

Design

Convenient No-mount System

It is not necessary to dismantle the mount that previously made surgery more complicated. Implantation surgery procedure now becomes simpler and more accurate by using the fixture driver.



Double-thread

Due to the advanced thread design, the cortical bone is protected from damage and the implant has an excellent primary stability. It also prevents the absorption of cortical bone caused by bacterial infection.

Body-thread

The tapered-body implant provides outstanding inserting strength and excellent primary stability. It also reduces the possibility of touching adjacent teeth root during the implant insertion.

Cutting Edge

Dual cutting edges on both sections of double-thread and body-thread enable easy self-tapping and provide the excellent primary stability since they minimize the bone resistance.

Morse Tapered Surface

The abutment is easier to be inserted along the Internal 8° Morse Tapered Surface. Due to the wider contact area with abutment, the potential screw loosening is reduced.

Internal Torx Connection

Torx type connection is applied to the implant and the counterparts that prevent distortion caused by a strong torque.

DIO
IMPLANT
SYSTEM

DIO IMPLANT

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I nternal F ixture I nnovation

IFI Implant System

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It is not necessary to dismantle the mount that previously made surgery more complicated. Implantation surgery procedure now becomes simpler and more accurate by using the fixture driver.



DIO

Internal Fixture

IFI Implant System

PM: Collar 1.8mm
M : Collar 2.8mm

Implant Opening Procedure

IFI 3512PM

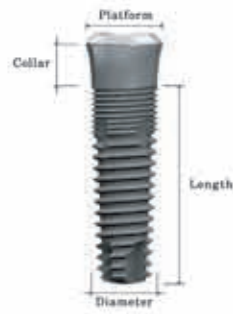


Platform(O)		4.8			
Diameter(O)	Collar(mm)	Length(mm)			
		8	10	12	14
3.5	1.8	IFI 3508PM	IFI 3510PM	IFI 3512PM	IFI 3514PM

Narrow



IFI 4012M



Platform(O)		4.8			
Diameter(O)	Collar(mm)	Length(mm)			
		8	10	12	14
4.0	1.8	IFI 4008PM	IFI 4010PM	IFI 4012PM	IFI 4014PM
	2.8	IFI 4008M	IFI 4010M	IFI 4012M	IFI 4014M

Regular



IFI 4812M



Platform(O)		4.8			
Diameter(O)	Collar(mm)	Length(mm)			
		8	10	12	14
4.8	1.8	IFI 4808PM	IFI 4810PM	IFI 4812PM	IFI 4814PM
	2.8	IFI 4808M	IFI 4810M	IFI 4812M	IFI 4814M
5.5	2	IFI 5508PM	IFI 5510PM	IFI 5512PM	IFI 5514PM

Wide

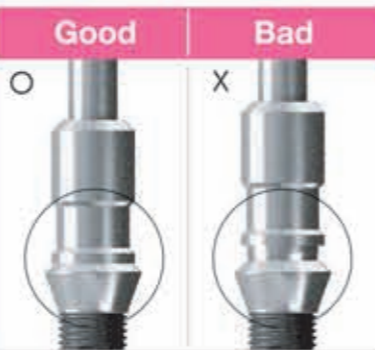


IFI 6512PM



Platform(O)		4.8			
Diameter(O)	Collar(mm)	Length(mm)			
		8	10	12	14
4.8	2.0	IFI 6508PM	IFI 6510PM	IFI 6512PM	IFI 6514PM
	5.5	IFI 6508PMR	IFI 6510PMR	IFI 6512PMR	IFI 6514PMR

Wide Neck



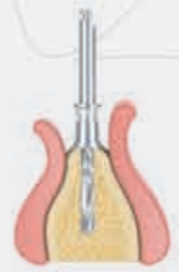
Internal Fixture Surgical Procedure

Guide Drill



-Drill through cortical bone and fix the position for implantation.
Set the drilling speed at 800-1500 rpm.

Ø 2.0 Initial Drill



-Choose an appropriate drill stopper for the desired depth.
-Use a drill extension in case of interference from the adjacent teeth.

Depth Gauge



-Check the depth and bottom of the osteotomy site after Ø2.0 mm initial drilling.
-The base line for laser marking is the bottom part of the gauge and measurements are at 8, 10, 12, 14, and 16 mm from the bottom.

Parallel Pin



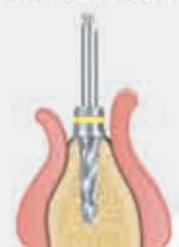
-Make sure that the osteotomy site is in the correct position and direction. After inserting the parallel pin, contact with the occlusal teeth should be checked.
-Insert smaller diameter section into the osteotomy site after Ø2.0 mm initial drilling.
-The position for final implant insertion can be checked using middle section Ø4mm of the pin.
-Insert 8.0 mm and 10 mm pin into the osteotomy site during surgery to check depth using x-ray.

Pilot Drill(PH 3512)



-Use Ø2.0/Ø2.7 pilot drill.
Used to widen the cortical bone and to make it easier to place the next level drill, without changing the direction.
-Drill to a depth of the grooved section with a speed of 800-1500 rpm depending on the bone quality.

Tapered Drill(DTI 35**)



-For the final drilling, select a drill with equivalent length to the implant among DTI35** group.
-The length of the drill, drilling depth, choice of stopper length, drill extension use, drill speed, irrigation and pumping motion etc. are all identical to Ø2.0 initial drilling procedure.

Narrow

Implant(IFI 35**)



- Connect the implant to the machine driver and drill at 15rpm. Finish with torque wrench.
- Do not apply excessive force with torque wrench.

Cover Screw



- Pull out the cover screw from the implant ampoule using 1.2 hexa driver.
- A headless may detach from the driver, therefore transfer it to oral cavity in an upright position.
- Fix cover screw at 10 Ncm.

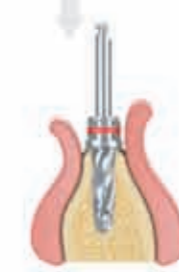
Suture



- Suture the gum with 4.0 silk or nylon.

Regural

Tapered Drill(DTI 40**)



- For the final drilling, select a drill with equivalent length to the implant among DTI40** group.
- The length of the drill, drilling depth, choice of stopper length, use of drill extension, drill speed, irrigation and pumping motion etc. are all identical to 2.0 drilling.

Implant(IFI 40**)



- Connect the implant to the machine driver and drill at 15rpm. Finish with torque wrench.
- Do not apply excessive force with torque wrench.
- Use drill extension if required.

Cover Screw



- Pull out the cover screw from the implant ampoule using 1.2 hexa driver.
- A headless may detach from the driver, therefore transfer it to oral cavity in an upright position.
- Fix cover screw at 10 Ncm.

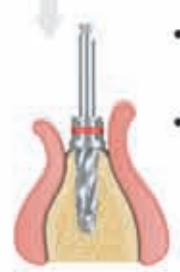
Suture



- Suture the gum with 4.0 silk or nylon.

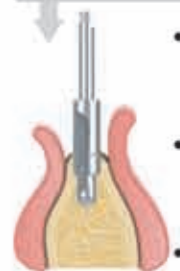
Wide Wide Neck

Tapered Drill(DTI 40**)



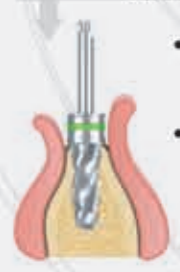
- For the final drilling, select a drill with equivalent length to the implant among DTI40** group.
- The length of the drill, drilling depth, choice of stopper length, use of drill extension, drill speed, irrigation and pumping motion etc. are all identical to 2.0 drilling.

Pilot Drill(PH 4812)



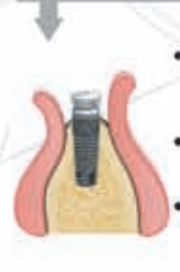
- Use 3.0/4.3 pilot drill. Widen the cortical bone to make it easier to use the next level drill, without changing the direction.
- Drill to a depth of the grooved section with a speed of 800-1500rpm depending on the bone quality.
- Drill speed should be 800-1500rpm, depending on the bony tissue.

Tapered Drill(DTI 48**)



- For the final drilling, select a drill with equivalent length to the implant among DTI48** group.
- The length of the drill, drilling depth, choice of stopper length, use of drill extension, drill speed, irrigation and pumping motion etc. are all identical to 2.0 drilling.

Implant(IFI 48**)



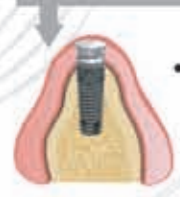
- Connect the implant to the machine driver and drill at 15rpm. Finish with torque wrench.
- Do not apply excessive force with torque wrench.
- Use drill extension if required.

Cover Screw



- Pull out the cover screw from the implant ampoule using 1.2 hexa driver.
- A headless may detach from the driver, therefore transfer it to oral cavity in an upright position.
- Fix cover screw at 10 Ncm.

Suture



- Suture the gum with 4.0 silk or nylon.

Common Use

Bone Boundary

	Narrow	Regular	Wide	Wide Neck
Double-thread Internal Diameter	3.1	3.7	4.4	4.4
Double-thread External Diameter	3.5	4.1	4.8	4.8
Drill Diameter	3.1	3.7	4.45	4.45

