

Guide Wheel

No longer complicated and controversial.
Just easy, simple and perfect surgical guide tool!

Visible operation

High frequency of use

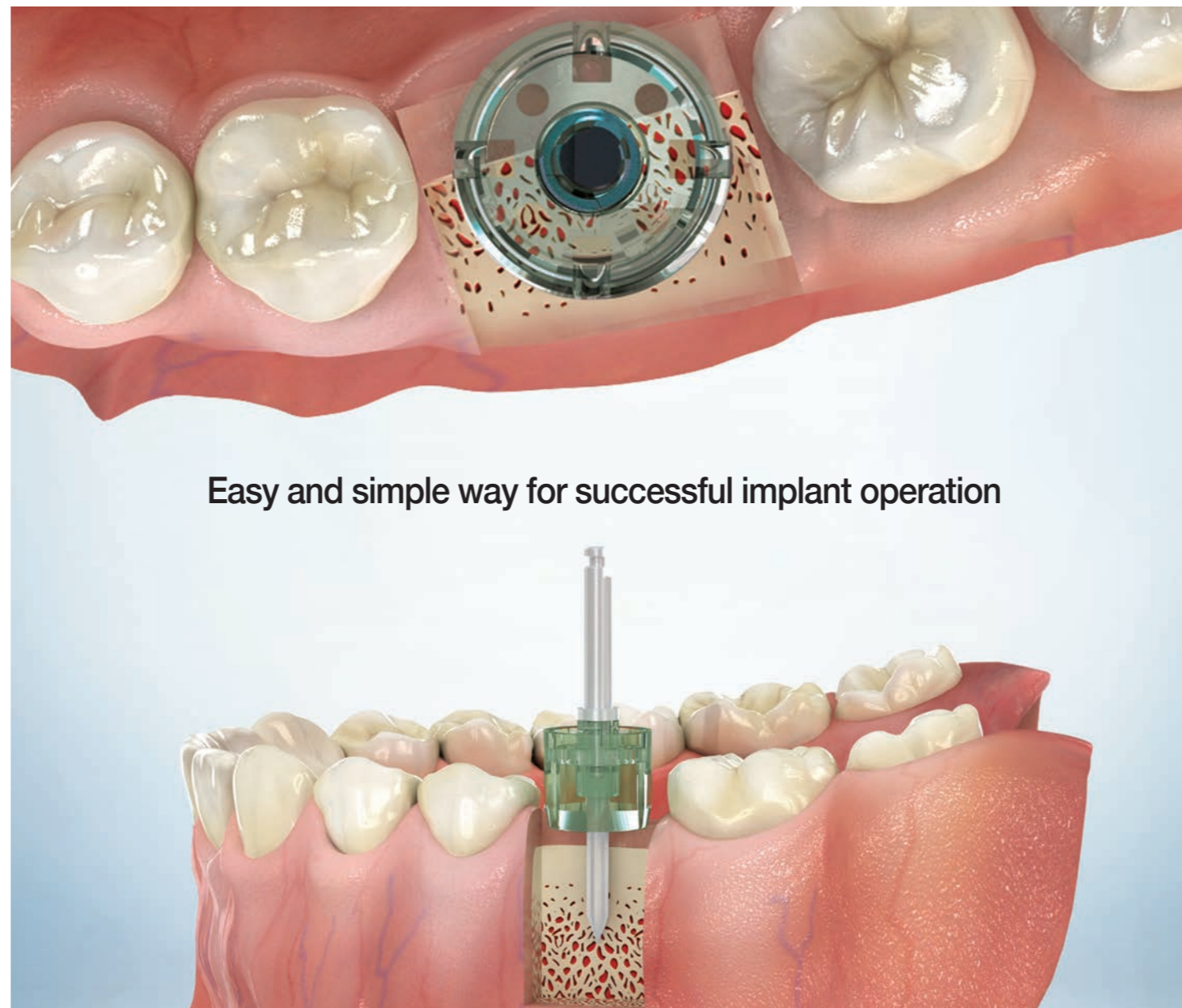
- Useful in a single or multiple implants case
- Easy to determine an angle and position of the implant in accordance with adjacent teeth

Easy to use

- Easily connected with a special drill

Lower bone heating

- Possibly lower bone heating due to the inner irrigation.

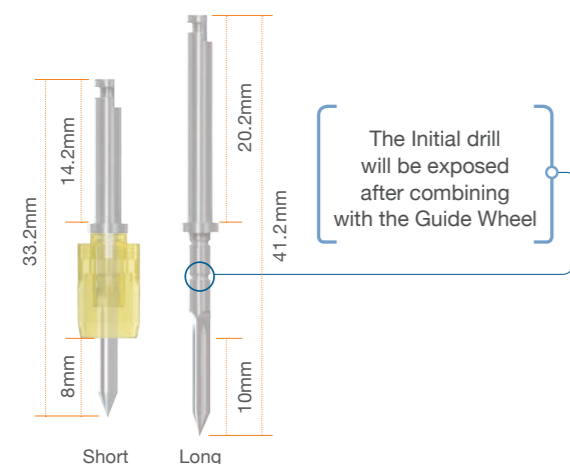


THE GUIDE WHEEL MANUAL

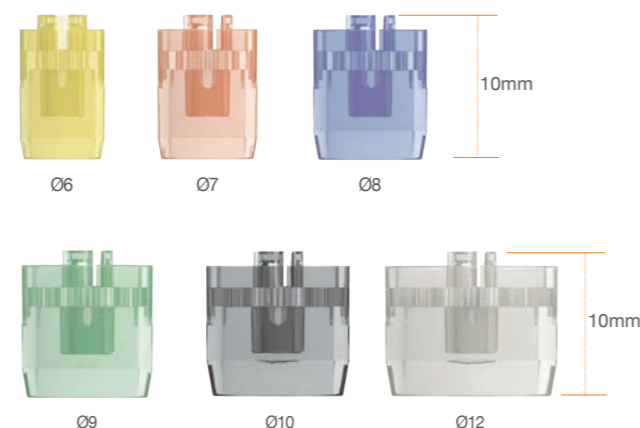
- 01**
Decide the size of guide wheel and connect it with a drill
- 02**
Verify the position of the guide wheel and conduct initial drilling
- 03**
Final drilling according to drilling protocol provided by your implant system
- 04**
Fixture placement

GUIDE WHEEL COMPONENTS

Guide Wheel Initial Drill

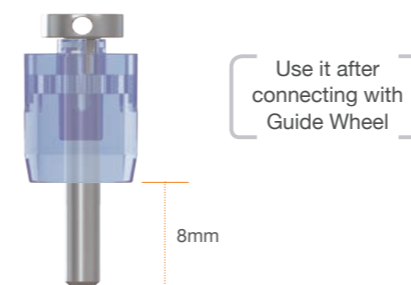


Guide Wheel

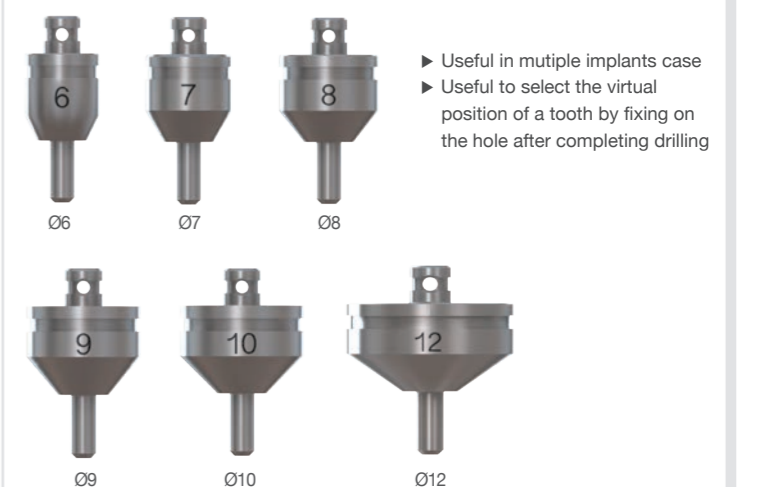


► Connect to the initial drill to easily determine the initial drilling point and path.

Guide Pole



Guide Pin



Louis Button II

More simple and powerful **attached gingiva former!**

Safe!

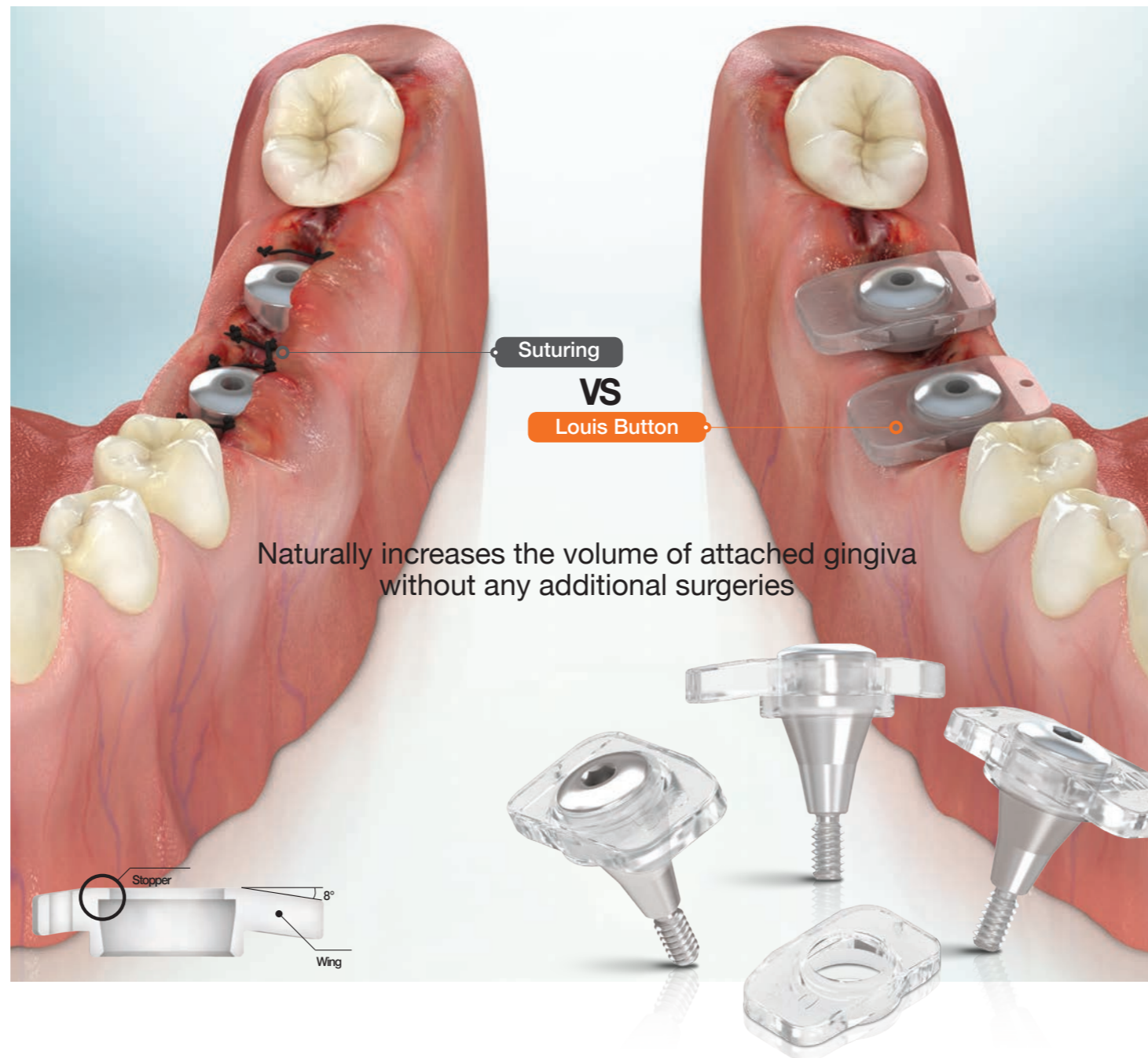
- 8° angled wings safely managing tissues

Strong!

- Strongly fixed on a healing abutment with new stopper part for preventing sinking.

Flexible!

- More compatible with enhanced tension of the material



LOUIS BUTTON COMPONENTS



COMPARISON BETWEEN THE LOUIS BUTTON II AND SUTURE

Louis Button II	SUTURE
<p>High pressure applied on incision site - Minimizes gingiva loss</p> <p>Quick and simple application</p>	<p>Pulls the flap - losing the gingiva</p> <p>Complicated suturing method</p>
<p>Reduces operation time</p> <p>Increases tissue volume</p> <p>Applicable on thin tissue</p> <p>Softly pushes Louis Button to get more natural and aesthetic gingiva</p>	<p>Increases a chair time</p> <p>Difficult to get enough attached gingiva</p> <p>Not available in a thin flap area</p> <p>The attached gingiva is pulled by a suture</p>

ZENITH D

Specialized in printing dental model and surgical guide
Entry-level 3D Printer

Rapid printing time by building it by layer

- Regardless of numbers or sizes of the product, consistently rapid printing time

**No need post curing process
 100% UV optical resource**

- 405nm wavelength of 100% UV optical resource
- Quick resin curing time and fully cured

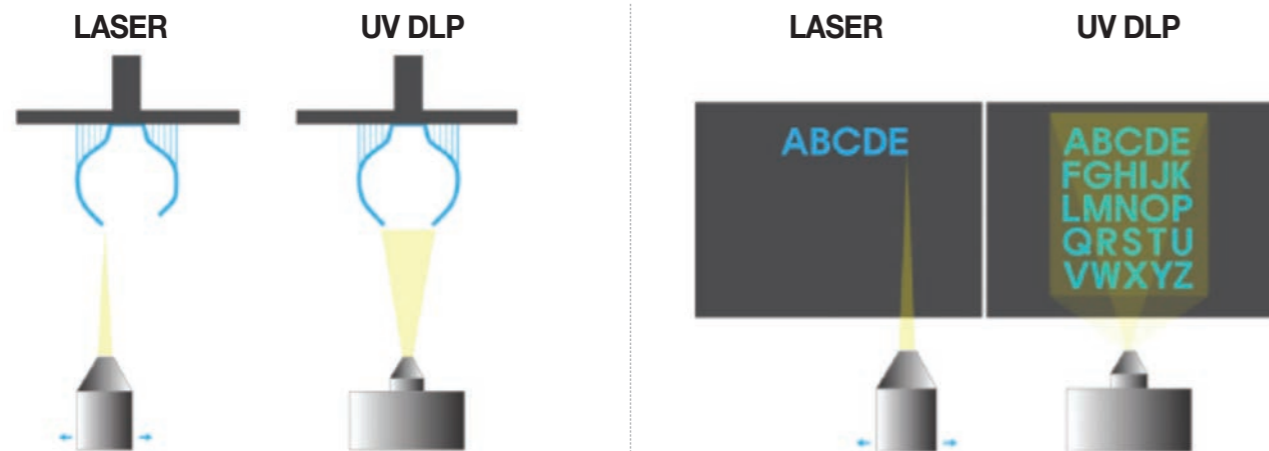
**No need PC control
 Embedded Systems**

- Increased stability of printing by directly controlling the image and hardware by itself
- No interruption output occurred by PC control

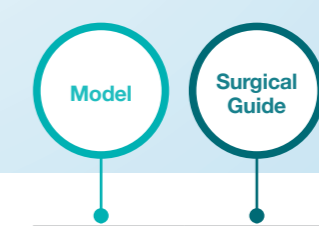
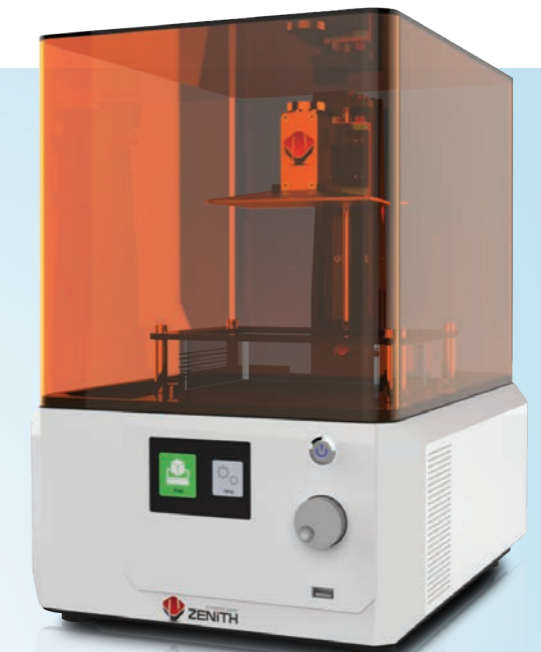
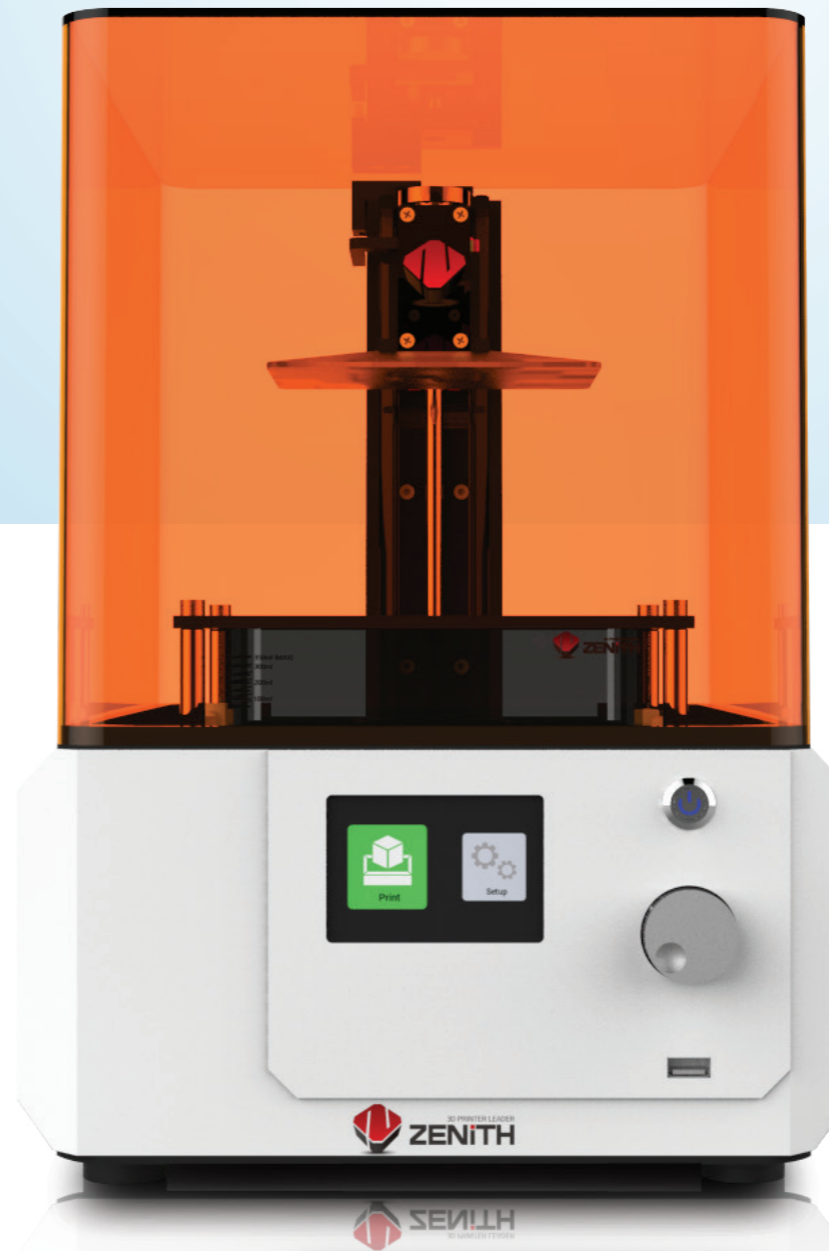
User-centered control interface

- Easy control LCD

UV DLP TECHNOLOGY



Reasonable entry-level
DLP 3D Printer ZENITH

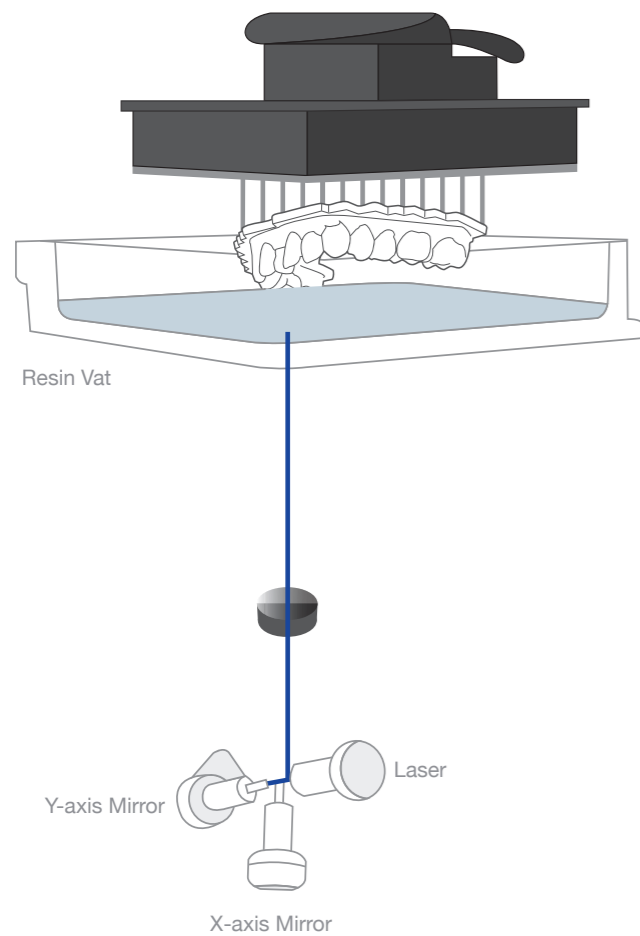


ZENITH D	Dimensions	266 x 340 x 415mm
	Weight	10kg
	Display	3.5"LCD
	Power Requirements	100 ~ 240V 18A 50 / 60Hz
3D PRINTING FEATURES	Printing Technology	UV DLP (Digital Light Processing)
	Build Volume	128 x 80 x 145mm
	X / Y Resolution	100 microns
	Layer Thickness	25 / 50 / 100 microns
	Light Source	UV LED
	Operating System	Embedded System
MATERIAL	Photopolymer Resin	Standard / Castable
SOFTWARE	Slicer Program	G PRINERSUDIO (Materialise)
	Assist 3D Data	STL

ZENITH P/M

Successful 3D Printing Premium 3D Printer

MIRRORLESS TYPE



ZENITH cures its own resin by shooting the laser to inside of the resin vat.
The product is printed while the working plate is going up by each layer

ZENITH P



- **Optimized for printing castable material (Wax Patterns)**
• Outstanding printing quality of wax patterns
- **High quality Galvanometer and German F-Theta lens**
- **Semipermanent special resin vat**
- **Z-axis Actuator**

Model	Surgical Guide	Wax-up pattern	Splint	Temporary
Technique Method	Stereolithography Apparatus (SLA)			
Scanning Method	Galvanometer (Made in Germany)			
Light Source	Blue Laser			
Layer Thickness	16 μ m, 50 μ m, 100 μ m			
Dimension / Weight	381 x 471 x 720mm / 42kg			
Working Area	90 x 90 x 150 (X,Y,Z / mm)			
Material Properties	Photopolymer Resin			
Software	ZENITH S/W			
OS	Windows 7,8,10 / Mac OS 10.10 or higher			
Input File Format	Standard STL file			
PC Connection	USB			
Power Supply	Input : AC 100-240V / 50-60Hz Output : DC 24V 5A			
Electrical consumption	120W			

ZENITH M



- **Optimized for medium production volume and high accuracy applications**
- **High quality Galvanometer and German F-Theta lens**
- **Semipermanent special resin vat**
- **Z-axis Actuator**

Model	Surgical Guide	Wax-up pattern	Splint
Technique Method	Stereolithography Apparatus (SLA)		
Scanning Method	Galvanometer (Made in Germany)		
Light Source	Blue Laser		
Layer Thickness	25 μ m, 50 μ m, 100 μ m		
Dimension / Weight	460 x 484 x 877mm / 57kg		
Working Area	150 x 150 x 150 (X,Y,Z / mm)		
Material Properties	Photopolymer Resin		
Software	ZENITH S/W		
OS	Windows 7,8,10 / Mac OS 10.10 or higher		
Input File Format	Standard STL file		
PC Connection	USB		
Power Supply	Input : AC 100-240V / 50-60Hz Output : DC 24V 5A		
Electrical consumption	120W		

ZENITH U

Desktop Multiplayer 3D Printer for universal use

INNOVATIVE

- First 3D printer developed by the dental company in South Korea
- Self-developed dental light curing resin
- Special own software (ZENITH SW)



WIDE APPLICABILITY

- Surgical Guide, Models(for Clear Aligner, Prosthesis), Castable, Splint, Temporary C&B(In process)
- Available in other medical purpose, jewelry, R&D and so on



SUPERIORITY

- 16 μm accuracy
- Galvanometer Scanning Method
- High-quality F-Theta Lens



SPECIFICATION

Technique Method	Sterolithography Apparatus (SLA)
Scanning Method	Galvanometer
Min Layer Thickness	16μm
Layer Thickness	16μm, 50μm, 100μm
Dimension / Weight	354 X 366 X 483 mm / 17.5kg
Working Area	110 x 110 x 150 (X,Y,Z / mm)
Scanning Speed	More than 1,000mm/sec
Material Properties	Photopolymer Resin
Software	ZENITH S/W
OS	Windows 7, 8, 10 / Mac OS 10.10 or higher
Input file format	Standard STL file
Power supply	AC 100V, 220V / 50-60 Hz, 24V 5A
Laser	Blue Laser
Warranty	1 year

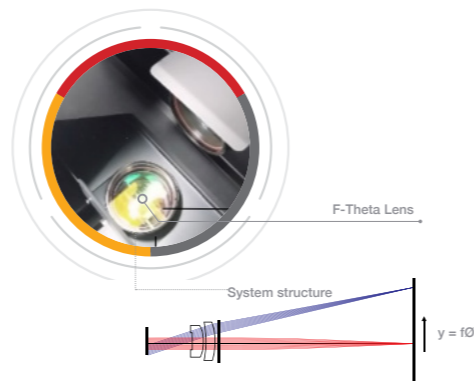


A self-developed
SLA 3D Printer by DENTIS

Why is ZENITH special?

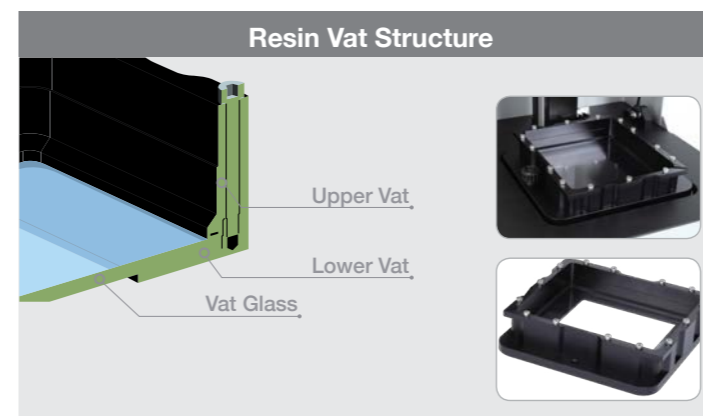
F-THETA LENS

- advanced optical system with less optical errors
- A high quality F-Theta Lens having stable laser focus and higher accuracy
- A stable laser source

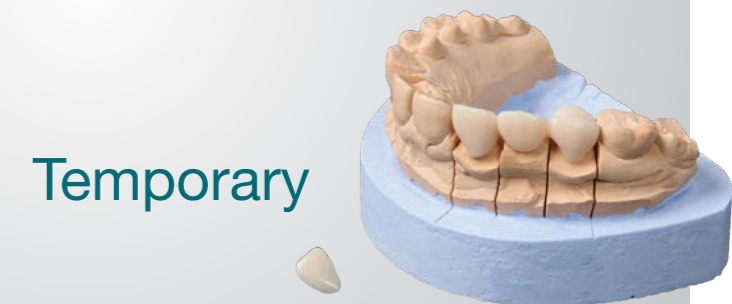


Special Resin Vat (Patented Product)

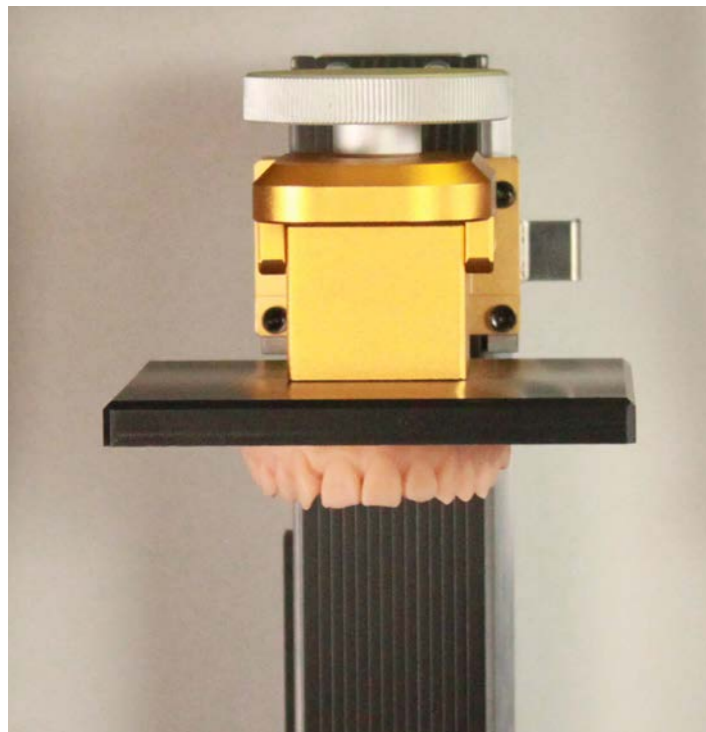
- Semipermanent special resin vat
- Easily change the resin glass when it gets damaged



All you want is here
ZENITH U



ZENITH MATERIALS



Dental Model

Methacrylate oligomer based photopolymer resin

Application

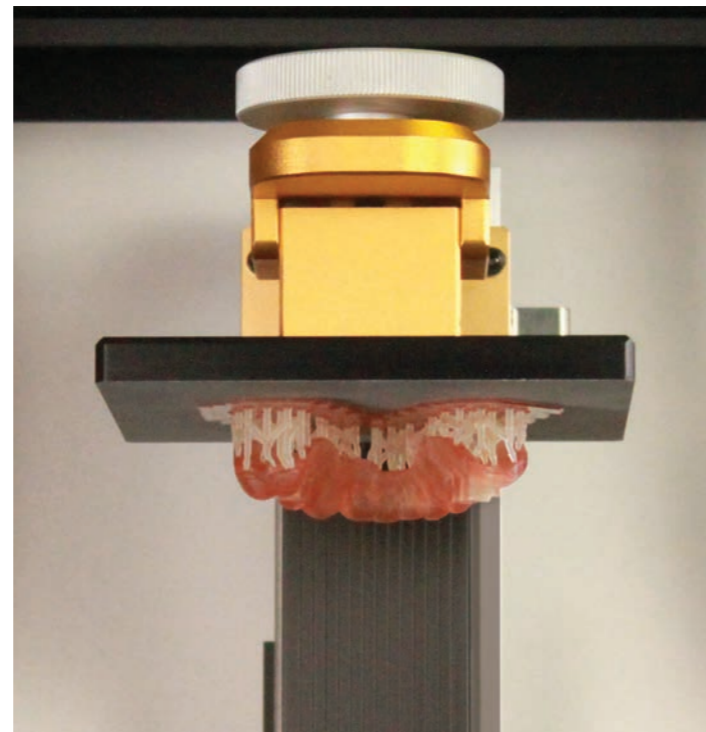
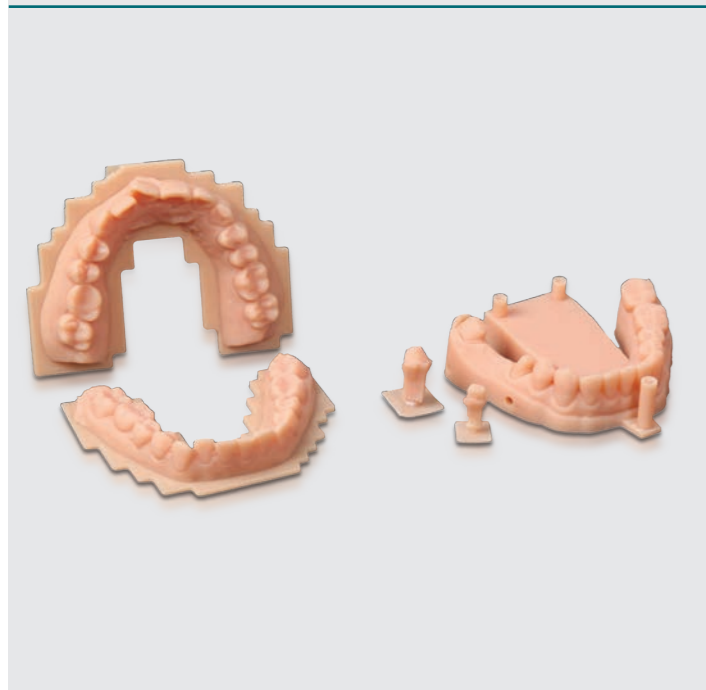
Clear appliance, dental model, general mock-up

Characteristic

High strength and hardness, outstanding precision

Consumption

Approximately 25g (1 Full arch)



Surgical Guide

Urethane acrylate oligomer based photopolymer resin

Application

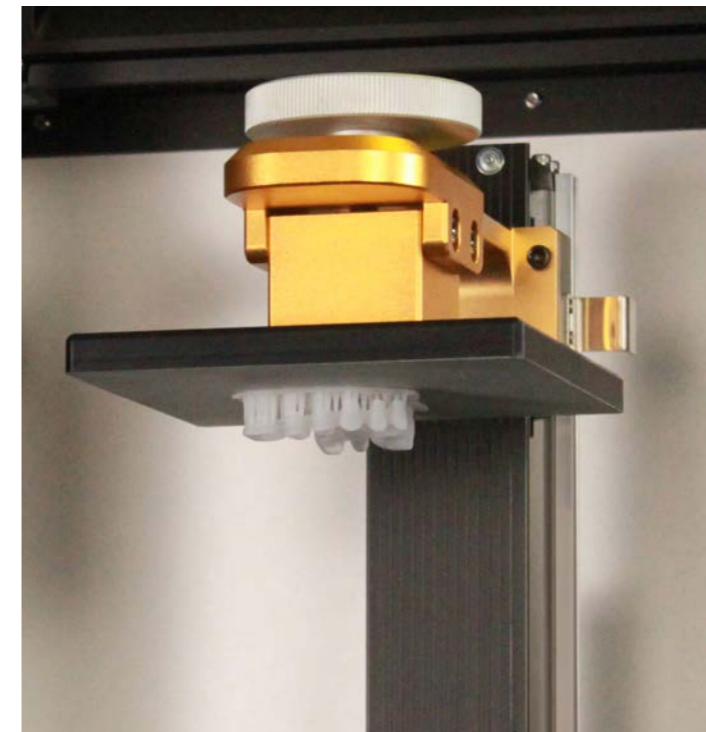
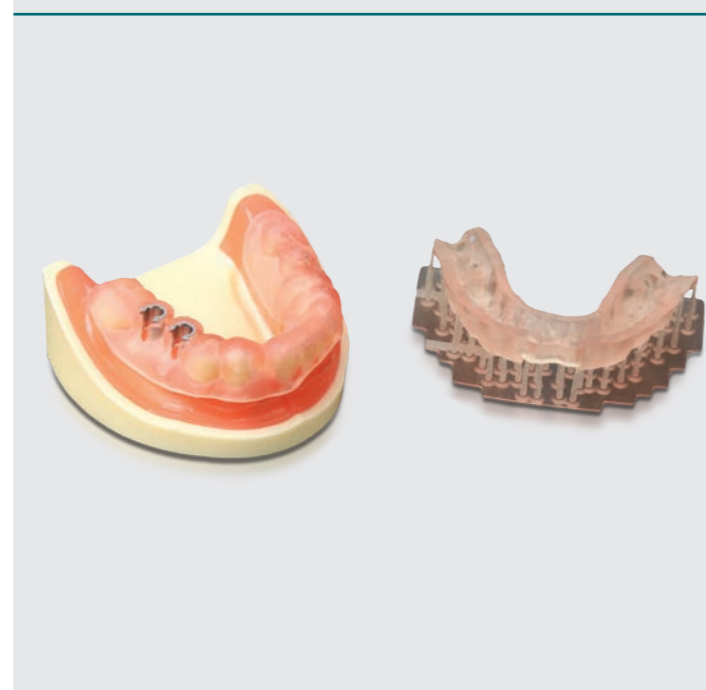
Surgical guide, partial ortho appliance

Characteristic

Low viscosity, high hardness, semitransparent material, outstanding precision

Consumption

Approximately 15g (1 Full arch)



Wax-up pattern

Monomer based photopolymer resin

Application

Castable material

Characteristic

Low viscosity, high hardness in the room temperature, excellent resolvability in high temperature

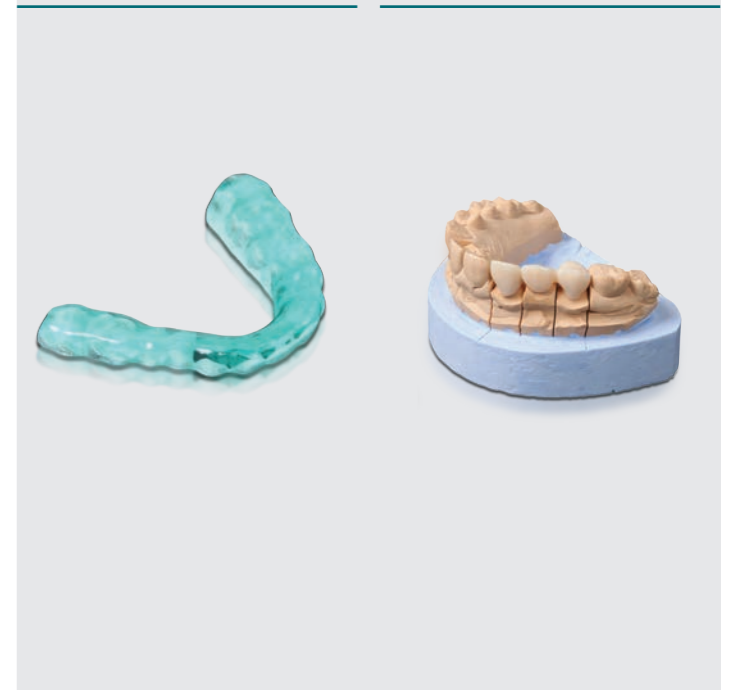
Consumption

Approximately 0.25g (1 Crown)



Splint

Temporary



SIMPLE GUIDE Plus

Take further advantages accumulated on the basis of the know-how over the years

Cost-effective!

- Lower costs than usual implant guide system

Convenient!

- Save your time with minimized drilling protocol

Accurate!

- Minimize error by simultaneously fixing the drill in a guide and in a bone

Universal!

- Available with all implant systems in the world

New Planning Software

- Intuitive UI and simple step-wise process provides easy planning experience.
- More reasonable solution by separating a full & partial version.



Don't worry about the path anymore!

Implant path was always concern even after 10 years of clinical experience. Never allow small errors, that is Simple Guide Plus.



Why should Simple Guide Plus?



Reamer Drill

- Minimized error by maintaining a contact allowance between the drill and the stent



Initial Drill

- Round type for preventing sliding of the drill
- Including tissue-punch function



Sleeve & Sleeve Connector

- Choose between sleeve or sleeveless type, depending on your preference

Sleeveless Type

- Easy and possible in a chairside

Sleeve Type

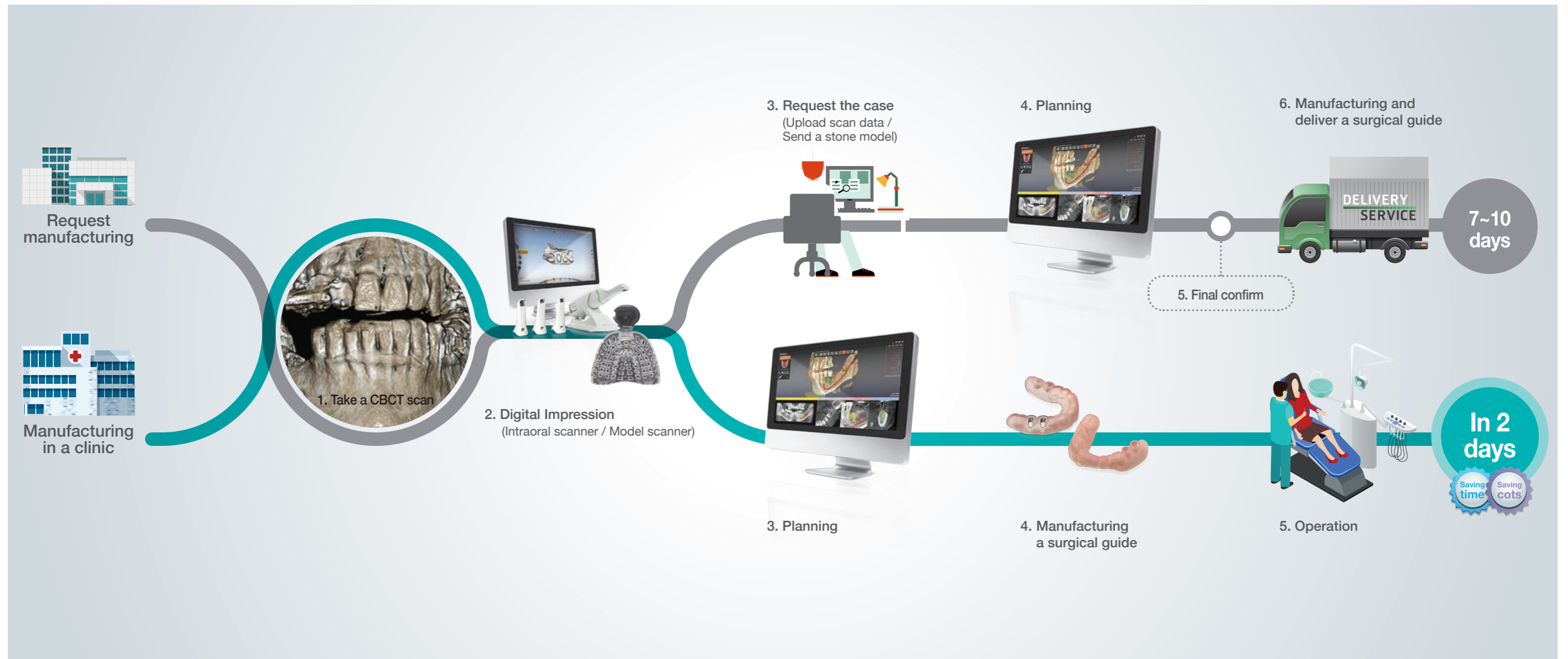
- No need additional fixation material as it has own anti-rotation facility
- Provide the sleeve connector for ease of use



Fixture Driver

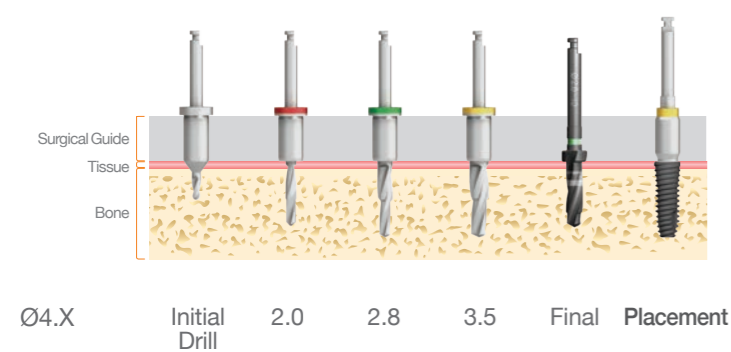
- A Universal fixture driver placing implant directly through the surgical guide

Simple Guide Plus Workflow

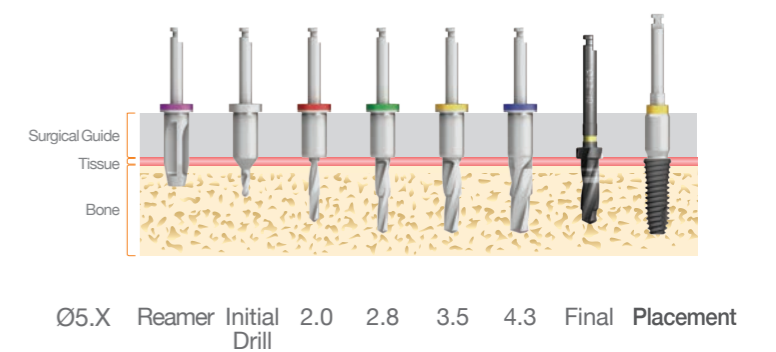
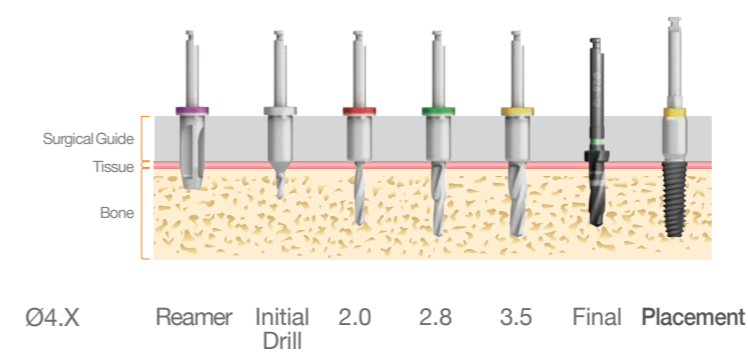
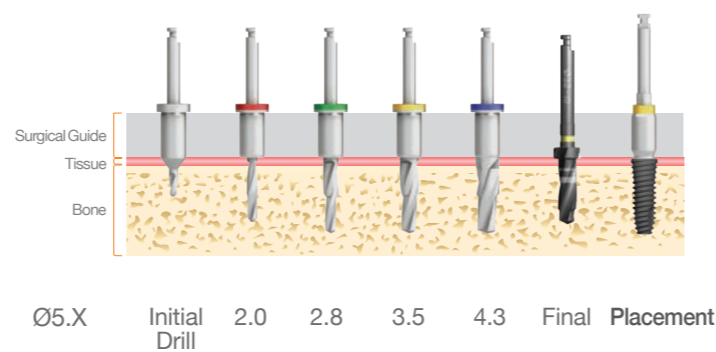


Drilling Protocol

Request manufacturing



Manufacturing in a clinic



Ovis BCP/ Collagen MEMBRANE

UV cross-linking
biocompatible and
fully safe **resorbable**
collagen membrane



Resorbable
Collagen



Resorption
period
4-6 months



Osteoconduc-
tive through
BCP



Biodegradable
collagen
membrane

*No Chemical!
Safe Crosslinking!*

**UV cross-linking
resorbable collagen**



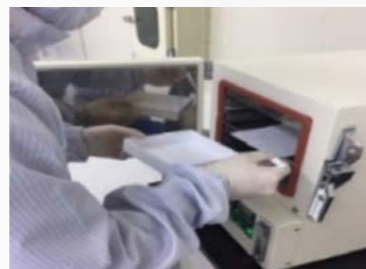
Type	Size(mm)	Thickness(mm)
Square type	15 x 20	0.3
	20 x 30	0.3
	30 x 40	0.3

High-purity raw material without any immune reaction

Superior biocompatibility with Atelocollagen which doesn't have antigenicity and is resorbed fast

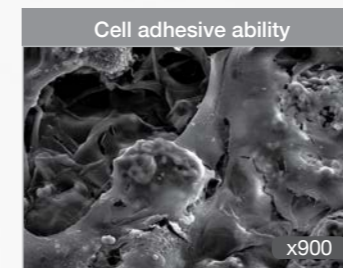
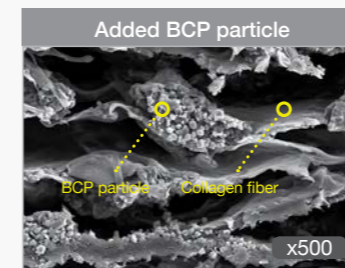
UV Cross-Linking

Removed stability problem occurred by chemical crosslinking through physical UV Crosslinking method



Composed of Atelocollagen + BCP

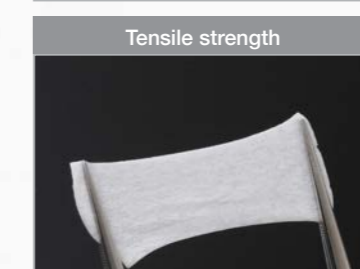
Compound osteoconductive material 'BCP (Biphasic Calcium Phosphate) assisting bone formation



MG-63, D-MEM_10% FBS + 1% penicillin, Osteosarcoma cell

Enhanced tensile strength and easy handling

Prevents tears and minimize operational difficulty



Ovis BONE BCP

Synthetic bone materials with outstanding **new bone formation** and long term **volume stability**



Keep the volume!
Faster new bone formation!
Successful bone grafting solution

Type	Size(mm)	Weight(g)
Vial type	0.3~0.5	0.1
		0.25
		0.5
	0.5~1.0	1.0
		0.1
		0.25
	1.0~2.0	0.5
		1.0
		1.0

Excellent wettability

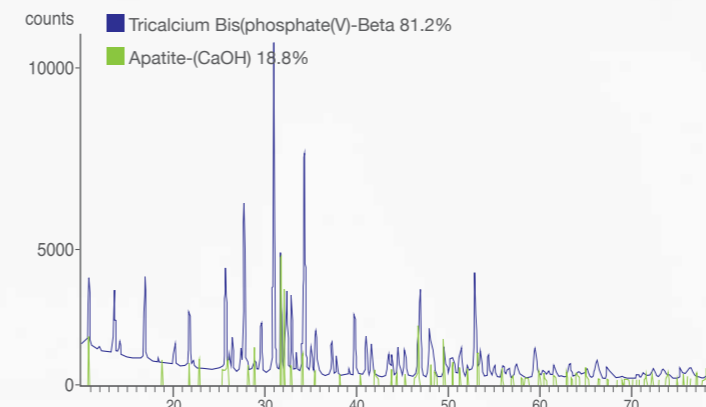
Easy handling to compound blood or saline through excellent wettability



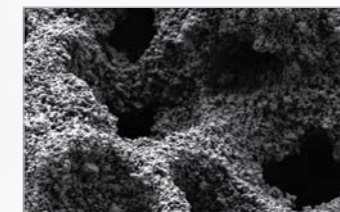
Optimized component ratio in synthetic bone

80% β -Tricalcium Phosphate(β -TCP)
20% Hydroxyapatite(HA)

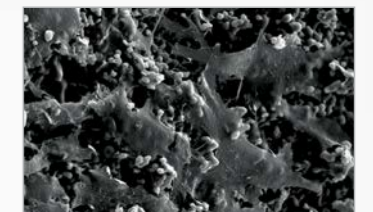
HA 20% + β -TCP 80%



20 μ m Micro pore size, 200 μ m Micro pore size



Micro pore size(X500)



cell adhesive ability(x1000)

Safety strictly managed by a clean room

Higher safety taken by biocompatible raw material and clean room process

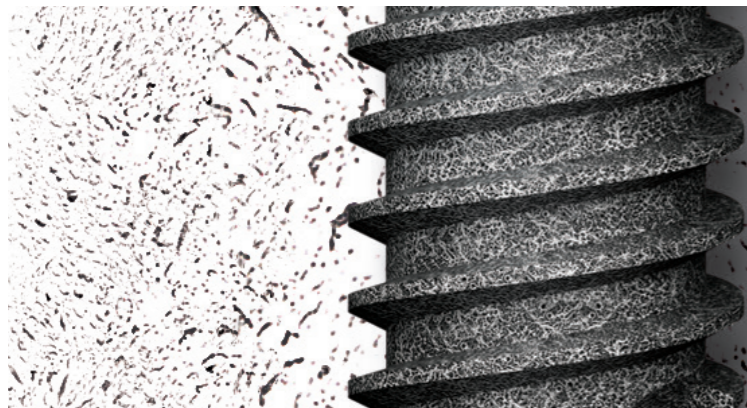


OneQ

Smoother Insertion,
Enhanced Surface,
Various sizes,
**OneQ Implant for
All Indications**

DENTIS IMPLANT SYSTEM for All Indications

OneQ - SL



S.L.A. Surface for faster osseointegration

Various sizes of implant

- Optimized surface roughness (Ra 2.5~3.0 μ m)
- Larger surface area
- S.L.A. surface with no residues

s-clean Line-up

**Narrow Type
Straight Body**

Narrow, but high fatigue strength implant in anterior are
(\varnothing 3.0, \varnothing 3.3)

**Regular Type
Tapered-Straight Body**

Most common sizes of the implant providing superb solutions
for a variety of bone conditions
(\varnothing 3.9, \varnothing 4.2, \varnothing 4.7, \varnothing 5.2)

**Wide Type
Tapered-Straight Body**

Useful in wide socket after extraction of a posterior tooth
or even a failed implant.
(\varnothing 6.0, \varnothing 7.0, \varnothing 8.0)

i-clean Line-up

**Regular Type
Platform Diameter \varnothing 4.8**

Most common sizes of the implant providing superb solutions for a
variety of bone conditions
(\varnothing 3.7, \varnothing 4.2, \varnothing 4.7, \varnothing 5.2)

**Wide Type
Platform Diameter \varnothing 6.5**

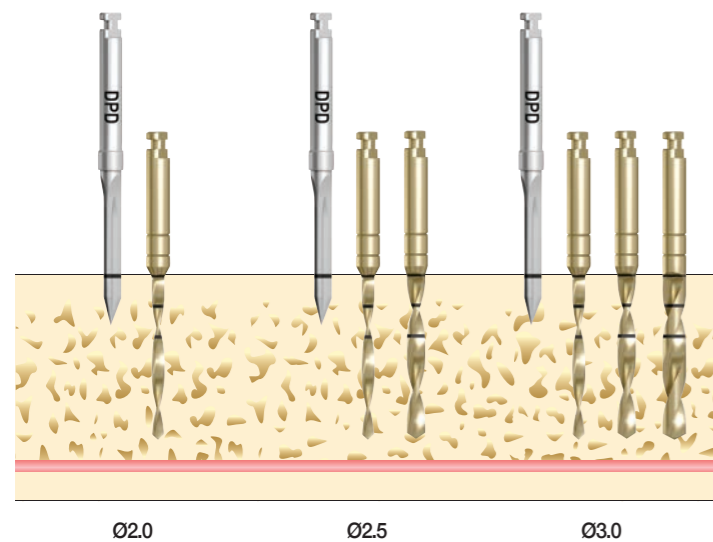
Useful in wide socket after extraction of
a posterior tooth or even a failed implant.
(\varnothing 4.7, \varnothing 5.2, \varnothing 6.0, \varnothing 7.0)

I-FIX

DENTIS Mini Implant for Anterior Region



I-FIX DRILLING SEQUENCE



Fixture Diameter	Drilling Sequence
Ø2.0 Fixture	Point Drill → Ø1.3 Fixture Drill → Ø2.0 Fixture
Ø2.5 Fixture	Point Drill → Ø1.3 Fixture Drill → Ø1.8 Fixture Drill → Ø2.5 Fixture
Ø3.0 Fixture	Point Drill → Ø1.3 Straight Drill → Ø1.8 Straight Drill → Ø2.3 Straight Drill → Ø3.0 Fixture

DENTIS MINI IMPLANT



POST TYPE

- Optimized in a narrow space of maxillary or mandibular anterior region
- One-body type design provides maximum strength
- Special fixture-neck design making faster healing time
- Different cuff size according to a patient's gingival height



ANGLE TYPE

- Specialized 2 pieces type design improving connection force and safety of placement
- Cemented and Angled type abutments
- Comfortable 2 different types of impression coping



O-RING TYPE

- Suitable for a implant retained denture
- Making fast and simple temporary prosthesis