

4.2x10.0mm
4.5x10.0mm
4.6x10.0mm

4.2x10.0mm
4.6x10.0mm
4.6x10.0mm

Digital Guided Implantation **OsstemGuide™**



OSSTEM[®]
IMPLANT



Contents

- I. Digitalization of Implant Surgery**
- II. OsstemGuide Workflow**
- III. OsstemGuide Contents**
- IV. OsstemGuide Surgical Procedure**
- V. Comparison of Guided Surgery Systems**

1. Digitalization of Implant Surgery



**Model Based
2-D Planning**

**Computer Aided
3-D Planning**

**Guided Surgery
& Immediate Loading**

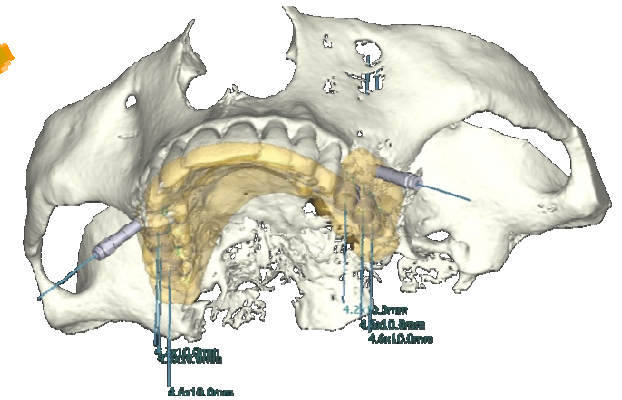
Experience and Intuition of Dentist	Computer Simulation	Surgical Template
<ul style="list-style-type: none">① Treatment plan② Place & diameter of implant③ Length & angle of implant	Treatment plan which is used 3D images by CT and S/W	Surgery according to plan → place, Path, depth Possibility of immediate loading
<ul style="list-style-type: none">✓ Personal limitation: 0.5mm✓ Difficulty of reappearance	✓ Difficulty of surgery according to plan	✓ limitation of final esthetic → improvement of precision

1. Digitalization of Implant Surgery

OSSTEM[®]
IMPLANT



Digital guided implantation TM
OsstemGuide



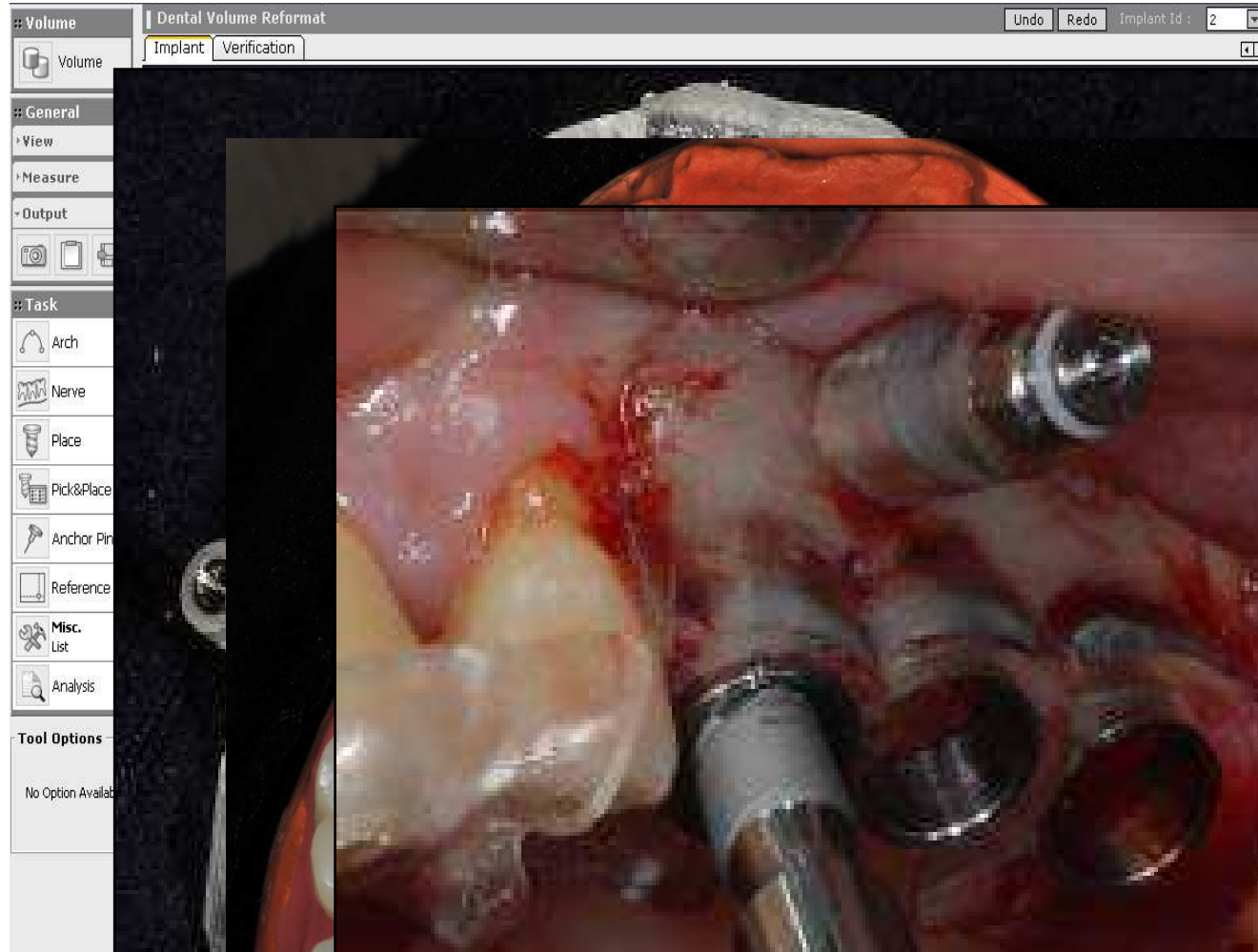
**Fast
Functioning**

**Esthetic
Treatment**

**Pain free
Surgery**

**Challenging
Case**

II. OsstemGuide Workflow



II. OsstemGuide Workflow



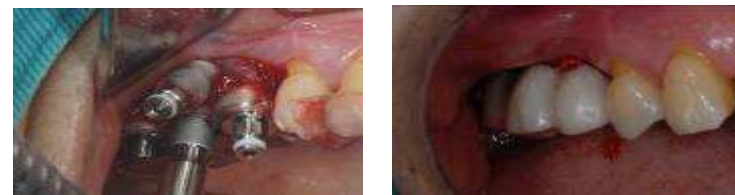
CT scan



Implant planning



Surgical Guide Fabrication

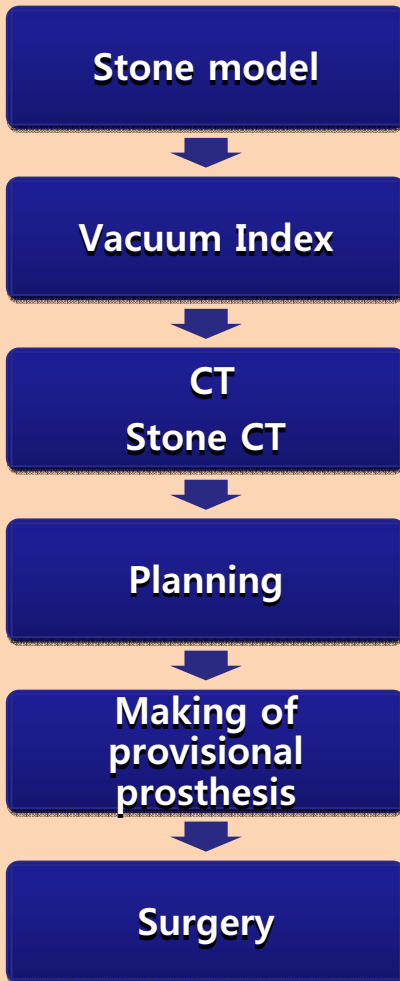


Guided Surgery & Prosthesis

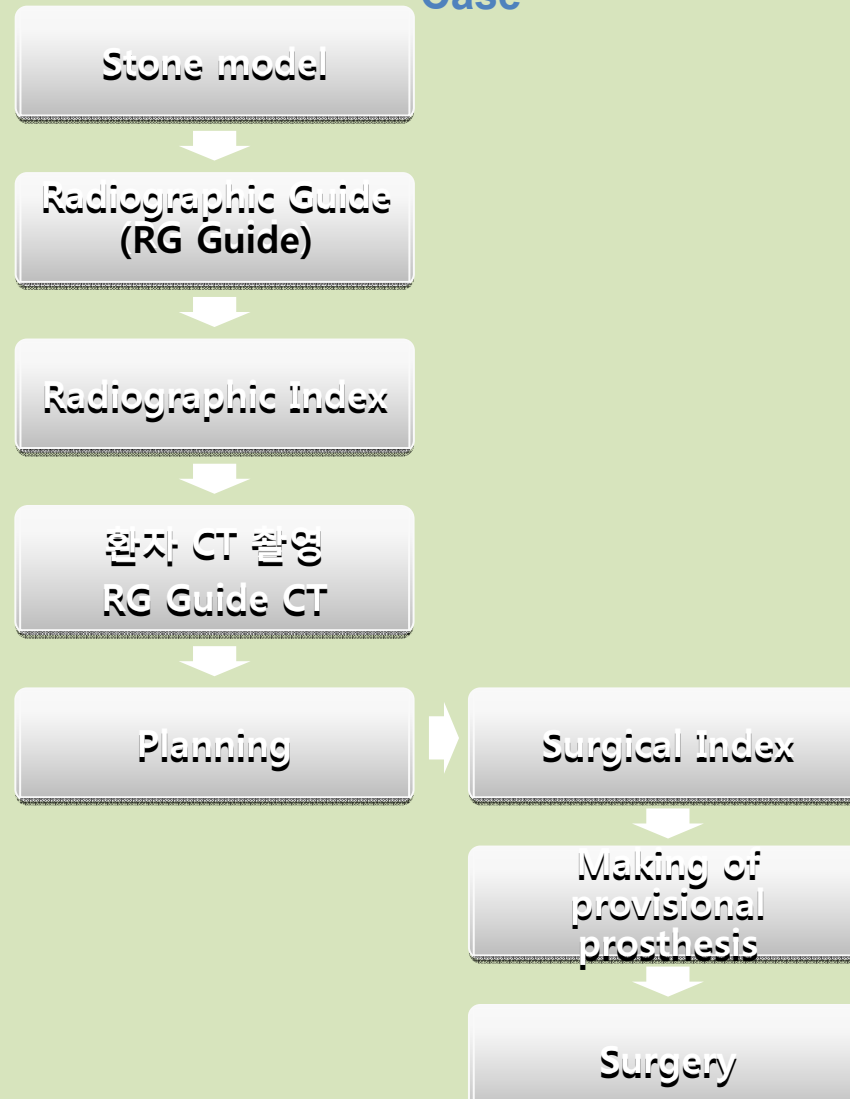
II. OsstemGuide Workflow



Partially Edentulous Case



Fully Edentulous Case

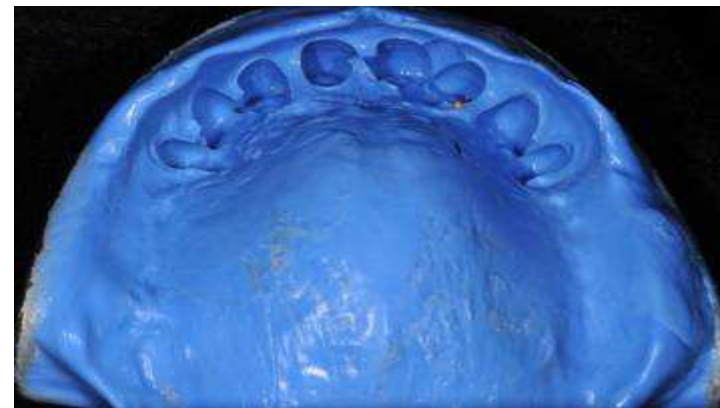
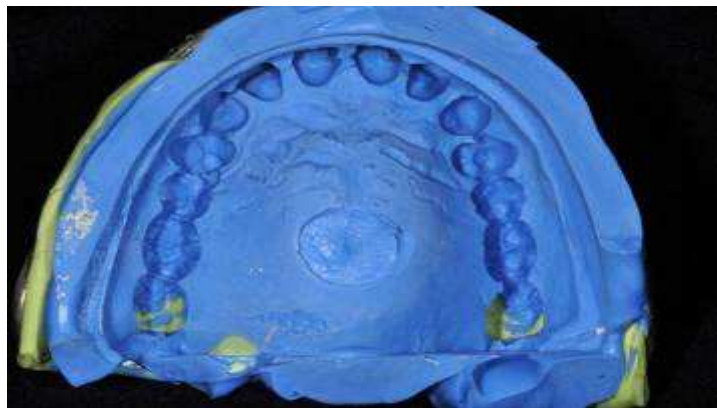


II. OsstemGuide Workflow



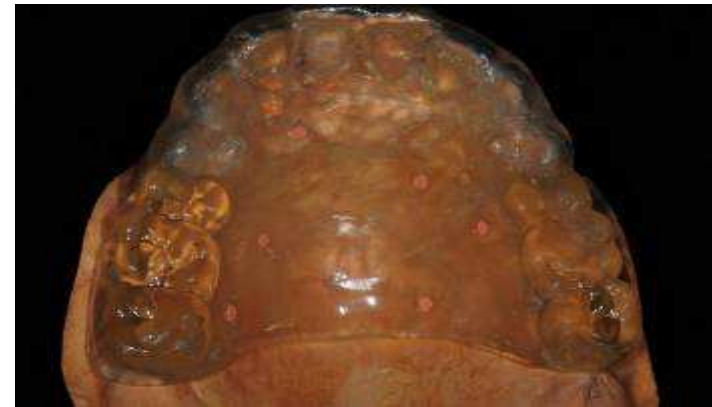
First visiting at hospital:

Diagnosis, Treatment Planning and Impression Taking





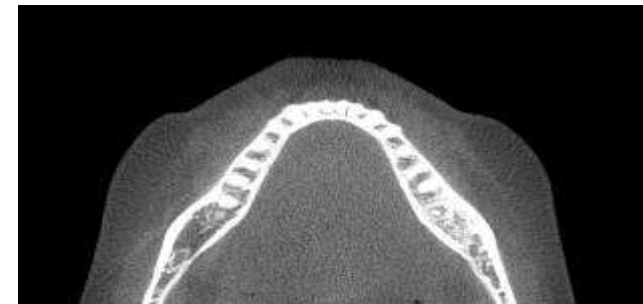
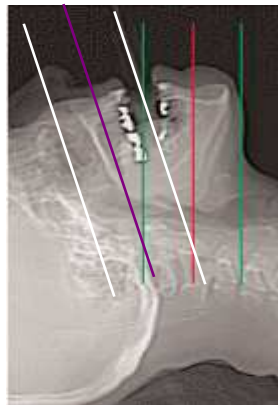
Making of Radiographic Guide for CT Scan Registration Point





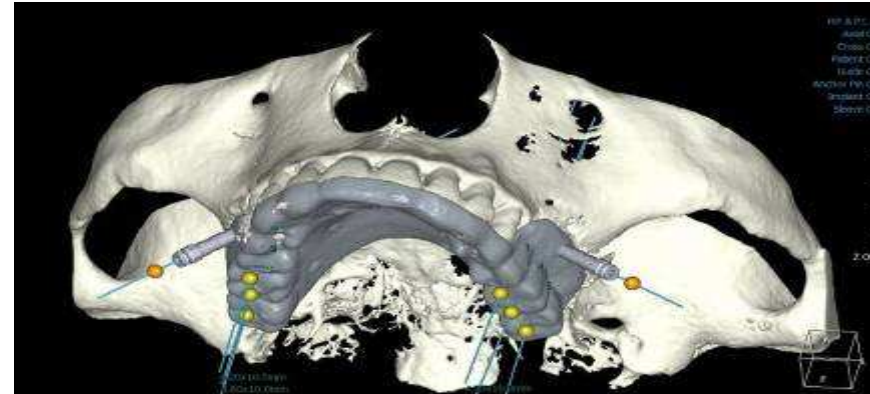
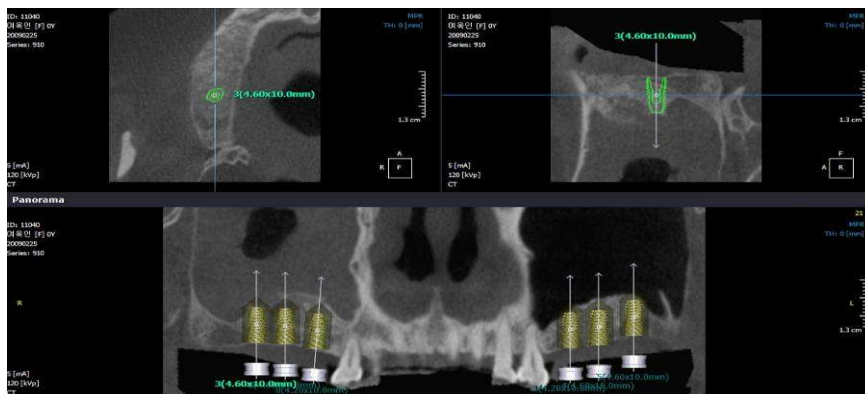
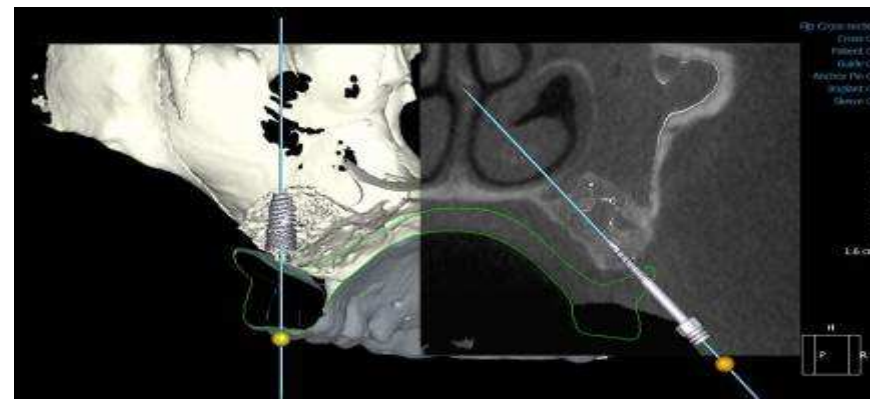
Second visiting: CT Scan (2 time)

- Scanning of the patient's oral cavity with Radiographic Guide
- Scanning of the Radiographic Guide





DICOM Data Import, Surface Registration and Implantation Planning using S/W

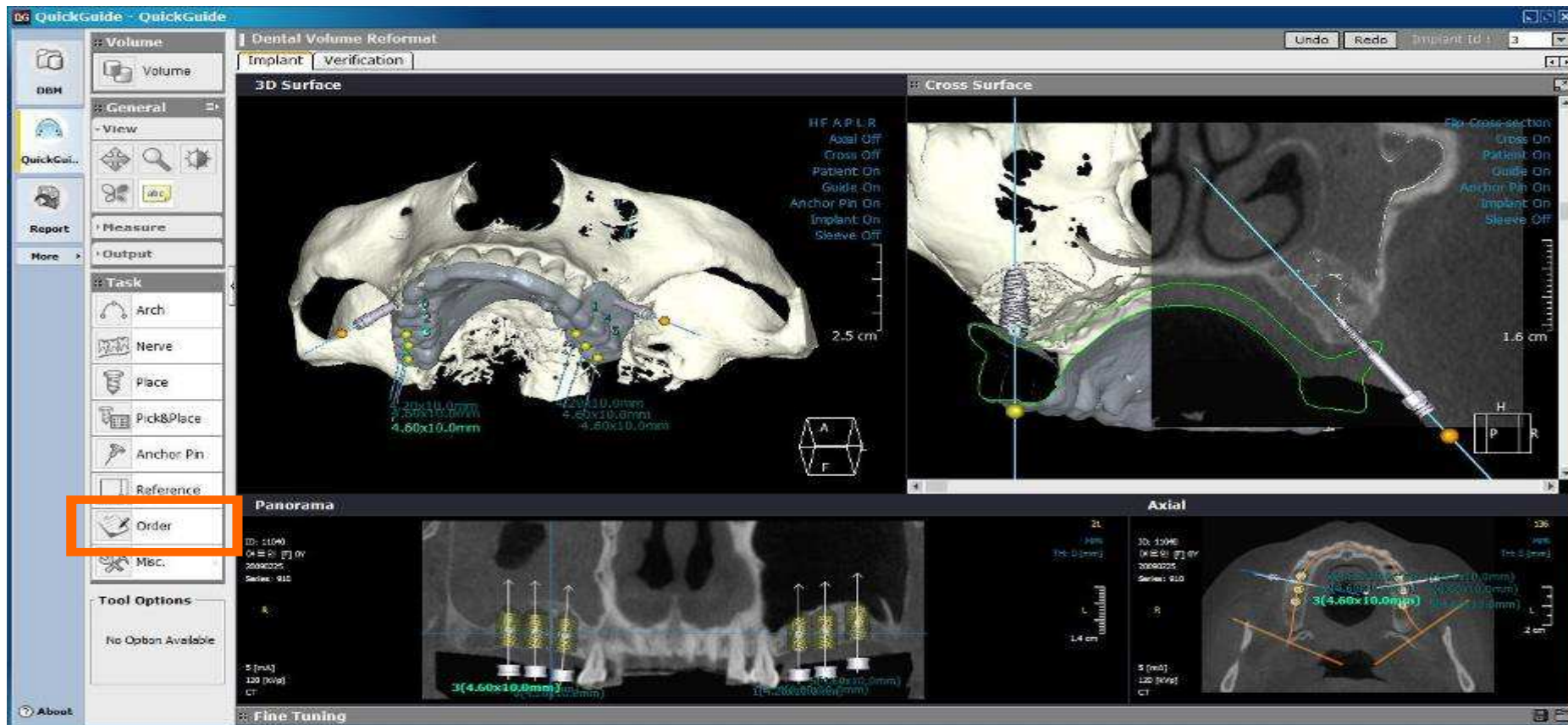


<http://Shetaktak.com>

II. OsstemGuide Workflow



Surgical Guide Order



II. OsstemGuide Workflow



Order of Implants and Components → Acceptance of order & surgical Guide information by Osstem Server

Request Form

환자 정보

환자번호: 330036 성명: 김우준
진료번호: 00-706-0843 e-mail:
주소지: (140011) 서울 동산구 일산동1가 152-1 산가

주요 정보

Implant Hole: 6 Anker Hole: 0
KTI Type: Osstem ver:

DICOM 정보

Study Date: 20200225
Patient ID: 1001 Age: 0Y
Date: 2020 Name: Qia-KO-sik Single Sex: F

Implant 정보

No.	Implant code	Body diameter	Length	Product Line	Manufacturer
1	OS3M3510R	3.700000	10.000000	OS III RSM	Osstem
2	OS3M407R	4.000000	7.000000	OS III RSM	Osstem
3	OS3M450R	4.000000	10.000000	OS III RSM	Osstem
4	OS3M3510R	3.700000	10.000000	OS III RSM	Osstem
5	OS3S5007R	5.100000	7.000000	OS III RSM	Osstem
6	OS3S5007R	5.100000	7.000000	OS III RSM	Osstem

Instruments 정보

No.	Name	Code	Preview	Description	Count	Price (ea)	del
1	RICINC	Wrench		Ratchet Wrench	1	100,000(1)	X
2	HDDR15LH	Driver		1.2 Hex Hand Driver_long	1	75,000(1)	X

Specific Comments (Optional)

Continued **Print**

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II. OsstemGuide Workflow



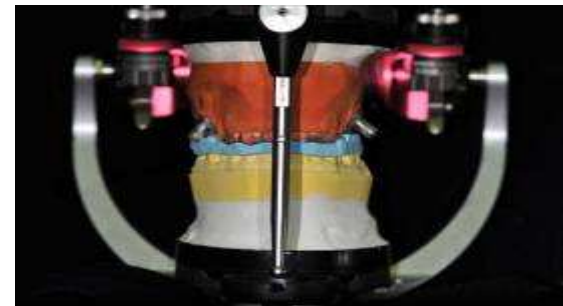
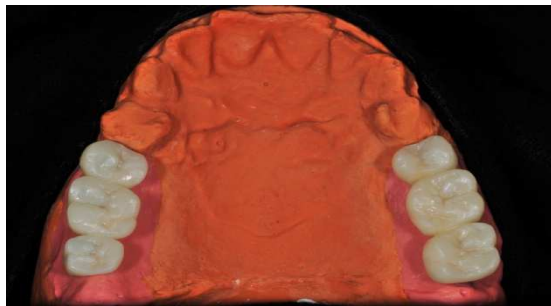
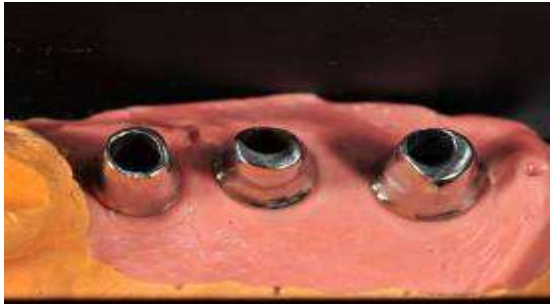
Making Surgical Guide using Cybermed RP (Order+ 4days) Delivery to the dentist including of Osstem products



II. OsstemGuide Workflow



Making of Prosthesis using Surgical Guide before Surgery



I. OsstemGuide Workflow



Surgery & Temporary Prosthesis Setting using Surgical Guide and Osstem Guide Kit



III. OsstemGuide Contents

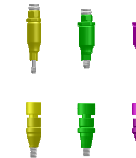


1. CBCT & Image Center

2. OsstemGuide S/W



3. OsstemGuide Surgical Kit

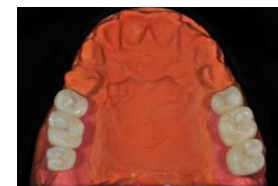


4. OsstemGuide Surgical Stent



5. Provisional Prosthesis

- Making using Stent
- Custom ABT (Custom -Made)



II. OsstemGuide Contents- S/W



Requirements for S/W Installation and Operating

- 1. CT : FOV Size which is possible Full arch scan**
- 2. CPU : More than 2.1 GHz Dual Core**
- 3. RAM : More than 3 GB**
- 4. VGA : More than Geforce 6600 , Radeon X700**

V. OsstemGuide Surgical Procedure



Osstem Taper Fixture & Hiossen Taper Fixture

GS III TS III SS III US III



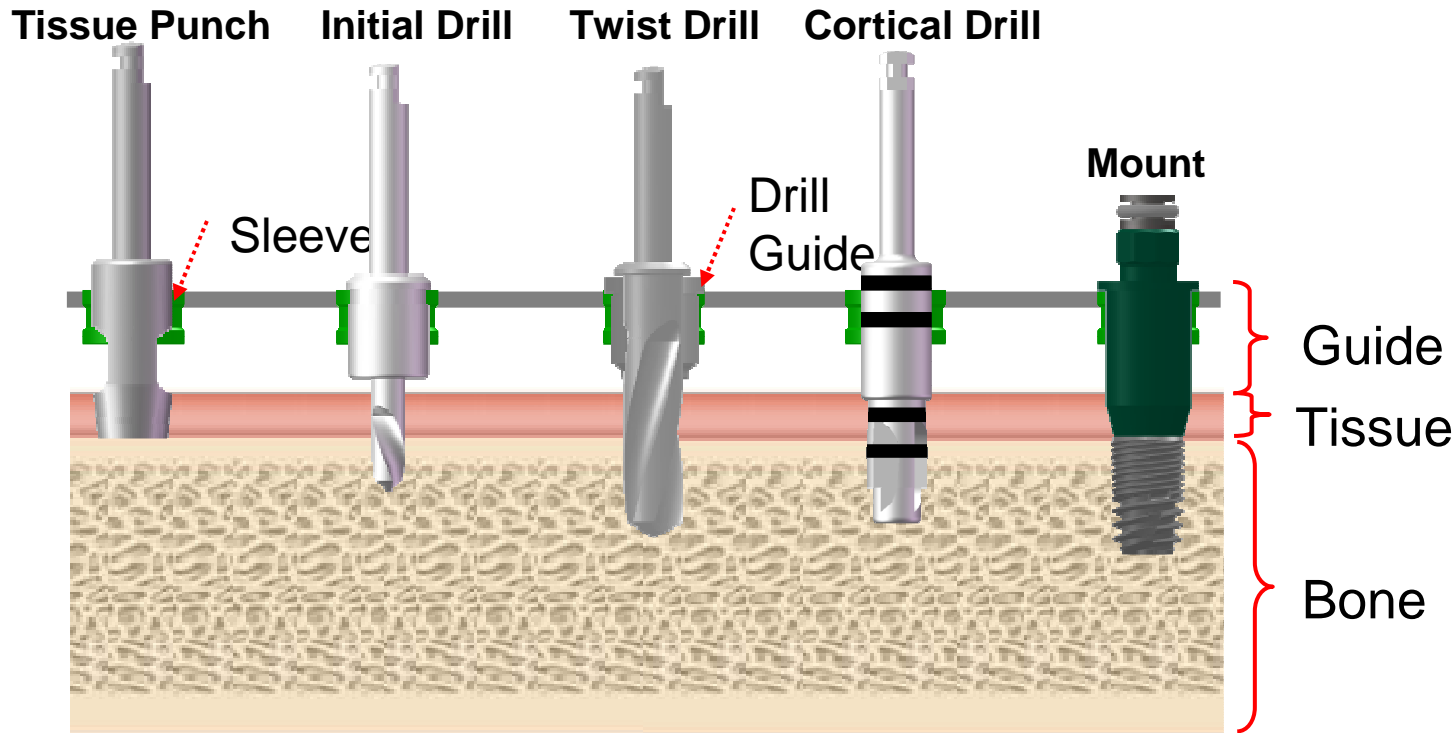
OsstemGuideSurgical Kit
= Taper Fixture Kit







V. OsstemGuide Surgical Procedure



Surgical Procedure



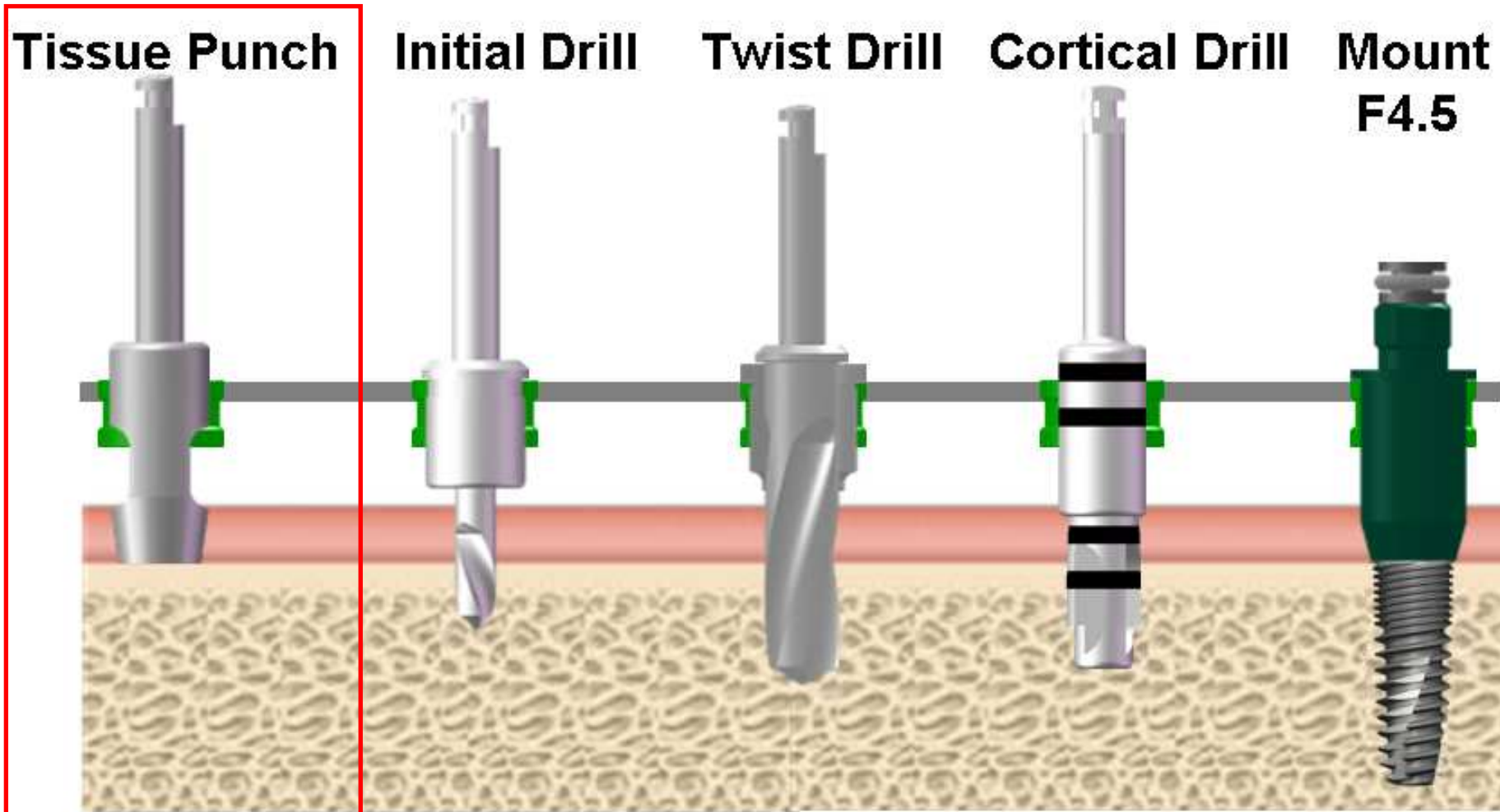
Specified
Drill

- ▶ $\Phi 3.5$ Fixture 
- ▶ $\Phi 4.0$ Fixture 
- ▶ $\Phi 4.5$ Fixture 
- ▶ $\Phi 5.0$ Fixture 

Specified
Sleeve
Mount



Surgical Procedure (F4.5)



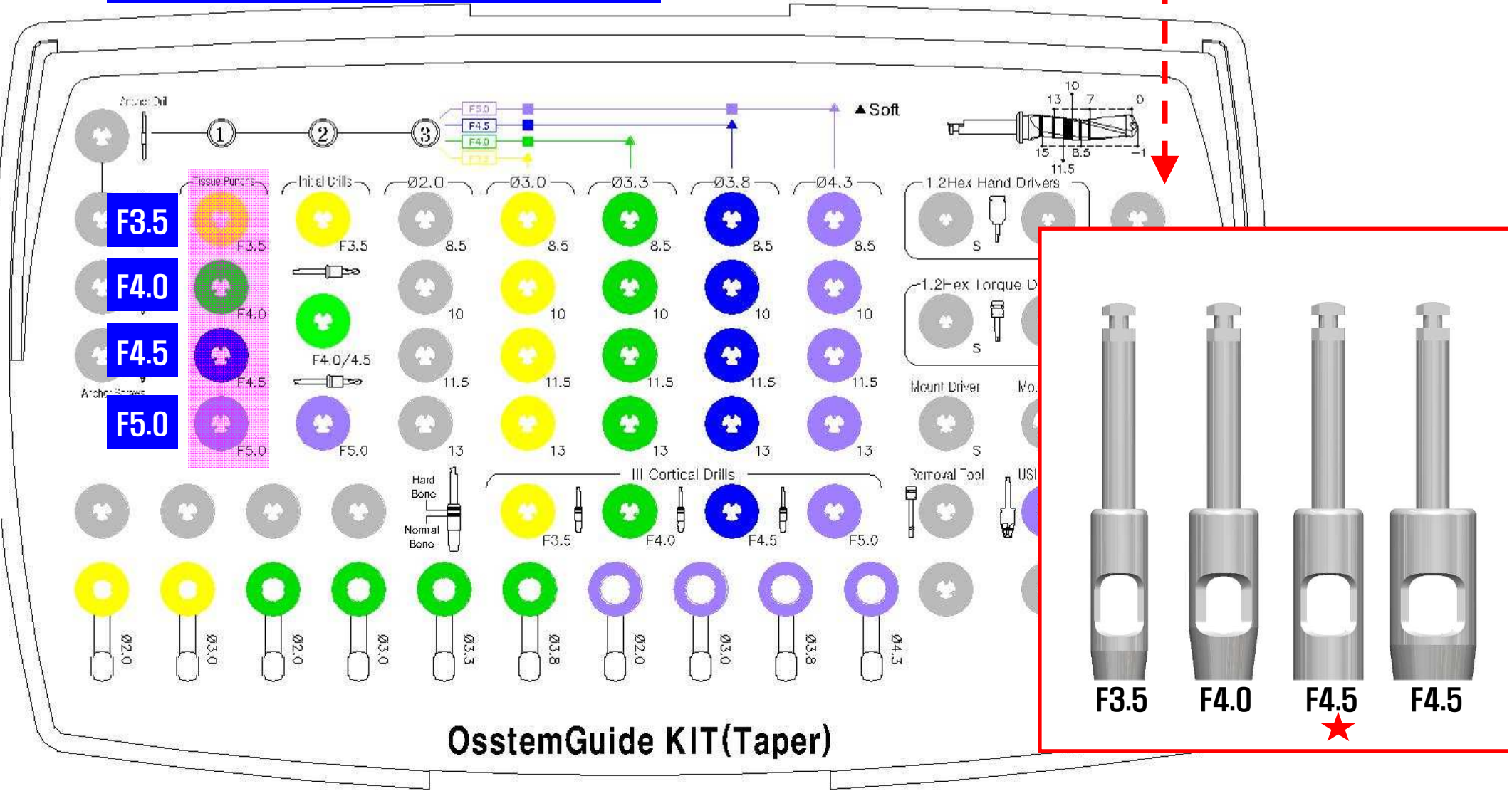
F4.5

Tissue Punch

IV. OsstemGuide Surgical Procedure



Tissue Punch



http://Shetaktak.com

OsstemGuide KIT(Taper)

IV. OsstemGuide Surgical Procedure



Surgical Procedure (F4.5)

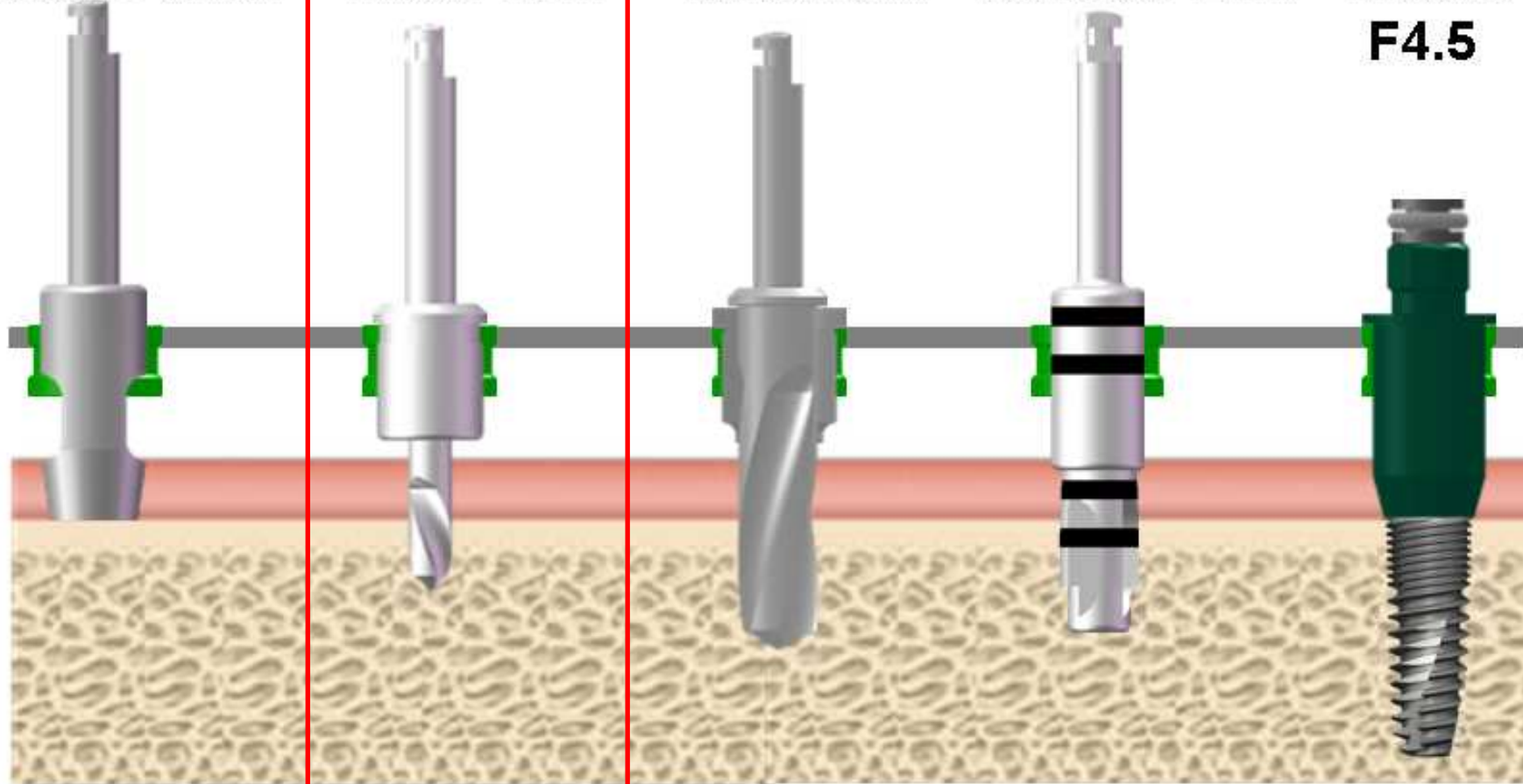
Tissue Punch

Initial Drill

Twist Drill

Cortical Drill

Mount
F4.5

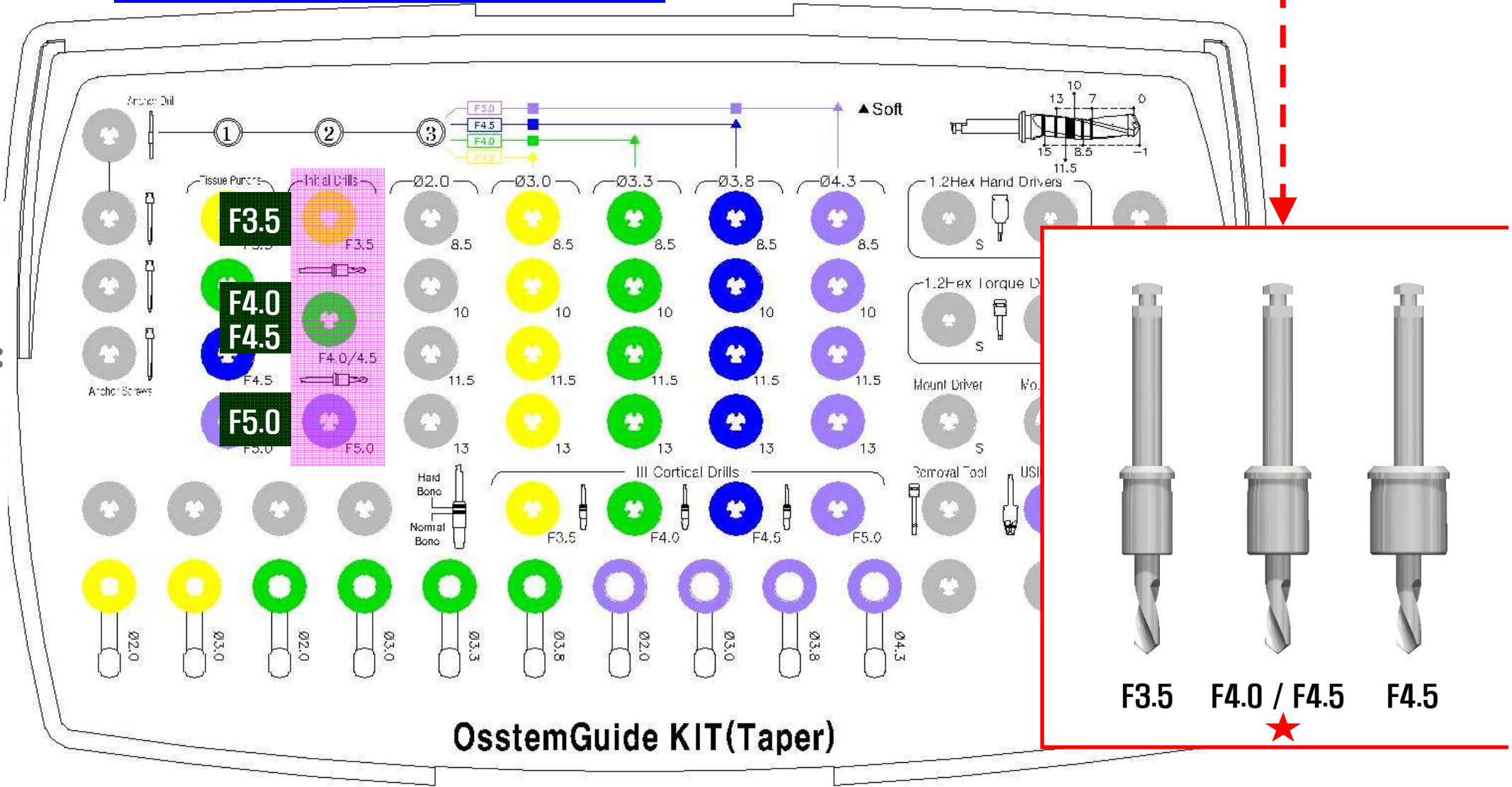


F4.0 / F4.5
Initial Drill

IV. OsstemGuide Surgical Procedure



Initial Drill



OsstemGuide KIT(Taper)

F3.5

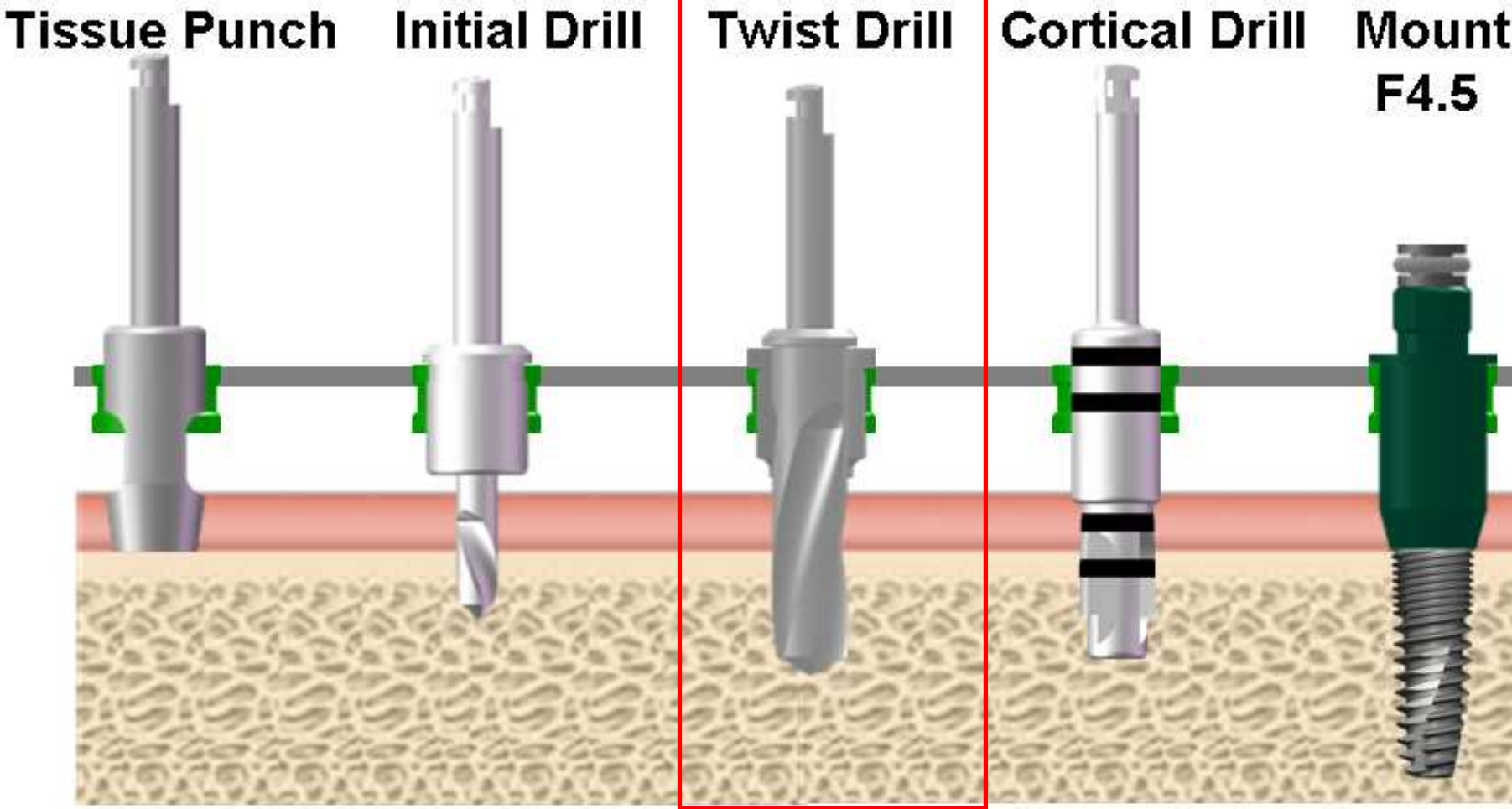
F4.0 / F4.5

F4.5

IV. OsstemGuide Surgical Procedure



Surgical Procedure (F4.5)

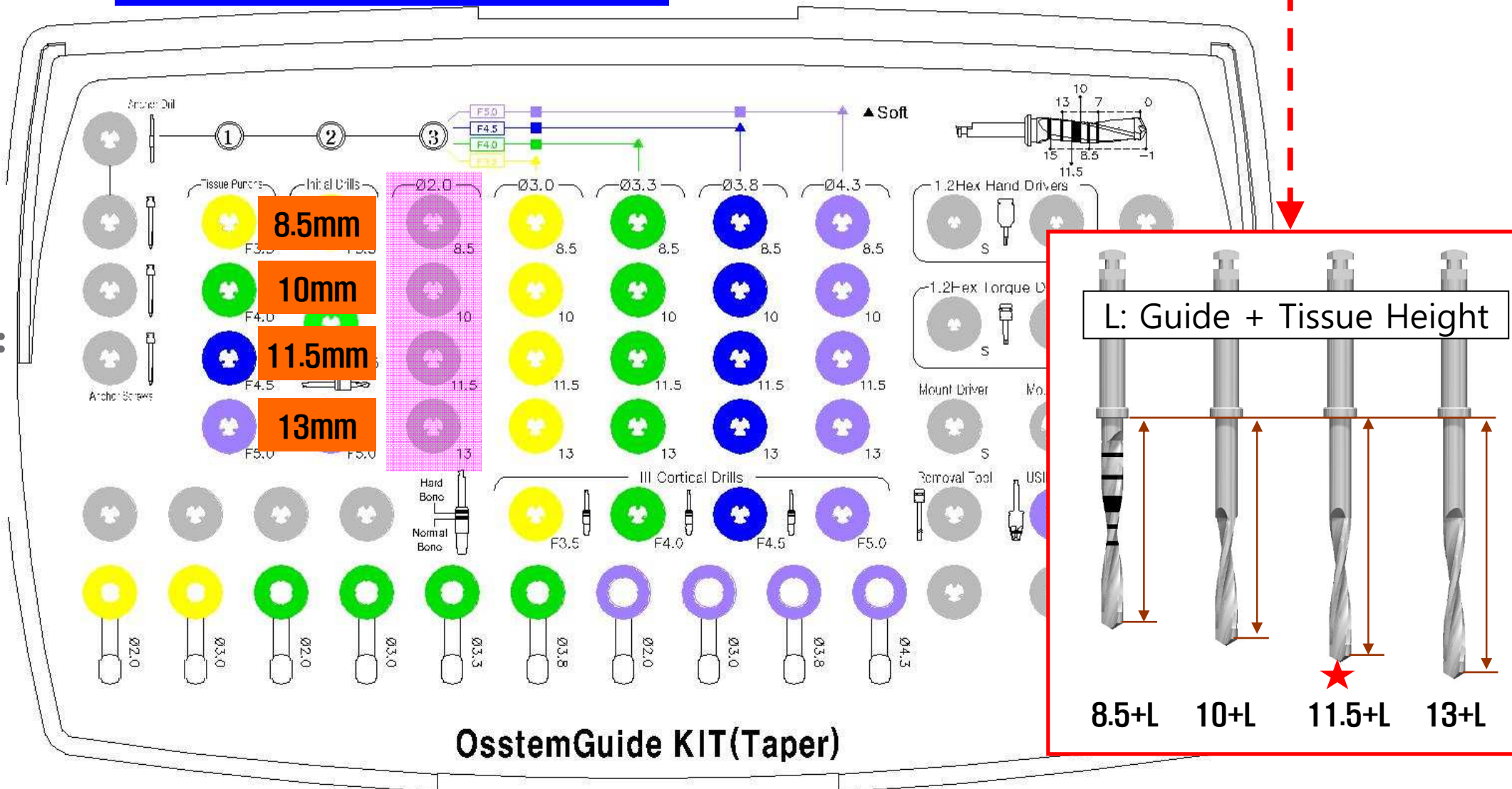


Ø2.0 → Ø3.0 → Ø3.8
11.5mm Twist Drill

IV. OsstemGuide Surgical Procedure



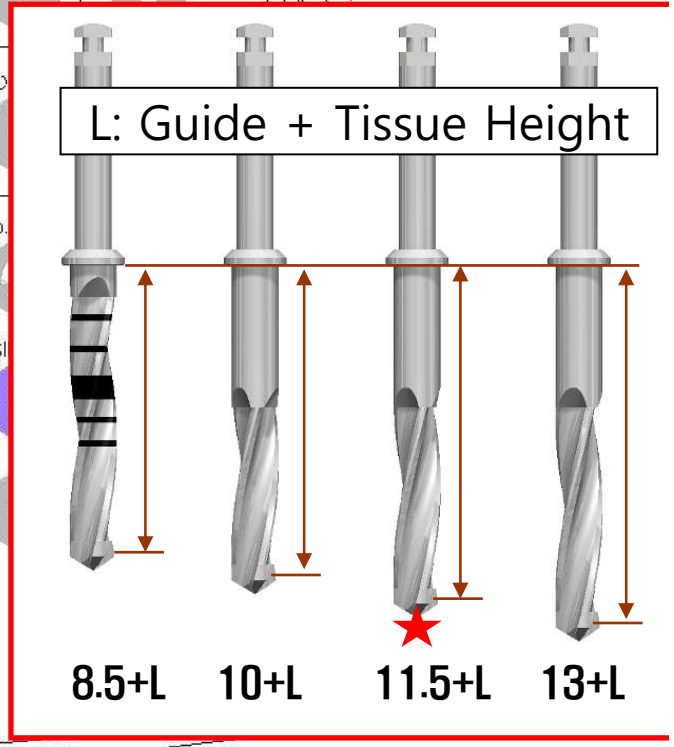
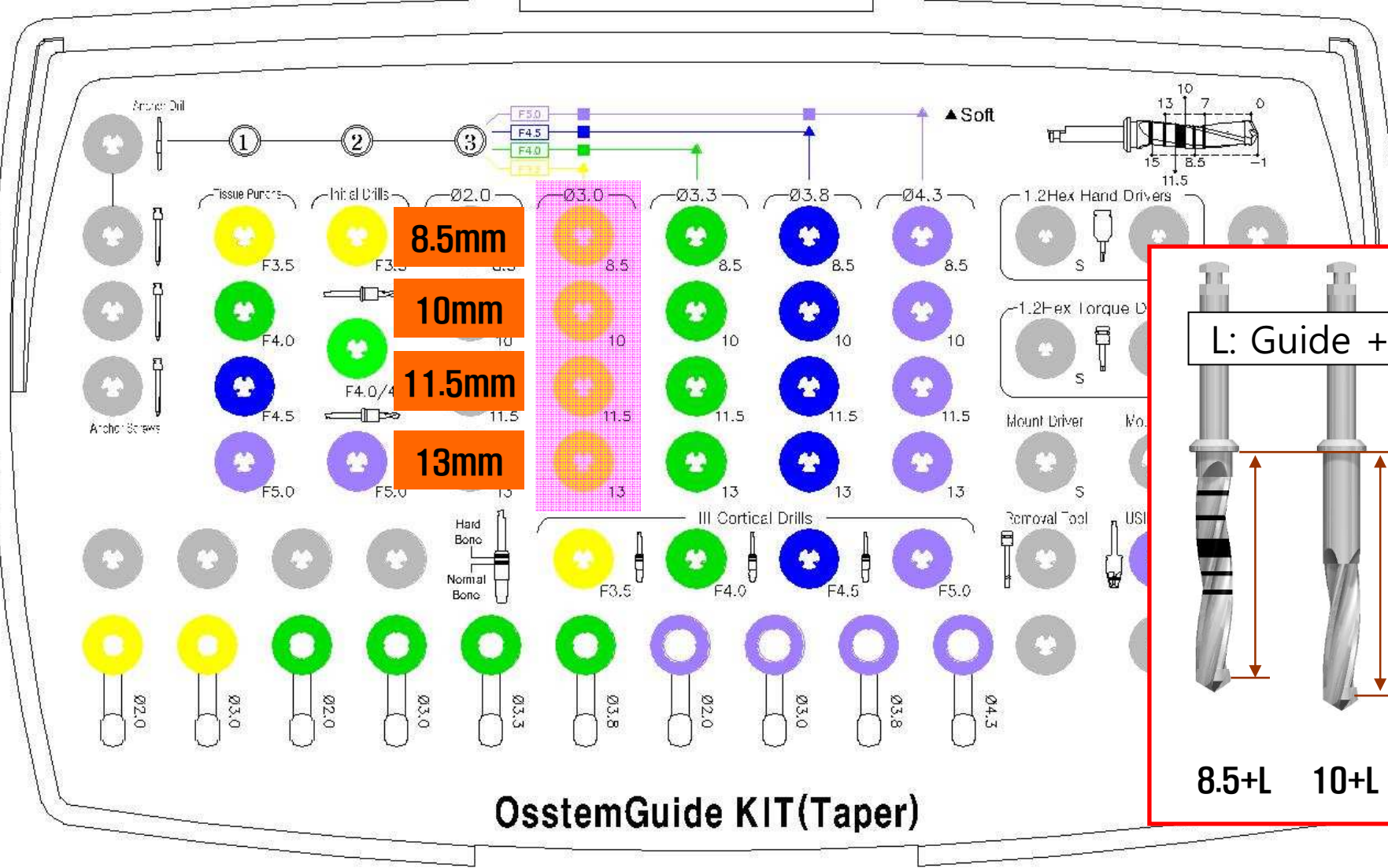
Ø2.0 Twist Drill



IV. OsstemGuide Surgical Procedure



Ø3.0 Twist Drill



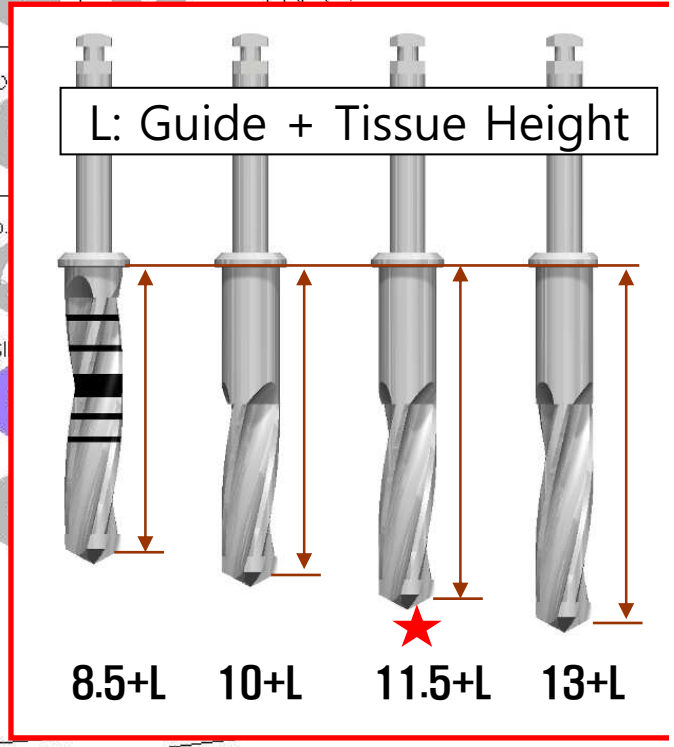
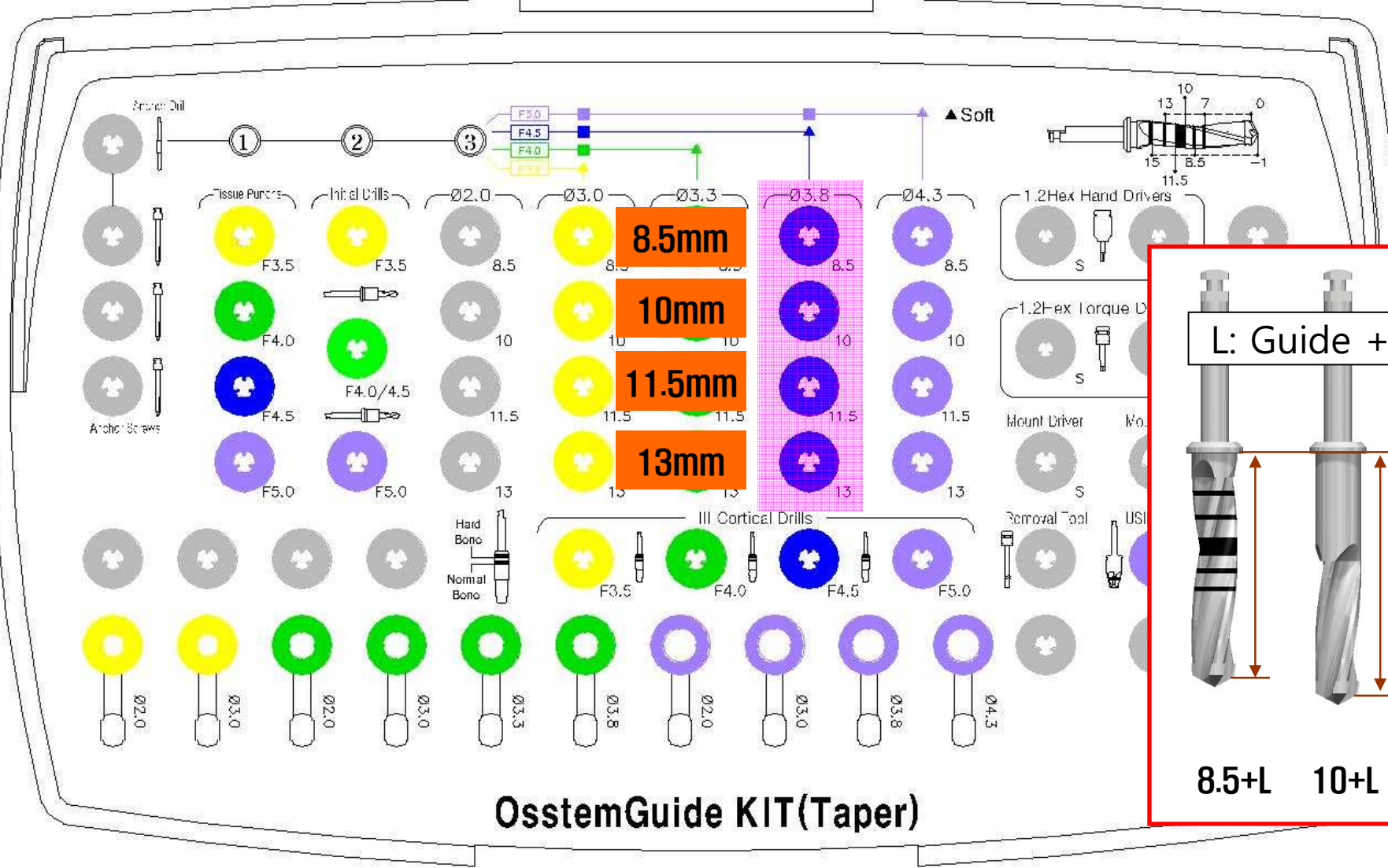
http://Sh.tak.com

OsstemGuide KIT(Taper)

IV. OsstemGuide Surgical Procedure



Ø3.8 Twist Drill



http://Sh.tak.com

OsstemGuide KIT(Taper)

IV. OsstemGuide Surgical Procedure



Surgical Procedure (F4.5)

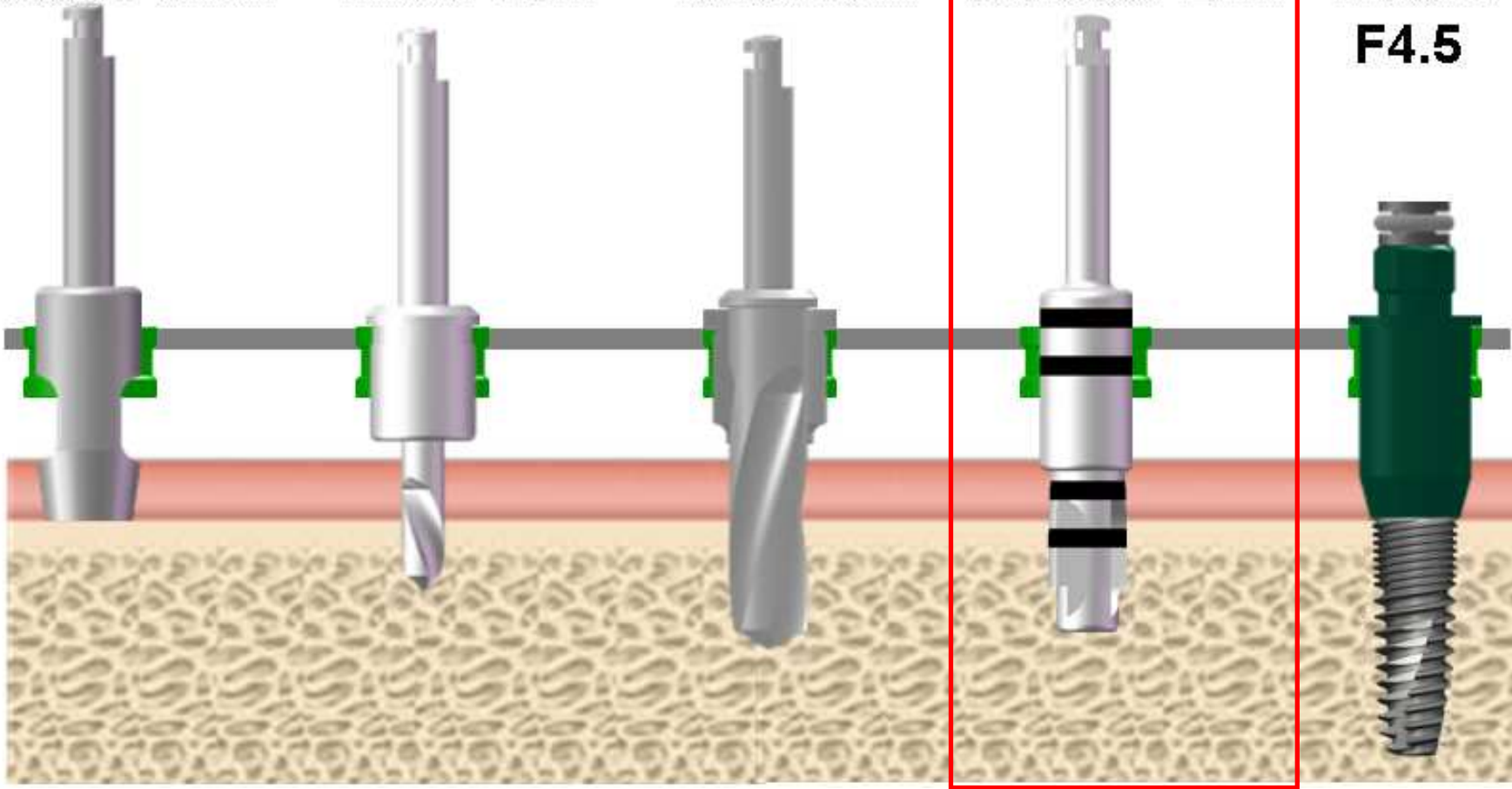
Tissue Punch

Initial Drill

Twist Drill

Cortical Drill

Mount
F4.5



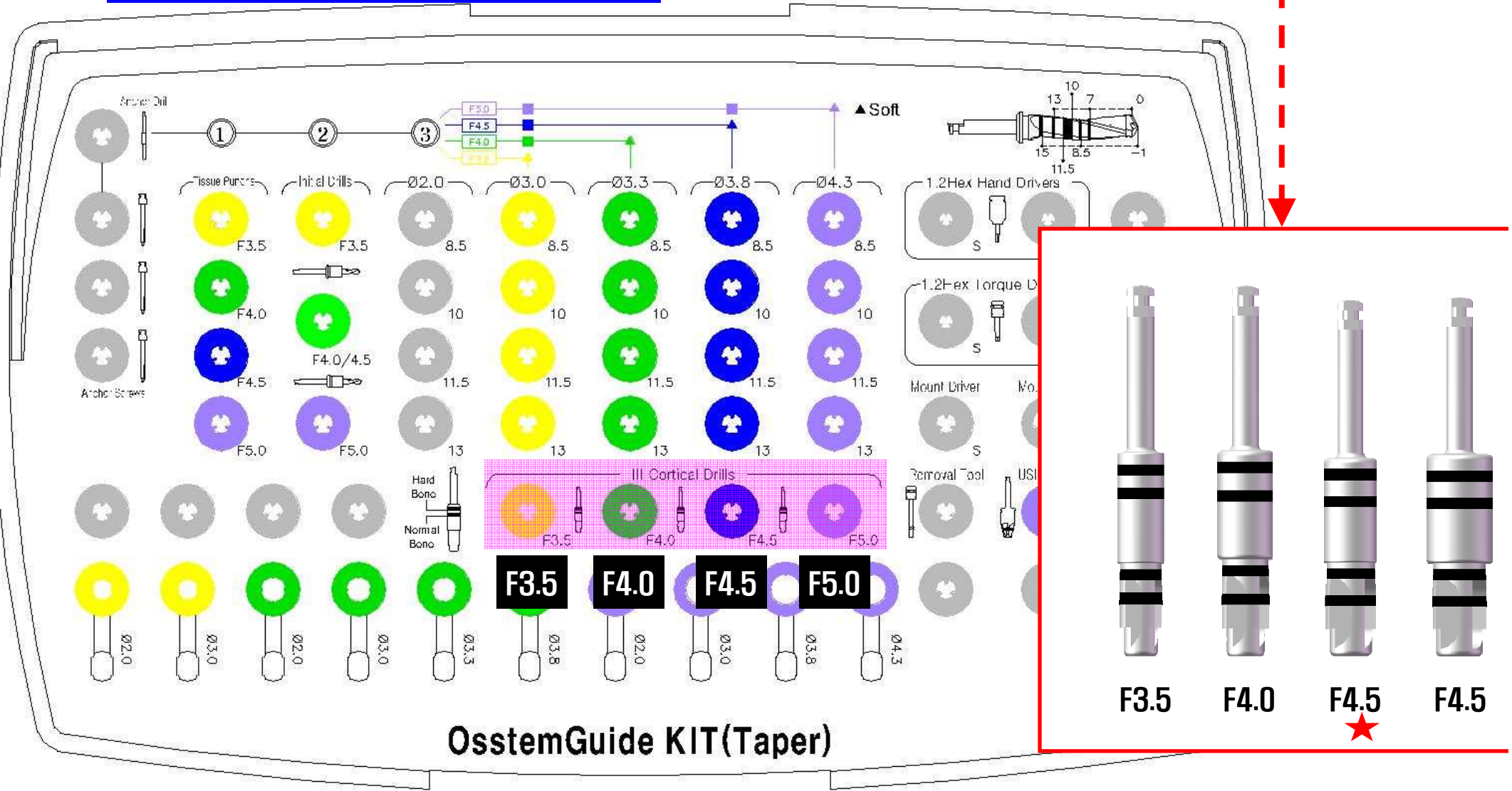
F4.5
III Cortical Drill

<http://ShivTak.com>

IV. OsstemGuide Surgical Procedure



III Cortical Drills



OsstemGuide KIT(Taper)

http://Shetak.com

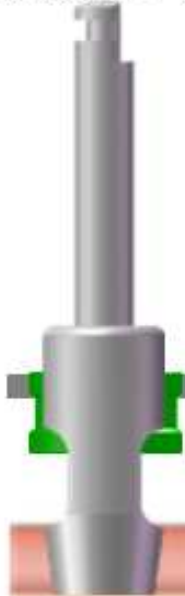
IV. OsstemGuide Surgical Procedure

OSSTEM[®]
IMPLANT



Surgical Procedure (F4.5)

Tissue Punch



Initial Drill



Twist Drill



Cortical Drill



Mount
F4.5



F4.5*11.5mm
GS III Fixture