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D-C-DGS-V1-201909-ENG

# DENTIS GUIDE SYSTEM

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Digital Guide



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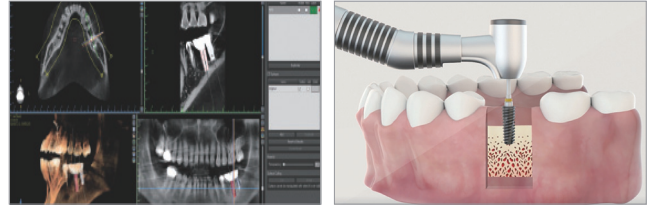
## V. SQ GUIDE With ZENITH 19

# SQ GUIDE system

SQ GUIDE is a Digital Implant Guide system optimized for SQ Implant Fixture.

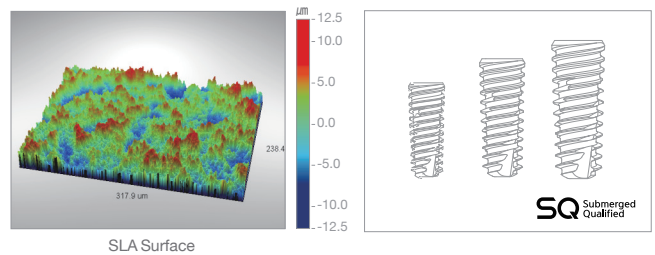
## Full Solution Guide system

- Place the implant in the correct position by virtually doing the implant placement through the software
- Insert the implant in where you make a plan and have One-day prosthetic setting



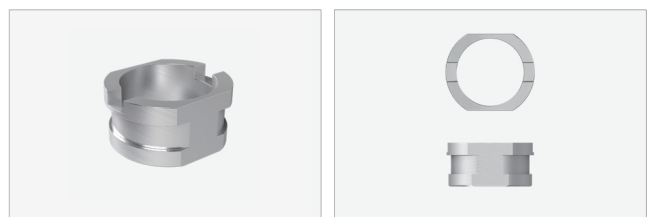
## Exclusive Guide System for SQ Implant

- Computer guided implant placement for SQ Implant that has the advanced SLA surface
- SQ Implant Fixture Size
  - Diameter :  $\varnothing 3.5$ ,  $\varnothing 4.0$ ,  $\varnothing 4.5$ ,  $\varnothing 5.0$
  - Length : 7,0mm, 8,0mm, 10,0mm, 12,0mm, 14,0mm



## SQ GUIDE Sleeve

- Titanium metal sleeve is used.
- SQ GUIDE Sleeve information
  - Base Offset : 9,0m
  - Inner diameter :  $\varnothing 5,35$
  - Length : 3,5mm, 4,5mm



## SQ GUIDE Software

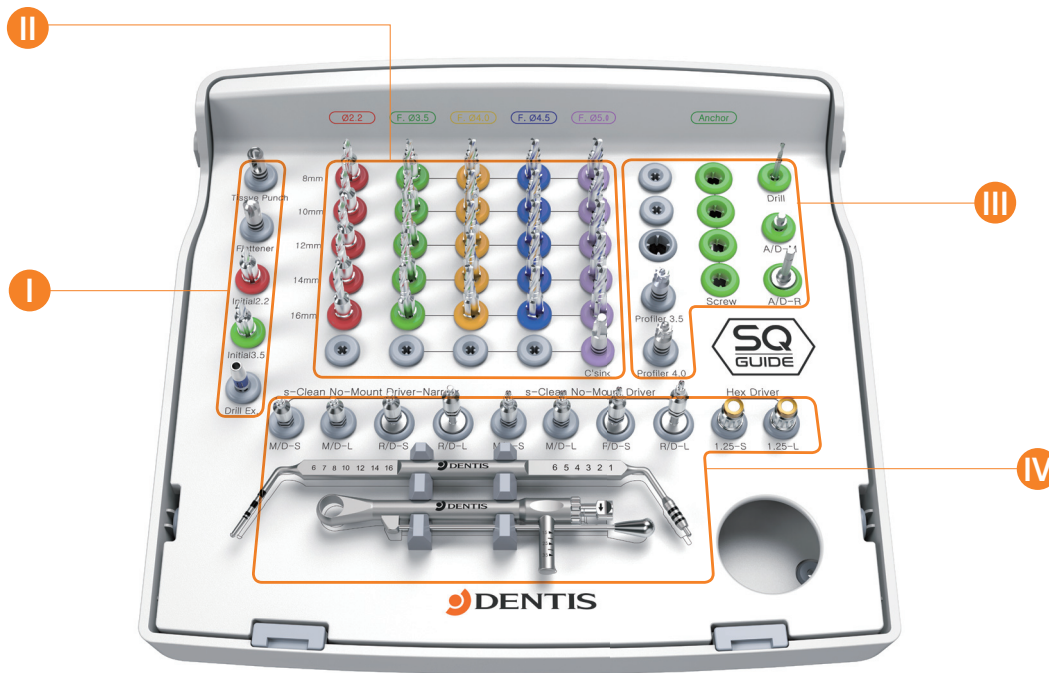
- SQ GUIDE is available with Dentiq Guide S/W or Implant Studio S/W.
- Chair-side production is possible with DENTIS Implant and sleeve library



# SQ GUIDE KIT



**Metal Sleeve**  
(Additional Purchase)



▲Product Code : DSQ GK

I.	Tissue Punch	Flattener	Initial Drill	Drill Extension	II.	Step Drill	Countersink			
III.	Profiler Drill	Anchor Drill	Anchor Screw	Anchor Driver	IV.	No-Mount Driver for Machine & Ratchet(Narrow)	No-Mount Driver for Machine & Ratchet(Regular)	Hex Driver	Depth Gauge	Torque Ratchet

# Why SQ GUIDE is Special?

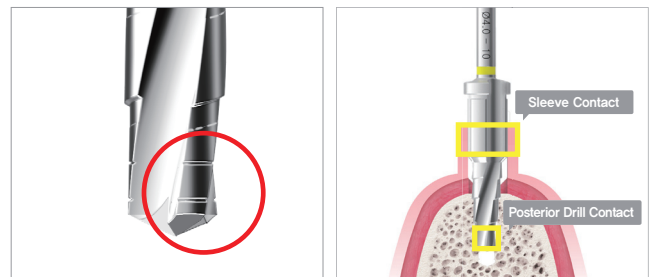
## Safety

- Add irrigation function to prevent bone loss and Bone Heating.
- Available exclusively for Dentis SQ Implant.
- Using a metal sleeve, prevents contamination of the surgical site by guide resin, which can be made during drilling.



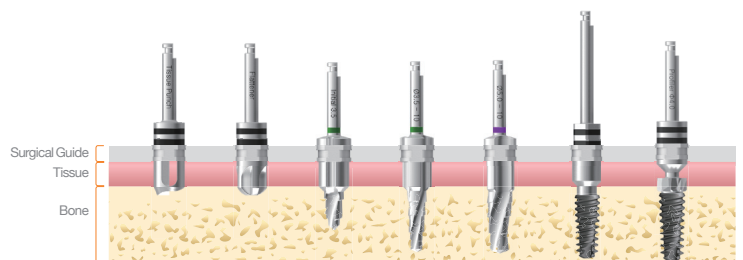
## Accuracy

- With the initial drill (F Ø3,5 STEP Drill), you can drill without slipping because of Side Cutting function.
- Drilling can be done precisely because the lower end of the trailing drill is fixed to the previously drilled place. And at the upper end of the guide hole, the barrel part of the drill is tightly fixed with the sleeve.



## Convenience

- By adopting the multi-stage drill, the number of drills can be minimized and the operation can be performed quickly.
- Added convenience : Tissue Punch, Flattener, Profiler Drill, etc.



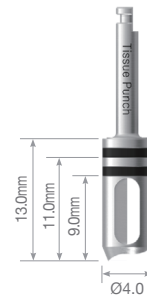
# KIT Components

## Tissue Punch

- Used to remove gingiva in a circular form at implant placement
- Recommended RPM : 800~1,200

Product Code

DSQGTP

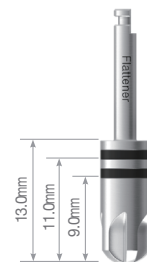


## Flattener

- Use to make the top irregularity flat
- Recommended RPM : 800~1,200

Product Code

DSQGFD



## Drill Extention

- Used to extend drill length

Product Code

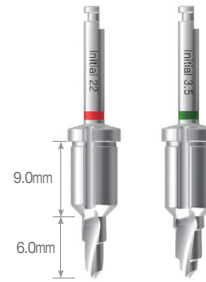
DDE



### Initial Drill

- Used to form holes that ensure precise orientation at the initial stage
- Recommended RPM : 800~1,200

Size	Product Code
Ø2.2	DSQGID22
Ø3.5	DSQGID35

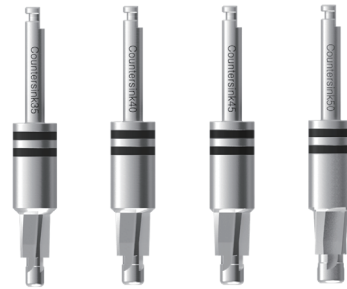


※ Irrigation function of drill part, prevention of bone heating

### Counter Sink

- Used to wide the hole of the Cortical Bone to prevent excessive mounting torque
- Recommended RPM : 800~1,200

Size	Product Code
Ø3.5	DSQGCS35
Ø4.0	DSQGCS40
Ø4.5	DSQGCS45
Ø5.0	DSQGCS50

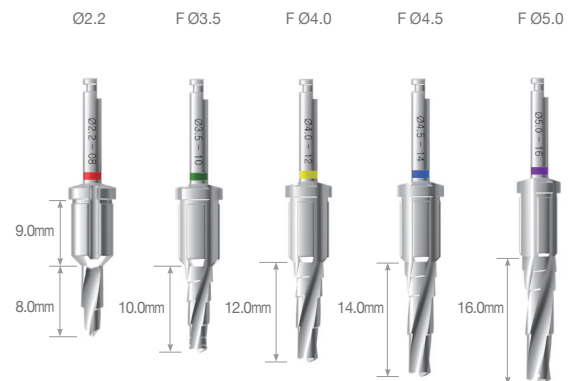


※ Additional purchase : Ø3.5, Ø4.0, Ø4.5

### STEP Drill

- Used to form diameters and lengths for fixture placement, drilled ahead of drilled space
- Design with multi-layer structure
- Recommended RPM : 800~1,200

Size Length	2.2	3.5	4.0	4.5	5.0
8.0mm	DSQGSTD 2208	DSQGSTD 3508	DSQGSTD 4008	DSQGSTD 4508	DSQGSTD 5008
10.0mm	DSQGSTD 2210	DSQGSTD 3510	DSQGSTD 4010	DSQGSTD 4510	DSQGSTD 5010
12.0mm	DSQGSTD 2212	DSQGSTD 3512	DSQGSTD 4012	DSQGSTD 4512	DSQGSTD 5012
14.0mm	DSQGSTD 2214	DSQGSTD 3514	DSQGSTD 4014	DSQGSTD 4514	DSQGSTD 5014
16.0mm	DSQGSTD 2216	DSQGSTD 3516	DSQGSTD 4016	DSQGSTD 4516	DSQGSTD 5016



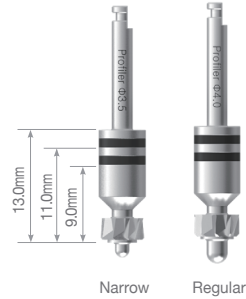
※ Irrigation function of drill part, prevention of bone heating



## Profiler Drill

- Used to remove the surrounding bone interfering with the healing or stock abutment after implant placement.
- Recommended RPM : 100

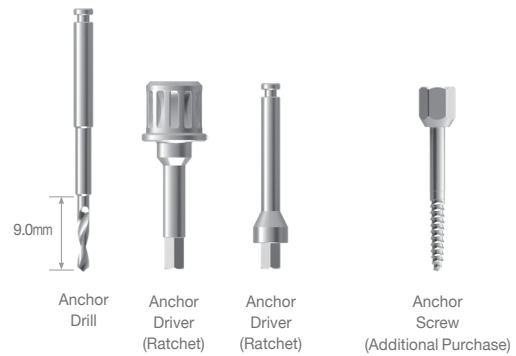
Size	Product Code
Ø3.5	DSQGPD35
Ø4.5	DSQGPD40



## Anchor Screw, Drill, Driver

- Used for fixation of the surgical guide in cases with edentulous teeth or many defects
- Recommended RPM : Drilling 800~1,200 / Screw 50~100

Size	Product Code
Anchor Screw	DGAS18
Anchor Drill	DGATD
Anchor Driver(Ratchet)	DRHDL24
Anchor Driver(Machine)	DMHD24



※ Additional purchase : Anchor Screw

## No Mount Driver(Narrow type included)

- Used to place or remove fixtures using a handpiece
- Recommended RPM : 50
- Recommended Torque Value : 30~40 Ncm

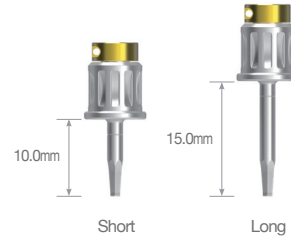
Division	Narrow (Machine)	Narrow (Ratchet)	Regular (Machine)	Regular (Ratchet)
Short	DSQGND NMS	DSQGND NRS	DSQGND RMS	DSQGND RRS
long	DSQGND NML	DSQGND NRL	DSQGND RML	DSQGND RRL



## Hex Driver

- Used for Cover Screw, Abutment Screw
- $\Phi$  1.25

Division	Product Code
Short	DRHDS125
long	DRHDL125



## Depth Gauge

- Used for measurement of hole depth, tissue height

Product Code
DPDG



## Torque Ratchet

- For implant placement, to use Ratchet Driver

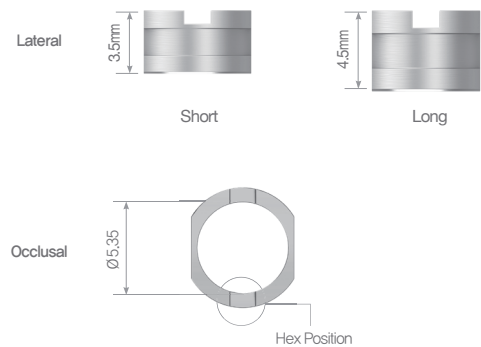
Product Code
DTR



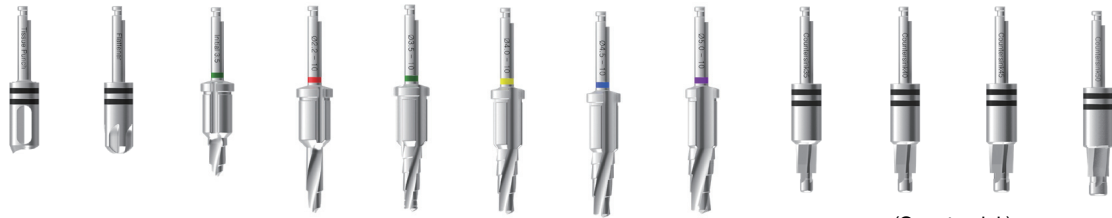
## SQ GUIDE Sleeve(Additional Purchase)

- Titanium material disposable sleeve
- internal diameter  $\Phi$ 5.35
- Types : 3.5mm, 4.5mm
  - 3.5mm : posterior or thick gingival patients
  - 4.5mm : anterior or thin gingival patients
- Use bonding materials (photopolymer resin, etc.) to unite

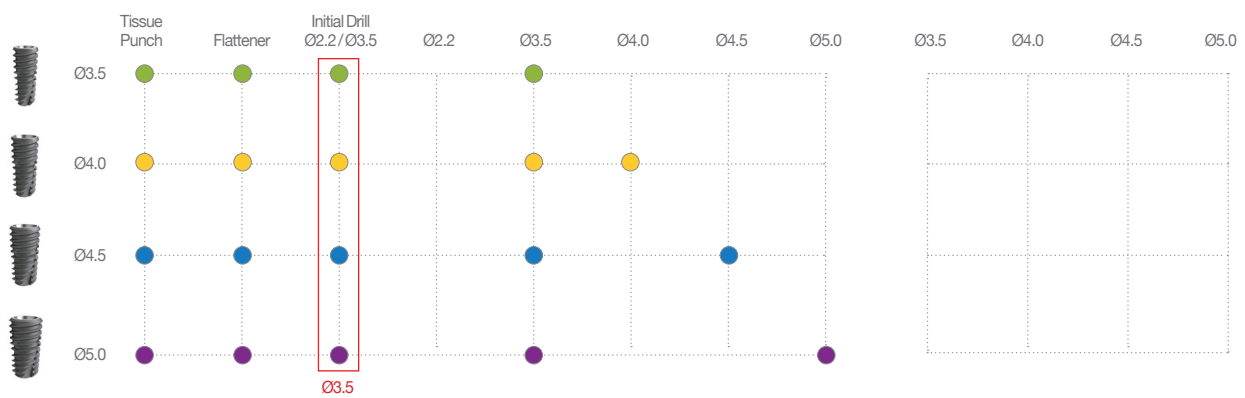
Division	L	Product Code
Short	3.5mm	DSQGS35
long	4.5mm	DSQGS45



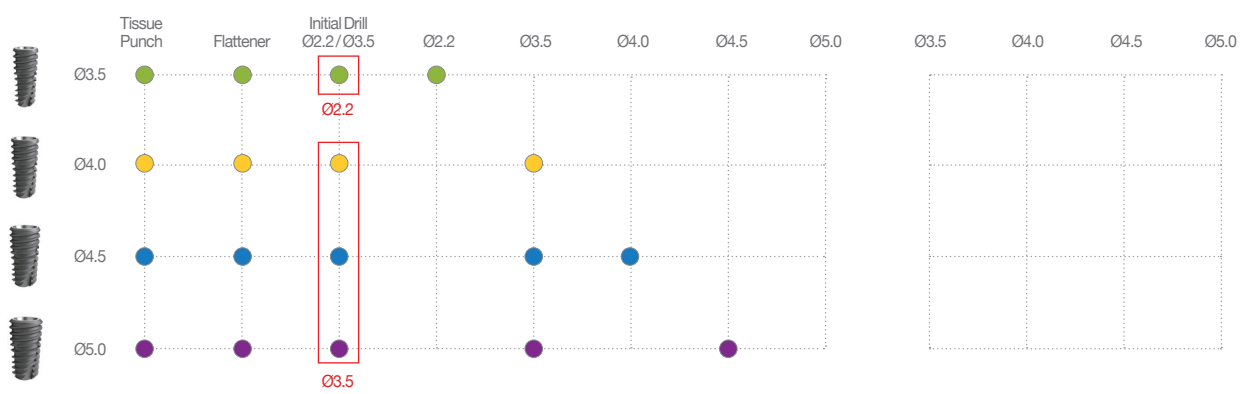
# Drilling Sequence



\* Drilling Protocol(Normal Bone), D2



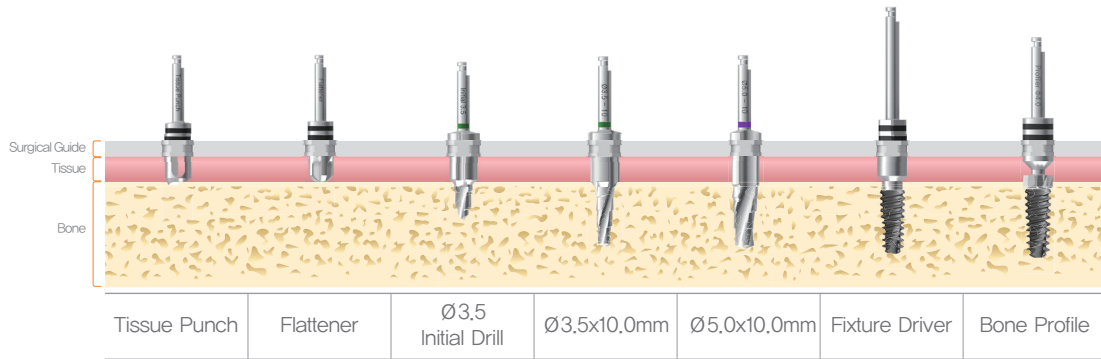
\* Drilling Protocol(Soft Bone), D3 & D4



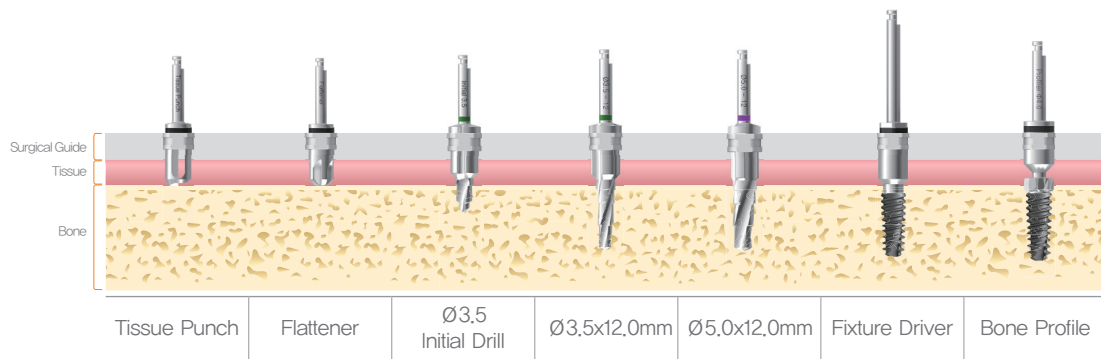
\* Drilling Protocol(Hard Bone), D1



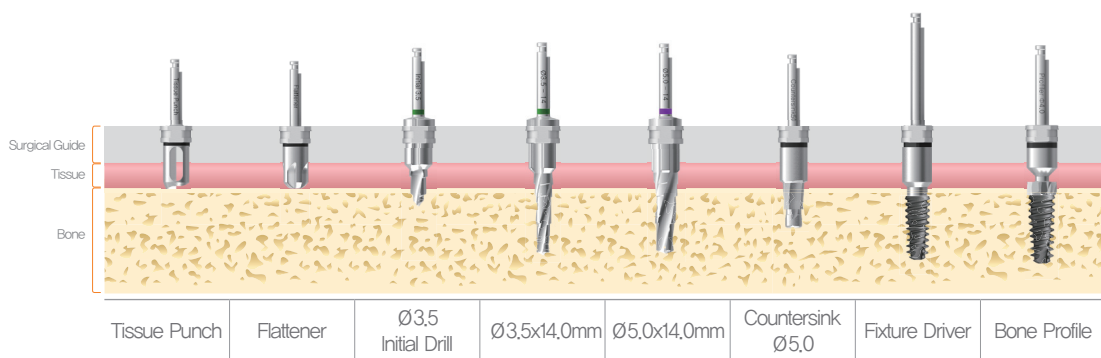
### Drilling Protocol for Ø5.0x10.0mm Fixture(Offset 9.0mm)



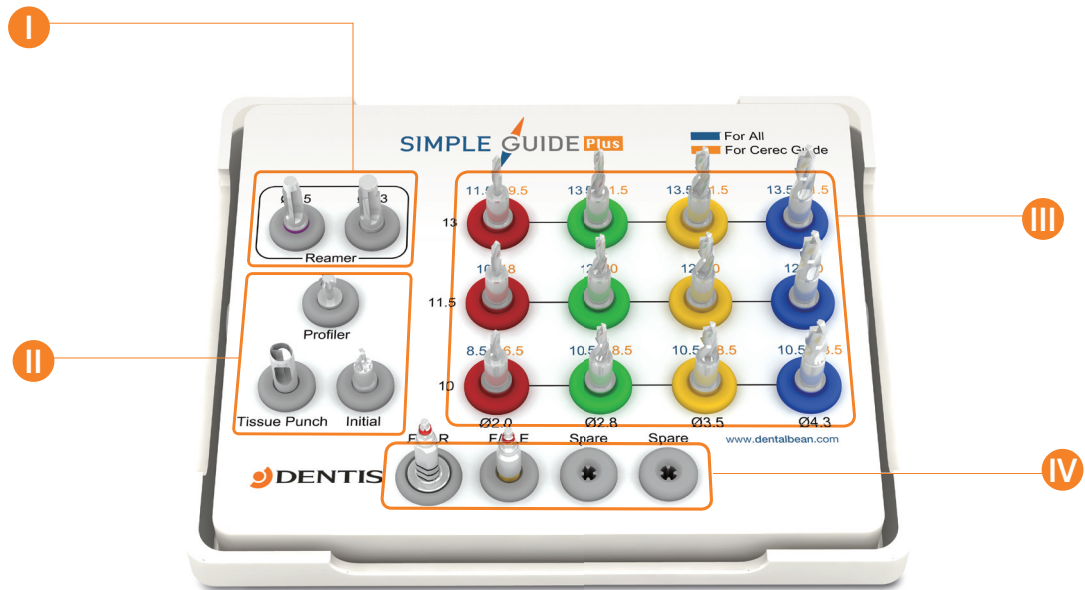
### Drilling Protocol for Ø5.0x10.0mm Fixture(Offset 11.0mm)












### Drilling Protocol for Ø5.0x10.0mm Fixture(Offset 13.0mm)



# SIMPLE GUIDE Plus KIT



▲Product Code : DSGPK

I.	Ø4.5 Reamer	Ø5.3 Reamer	II.	Profiler Drill	Tissue Punch	Initial Drill
						
III.	Pilot Drill	Step Drill	IV.	Fixture Driver	Metal Sleeve (Additional Purchase)	
						

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## Why SIMPLE GUIDE Plus is Special?

### Compatibility

- Compatible with Cerec Guide2.
- It can be produced by clinic directly or by requesting to the center.



### Economic

- Simple kit configuration makes it affordable.
- It can be manufactured inexpensively compared to other company's guide system.



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### Convenience

- Minimal drilling makes operation quick and simple.



# KIT Components

## Reamer Drill

- Used to maintain tolerances between guide and drill, sleeve and drill

Size	Product Code
Ø4.5	DSGPR45
Ø5.3	DSGPR53



## Tissue Punch

- When Flapless Surgery, to eliminate Soft Tissue.

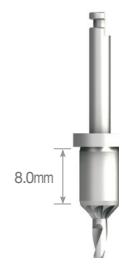
Product Code
DSGPTP



## Initial Drill

- Used to form the desired orientation of the initial drill

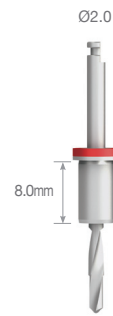
Product Code
DSGPID



## Pilot Drill

- Used to form the desired orientation of the initial drill

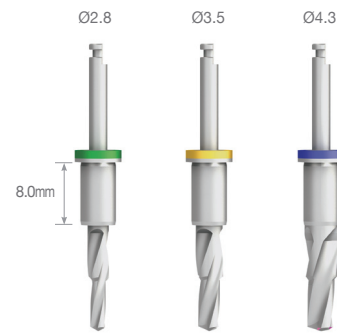
Product Code
DSGPSD2016
DSGPSD2018
DSGPSD2019



## Step Drill

- Used to form holes for fixture placement, increase drill size according to fixture size

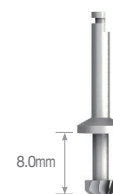
2.8	3.5	4.3
DSGPSD2818	DSGPSD3518	DSGPSD4318
DSGPSD2820	DSGPSD3520	DSGPSD4320
DSGPSD2821	DSGPSD3521	DSGPSD4321



## Profiler Drill

- Used to smooth abutment fastening after implant placement

Product Code
DSGPPD



## Fixture Driver

- Used to place or remove fixtures using a handpiece

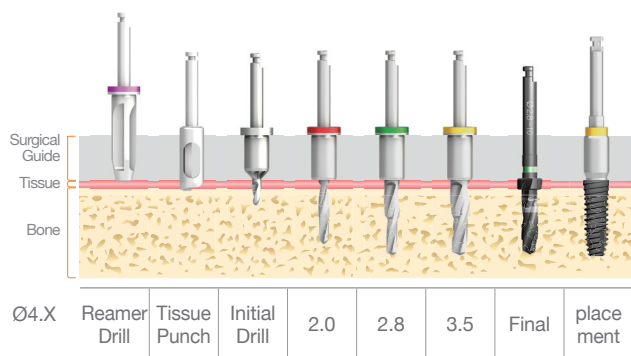
Product Code
DSGPRDA(Ratchet)
DSGPDA(Machine)



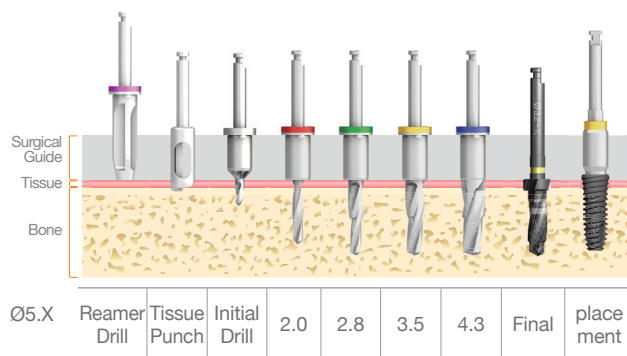


# Drilling Sequence

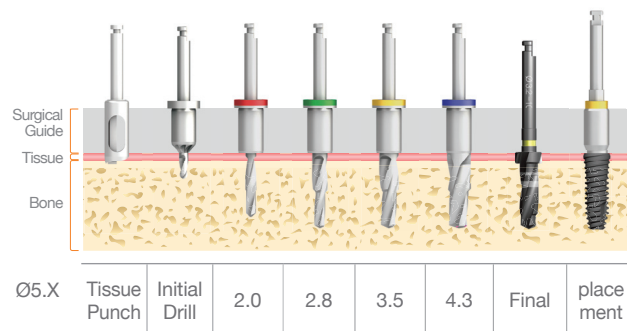
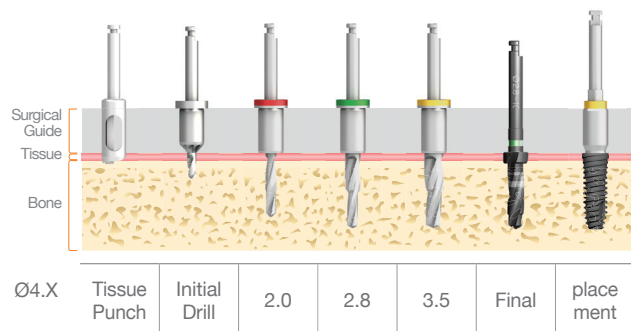
## 1. By making a direct guide from Clinic



※ Reamer Drill is used outside the mouth



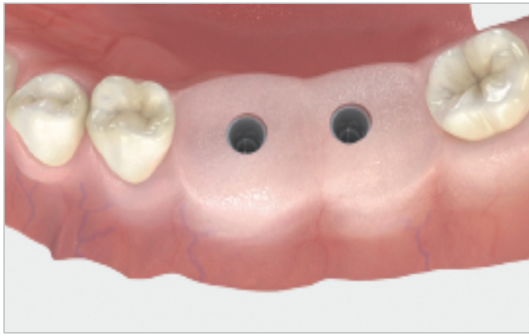
## 2. Request to DENTIS and operated on Clinic



# Workflow



# Why do we need a Surgical Guide?



## A. Flapless Surgery

No incision reduces pain and swelling in the patient, it is applicable for lack of attached gingiva case.



## B. Implant Planning

Planning allows you to identify situations that may occur during surgery and shorten the time of surgery.



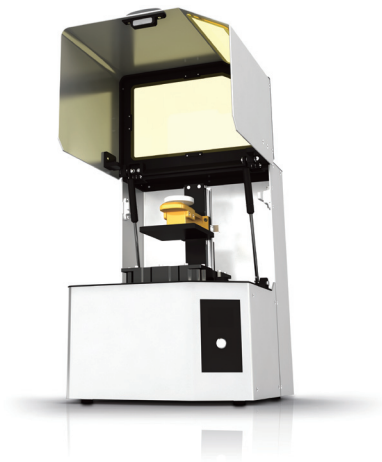
## C. Immediate loading

Immediate loading after surgery can improve patient satisfaction.

# SQ GUIDE with ZENITH

## ZENITH U

- Multi-play desktop 3D printer with a wide range of applications.
- Various categories of output is possible with economical materials.
- Improved precision with high quality galvanometer and F-theta lens
- Compact size and light weight

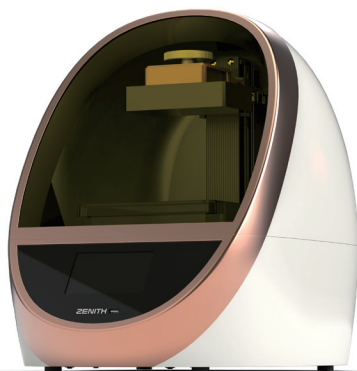


<b>Technology</b>	Stereolithography Apparatus (SLA)
<b>Build Size</b>	110 x 110 x 150mm
<b>Machine Size X/Y/Z</b>	354 x 366 x 483mm
<b>Weight</b>	17.5 kg
<b>Interface</b>	USB
<b>Layer Thickness</b>	16 μm, 50 μm, 100 μm
<b>Light Source</b>	Blue Laser
<b>Software</b>	ZENITH S/W
<b>OS</b>	Windows 7,8,10 / Mac OS 10.10
<b>Input file format</b>	Standard STL file
<b>Power supply</b>	Input : AC 100~240V / 50-60Hz, Output : DC 24V 5A
<b>Material Properties</b>	Photopolymer Resin
<b>Electrical consumption</b>	120W



## ZENITH D

- Entry-level 3D printers for models and guides
- Affordable, Solid DLP 3D Printer



<b>Technology</b>	DLP(Digital Light Processing)
<b>Build Size</b>	128 x 80 x 150 mm
<b>Machine Size X/Y/Z</b>	340 x 460 x 430 mm
<b>weight</b>	15 kg
<b>XY Resolution</b>	100 μm
<b>Interface</b>	USB, Wi-Fi
<b>Layer Thickness</b>	50 μm, 100 μm
<b>Light Source</b>	405 μm LED
<b>Software</b>	Zenith D Slicer
<b>OS</b>	Windows 7,8,10 / Mac 10.10
<b>Input file format</b>	Standard STL file
<b>Power supply</b>	INPUT : AC 100V-240V / 50-60 Hz 2A max OUTPUT : 24V 5A
<b>Material Properties</b>	Photopolymer Resin

