Computer Guided Surgery Outstanding in Surgical Precision and Convenience

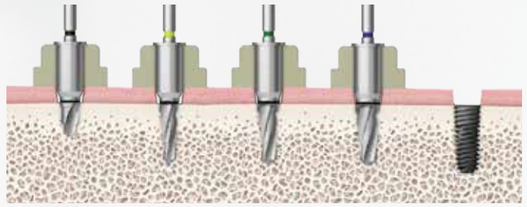
OneGuide

- Shortening drilling steps dramatically by adopting 122 concepts
- Possible to implant teeth No. 7 in spite of intermaxillary space limit through Side open
- Possible to do precise surgery with unshaken drilling
- Possible for fast surgery without worrying about Heating

Innovation 1. Shortening Drilling Steps Dramatically by Adopting 122 Concepts

· Possible to implant from 2 ~ 4 steps only according to bone quality

ex.TSIII Ø4.0



Bone Density	Initial	F3.5	F4.0	F4.5	Fixture
Soft	▲	▲			Implant placement
Nomal	■	■	■		
Hard	●	●		●	

Innovation 2. Possible to Implant Teeth No. 7 in Spite of Intermaxillary Space Limit Through Side Open

· As the drill is inserted through side window according to patients oral status, possible to solve intermaxillary space limit perfectly.
· Required intermaxillary space: OneGuide-36mm, Conventional guide-51mm
· Available to choose open or closed if required

Insufficient intermaxillary space

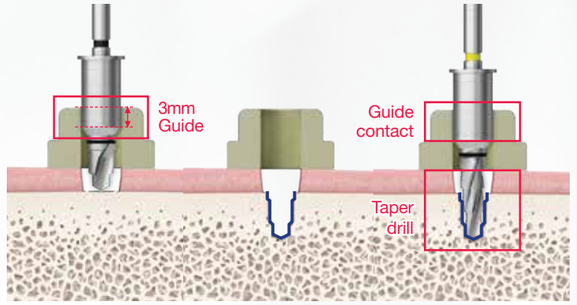
Sufficient intermaxillary space

Innovation 3. Possible to do Precise Surgery with Unshaken Drilling

· Initial drilling :
Precise drilling available as the drill can be contacted with guide area within 3mm.
· Backward drilling:
Precise drilling available as the drill is contacted with guide area always due to taper drill effect.

Initial drill **contact**

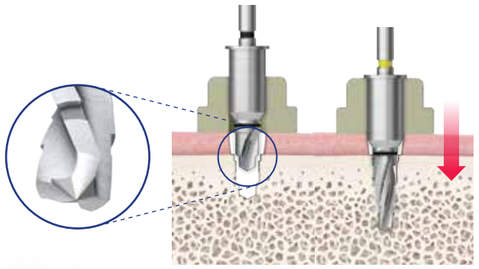
Backward drill **double contact**



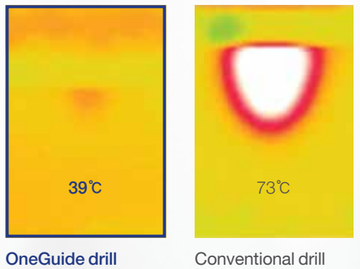
Innovation 4. Possible for Fast Surgery Without Worrying About Heating

· Enabling fast drilling without heating through side open which facilitates douche from OneGuide and outstanding cutting force of drills.(Recommended rpm: 800~1200rpm)

Outstanding cutting force drill



Side open facilitating water supply



OneGuide drill Conventional drill

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OneGuide KIT

1. Initial Drill

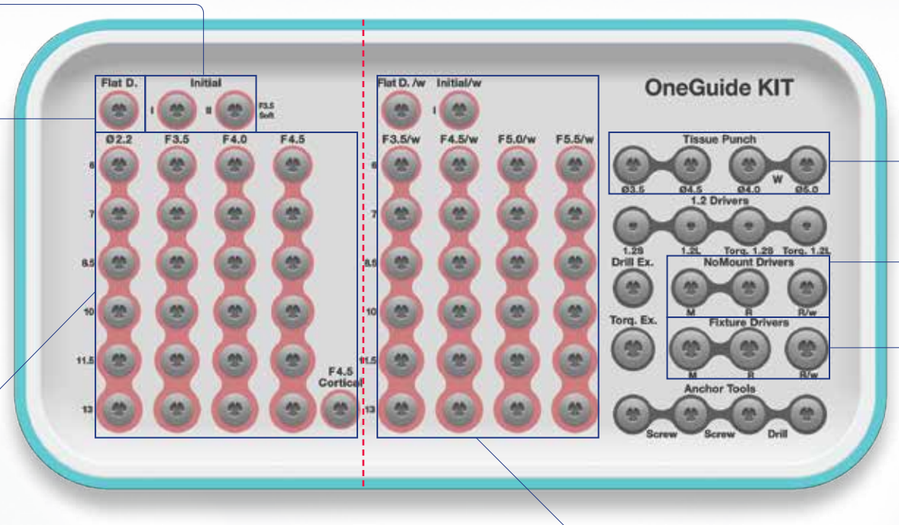
· Implant location decision after Tissue punch
· Securing the guide depth of backward drill
· Composed of 3 kinds of tools(under F4.5/ only for F5.0/ only for F3.5 soft bone)

2. Flattening Drill

· Using for the ridge with narrow or uneven
· Enabling Stable cutting without splattering with many of cutting edges
· Composed of 2 kinds of tools(under F4.5 / only for F5.0)

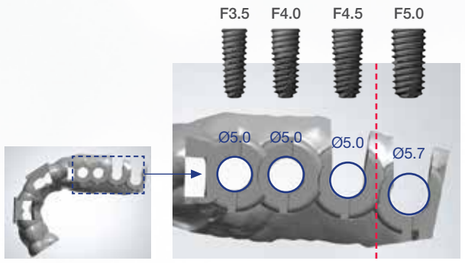
3. OneGuide Drill

· The taper drill optimized for TSIII/IV fixture(possible to implant diameter Ø3.5~5.0, length 7~13mm fixture)
· Stable drilling with multistage structure
· Composed of 2 kinds of tools(under F4.5, only for F5.0)

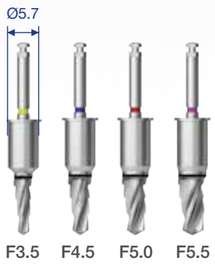


F4.5 이하 (Ø5.0 template hole)

*OneGuide template hole concept

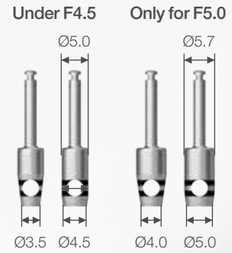


F5.0 (Ø5.7 template hole)



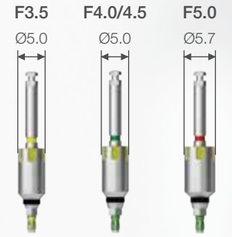
4. Tissue Punch

· The tools only for Tissue cutting



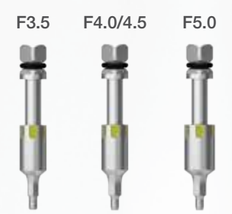
5. NoMount Driver

· Only for OneGuide



6. Fixture Driver

· Only for OneGuide



Drilling Sequence

▲ Soft ■ Nomal ● Hard

Fixture Diameter	Bone Density	Initial	Ø2.2	F3.5	F4.0	F4.5	F5.0	F5.5	Fixture
F3.5	Soft	▲	▲						Implant placement
	Nomal	■		■					
	Hard	●		●	●				
F4.0	Soft	▲		▲					
	Nomal	■		■	■				
	Hard	●		●		●			
F4.5	Soft	▲		▲	▲				
	Nomal	■		■		■			
	Hard	●		●		●			F4.5 cortical
F5.0	Soft	▲		▲		▲			
	Nomal	■		■			■		
	Hard	●		●			●	●	

Workflow

Dental Clinic

Data preparation
Selection 1. Providing CT scan & Oral scan data
Selection 2. Providing CT scan & upper/lower oral models

Confirming OneGuide design

Delivery to the dental clinic

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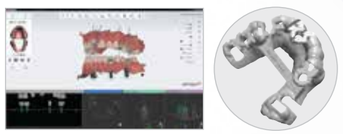

Planning & OneGuide design

· OneGuide 3D printing
· SmartFit/Transfer ABT+temporary crown manufacture(option)

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