iKICO®
Implants

maxFiT //

Dental Implant System

Your Idea Our Implantolog

iKICO®

CONTENTS

COMPANY INTRODUCTION

The dental researches had originated from Metal Industries Research & Development Center in 2006, and iKICO dental solution founded officially in 2010.

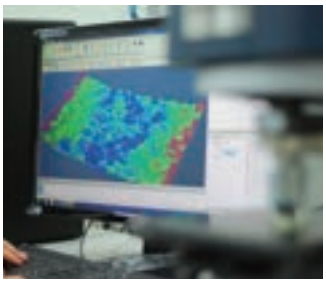
iKICO dental solution spares no effort precision implantology involving navigation, surgical guide, implant systems, and surgical assistive kits. The long term collaboration with dental expert, particularly in implantologist, is the partnership we seek.

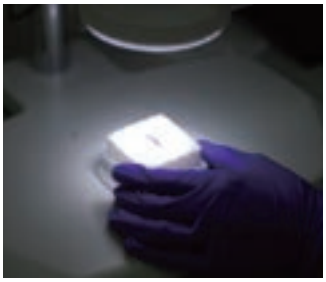
Base on iKICO possesses the strong R&D team and reliable manufacture site met requirement with ISO 13485 and GMP regulation and standard. The expert is able to come up with his idea as well as iKICO is capable of realizing the final products.

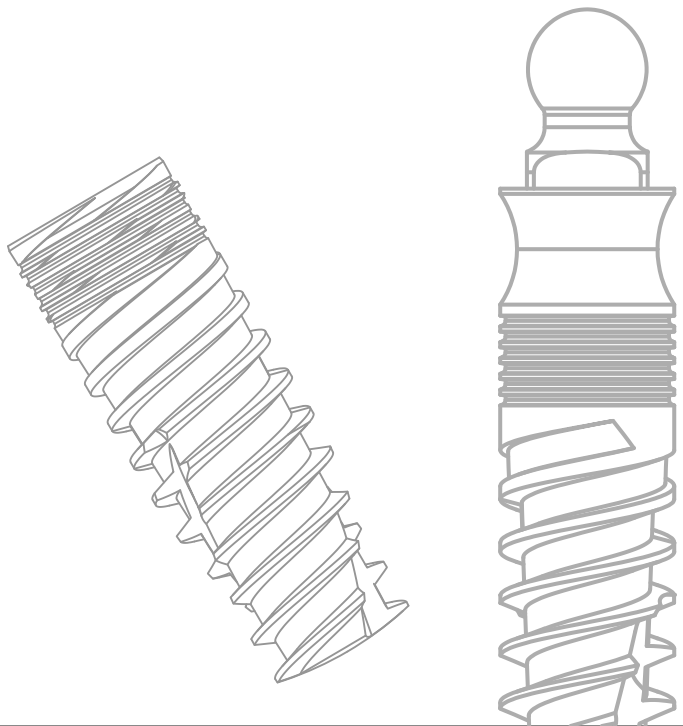
The all achievement will be shared with each other. All the technical support is from the Taiwan Implant Technology Company as the R&D &manufacturing center.

The two stages and one-piece implant systems are provided by iKICO implant solution. The SLAextreme is also applied to the two systems. The safe and precision surgery is taken into consideration that navigation and surgical guide are the optional assistive technique for our customers.

Your Idea Our Implantology





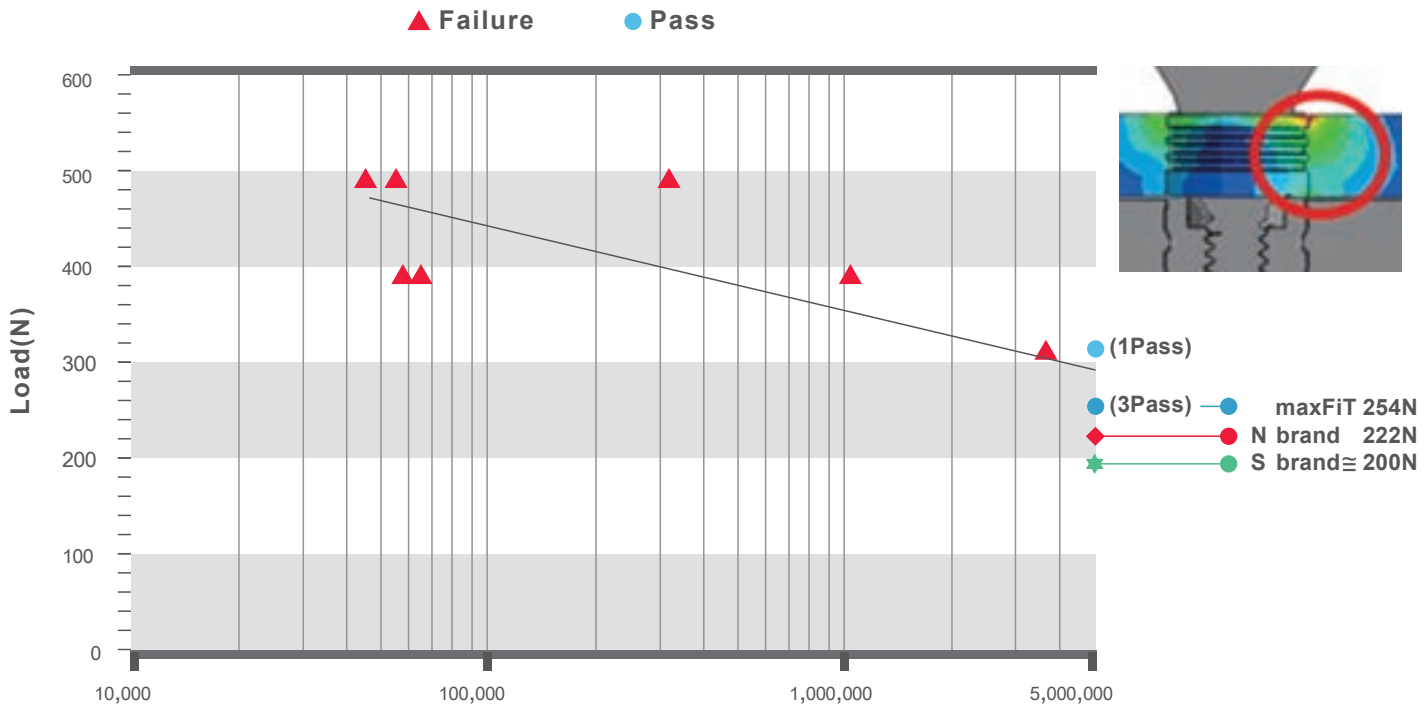


Product Characteristics

Biomechanics

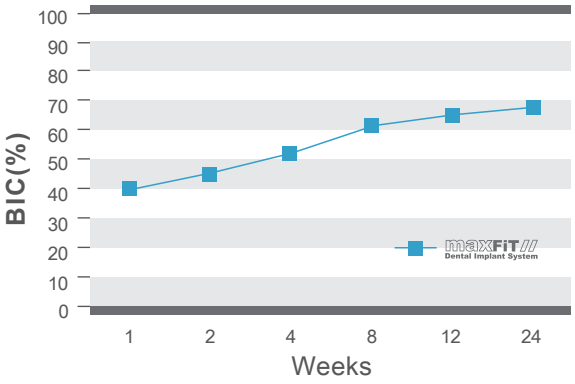
The static strength in different occlusal and thread design to prevent stress concentration was calculated and referenced by the finite element analysis of computerized simulation.

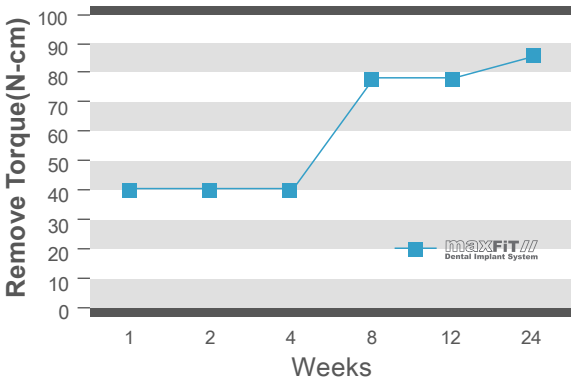
With respect to mechanical strength and reliability, the dynamic fatigue test of 5 million cycles in accordance with ISO 14801 compared with two famous implant systems connecting with its abutment as predicate devices. The MAXFIT implant demonstrated the superiority in fatigue strength that is better than N brand 14.4% and S brand 27%, respectively. The long term mechanical reliability can be definitely trusted by implantologist and patient.

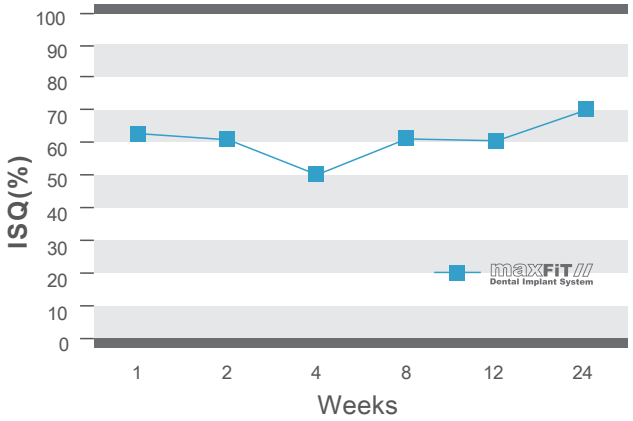


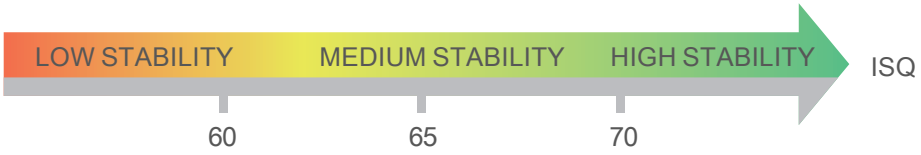
Animal Test

In addition to the rabbit implantation test in accordance with standard of ISO 10993, the eight beagle dogs with 96 fixtures were the subject for the next implantation test. The evaluation parameters include ISQ (Implant Stability Quotient), RTV (Removal Torque Value) and BIC (Bone Implant Contact), and survival rate. The survival rate of MAXFIT and famous S brand implants were 100% in 24 weeks inside leg. The ISQ and RTV showed dramatically increasing after 4th week, and finally reaching the high stability and anchorage. The both implant systems of BIC percentage expressed the similarity of osseointegration. All parameters of MAXFIT implant demonstrated the fast and excellent osseointegration.









Product Characteristics

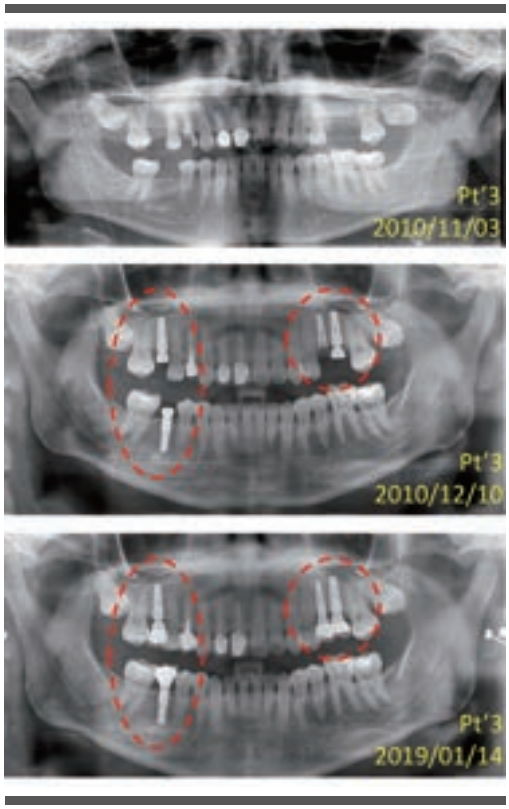
Clinical Follow Up

The fixtures of first batch have been implanted around eight years follow up until end of 2019. The 98.5% implants are still survival, and the marginal bone loss is less than 0.1mm thus far.

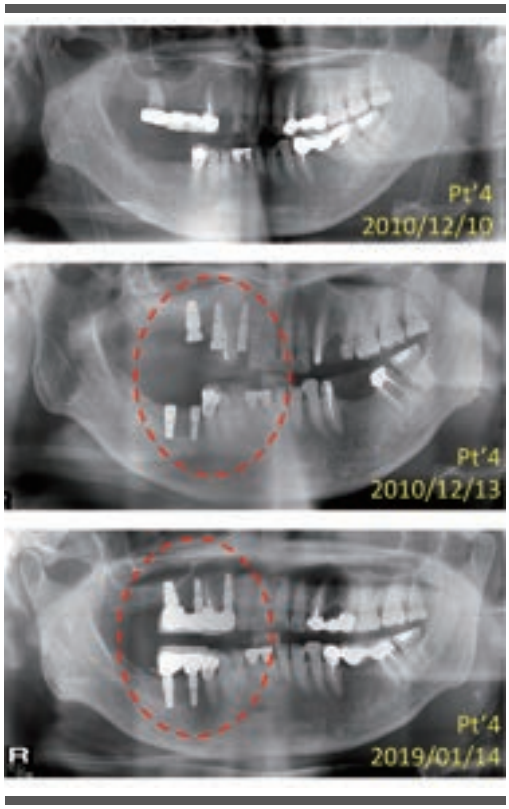
The formal execution of an institutional review board was in military Taiwan Tri-Service General Hospital which is one of the teaching hospitals accepted in mutual recognition agreement for medical.clinical subject between Taiwan and mainland China. The 30 cases were studied and survived in the IRB result.

The geometric design and surface topography not only provide the fast primary stability, but also the reliable long -turn osseointegration.

8 Y-Pt'3



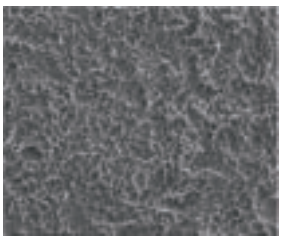
8 Y-Pt'4



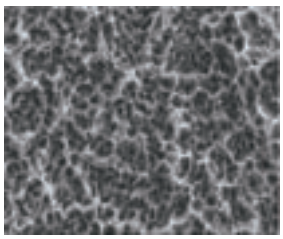
Surface Treatment

The key technology, SLAextreme, is designed for enhancement of efficiency of osseointegration. The greater surface area by 135% for anchorage is fabricated by ceramic grit blasted. The following process is that the heat double acid etching surface not only produces 2-5μm pours morphology for speed up osteoblastic cells proliferation and differentiation because of efficient changing cytoskeleton of osteoblast, but also fully controls removal of residue of grit residue during specific acid etching. The acid cleansing can also be processed by our extreme clean technology. The SLAextreme processing ensures to provide the topographic structure and biocompatible purity titanium surface without residue of acid and grit. Consequently, the superior surface texture and extreme cleanliness are capable of fast osseointegration and stability in the life time.

SLA*extreme*®



500X



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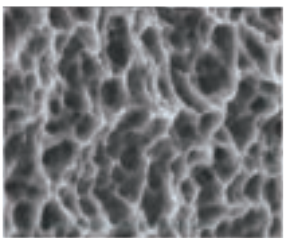

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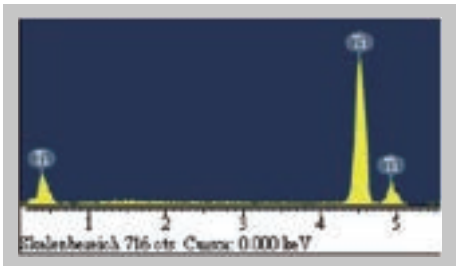
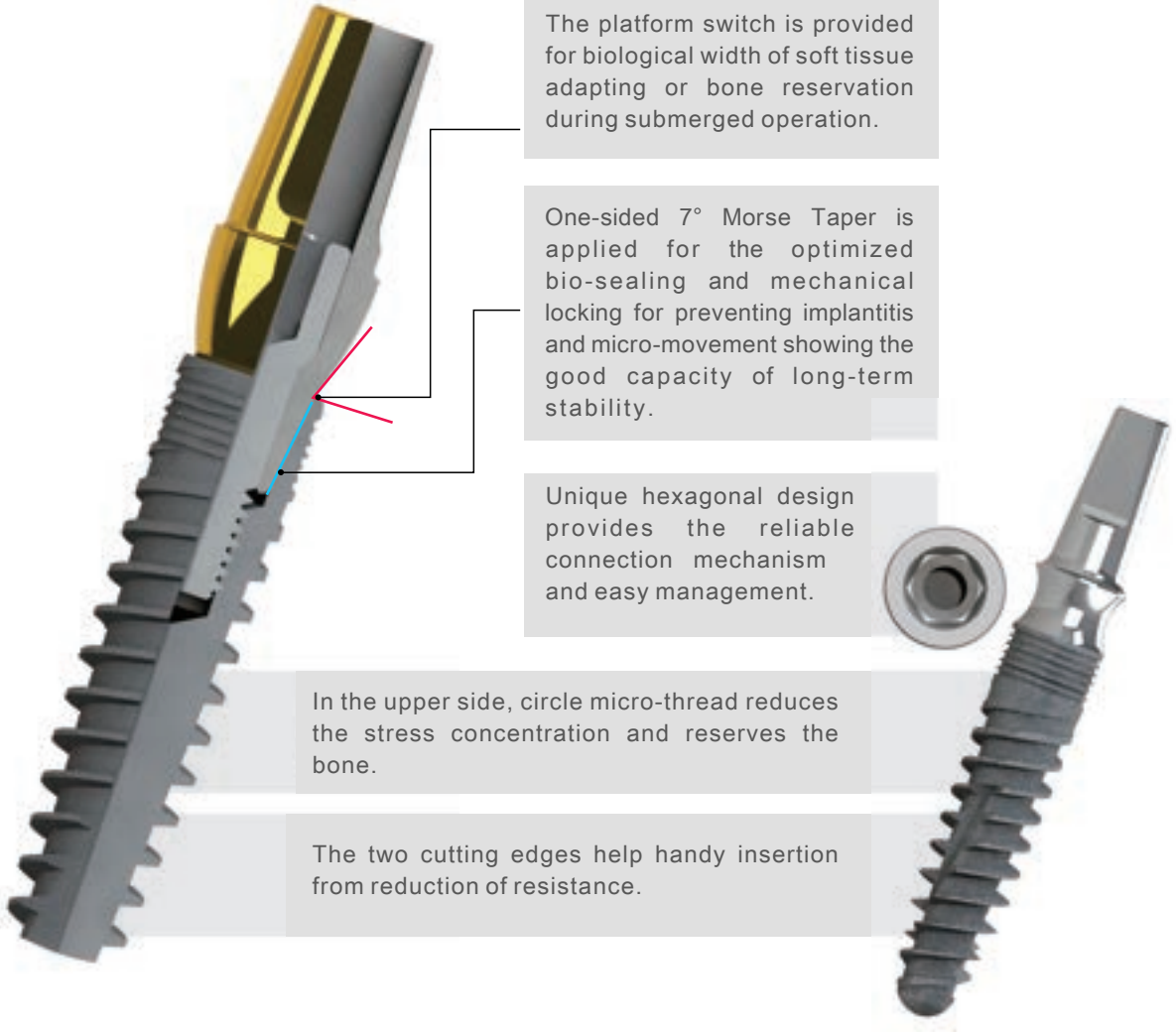


Element	Weight%	Atomic%
Ti K	100.00	100.00
Totals	100.00	

No pollution residues after final cleaning process, and regular quality inspection by third party certification institution.

Product Characteristics

Implant-Abutment Interface



The platform switch is provided for biological width of soft tissue adapting or bone reservation during submerged operation.

One-sided 7° Morse Taper is applied for the optimized bio-sealing and mechanical locking for preventing implantitis and micro-movement showing the good capacity of long-term stability.

Unique hexagonal design provides the reliable connection mechanism and easy management.

In the upper side, circle micro-thread reduces the stress concentration and reserves the bone.

The two cutting edges help handy insertion from reduction of resistance.

OPI

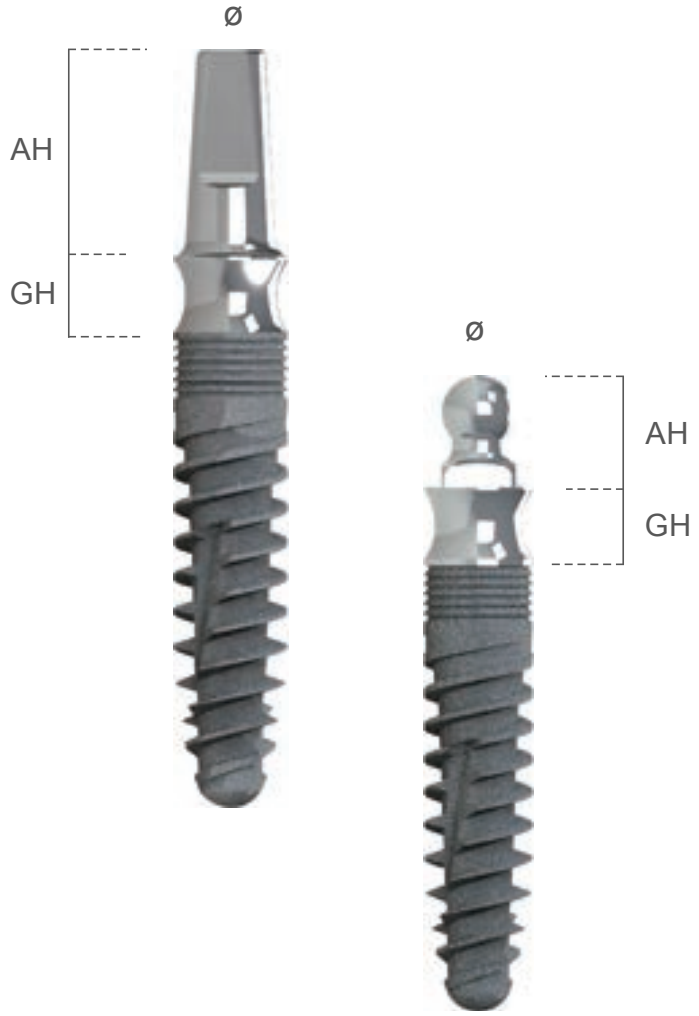
The change thread is capable of easy placement and bringing primary stability by condensing bone chip.

The double lead of main body structure accelerates the insertion of fixture with less heat producing.

One-Piece Implant System

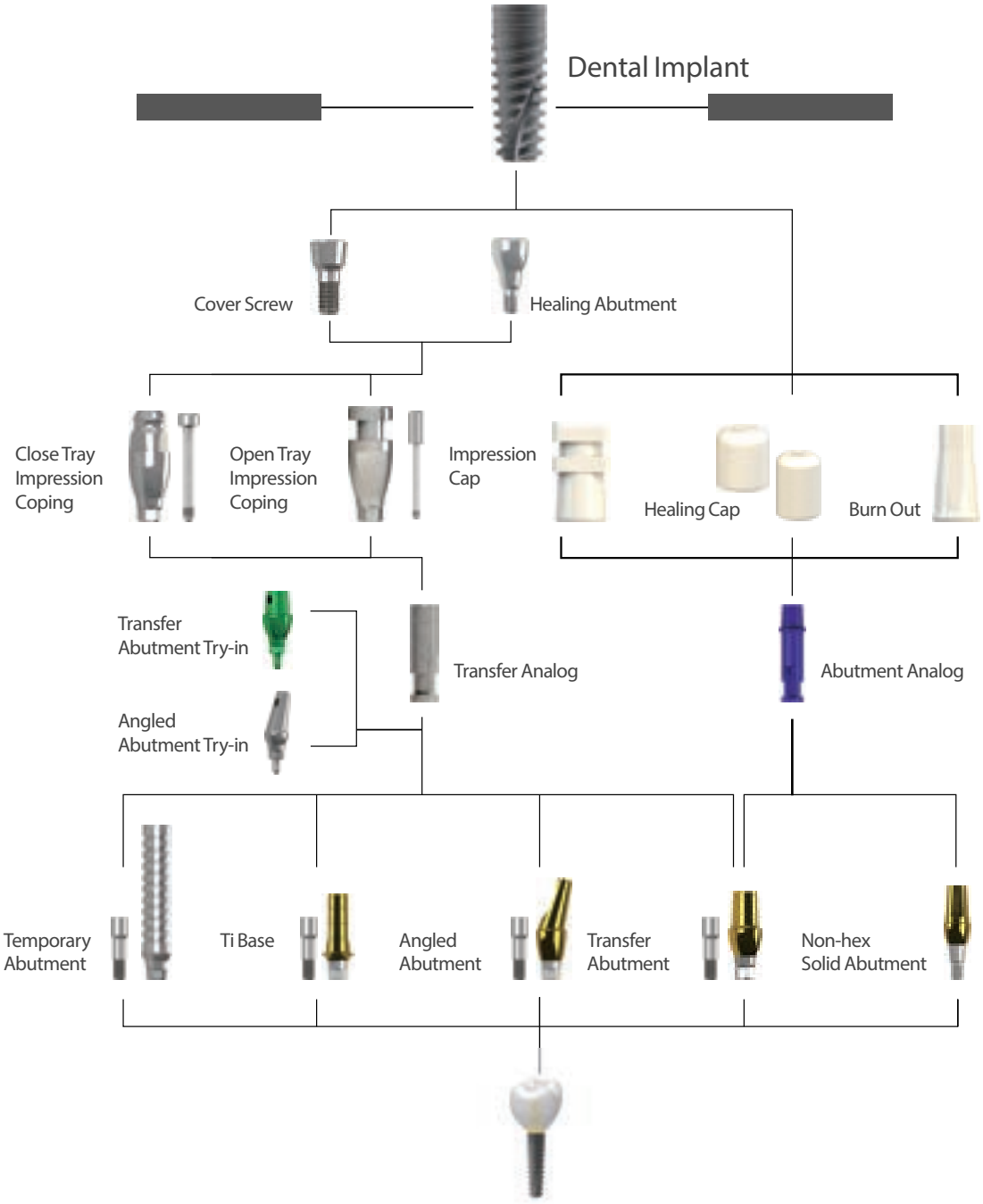
The MAXFITII one-piece implant system, OPI, provides another solution of implantology for the sake of quick, narrow, and stronger fixture body. The reliable SLAextreme is also applied to OPI system which is made of extra low interstitial Ti-6Al-4V. The roughness parameters of morphology regarding OPI SLAextreme are Ra 1-2μm and micro-porosity 2-4μm.

The wide range of dimensions is provided in OPI. The specific clinical requirement of narrow or anterior bone ridge is also recommended to use diameter 3.3mm OPI. On the contrary, the 6mm length OPI implant can used in the site of insufficient bone height. The gingival height of 2mm and 4mm is the optional for implantologists. In addition, the straight and ball type design can be used for variety of clinical requirement including single, bridge and overdenture restoration.

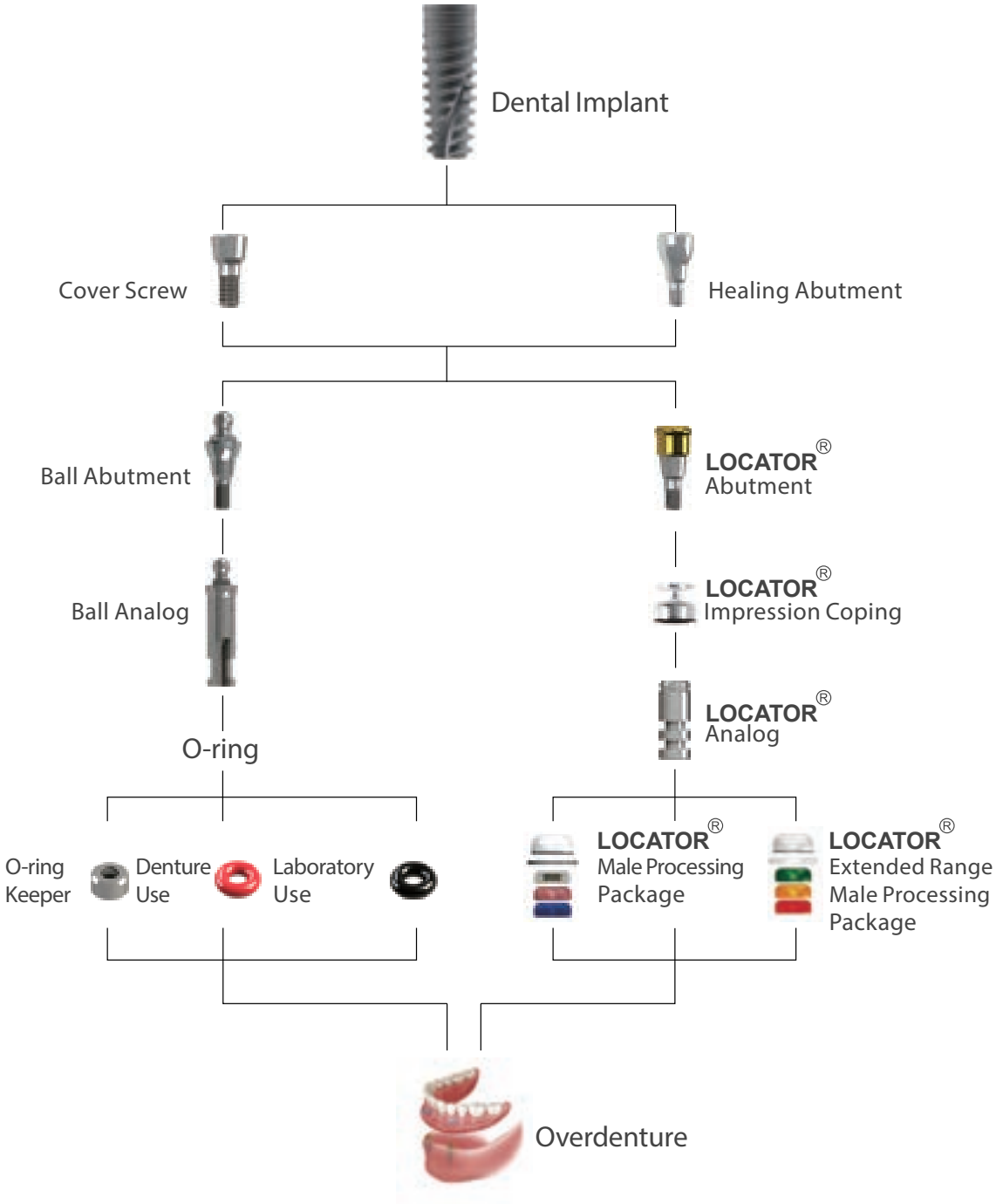


Restorative Flow Chat

Single / Bridge

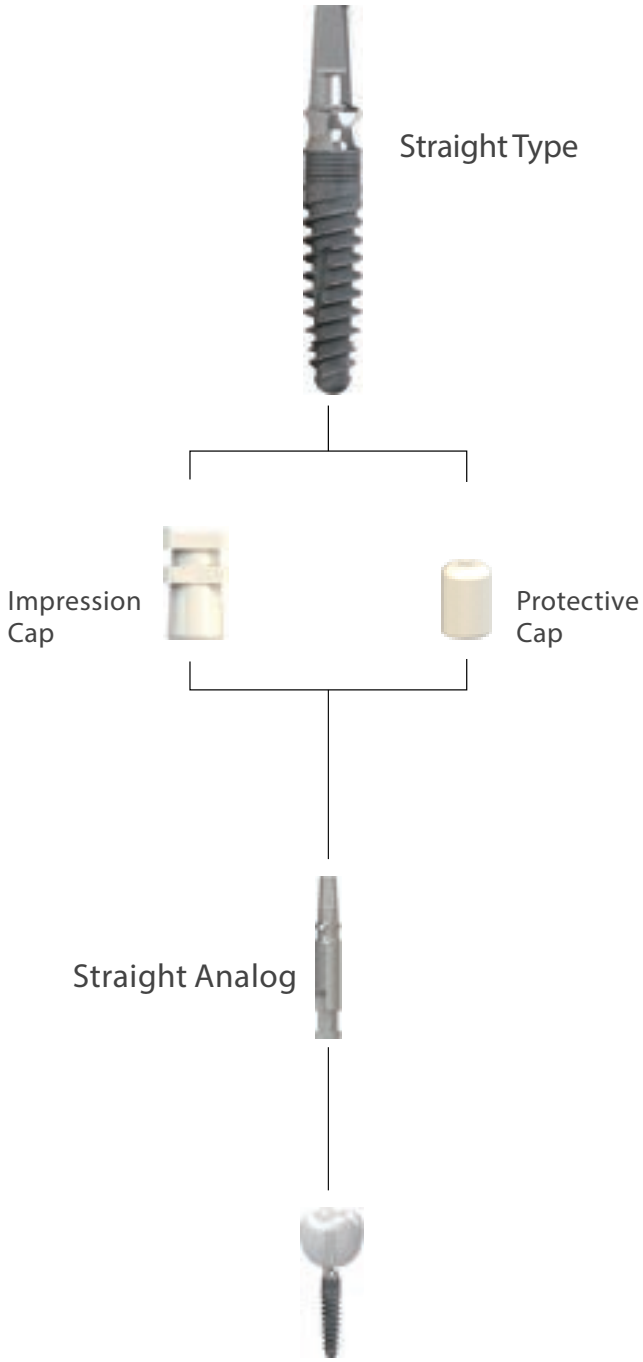


Overdenture

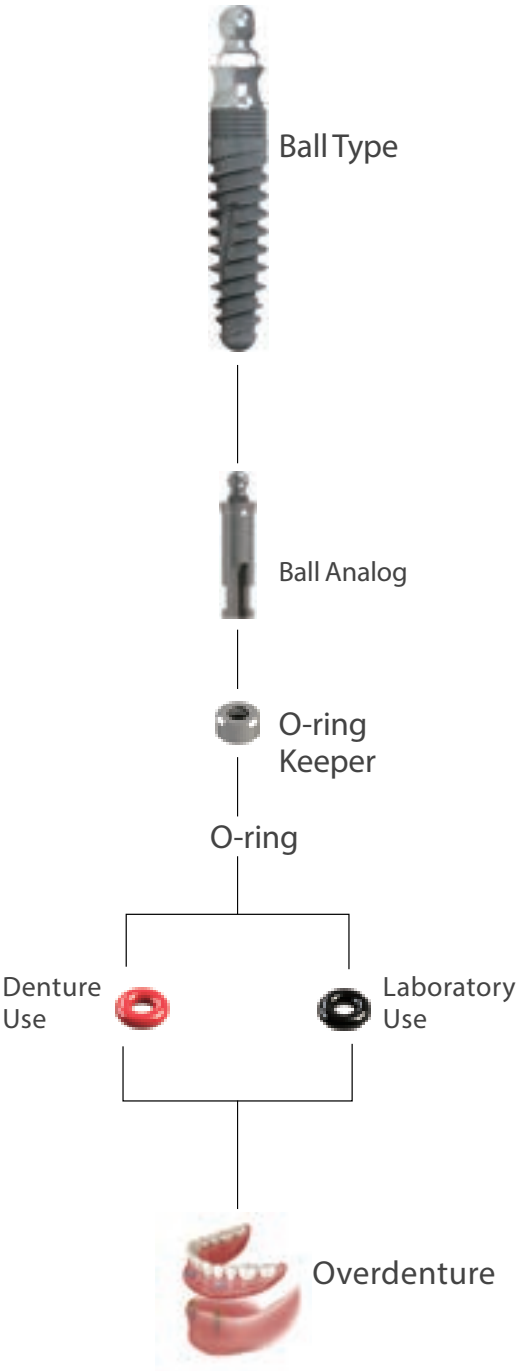


Restorative Flow Chat

Single/Bridge



Overdenture



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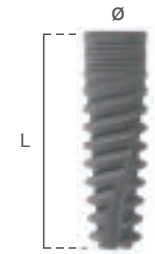
Implant Systems



Length	Type	Diameter				
		D3.3	D3.5	D.4.2	D5.0	D5.6
L6	MAXFIT II	NA	NA	NA	NA	NA
	OPI	NA	NA	NA	NA	MTO-S560662
	OPI-Ball-GH2	NA	NA	NA	NA	NA
	OPI-Ball-GH4	NA	NA	NA	NA	NA
L8	MAXFIT II	NA	MT-IM3508	MT-IM4208	MT-IM5008	MT-IM5608
	OPI	MTO-S330862	NA	MTO-S420862	MTO-S500862	MTO-S560862
	OPI-Ball-GH2	MTO-B330802	NA	MTO-B420802	NA	NA
	OPI-Ball-GH4	MTO-B330862	NA	MTO-B420804	NA	NA
L10	MAXFIT II	NA	MT-IM3510	MT-IM4210	MT-IM5010	MT-IM5610
	OPI	MTO-S331062	NA	MTO-S421062	MTO-S501062	MTO-S561062
	OPI-Ball-GH2	MTO-B331002	NA	MTO-B421002	NA	NA
	OPI-Ball-GH4	MTO-B331004	NA	MTO-B421004	NA	NA
L12	MAXFIT II	NA	MT-IM3512	MT-IM4212	MT-IM5012	MT-IM5612
	OPI	MTO-S331262	NA	MYO-S421262	MYO-S501262	NA
	OPI-Ball-GH2	MTO-B331202	NA	MTO-B421202	NA	NA
	OPI-Ball-GH4	MTO-B331204	NA	MTO-B421204	NA	NA
L14	MAXFIT II	NA	MT-IM3514	MT-IM4214	MT-IM5014	NA
	OPI	MTO-S331462	NA	MTO-S421462	MTO-S501462	NA
	OPI-Ball-GH2	MTO-B331402	NA	MTO-B421402	NA	NA
	OPI-Ball-GH4	MTO-B331404	NA	MTO-B421404	NA	NA
L16	MAXFIT II	NA	NA	NA	NA	NA
	OPI	MTO-S331662	NA	NA	NA	NA
	OPI-Ball-GH2	MTO-B331602	NA	NA	NA	NA
	OPI-Ball-GH4	MTO-B331604	NA	NA	NA	NA

Inner Screw

Model No.	∅
MT-SC18	1.8mm

Healing Abutment

Model No.	∅	AH	GH
MT-HE401010	4.0mm	1.0mm	1.0mm
MT-HE401020	4.0mm	1.0mm	2.0mm
MT-HE401030	4.0mm	1.0mm	3.0mm
MT-HE401040	4.0mm	1.0mm	4.0mm
MT-HE401050	4.0mm	1.0mm	5.0mm
MT-HE451010	4.5mm	1.0mm	1.0mm
MT-HE451020	4.5mm	1.0mm	2.0mm
MT-HE451030	4.5mm	1.0mm	3.0mm
MT-HE451040	4.5mm	1.0mm	4.0mm
MT-HE451050	4.5mm	1.0mm	5.0mm
MT-HE501010	5.0mm	1.0mm	1.0mm
MT-HE501020	5.0mm	1.0mm	2.0mm
MT-HE501030	5.0mm	1.0mm	3.0mm
MT-HE501040	5.0mm	1.0mm	4.0mm
MT-HE501050	5.0mm	1.0mm	5.0mm
MT-HE551010	5.5mm	1.0mm	1.0mm
MT-HE551020	5.5mm	1.0mm	2.0mm
MT-HE551030	5.5mm	1.0mm	3.0mm
MT-HE551040	5.5mm	1.0mm	4.0mm
MT-HE551050	5.5mm	1.0mm	5.0mm

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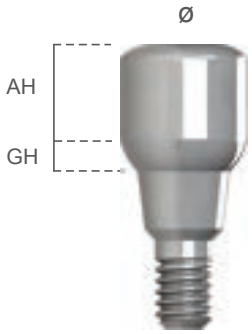
Healing Abutment



Model No.	∅	AH	GH
MT-HE403010	4.0mm	3.0mm	1.0mm
MT-HE403020	4.0mm	3.0mm	2.0mm
MT-HE403030	4.0mm	3.0mm	3.0mm
MT-HE403040	4.0mm	3.0mm	4.0mm
MT-HE403050	4.0mm	3.0mm	5.0mm
MT-HE453010	4.5mm	3.0mm	1.0mm
MT-HE453020	4.5mm	3.0mm	2.0mm
MT-HE453030	4.5mm	3.0mm	3.0mm
MT-HE453040	4.5mm	3.0mm	4.0mm
MT-HE453050	4.5mm	3.0mm	5.0mm
MT-HE503010	5.0mm	3.0mm	1.0mm
MT-HE503020	5.0mm	3.0mm	2.0mm
MT-HE503030	5.0mm	3.0mm	3.0mm
MT-HE503040	5.0mm	3.0mm	4.0mm
MT-HE503050	5.0mm	3.0mm	5.0mm
MT-HE553010	5.5mm	3.0mm	1.0mm
MT-HE553020	5.5mm	3.0mm	2.0mm
MT-HE553030	5.5mm	3.0mm	3.0mm
MT-HE553040	5.5mm	3.0mm	4.0mm
MT-HE553050	5.5mm	3.0mm	5.0mm

Healing Cap

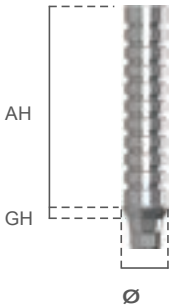
Model No.	∅	AH
MT-PS4040	4.0mm	4.0mm
MT-PS4055	4.0mm	5.5mm
MT-PS4540	4.5mm	4.0mm
MT-PS4555	4.5mm	5.5mm
MT-PS5040	5.0mm	4.0mm
MT-PS5055	5.0mm	5.5mm
MT-PS5540	5.5mm	4.0mm
MT-PS5555	5.5mm	5.5mm

Protective Cap

OPi

Model No.	∅
MTO-PS33	3.3mm
MTO-PS42	4.2mm
MTO-PS50	5.0mm
MTO-PS56	5.6mm

Temporary Abutment



Model No.	∅	AH	GH
MT-TE401710	4.0mm	17.0mm	1.0mm
MT-TE501710	5.0mm	17.0mm	1.0mm

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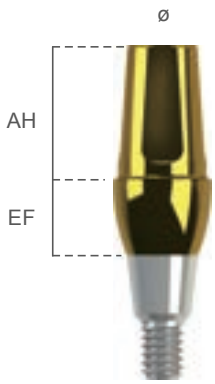
Non-Hex Solid Abutment



Model No.	∅	AH	GH
MT-NTR404010	4.0mm	4.0mm	1.0mm
MT-NTR404020	4.0mm	4.0mm	2.0mm
MT-NTR404030	4.0mm	4.0mm	3.0mm
MT-NTR404040	4.0mm	4.0mm	4.0mm
MT-NTR404050	4.0mm	4.0mm	5.0mm
MT-NTR404060	4.0mm	4.0mm	6.0mm
MT-NTR404070	4.0mm	4.0mm	7.0mm
MT-NTR405510	4.0mm	5.5mm	1.0mm
MT-NTR405520	4.0mm	5.5mm	2.0mm
MT-NTR405530	4.0mm	5.5mm	3.0mm
MT-NTR405540	4.0mm	5.5mm	4.0mm
MT-NTR405550	4.0mm	5.5mm	5.0mm
MT-NTR405560	4.0mm	5.5mm	6.0mm
MT-NTR405570	4.0mm	5.5mm	7.0mm
MT-NTR454010	4.5mm	4.0mm	1.0mm
MT-NTR454020	4.5mm	4.0mm	2.0mm
MT-NTR454030	4.5mm	4.0mm	3.0mm
MT-NTR454040	4.5mm	4.0mm	4.0mm
MT-NTR454050	4.5mm	4.0mm	5.0mm
MT-NTR454060	4.5mm	4.0mm	6.0mm
MT-NTR454070	4.5mm	4.0mm	7.0mm
MT-NTR455510	4.5mm	5.5mm	1.0mm
MT-NTR455520	4.5mm	5.5mm	2.0mm
MT-NTR455530	4.5mm	5.5mm	3.0mm
MT-NTR455540	4.5mm	5.5mm	4.0mm
MT-NTR455550	4.5mm	5.5mm	5.0mm
MT-NTR455560	4.5mm	5.5mm	6.0mm
MT-NTR455570	4.5mm	5.5mm	7.0mm

Model No.	∅	AH	GH
MT-NTR504010	5.0mm	4.0mm	1.0mm
MT-NTR504020	5.0mm	4.0mm	2.0mm
MT-NTR504030	5.0mm	4.0mm	3.0mm
MT-NTR504040	5.0mm	4.0mm	4.0mm
MT-NTR504050	5.0mm	4.0mm	5.0mm
MT-NTR504060	5.0mm	4.0mm	6.0mm
MT-NTR504070	5.0mm	4.0mm	7.0mm
MT-NTR505510	5.0mm	5.5mm	1.0mm
MT-NTR505520	5.0mm	5.5mm	2.0mm
MT-NTR505530	5.0mm	5.5mm	3.0mm
MT-NTR505540	5.0mm	5.5mm	4.0mm
MT-NTR505550	5.0mm	5.5mm	5.0mm
MT-NTR505560	5.0mm	5.5mm	6.0mm
MT-NTR505570	5.0mm	5.5mm	7.0mm
MT-NTR554010	5.5mm	4.0mm	1.0mm
MT-NTR554020	5.5mm	4.0mm	2.0mm
MT-NTR554030	5.5mm	4.0mm	3.0mm
MT-NTR554040	5.5mm	4.0mm	4.0mm
MT-NTR554050	5.5mm	4.0mm	5.0mm
MT-NTR554060	5.5mm	4.0mm	6.0mm
MT-NTR554070	5.5mm	4.0mm	7.0mm
MT-NTR555510	5.5mm	5.5mm	1.0mm
MT-NTR555520	5.5mm	5.5mm	2.0mm
MT-NTR555530	5.5mm	5.5mm	3.0mm
MT-NTR555540	5.5mm	5.5mm	4.0mm
MT-NTR555550	5.5mm	5.5mm	5.0mm
MT-NTR555560	5.5mm	5.5mm	6.0mm
MT-NTR555570	5.5mm	5.5mm	7.0mm

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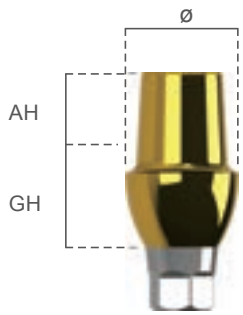
Transfer Abutment

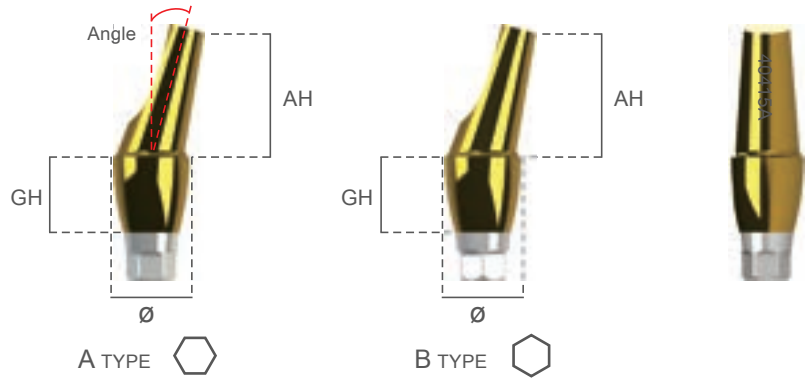


Model No.	∅	AH	GH
MT-TR404010	4.0mm	4.0mm	1.0mm
MT-TR404020	4.0mm	4.0mm	2.0mm
MT-TR404030	4.0mm	4.0mm	3.0mm
MT-TR404040	4.0mm	4.0mm	4.0mm
MT-TR404050	4.0mm	4.0mm	5.0mm
MT-TR404060	4.0mm	4.0mm	6.0mm
MT-TR404070	4.0mm	4.0mm	7.0mm
MT-TR405510	4.0mm	5.5mm	1.0mm
MT-TR405520	4.0mm	5.5mm	2.0mm
MT-TR405530	4.0mm	5.5mm	3.0mm
MT-TR405540	4.0mm	5.5mm	4.0mm
MT-TR405550	4.0mm	5.5mm	5.0mm
MT-TR405560	4.0mm	5.5mm	6.0mm
MT-TR405570	4.0mm	5.5mm	7.0mm
MT-TR454010	4.5mm	4.0mm	1.0mm
MT-TR454020	4.5mm	4.0mm	2.0mm
MT-TR454030	4.5mm	4.0mm	3.0mm
MT-TR454040	4.5mm	4.0mm	4.0mm
MT-TR454050	4.5mm	4.0mm	5.0mm
MT-TR454060	4.5mm	4.0mm	6.0mm
MT-TR454070	4.5mm	4.0mm	7.0mm
MT-TR455510	4.5mm	5.5mm	1.0mm
MT-TR455520	4.5mm	5.5mm	2.0mm
MT-TR455530	4.5mm	5.5mm	3.0mm
MT-TR455540	4.5mm	5.5mm	4.0mm
MT-TR455550	4.5mm	5.5mm	5.0mm
MT-TR455560	4.5mm	5.5mm	6.0mm
MT-TR455570	4.5mm	5.5mm	7.0mm

Model No.	∅	AH	GH
MT-TR504010	5.0mm	4.0mm	1.0mm
MT-TR504020	5.0mm	4.0mm	2.0mm
MT-TR504030	5.0mm	4.0mm	3.0mm
MT-TR504040	5.0mm	4.0mm	4.0mm
MT-TR504050	5.0mm	4.0mm	5.0mm
MT-TR504060	5.0mm	4.0mm	6.0mm
MT-TR504070	5.0mm	4.0mm	7.0mm
MT-TR505510	5.0mm	5.5mm	1.0mm
MT-TR505520	5.0mm	5.5mm	2.0mm
MT-TR505530	5.0mm	5.5mm	3.0mm
MT-TR505540	5.0mm	5.5mm	4.0mm
MT-TR505550	5.0mm	5.5mm	5.0mm
MT-TR505560	5.0mm	5.5mm	6.0mm
MT-TR505570	5.0mm	5.5mm	7.0mm
MT-TR554010	5.5mm	4.0mm	1.0mm
MT-TR554020	5.5mm	4.0mm	2.0mm
MT-TR554030	5.5mm	4.0mm	3.0mm
MT-TR554040	5.5mm	4.0mm	4.0mm
MT-TR554050	5.5mm	4.0mm	5.0mm
MT-TR554060	5.5mm	4.0mm	6.0mm
MT-TR554070	5.5mm	4.0mm	7.0mm
MT-TR555510	5.5mm	5.5mm	1.0mm
MT-TR555520	5.5mm	5.5mm	2.0mm
MT-TR555530	5.5mm	5.5mm	3.0mm
MT-TR555540	5.5mm	5.5mm	4.0mm
MT-TR555550	5.5mm	5.5mm	5.0mm
MT-TR555560	5.5mm	5.5mm	6.0mm
MT-TR555570	5.5mm	5.5mm	7.0mm

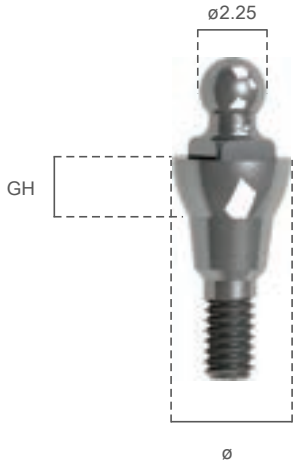
Efficient . Reliable . Clean

Angled Abutmet



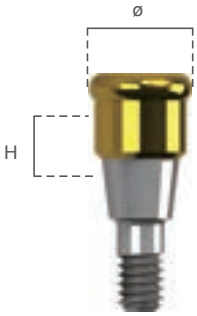
Model No.	∅	AH	GH	Angle	Type
MT-AN40702015A	4.0mm	7.0mm	2.0mm	15°	A
MT-AN40702015B	4.0mm	7.0mm	2.0mm	15°	B
MT-AN40704015A	4.0mm	7.0mm	4.0mm	15°	A
MT-AN40704015B	4.0mm	7.0mm	4.0mm	15°	B
MT-AN40702025A	4.0mm	7.0mm	2.0mm	25°	A
MT-AN40702025B	4.0mm	7.0mm	2.0mm	25°	B
MT-AN40704025A	4.0mm	7.0mm	4.0mm	25°	A
MT-AN40704025B	4.0mm	7.0mm	4.0mm	25°	B
MT-AN45702015A	4.5mm	7.0mm	2.0mm	15°	A
MT-AN45702015B	4.5mm	7.0mm	2.0mm	15°	B
MT-AN45704015A	4.5mm	7.0mm	4.0mm	15°	A
MT-AN45704015B	4.5mm	7.0mm	4.0mm	15°	B
MT-AN45702025A	4.5mm	7.0mm	2.0mm	25°	A
MT-AN45702025B	4.5mm	7.0mm	2.0mm	25°	B
MT-AN45704025A	4.5mm	7.0mm	4.0mm	25°	A
MT-AN45704025B	4.5mm	7.0mm	4.0mm	25°	B

Ball Abutment



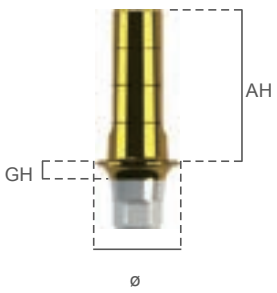
Model No.	∅	GH
MT-BA405020	4.0mm	2.0mm
MT-BA405040	4.0mm	4.0mm

LOCATOR® Abutment



Model No.	∅	H(Cuff)
MT-LO3510	3.5mm	1.0mm
MT-LO3520	3.5mm	2.0mm
MT-LO3530	3.5mm	3.0mm
MT-LO3540	3.5mm	4.0mm
MT-LO3550	3.5mm	5.0mm
MT-LO3560	3.5mm	6.0mm

Ti Base



Model No.	∅	AH	GH
MT-TB458010	4.5mm	8.0mm	1.0mm

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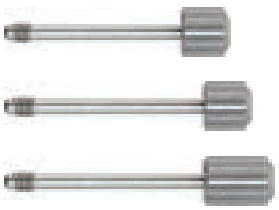
Pick-up Impression Coping

Model No.	∅	L
MT-IO4012	4.0mm	12mm
MT-IO4016	4.0mm	16mm
MT-IO4512	4.5mm	12mm
MT-IO4516	4.5mm	16mm
MT-IO5012	5.0mm	12mm
MT-IO5016	5.0mm	16mm
MT-IO5512	5.5mm	12mm
MT-IO5516	5.5mm	16mm

Pick-up Impression Coping Pin

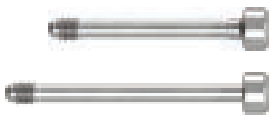


Model No.	L
MT-IO4012P	12mm
MT-IO4016P	16mm
MT-IO4020P	20mm

Transfer Impression Coping

Model No.	∅	L
MT-IC4012	4.0mm	12mm
MT-IC4016	4.0mm	16mm
MT-IC4512	4.5mm	12mm
MT-IC4516	4.5mm	16mm
MT-IC5012	5.0mm	12mm
MT-IC5016	5.0mm	16mm
MT-IC5512	5.5mm	12mm
MT-IC5516	5.5mm	16mm

Transfer Impression Coping Pin



Model No.	L
MT-IC4012P	12mm
MT-IC4016P	16mm

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Impression Cap

Model No.	∅	go with AH
MT-IS4040	4.0mm	4.0mm
MT-IS4055	4.0mm	5.5mm
MT-IS4540	4.5mm	4.0mm
MT-IS4555	4.5mm	5.5mm
MT-IS5040	5.0mm	4.0mm
MT-IS5055	5.0mm	5.5mm
MT-IS5540	5.5mm	4.0mm
MT-IS5555	5.5mm	5.5mm

OPI

Model No.	∅
MTO-IS33	3.3mm
MTO-IS42	4.2mm
MTO-IS50	5.0mm
MTO-IS56	5.6mm

One-Step Impression Coping

Model No.	∅
MT-EIC9	4.0mm

Transfer Analog

Model No.	∅
MT-TRA35	3.5mm

Ball Analog

Model No.	∅
MT-BAA4000	4.0mm

O-ring Keeper

Model No.
MT-BAH

O-ring (Red: Denture Use)

Model No.
MT-BAOD

O-ring (Black: Lab. Use)

Model No.
MT-BAOL

Abutment Analog

Model No.	∅(colour)	AH
MT-SA4040	4.0mm(Y)	4.0mm
MT-SA4055	4.0mm(Y)	5.5mm
MT-SA4540	4.5mm(G)	4.0mm
MT-SA4555	4.5mm(G)	5.5mm
MT-SA5040	5.0mm(B)	4.0mm
MT-SA5055	5.0mm(B)	5.5mm
MT-SA5540	5.5mm(P)	4.0mm
MT-SA5555	5.5mm(P)	5.5mm

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Straight Analog

OPI

Model No.	∅	AH	GH
MTO-SA332060	3.3mm	6	2
MTO-SA422060	4.2mm	6	2
MTO-SA502060	5.0mm	6	2
MTO-SA562060	5.6mm	6	2

Burn-Out

Model No.	∅	AH
MT-BO4040	4.0mm	4.0mm
MT-BO4055	4.0mm	5.5mm
MT-BO4540	4.5mm	4.0mm
MT-BO4555	4.5mm	5.5mm
MT-BO5040	5.0mm	4.0mm
MT-BO5055	5.0mm	5.5mm
MT-BO5540	5.5mm	4.0mm
MT-BO5555	5.5mm	5.5mm

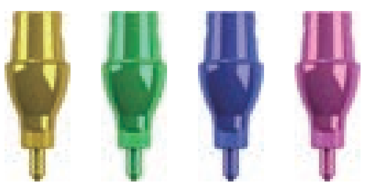
Angled Abutment Try-In

25°/A Type

15°/B Type

Model No.	∅	AH	Angle	Type
MT-AN407015AT	4.0mm	7.0mm	15°	A
MT-AN407025AT	4.0mm	7.0mm	25°	A
MT-AN407015BT	4.0mm	7.0mm	15°	B
MT-AN407025BT	4.0mm	7.0mm	25°	B

Transfer Abutment Try-In



Model No.	∅	AH	Angle	Type
MT-AN407015AT	4.0mm	7.0mm	15°	A
MT-AN407025AT	4.0mm	7.0mm	25°	A
MT-AN407015BT	4.0mm	7.0mm	15°	B
MT-AN407025BT	4.0mm	7.0mm	25°	B
MT-AN407015AT	4.0mm	7.0mm	15°	A
MT-AN407025AT	4.0mm	7.0mm	25°	A
MT-AN407015BT	4.0mm	7.0mm	15°	B
MT-AN407025BT	4.0mm	7.0mm	25°	B
MT-AN407015AT	4.0mm	7.0mm	15°	A
MT-AN407025AT	4.0mm	7.0mm	25°	A
MT-AN407015BT	4.0mm	7.0mm	15°	B
MT-AN407025BT	4.0mm	7.0mm	25°	B

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Locator® Analog

Model No.	∅
MT-LOA3500	3.5mm

Locator® Impression Coping

Model No.
MT-LOIC

Locator® Male Processing Package

Model No.
MT-LOMPP

Extended 0°–10°

Retention Force

- Green : 5.0lb
- Orange : 3.0lb
- Red : 1.5lb

Locator® Extended Range Male Processing Package

Model No.
MT-LOERMPP

Extended 10°–20°

Retention Force

- Green : 5.0lb
- Orange : 3.0lb
- Red : 1.5lb

Locator® Core Tool

Model No.
MT-LOCT

Locator® Angle Measurement Guide

Model No.
MT-LOAMG

Locator® Parallel Post

Model No.
MT-LOPP

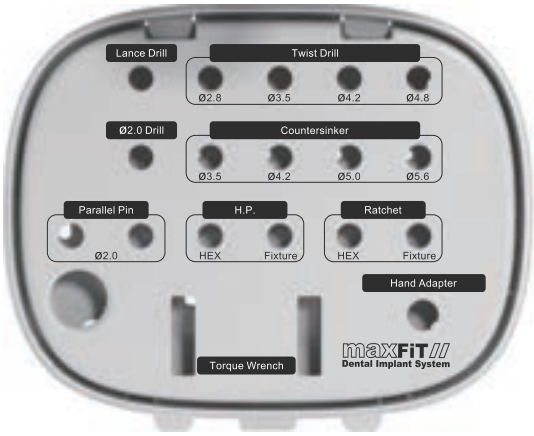
Surgical Kits

The premium as well as standard surgical kits are supplied to our customers. In addition to MAXFIT the layout of surgical box combines OPI system. The customers can use the same surgical box in case MAXFIT and OPI applied together.

Surgical Box Layouts

Premium Kits

Standard Kits



Initial

Lance

Lindermann

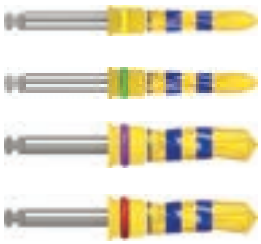
Round bur

Model No.	∅	Length
MT-SKLAD	2.0	33
MT-SKLID	2.0	33
MT-SKRB23M	2.3	33
MT-SKRB23L	2.3	37

Pilot

Model No.	∅	Length
MT-SKPD20	2.0	33

Twist Drill



Model No.	∅	Length
MT-SKTD28	2.8	33
MT-SKTD30	3.0	33
MT-SKTD35	3.5	33
MT-SKTD38	3.8	33
MT-SKTD42	**4.2**	**33**
MT-SKTD45	**4.5**	**33**
MT-SKTD48	**4.8**	**33**
MT-SKTD52	**5.2**	**33**

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Tissue Knife

Tissue punch for flapless operation

Model No.	∅	Length
MT-SKTK35	**3.5**	**28**
MT-SKTK40	4.0	28
MT-SKTK50	5.0	28

Parallel Pin

Model No.	∅	Length
MT-SKP20	**1. 9**	18

Countersink

Model No.	∅	Length
MT-SKC35	3.5	26
MT-SKC42	4.2	26
MT-SKC50	5.0	26
MT-SKC56	5.6	26

Tap

Model No.	∅	Length
MT-SKT35	3.5	33
MT-SKT42	4.2	33
MT-SKT50	5.0	33
MT-SKT56	5.6	33

Tap-H

Model No.	∅	Length
MT-SKTH35	3.5	26
MT-SKTH42	4.2	26
MT-SKTH50	5.0	26
MT-SKTH56	5.6	26

Ratchet

		Model No.	∅	Length
Fixture Driver-H 	S	MT-PKFH15	3.95	15
	L	MT-PKFH25	3.95	25
HEXDriver-H 	S	MT-PKHH19	3.95	19
	M	MT-PKHH25	3.95	25
	L	MT-PKHH32	3.95	32
OPI Fixture Driver-H 	S	MTO-PKOH15	3.95	15
	L	MTO-PKOH20	3.95	20
Ball Fixture Driver-H 	S	MT-PKBH15	3.95	15
	L	MT-PKBH20	3.95	20
Hand HEXDriver-H 	S	MT-PKHHHS	8	21
	L	MT-PKHHHL	8	27
LOCATOR® Fixture Driver-H 	S	MT-PKLH15	3.95	15
	L	MT-PKLH21	3.95	21

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Drivers for Handpiece

		Model No.	∅	Length
OPI Fixture Driver 	S	MTO-PKO22	3.95	22
	L	MTO-PKO27	3.95	27
Fixture Driver 		MT-PKF26	3.5	26
Ball Fixture Driver 	L	MT-PKB22	3.95	22
	S	MT-PKB27	3.95	27
HEXDriver 	L	MT-PKH20	2.35	20
	S	MT-PKH25	2.35	25
LOCATOR® Fixture Driver 	L	MT-PKL23	3.8	23
	S	MT-PKL29	3.8	29

Handpiece Extension

Lengthening the shank for insufficient distance.

Model No.	∅	Length
MT-PKE28	3.95	28

Hand Adapter

Used for hand operating. A small hole is used for wire to prevent falling and swallowing.

Model No.	∅	Length
MT-PKHA	10	12

Torque Wrench

Adjust torque between 0-40Ncm.

Model No.	∅	Length
MT-HKDG		110

Depth Gauge

Left probe used for drilling depth. The lowest border of marking is 6mm and marking width and interval are 2mm.
Right probe used for soft tissue height. The marking width is 1mm and interval is 1mm.

Model No.	∅	Length
MT-SKTK35	3.5	28

Uni Kits®

iKICO dentistry solution also provides Uni-Kit which has all dimensions including drills and those sleeves. This kit is particularly designed and applied to surgical navigation and guide.

Diameter: 2.0mm — 5.2mm

Drilling Length :13mm—23mm

Your Idea Our Implantology

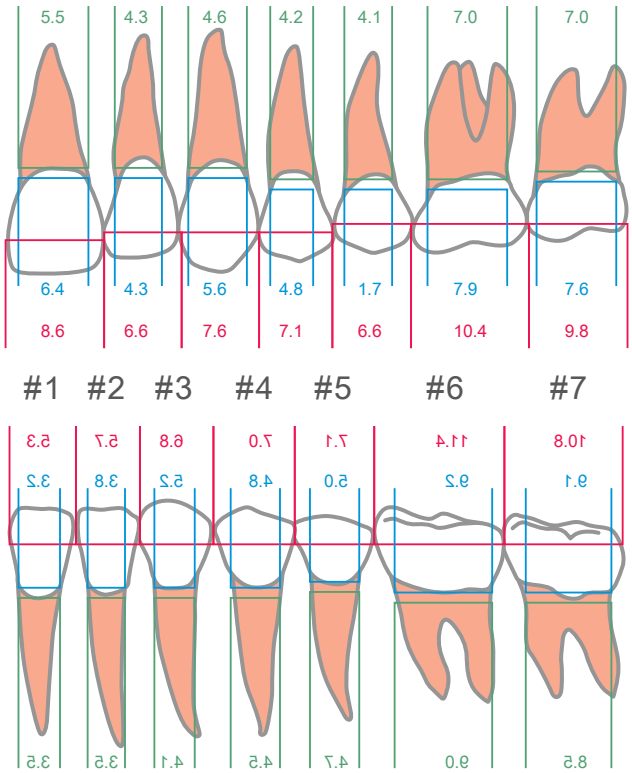
Sleeves for drills

Tube
4.0/4.7mm
6.0/6.7mm

Procedures of Surgical Operation

Tooth position and its recommended dimension of implant

Central Incisor(#1)	D3. 3	D3. 5	D4. 2
Lateral Incisor(#2)	D3. 3	D3. 5	D4. 2
Canine(#3)	D3.5	D4.2	
Premolar(#4 #5)	D3.5	D4.2	
Molar(#6 #7)	D4.2	D5.0	D5.6



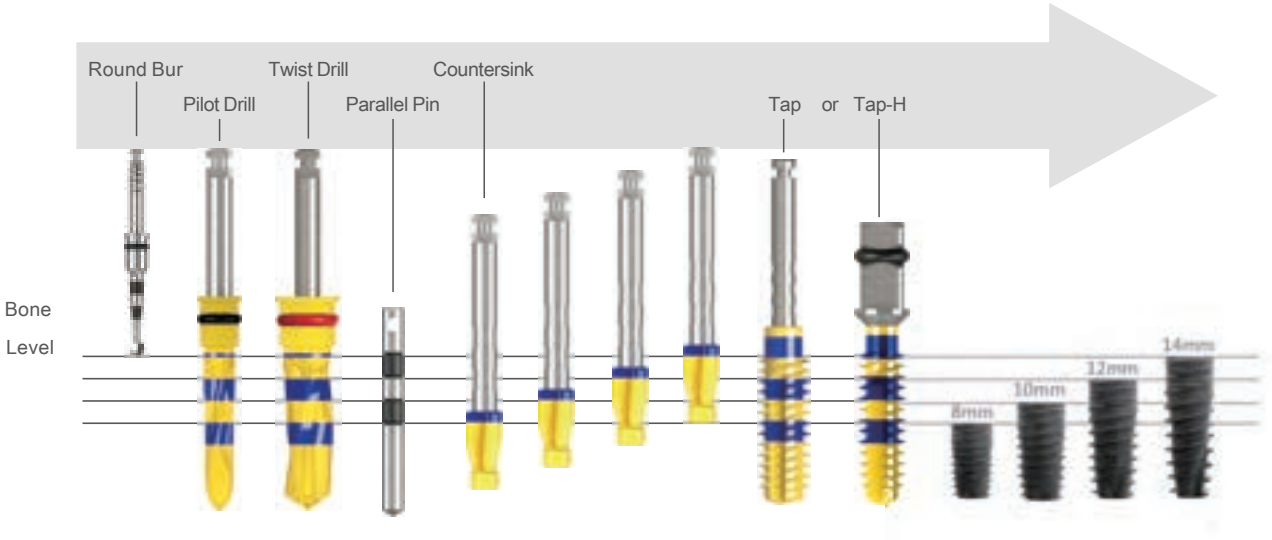
Preparation about drilling sequence in relation to bone quality

D3. 3	D2.0	D2.8				
D3. 5	D2.0	D2.8	D3. 0(D1)			
D4.2	D2.0	D2.8	D3.5	D3.8(D1)		
D5.0	D2.0	D2.8	D3.5	D4.2	D4.5(D1)	
D5.6	D2.0	D2.8	D3.5	D4.2	D4.8	D5.2(D1)

Caution : The countersink for reducing hard cortical bone shall be applied during hard bone; The tap producing thread profile shall be applied during hard bone.

Procedures of Surgical Operation

Drilling Procedure

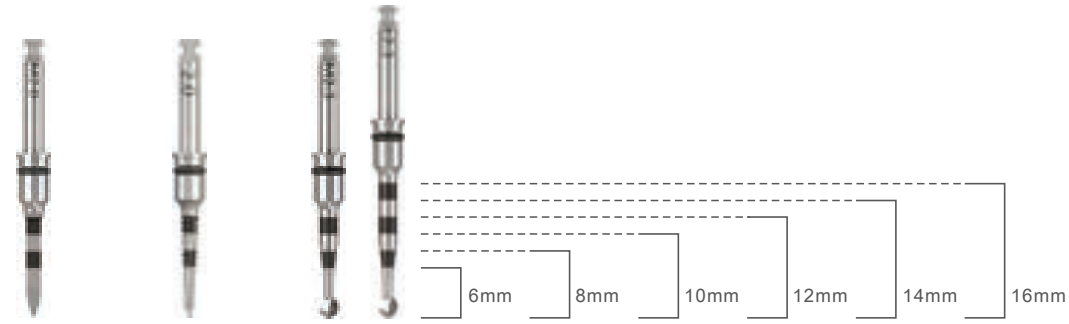


Step 1

Make a proper incision placement of gingiva and periosteum, and expose the alveolar bone.

Step 2

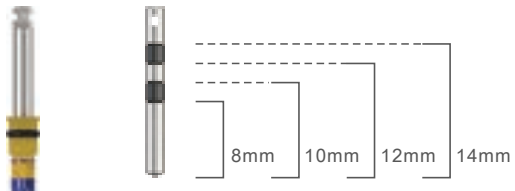
Use lance drill or round burr from initial area of surgical box for positioning as well as leveling onto cortical bone. The 800-1200rpm rotation is recommended with cooling sterile normal saline.



Lance Lindermann Round bur

Step 3

Make a 6mm depth by pilot drill with 1200rpm. Complete the drill to needed depth after checking the axial direction through parallel pin. The dentist can observe and check the drilling axis related to opposing tooth.

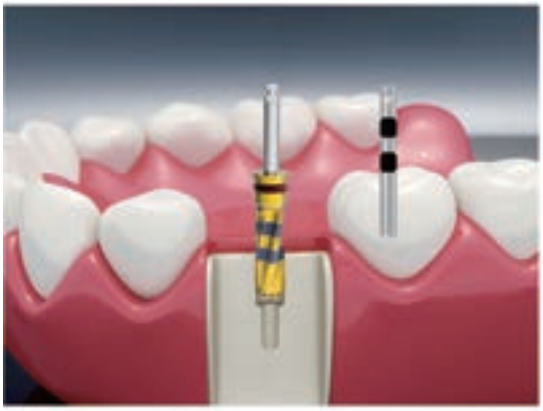


Parallel Pin

Pilot

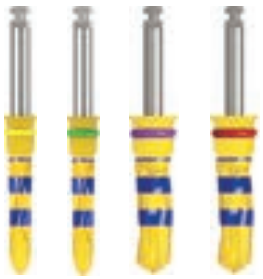
Procedures of Surgical Operation

Step 4

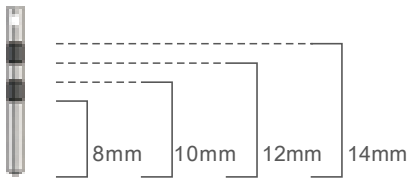


The twist drills will be used for enlargement of preparation hole.

10mm



Twist Drill



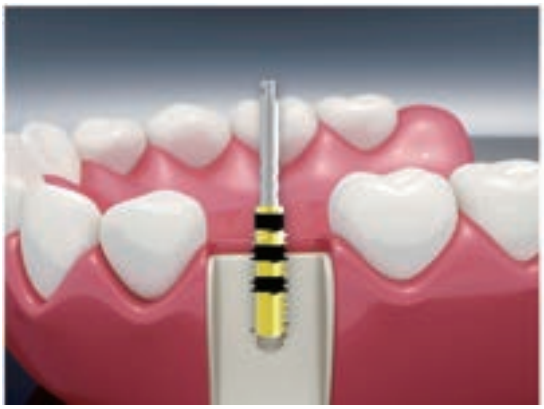
Parallel Pin

Step 5

The countersink drill can shape the cortical bone area. The recommended ration speed is 800rpm.

D1-D2 Bone Quality : Immersion more until laser marking No. 1 position D3-D4 Bone Quality : Immersion less until laser marking No. 2 position

Step 6

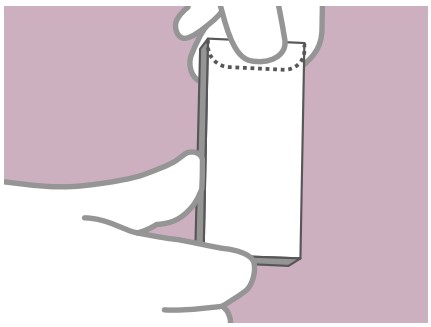


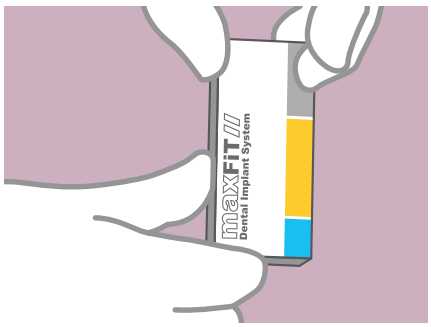
Tap can make a pre-thread for hard bone.
The recommended rotation speed and applied torque upper limit are 15rpm and 50Ncm, respectively.

• HP • Ratchet

Procedures of Surgical Operation

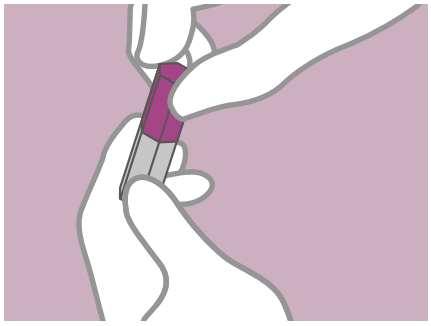
Step 7





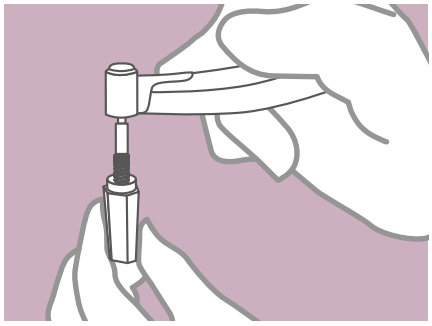
Open outside carton.

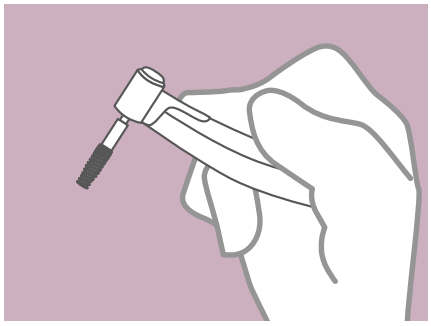
Step 8



Open blister and plastic bottle. The bottle can be operated with single hand.

Step 9





Use handpiece or hand fixture driver to draw implant out. The line of laser marking must be the same level with platform of implant top before drawing out.

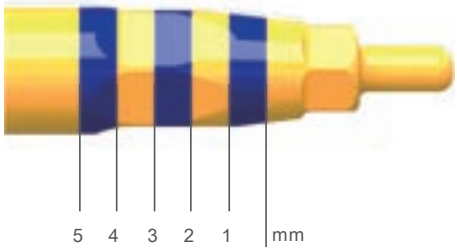
Fixture Driver for OPI Implant system

The straight type diameter of 3.3mm and 4.2mm, and ball type use the specific OPI fixture driver. The straight type diameter of 5.0mm and 5.6mm use the fixture driver which is also applied to two piece implant.

·OPI ·Ball

Step 10

Place implant with fixture driver into preparation hole. The rotation speed and torque are recommended by 15rpm and 35Ncm. The torque rises in case of hard bone. The line of laser marking can help implantologist to measure gingival thickness if flapless surgery.



·HP ·Ratchet

Step 11

The cover screw can be drawn out from top of plastic bottle. Use hex driver to tight cover screw or healing abutment into implant. The recommended torque is 15Ncm.

Healing Abutment

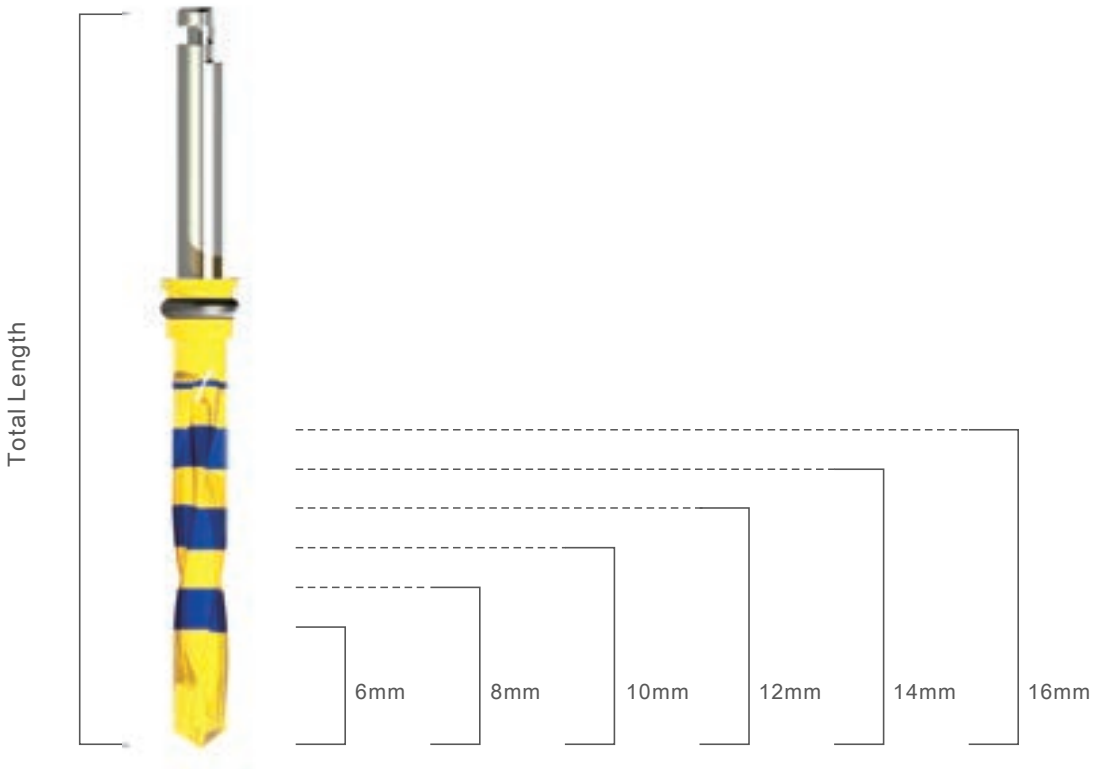
Cover Screw

Procedures of Surgical Operation

Step 12

Finally, stitch the soft tissue, and complete the surgery.

The marking in relation to depth



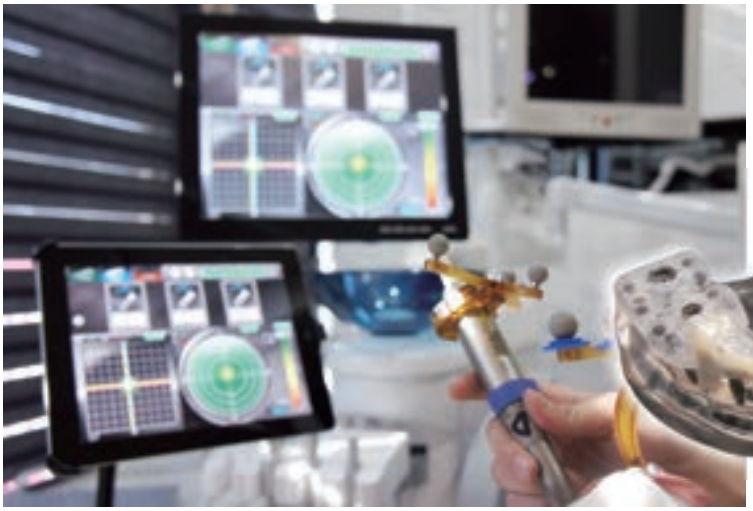
Surgical Navigation and Guide System

In the field of advanced precision and safety, iKICO provides dynamic real time monitoring and guided drilling. The patented navigation system and surgical guide are the option for our customers. In the other words, dentists can select both devices using navigation together with surgical guide.

Moreover, dentist sometimes only takes either navigation or surgical guide for operation. The Uni-Kit set including guided drill and its sleeve is applied for surgical guide.

The precision is around 0.5mm of linear direction and 4 degree of angulation. All academic data can be found in academic publication. The patient will obtain safety since the surgery pre-planning and precision operation.

With regard to preparation for surgical plan tooth cast can be accepted traditional or digital data. The edentulous or multiple missing teeth case on upper or lower jaw needs few fixation pin which must be pre-designed in SmilePlan software. There is no limitation regarding guide fabrication. The surgical guide can be fabricated by 3D printing technology or CAD/CAM with traditional suck-down technique.



Academic Publications

1. C-K. Chen, D-Y, Yuh, C-F. Tsai, P-J. Kuo, and C-Y Chiang (2015). In Vitro Accuracy Assessment of a Surgical Navigation System for Dental Implantology. J Taiwan Periodontol 20(4), 276-287.

2. T-H Chan (2016). Utilize Scamper to Design a Navigation System for Dental Implant. ICASI . Poster.

3. J-P. Tsao, M-T. Chang, C-J. Chen, and M-Y. Lin (2017). Dynamic Navigation Implant Surgery to Restore Edentulous Ridge : A Case Report and Literature Review. Poster.

4. M-T. Chang and M-Y, Lin (2017). Implant Placement Accuracy of Combined Static and Dynamic Navigation System - A Preliminary Report. JSOMS. Poster.

5. C-F Tsia, and C-C Chen (2018). Evaluation of the Accuracy between Navigation System, Laboratory Guide and Free Hand in Implantology. Taiwan Academy of Implant Dentistry. Poster.

6. K.C. Chiu, D. Shih, M.D. Chiang, Z. Y. Lee, Z.Y. Chen, M.G. Shieh, G.W Lu, and Y.S. Shieh (2018). Image-Guide Implant System Efficiently Reduced Surgical Anxiety – A Preliminary Result. IADR-SEA & 29th SEAADE. Poster.

7. M-S Huang, and C-F Tsai (2018). Real-Time Navigation Implant Surgery to Reconstruct the Edentulous Area : A Clinical Case and Literature Review. Academy of Taiwan International Oral Implantologists. Poster.

8. M-T Chang, and C-J Liu (2018). Use of a Dynamic Navigation System with Static Guide in Dental Implant Surgery. Taiwan Academy of Implant Dentistry. Poster.

9. T-M Sun, T-H Lan, C-Y Pan, and H-E Lee (2018). Dental Implant Navigation System Guide the Surgery Future. Kaohsiung Journal of Medical Sciences. 34, 56-64.

Other Information

Contraindication

The pre-surgery evaluation must be performed by implantologist. The professional textbook and clinical manual must be referenced if necessary. The implant needs sufficient alveolar bone for supporting and receiving biomechanical loading. The following situation is probable to affect result of osseointegration process including low bone quality, alcohol abuse, drug abuse, smoking, bruxism, temporomandibular joint disorder, periodontal disease, and systemic disease such as diabetes mellitus, osteomyelitis, treatment by steroid, hormone therapy,coagulation disorder...etc.

Caution : The medicines such as alendronate, pamidronate, zoledronate, and ibandronate effecting bone growth or osseointegration shall be evaluated and stopped before treatment.

Side Effect

- Temporary chewing difficulty
- Inflammation and wound swelling
- Device broken
- Combined bone regeneration surgery
- Incomplete Bone integration
- Pain

Other Information

Sterilization and storage

The product with red label of non-sterile products shall be sterilized before use. The recommended parameters of sterilization temperature and time are 121°C and 20 mins, respectively. The sterilization may use different parameters in different sterilization device. On the contrary, the package with red label of sterile products including dental implant with cover screw was already performed gamma radiation sterilization when customer received.

The storage condition for MAXFITII implant system is recommended temperature 10-30°C and humidity 30%-75%. Please inform the original manufacturer, Taiwan Implant Technology Company Ltd., if package damaged. All products shall be for single use only.

Symbol of Package

Manufacturer	Manufactured Date	Warning	Single Use Only
			
Instruction for Use	**Expiration Date**	**Gamma Radiation Sterilization**	**EU Representative**
			
Production Records	**Model No./Ref. No.**	**CE Mark**	**Prescription Only**
			

Maintenance of MAXFIT Surgical Kits

Please use 75% alcohol for cleansing kits, do not use hydrogen peroxide. The tools of soft brush and following ultrasonic cleaner can be used to clean surgical kits after surgical operation. The surgical kit can't be cleaned over 2 hours, and the storage must be dry.

iKICO®
Implants

iKICO® 艾奇科

Dentistry Solutions

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