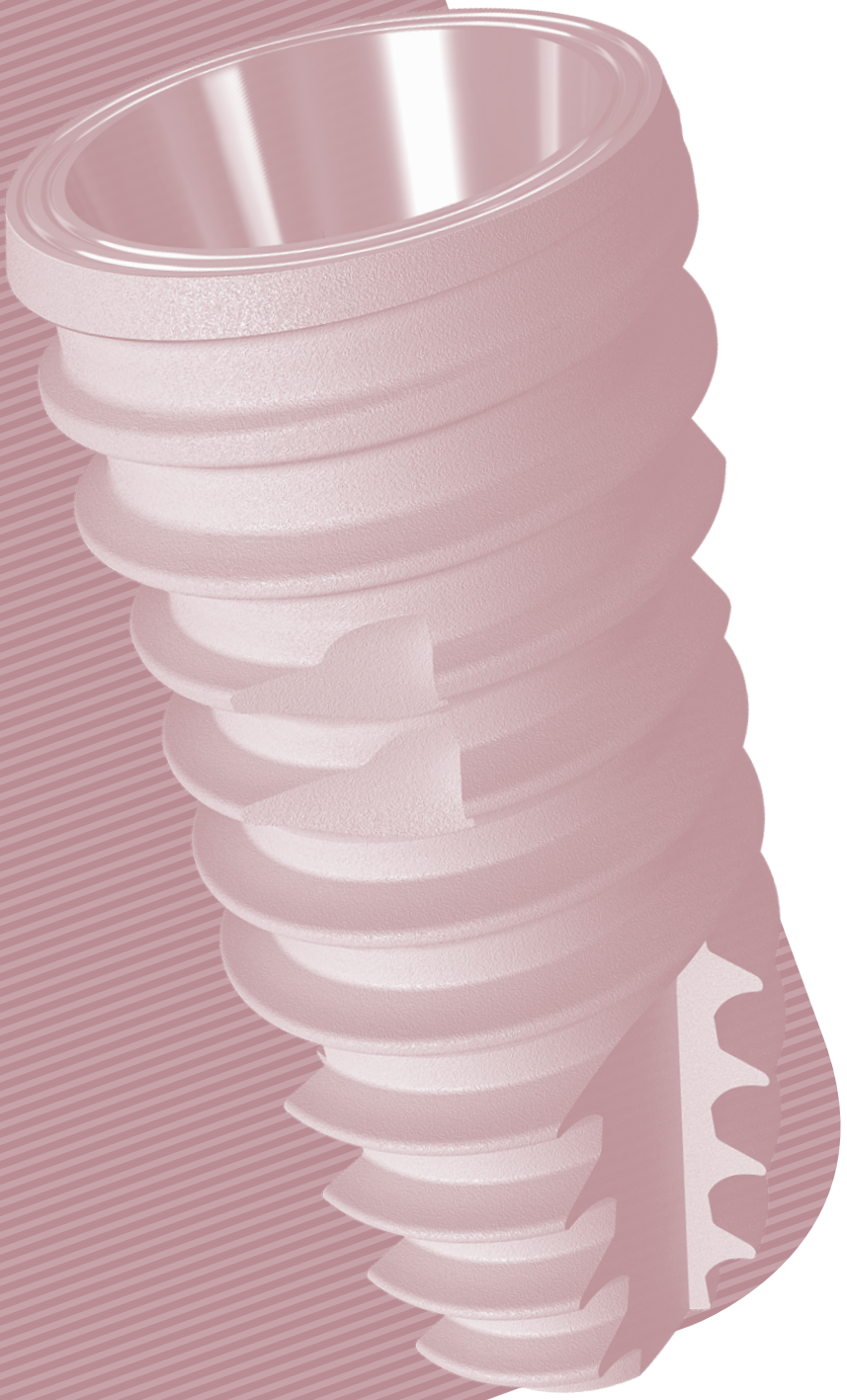
IS-III

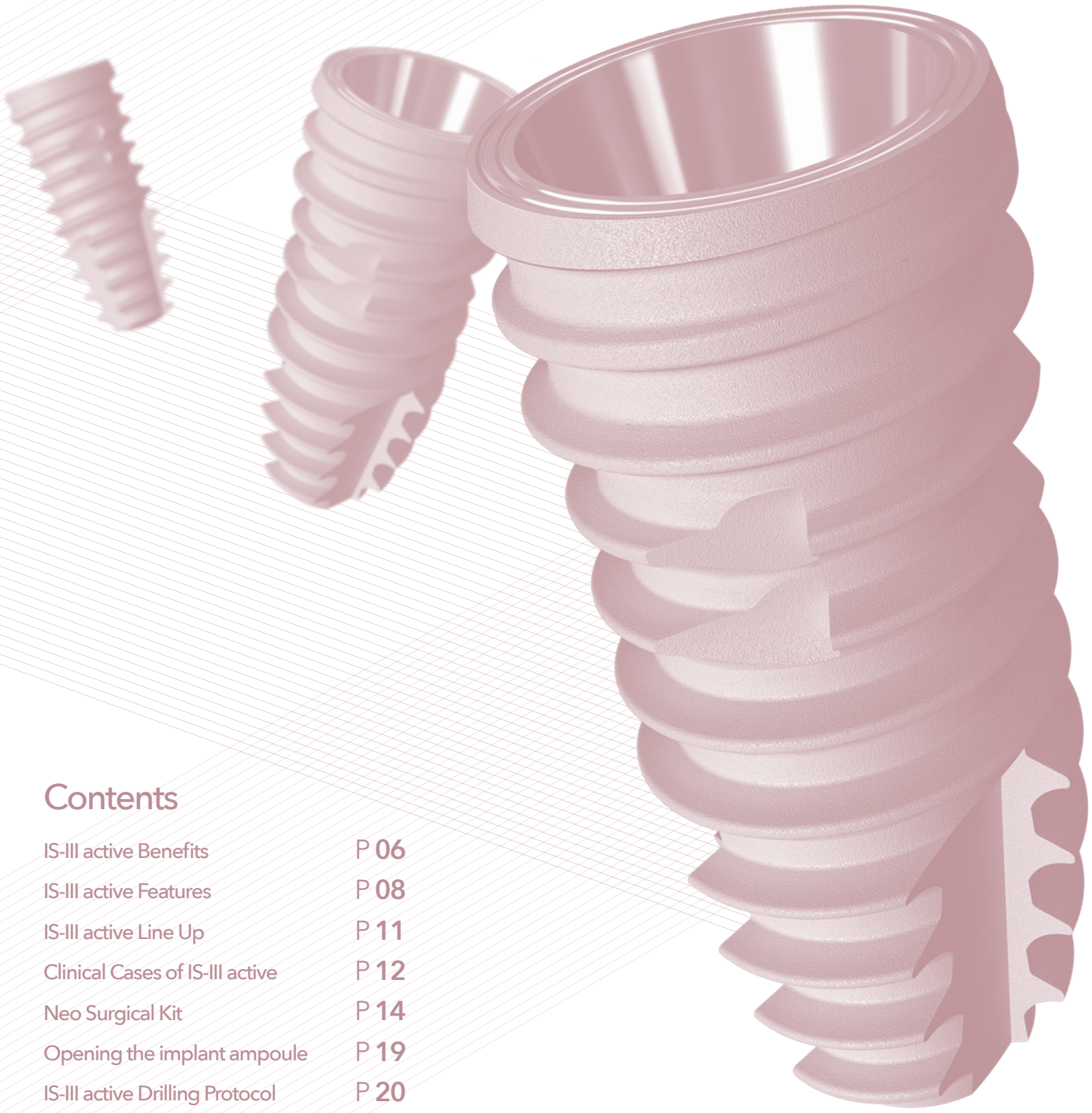
active



2019.01 **E**-Ver.03

Neo Biotech

Satisfaction to Dentists



Contents

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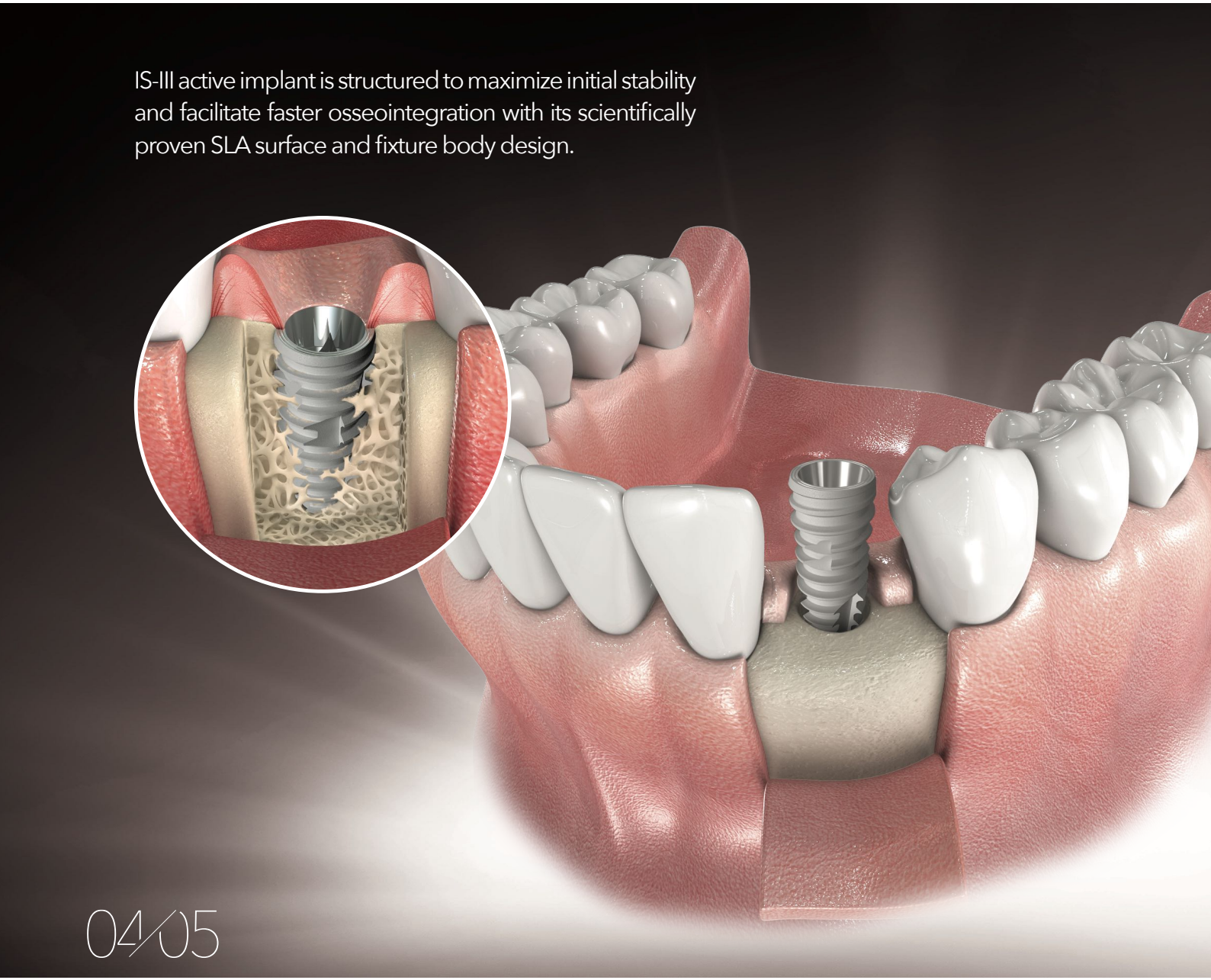
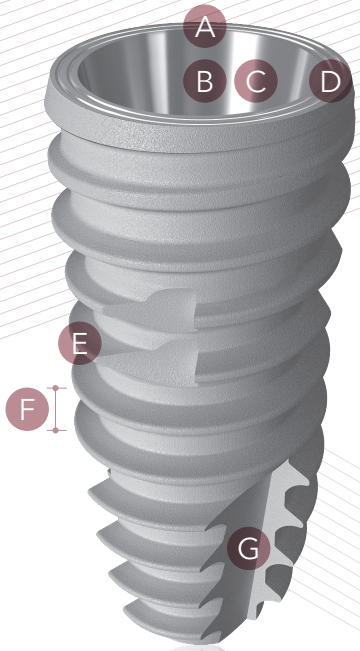
Neo Biotech
Satisfaction to Dentists

WHY **IS-III active**?

IS-III active implant is structured to maximize initial stability and facilitate faster osseointegration with its scientifically proven SLA surface and fixture body design.





01 Connection

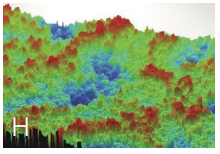
- **A.** Thicker Platform
- **B.** Anti-screw Loosening
- **C.** Abutment Compatibility

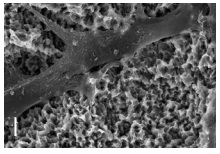
02 Design

- **D.** Platform Microgroove
- **E.** Magic Threads
- **F.** Deep & Wide Pitch
- **G.** Cutting Edge

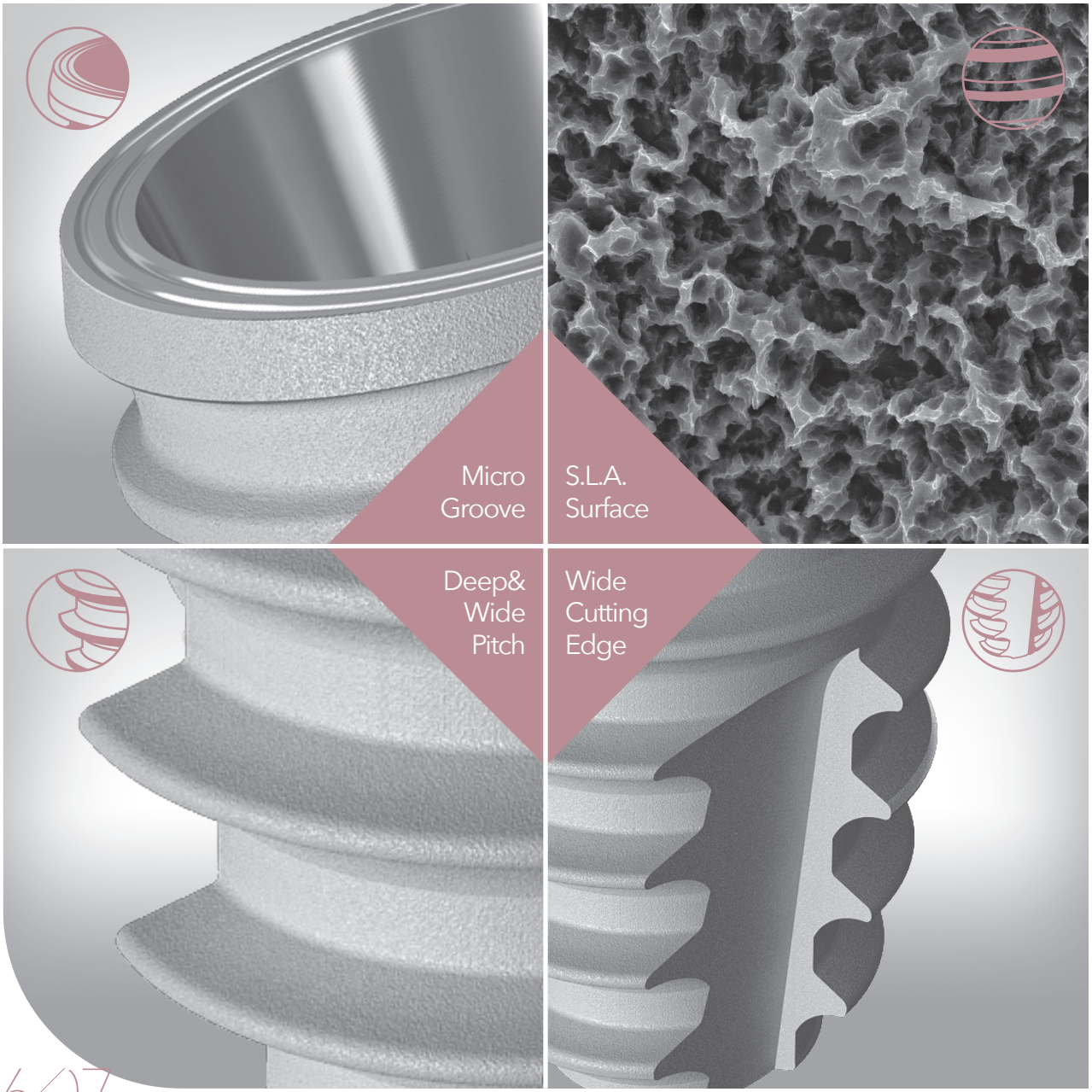
03 Surface

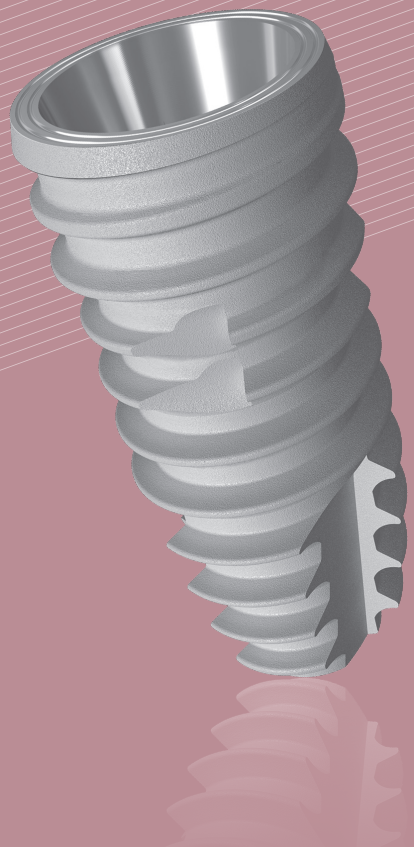
- **H.** S.L.A. Surface
- **I.** Cell Adhesion Ability





IS-III active **Benefits**





01 Connection

Anti-screw Loosening ▶ Two Connection Points

▶ Eliminate screw fracture

Abutment Compatibility ▶ Compatible with IS type

▶ Conical 11° / Internal 2.5 Hex

02 Design

Platform Microgroove ▶ Enhanced Soft Tissue Sealing

▶ Minimize bone loss

Deep&Wide Pitch ▶ Reduced Bone Compression

▶ Optimal for Osseointegration

Wider Cutting Edge ▶ Improved Self-tapping Ability

▶ Maximize initial stability

Magic Threads ▶ Endure Vertical/Lateral Force

▶ Maximize initial stability

03 Surface

Improved Surface ▶ Increased Surface Area

▶ Facilitate faster osseointegration

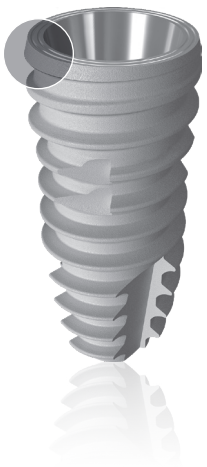
Greater Cell Adhesion Ability ▶ More Cell adhesion

▶ Facilitate faster osseointegration

- ☑ Predictable Implant Placement
- ☑ Successful Primary & Secondary Stability
- ☑ Faster Patient Recovery & Masticatory Function

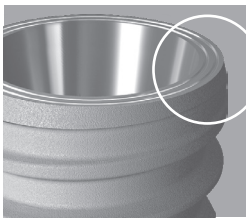
IS-III active Features

Platform & Connection

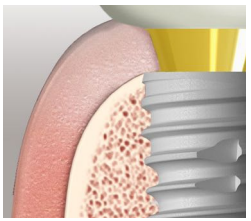


Minimize Bone Loss

Microgroove design at the upper platform of the fixture enhances soft tissue sealing, thus prevents bone loss.



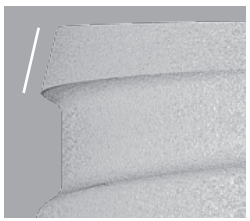
Platform microgroove



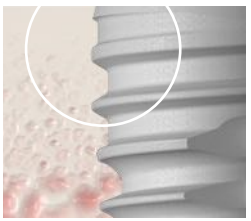
Enhanced soft tissue barrier seal

Minimize bone loss through soft tissue integration and optimized soft tissue seal

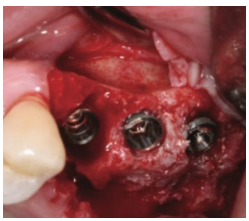
The coronal area of the fixture is also S.L.A. surface treated and takes a bevel border with open threaded design. These features facilitate osseointegration to crestal bone level, as well as minimize bone loss and maintain bone level.



Open threaded bevel coronal



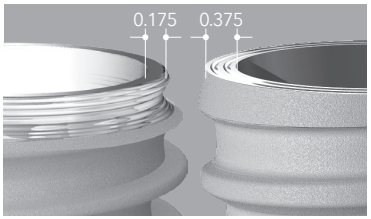
Minimize bone loss & maintain bone level



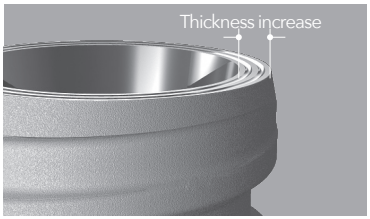
Successful osseointegration to bone level

Stronger Connection

Thicker connection through Increased platform thickness.



Maintains connection thickness over 3mm

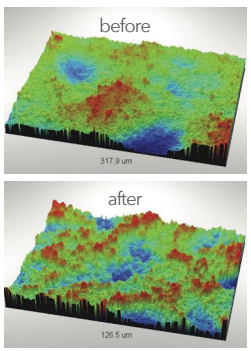


Increased strength of connection

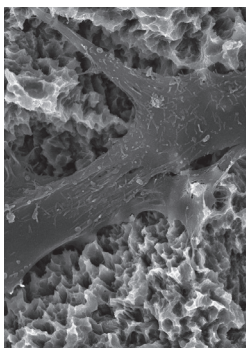
S.L.A. Surface

The new S.L.A. Surface with 40% greater surface area and 50% more cell adhesion promotes faster osseointegration.

Improved processing technique of the S.L.A. Surface

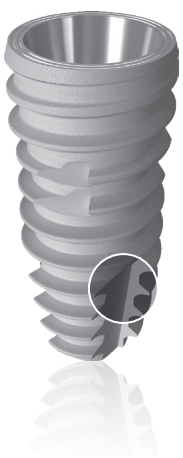


40 percent increase in surface area

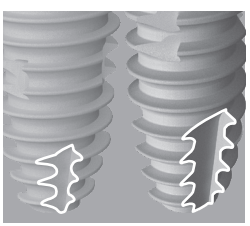


Reduced osseointegration time (50 percent increase in cell adhesion)

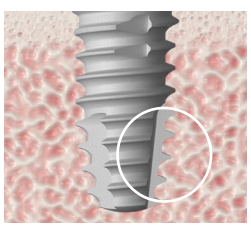
Wide Cutting Edge



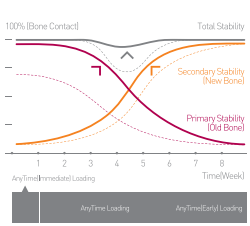
Wider cutting edge and enlarged surface area enhances initial fixation and offers clinicians more stable implant placement.



Doubled cutting edge surface



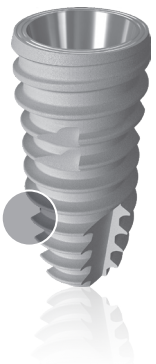
Improved Self-tapping ability while minimizing bone compression



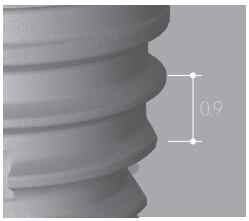
Maximized initial fixation (AnyTime Loading)

IS-III active Features

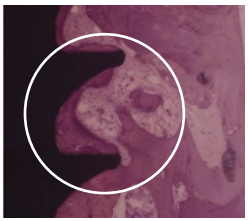
Deep&Wide Pitch



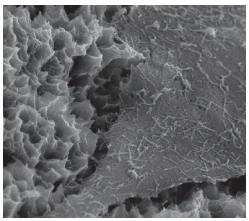
Optimum Pitch for Osseointegration.



Increase in thread pitch to 0.9



Minimal bone compression (Prevent bone necrosis)

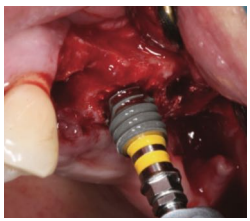


Provide optimal condition for osseointegration

Surgical Kit

More accessibility with improved cutting force of the surgical drills, now available in two different lengths.

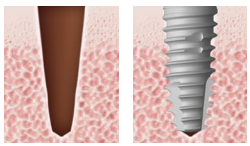
Dual drill length



Clinicians decide the loading time by utilizing either the cortical drill or the cortical tap according to the patient's bone density and oral conditions.

Cortical Drill

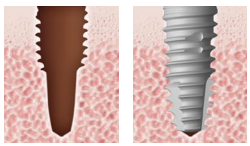
Utilized for Delayed Loading by drilling the crestal cortical bone.



Delayed Loading

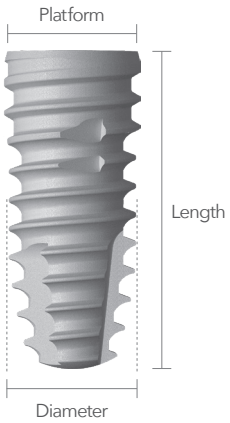
Cortical Tap

Utilized for Immediate (AnyTime) Loading by tapping the crestal cortical bone.



Immediate Loading (AnyTime Loading)

IS-III active **Line Up**

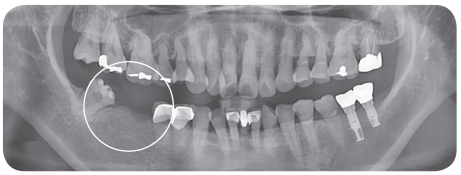


Diameter	Platform	Length (mm) 7.3	8.5	10.0	11.5	13.0
Ø3.5	Ø3.7		IS33508AP	IS33510AP	IS33511AP	IS33513AP
Ø4.0	Ø4.1	IS34007AP	IS34008AP	IS34010AP	IS34011AP	IS34013AP
Ø4.5	Ø4.2	IS34507AP	IS34508AP	IS34510AP	IS34511AP	IS34513AP
Ø5.0	Ø4.35	IS35007AP	IS35008AP	IS35010AP	IS35011AP	IS35013AP
Ø5.5	Ø4.35	IS35507AP	IS35508AP	IS35510AP	IS35511AP	IS35513AP
Ø6.0	Ø4.4	IS36007AP	IS36008AP	IS36010AP	IS36011AP	IS36013AP

* Coverscrew not included.

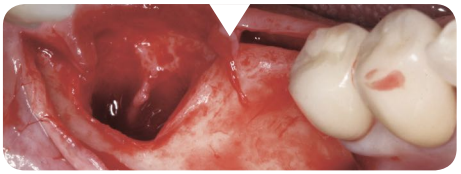
Clinical Cases of IS-III active

Case 1



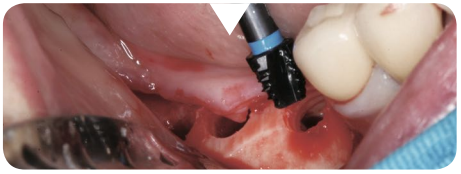
Pre-op panorama (#46, 47)

Intra-oral photograph



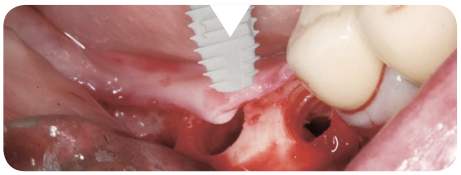
Flap reflection

Bone trimming for osteotomy

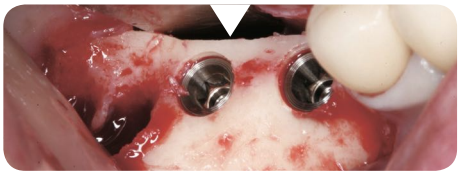


Drilling & Cortical tapping

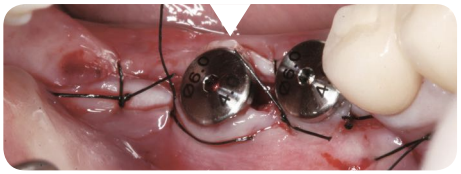
After cortical tapping



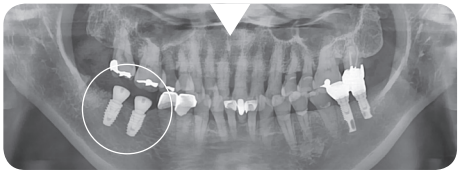
IS-III active placement in #46 and #47



ITV of 40Ncm for both sites



Healing abutment & suture

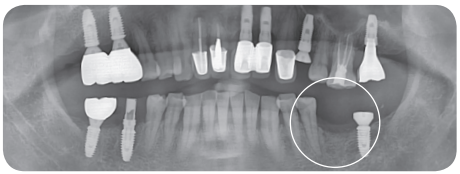


Post-op panorama on the day of surgery

Final restorations after 5 months

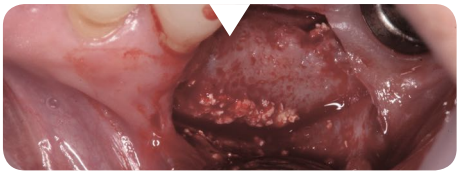
6-months follow-up radiograph

Case 2

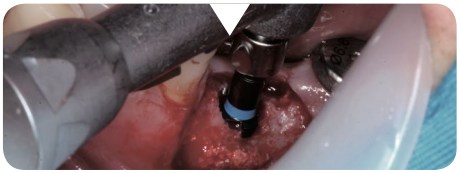


Pre-op panorama (#36)

Intra-oral photograph



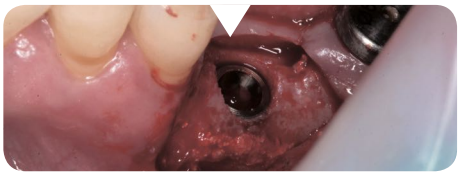
Flap reflection



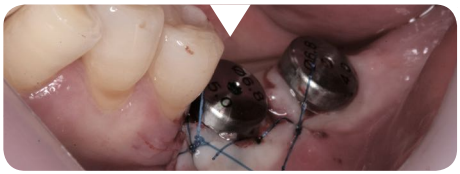
Drilling & Cortical Tapping

Removing fixture from the ampoule

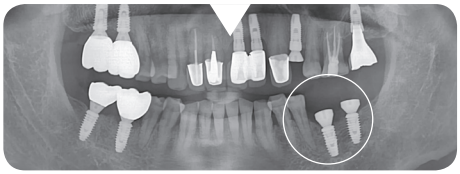
IS-III active placement in #36



ITV of 40Ncm

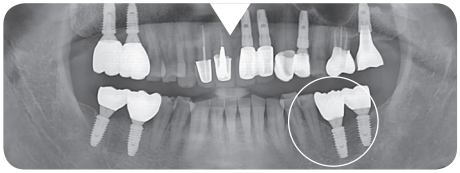


Healing abutment & Suture



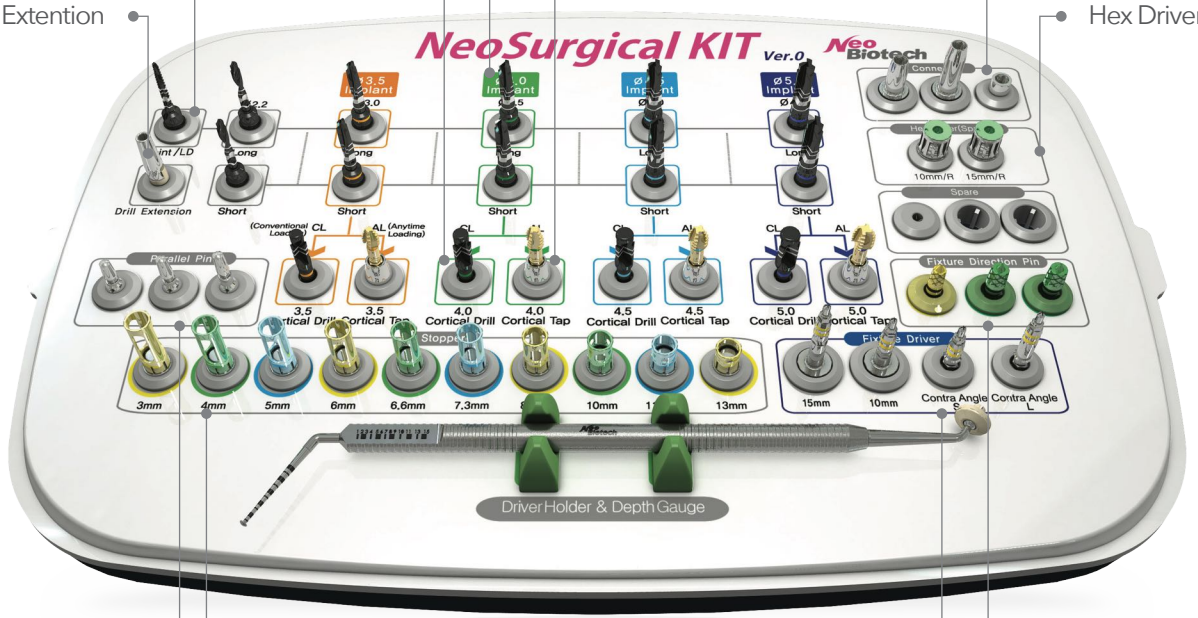
Post-op panorama (#36)

Final restoration after 2 months



7-months follow-up radiograph

Neo **Surgical Kit**



Surgical Drill (Long / Short)

Cortical Drill

Point Lindemann

Drill Extention

Parallel Pin

Stopper

Cortical Tap

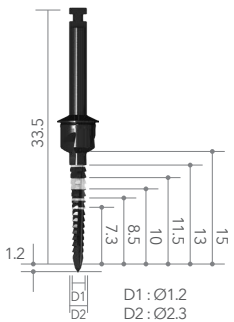
Connector

Hex Driver

Direction Pin

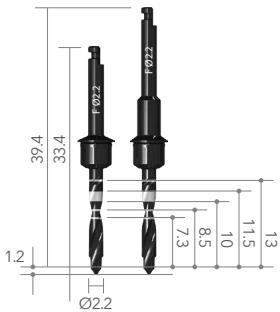
Fixture Driver

Point Lindemann Drill



Diameter	Product name
Ø2.3	LDS23C

Initial Drill

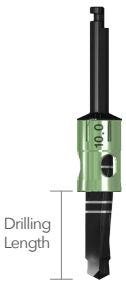


Diameter	Type	Product name
Ø2.2	Short	TSD22CS
Ø2.2	Long	TSD22CL

Twist Drill

Diameter	Type	Product name
Ø3.0	Short	TSD30CS
Ø3.0	Long	TSD30CL
Ø3.5	Short	TSD35CS
Ø3.5	Long	TSD35CL
Ø4.0	Short	TSD40CS
Ø4.0	Long	TSD40CL
Ø4.5	Short	TSD45CS
Ø4.5	Long	TSD45CL

Stopper



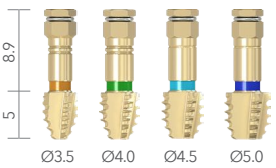
Stopper	3.0	4.0	5.0	6.0	6.6	7.3	8.5	10.0	11.5	13
Drilling Length(mm)	4.2	5.2	6.2	7.2	7.8	8.5	9.7	11.2	12.7	14.2
Product name	DS030C	DS040C	DS050C	DS060C	DS066C	DS070C	DS085C	DS100C	DS115C	DS130C

Neo **Surgical Kit**

Cortical Drill

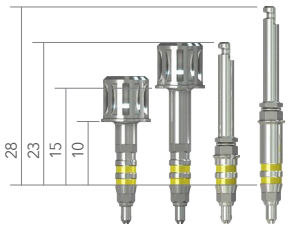
Diameter	Product name
Ø3.65	ISCD35F
Ø4.2	ISCD40F
Ø4.4	ISCD45F
Ø4.9	ISCD50F

Cortical Tap



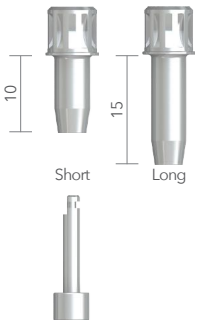
Diameter	Product name
Ø3.5	ISTD38S
Ø4.0	ISTD43S
Ø4.5	ISTD45S
Ø5.0	ISTD50S

IS Fixture Driver



Length	Product name
Ratchet (Short)	ISFD10R
Ratchet (Long)	ISFD15R
Contra Angle (Short)	ISFD05C
Contra Angle (Long)	ISFD05CL

Connector



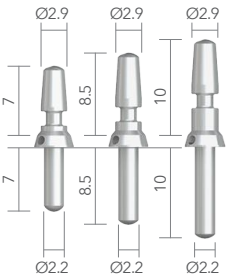
Length	Product name
Short	RC10
Long	RC15

Product name	CAA00

Direction Pin

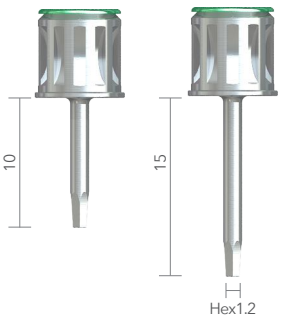
Diameter	Product name
Ø3.5	DPIS35C
Ø4.5	DPIS45C

Parallel Pin



Length	Product name
7.0mm	PP07F
8.5mm	PP08F
10.0mm	PP10F

Hex Driver



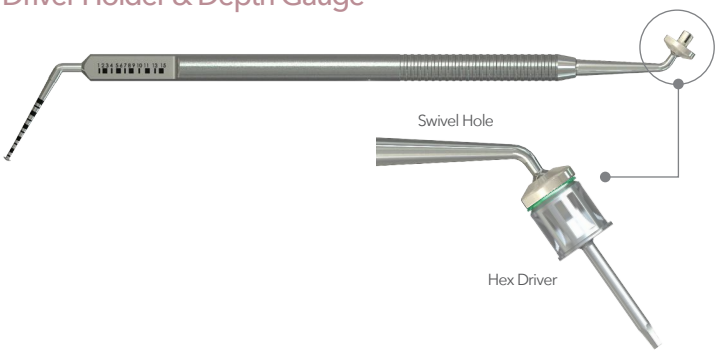
Length	Product name
10mm	HD1210S
15mm	HD1215S

Product name	DE01

Torque Ratchet

Product name	TW60

Driver Holder & Depth Gauge

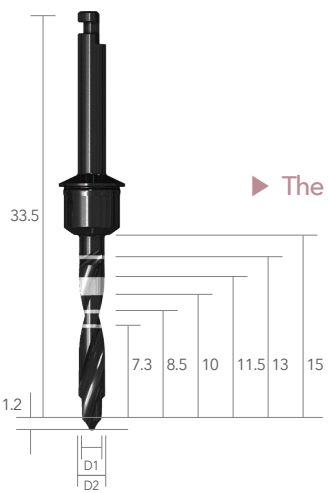


Product name	DHDG

Neo **Surgical Kit**

Drill Length Guide

Twist Drill | Twist Drill + Contra Angle | Twist Drill + Extention +Contra Angle

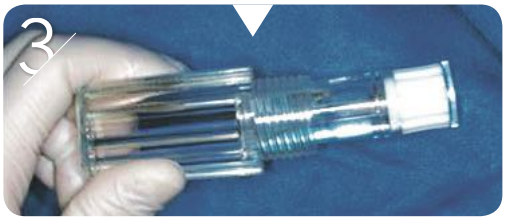


▶ The marking of drill is 1.2mm longer than that of fixture length

Opening the **implant ampoule**

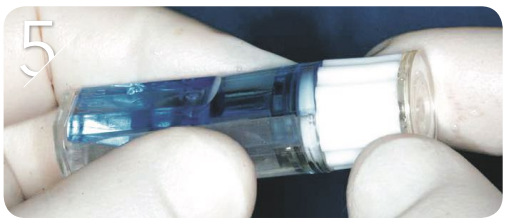
Remove the square-shaped ampoule from the blister.

Turn the lid to open the ampoule.



Remove the inner circular ampoule from the outer square-shaped ampoule.

Drop the inner ampoule onto the operating table.



Remove the safety cap
(A cover screw can be found inside the cap).

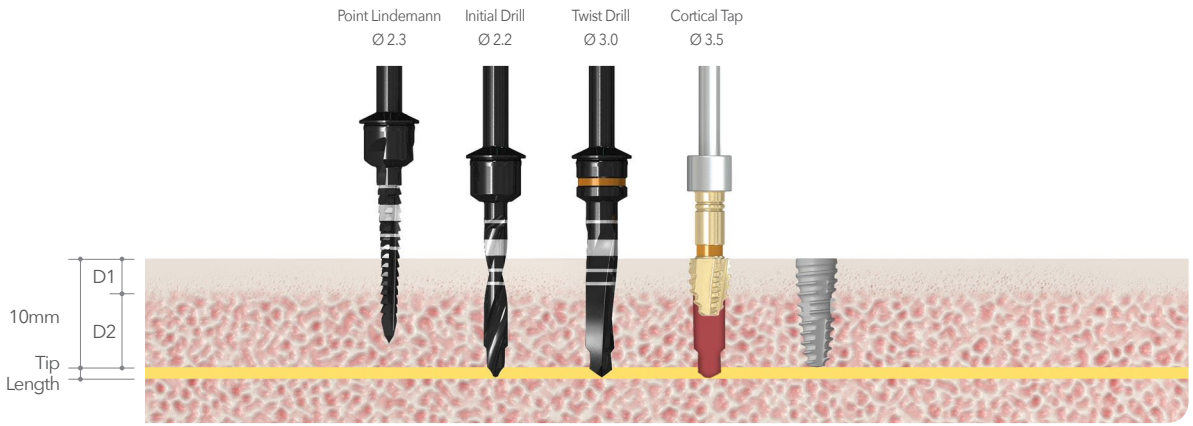
Hold the sides of the ampoule when removing the cap.
Must be cautious not to grip on the clip. (Opening of the clip will cause the fixture to fall into the ampoule.)

Hold the upper part of the clip and connect the fixture driver to the implant.

Simultaneously, push the lower part of the clip for clip opening and lift the implant out of the ampoule.

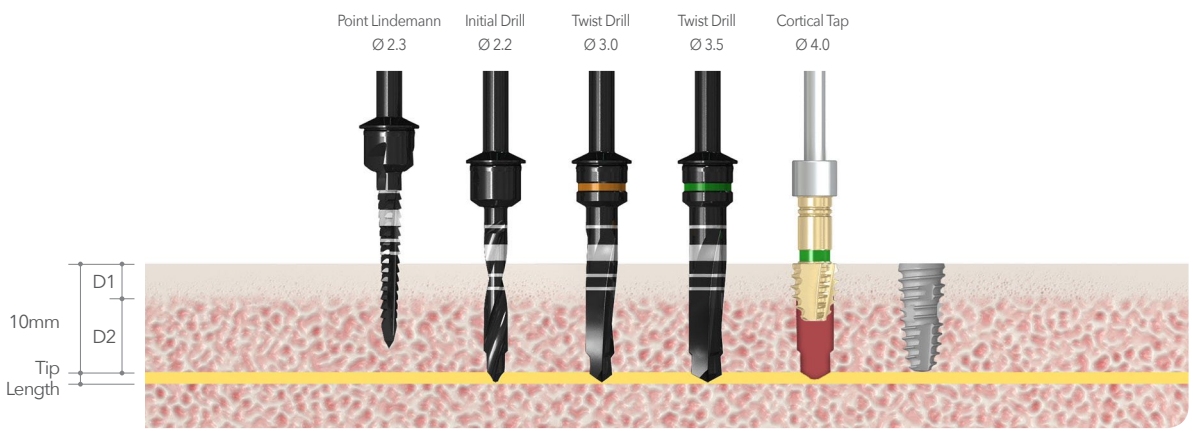
IS-III active **Drilling Protocol**

IS-III active Fixture Ø3.5 X 10mm (D1/D2 bone)



In soft(D4) bone, use Ø 2.2 initial drill as the final drill

IS-III active Fixture Ø4.0 X 10mm (D1/D2 bone)

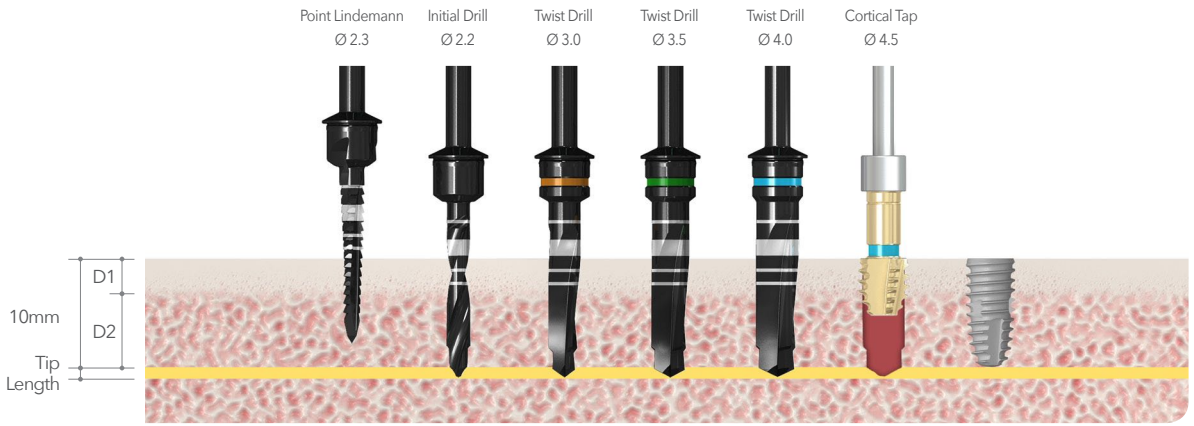


In soft(D4) bone or in condition of getting initial fixation at implant apex, Ø3.0 twist drill is the final drill

Drilling Speed & Torque

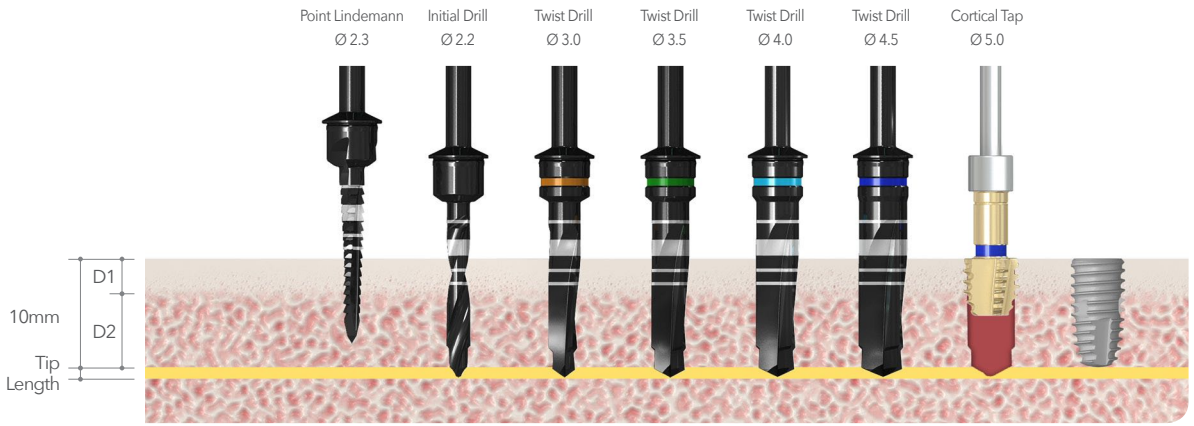
Point Lindemann, Initial Drill, Twist Drill : **1,200rpm / 35~45Ncm** Cortical Tap : **50rpm / 50Ncm**
Cortical Drill : **1200rpm / 50Ncm** (Conventional Loading case)

IS-III active Fixture Ø4.5 X 10mm (D1/D2 bone)

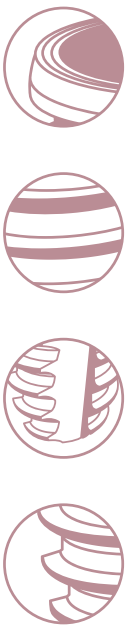


In soft(D4) bone or in condition of getting initial fixation at implant apex, Ø3.5 twist drill is the final drill

IS-III active Fixture Ø5.0 X 10mm (D1/D2 bone)



In soft(D4) bone or in condition of getting initial fixation at implant apex, Ø4.0 twist drill is the final drill



Neo Biotech

Satisfaction to Dentists

History of Neobiotech

Mar. 2017	Ridge Wider Kit
Feb. 2017	T-brush
Sep.2016	IS-III active
Jul. 2016	EZ GBR System
May 2015	Encoded Healing abutment
Apr. 2015	CAMeleon cs
May 2014	World Class 300
Dec. 2013	Manufactured CAMeleon
Nov. 2013	EB-II active
Oct. 2013	SinusAll Kit
	PickCap Impression Kit
Jun. 2013	IT-II active
Oct. 2012	Prosthetic Kit / Accessory Kit
Jun. 2012	Neoguide system
Mar. 2012	GBR Kit
Oct. 2011	IS-II active, Quicktight
Jun. 2011	IS-II, S-mini & ACM
Oct. 2010	CTi – mem
Feb. 2010	SR Kit
Jun. 2009	FR Kit
Mar. 2009	Wide Implant
Nov. 2008	CMI IS implant
Jul. 2008	SLA-Kit
Mar. 2008	SCA-Kit
Mar. 2008	Obtain the patent of CMI Implant
Sep. 2007	Merged with "Osscare.Co.Ltd"
Jun. 2007	CMI implant(External Type)
Feb. 2007	Change of Management
Jul. 2000	Foundation of "Neobiotech.Co,Ltd,."

Neo Biotech
Satisfaction to Dentists

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