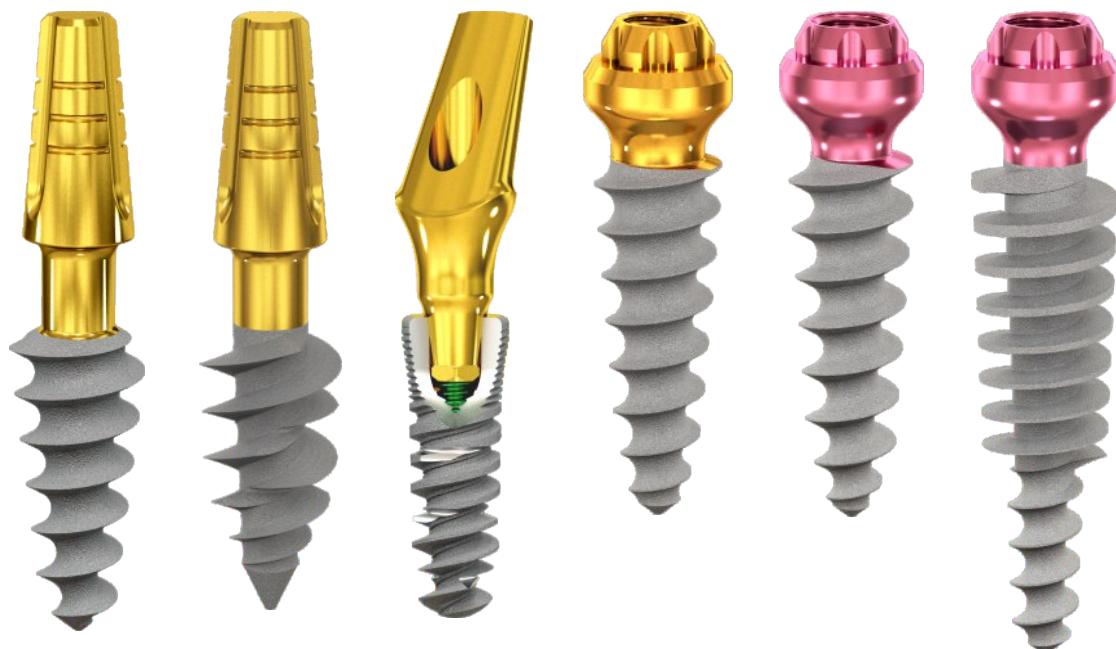


ROOTT
open implant system

System overview



TRATE



*“The only one-piece implant
with no organic contaminants
or inorganic residues.”*

"Quality assessment of dental implants by SEM and EDX analysis.

A comparison of five one-piece implants"

Dr. Dirk U. Duddeck, CleanImplant Foundation.

ZWP 3/2016, p. 12-18.



High quality and safety standards

We operate a quality management system based on EN ISO 13485:2016.

The company's products are certified in compliance with the provisions
European Directive 93/42/EEC.

Created for dentists by dentists

The ROOTT Implant System is developed and constantly upgrading by TRATE AG in close cooperation with members of Open Dental Community.

The ROOTTCONCEPT has dispensed with the overcomplicated treatment procedures recommended by implant manufacturers who are limited by their products on the market.

The ROOTT philosophy is to create the ideal artificial tooth which organically integrates with existing biological structures in the simplest way.

Class leading surface purity (ZWP 3/2016, p. 12-18).



Innovations and development

The system development aims to reflect the collective view of independent dental practitioners throughout the world thus TRATE AG closely cooperate with the Open Dental Community NPO (Luxembourg). This approach avoids reliance on individual opinions and makes dentists free to select the method most suited to the patient.

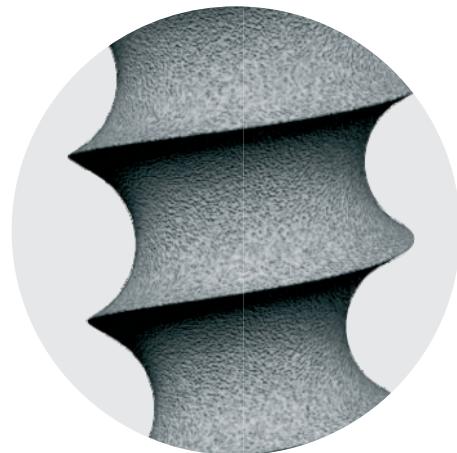


COMPRESSIVE implants

The COMPRESSIVE implant is a one-piece implant with compressive threads. It is used for multiple unit restorations with immediate loading in the upper and lower jaws with adequate bone tissue. It can be used in combination with basal implants and allows flap and flapless placement. Abutment direction can be adjusted up to 15° relative to the implant axis.



- Special compressive threads
- Immediate loading
- Adjustable abutment slope angle
- In accordance with FILO concept can be combined with Basal implants in pterygoid area for total rehabilitation



"The FILO Concept is based in three principles: Flapless surgery, Immediate Loading, and use of one-piece implants. Compressive is a multi-purpose implant and Basal is reserved to Pterygoid Area when it is necessary."

Clinical case



Dr. Alvaro Bastida
Spain



More clinical cases at Open Dental Community Group on Facebook

TRATE

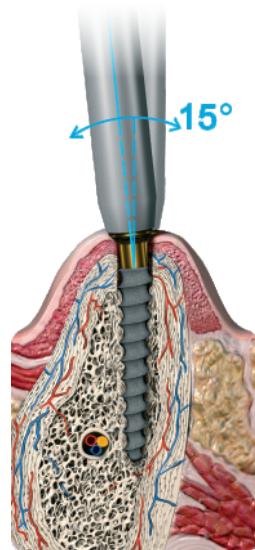
Wide range of sizes

From short and wide to thin and long



Bendable neck

Depending on the length of the implant the abutment can be bent up to 15 degrees, as long as the implant is placed with high primary stability



Variety of prosthetic solutions

From cemented fixation and burn-out angulated caps to telescopic caps with screwed retention and CAD-CAM solutions on multiunit platforms.



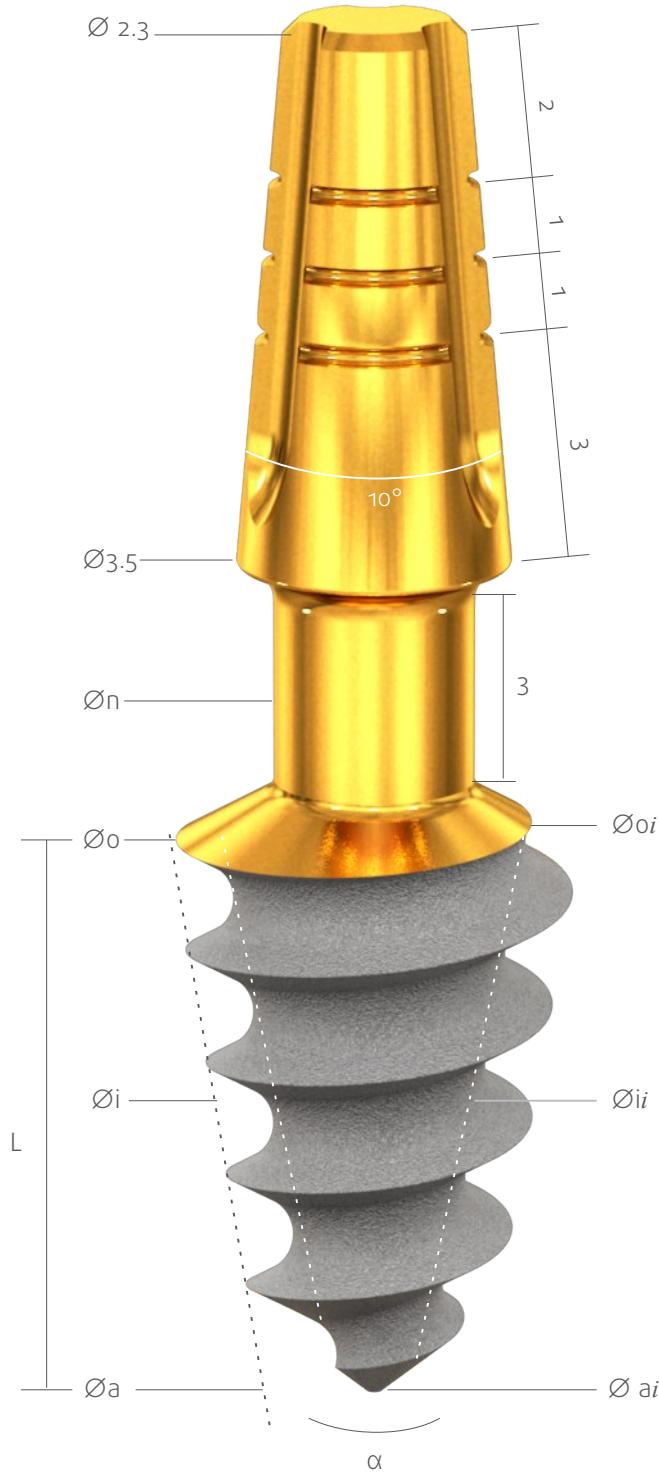
Smart instrument sets

FILO Instrument set for minimal invasive surgery and ESBIPRO kit for bone ridge splitting





Compressive implants



o - occlusal diameter (mm); i - intraosseous diameter (mm); a - apical diameter (mm); n - neck diameter;
α - total internal angle (°); s - intraosseous square area (mm²); i = internal.

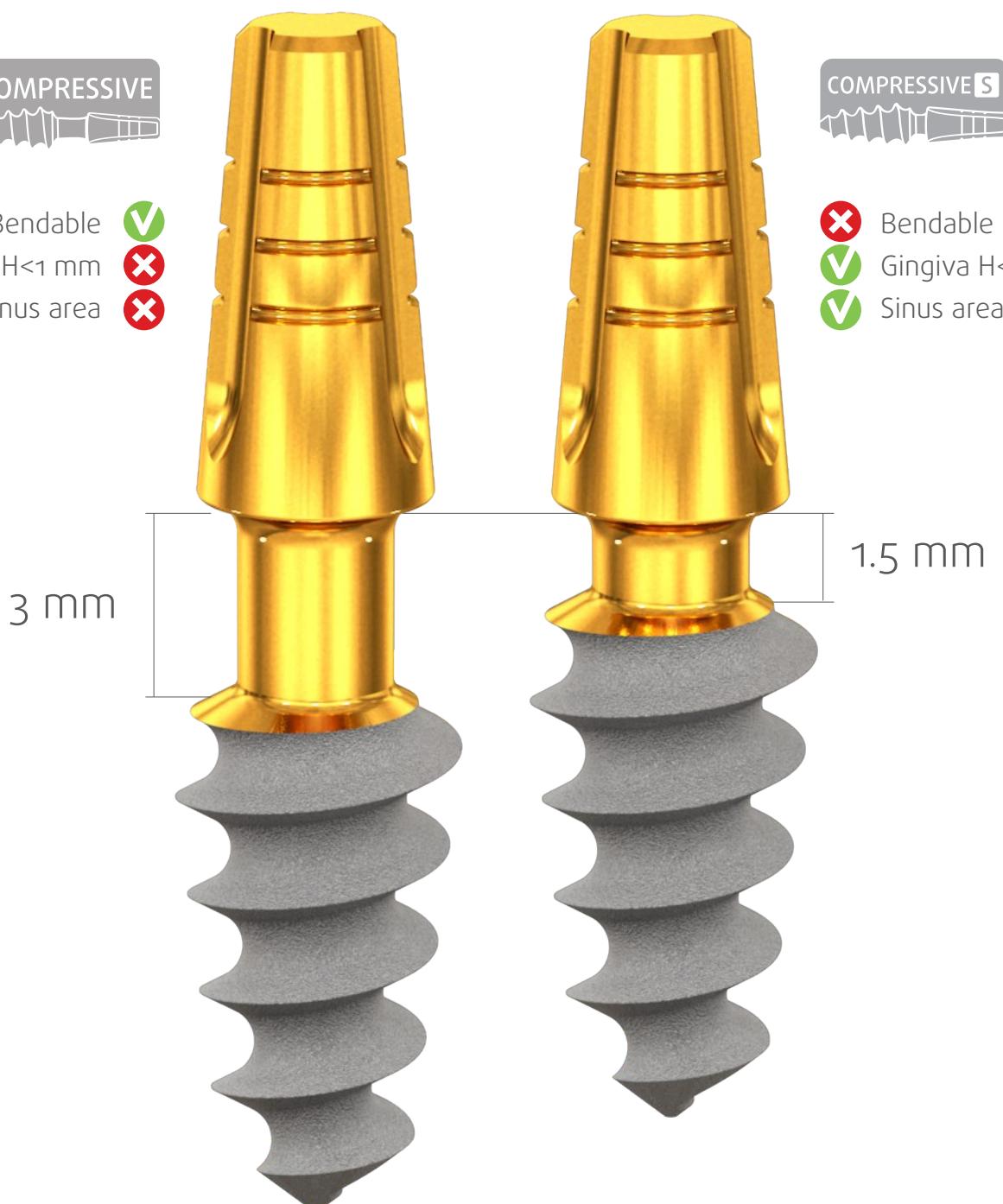
	$\varnothing 3.0$ $0i\ 2.05$ $n\ 2.05$	$\varnothing 3.5$ $0i\ 2.46$ $n\ 2.05$	$\varnothing 4.0$ $0i\ 2.95$ $n\ 2.05$	$\varnothing 4.5$ $0i\ 3.05$ $n\ 2.35$	$\varnothing 5.0$ $0i\ 3.55$ $n\ 2.35$	$\varnothing 5.5$ $0i\ 4.04$ $n\ 2.55$
L 6 mm	C3006 2.4 1.4 1.9 0.9 43 12	C3506 2.6 1.6 1.9 0.9 49 18	C4006 3.1 2.0 2.4 1.2 59 23	C4506 3.5 2.1 2.9 1.4 73 22	C5006 3.9 2.4 3.2 1.7 82 27	C5506 4.2 2.7 3.3 1.8 88 33
L 8 mm	C3008 2.4 1.4 1.9 0.9 58 9	C3508 2.6 1.6 1.9 0.9 65 13	C4008 3.1 2.0 2.4 1.2 82 27	C4508 3.6 2.2 2.9 1.4 100 16	C5008 4.0 2.5 3.2 1.8 112 20	C5508 4.2 2.7 3.3 1.8 121 24
L 10 mm	C3010 2.4 1.4 1.9 0.9 73 7	C3510 2.6 1.6 1.9 0.9 82 10	C4010 2.9 1.8 1.9 0.8 92 13	C4510 3.4 1.9 2.4 1.0 117 13	C5010 3.7 2.2 2.6 1.2 131 16	C5510 3.8 2.4 2.5 1.0 139 19
L 12 mm	C3012 2.3 1.3 1.7 0.7 86 6	C3512 2.6 1.6 1.8 0.8 97 8	C4012 2.8 1.8 1.8 0.8 109 11	C4512 3.3 1.9 2.4 0.9 140 10	C5012 3.8 2.4 2.8 1.4 163 13	C5512 4.0 2.5 2.5 1.1 167 15
L 14 mm	C3014 2.4 1.3 1.9 0.7 99 5	C3514 2.6 1.5 1.8 0.7 111 7	C4014 2.9 1.8 1.8 0.8 128 9	C4514 3.3 1.9 2.3 0.9 162 9	C5014 3.6 2.2 2.4 0.9 179 11	C5514 3.8 2.3 2.3 0.8 191 13
L 16 mm	C3016 2.4 1.4 1.7 0.8 118 4	C3516 2.6 1.6 1.8 0.8 128 6	C4016 2.9 1.8 1.8 0.8 146 8	C4516 3.3 1.9 2.3 0.8 84 8		
L 18 mm	C3018 2.4 1.3 1.7 0.7 128 4	C3518 2.7 1.7 1.8 0.8 146 5	C4018 2.9 1.8 1.8 0.8 164 7	C4518 3.3 1.9 2.2 0.8 206 7		
L 20 mm	C3020 2.4 1.3 1.7 0.7 143 4	C3520 2.6 1.6 1.8 0.7 161 5	C4020 2.9 1.8 1.8 0.7 180 6	C4520 3.3 1.9 2.2 0.8 230 6		

$\varnothing i$ | $\varnothing ii$
 $\varnothing a$ | $\varnothing ai$
 S | α

Compressive implants with short neck



- Bendable 
- Gingiva H<1 mm 
- Sinus area 



-  Bendable
-  Gingiva H<1 mm
-  Sinus area

L 6 mm

C4006S



L 8 mm

C4008S



L 10 mm

C4010S



\varnothing 4.0

C4506S



C4508S



C4510S



\varnothing 4.5

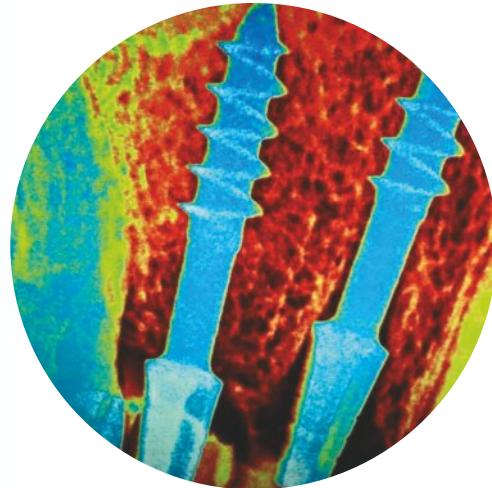


BASAL implants

BASAL implants are used to create multiple unit restorations in the upper and lower jaws. Can be placed in extraction sockets and in healed bone. The structural characteristics allow placement in height and width deficient bones. Can be placed with flap or flapless technique. Can be used to bypass the mandibular nerve, and for engagement of the cortical bone at the fusion of the pterygoid with the maxilla. Can be used in combination with compressive implants. Can be adjusted up to 15° relative to the implant axis.



- Ideal for resorbed ridges
- Immediate loading
- Placement in the socket of an extracted tooth
- Excellent protection from inflammation around the implant
- Abutment adjustment angle up to 15°



Clinical case



Dr. Ducko Aurel
Slovakia

[More clinical cases at Open Dental Community Group on Facebook](#)

TRATE

Wide range of sizes

From short and wide to thin and long



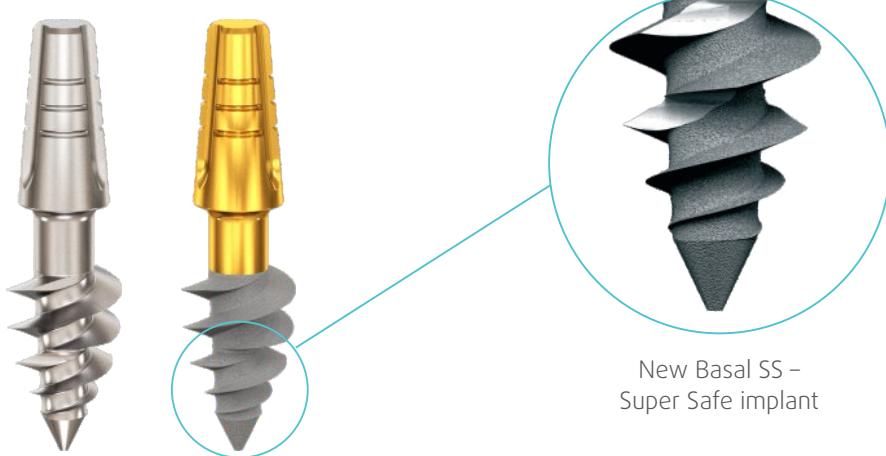
Long polished bendable neck

Depending on the length of the implant the abutment can be bent up to 15° as long as the implant is placed in sound bone

Polished surface protects from accumulation of bacteria at the cervical part of the implant

Different surfaces

Polished, sandblasted and anodized

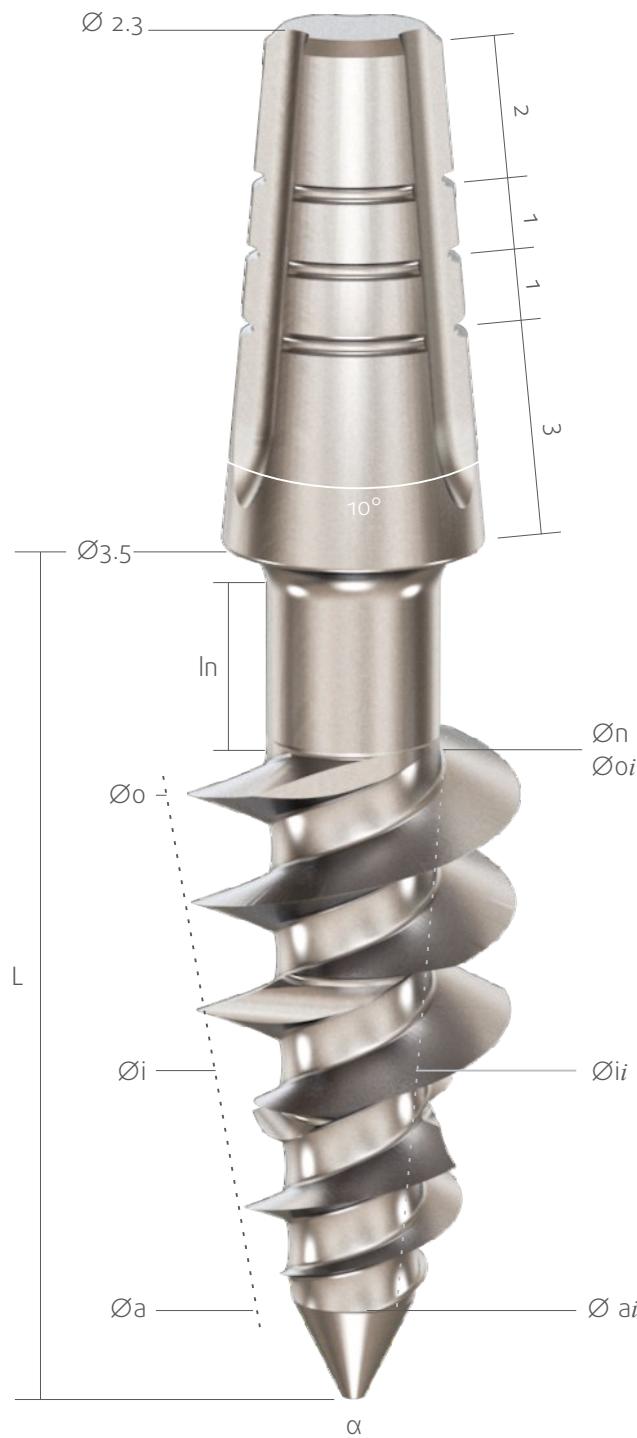


Smart instrument sets

From individual drill for each implant to all-on-2 drills set for each implant



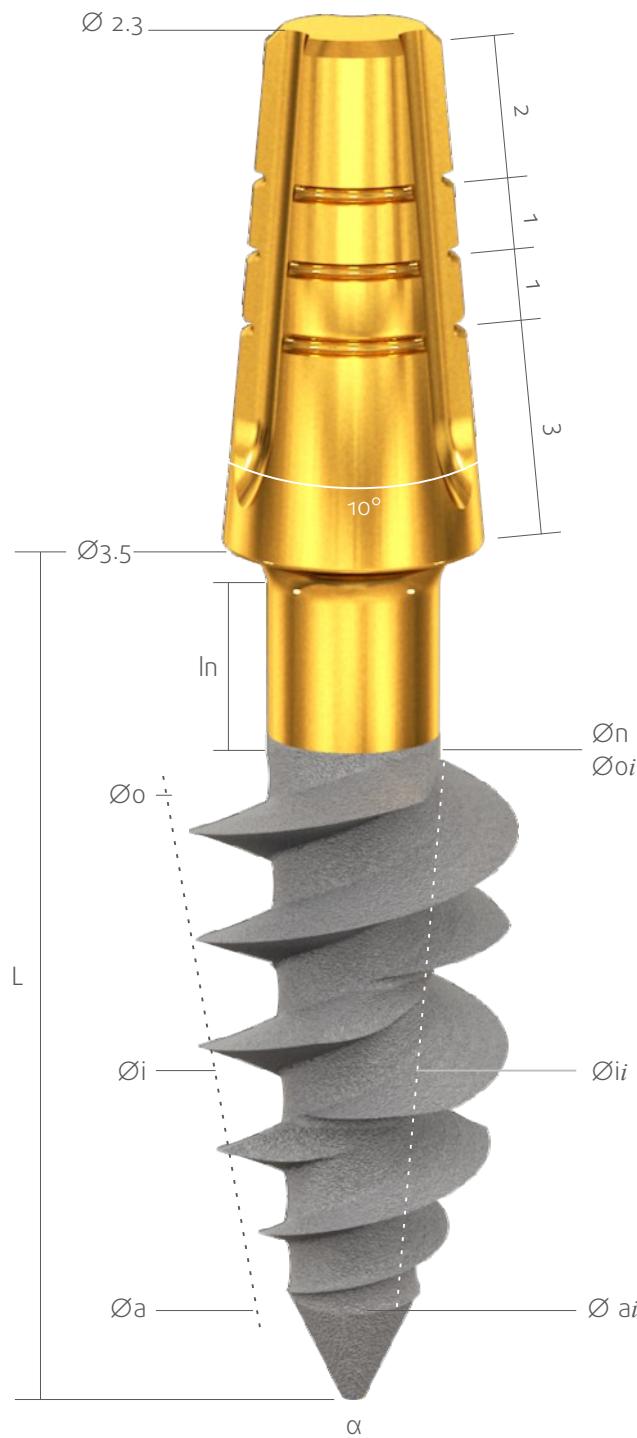
Basal implants



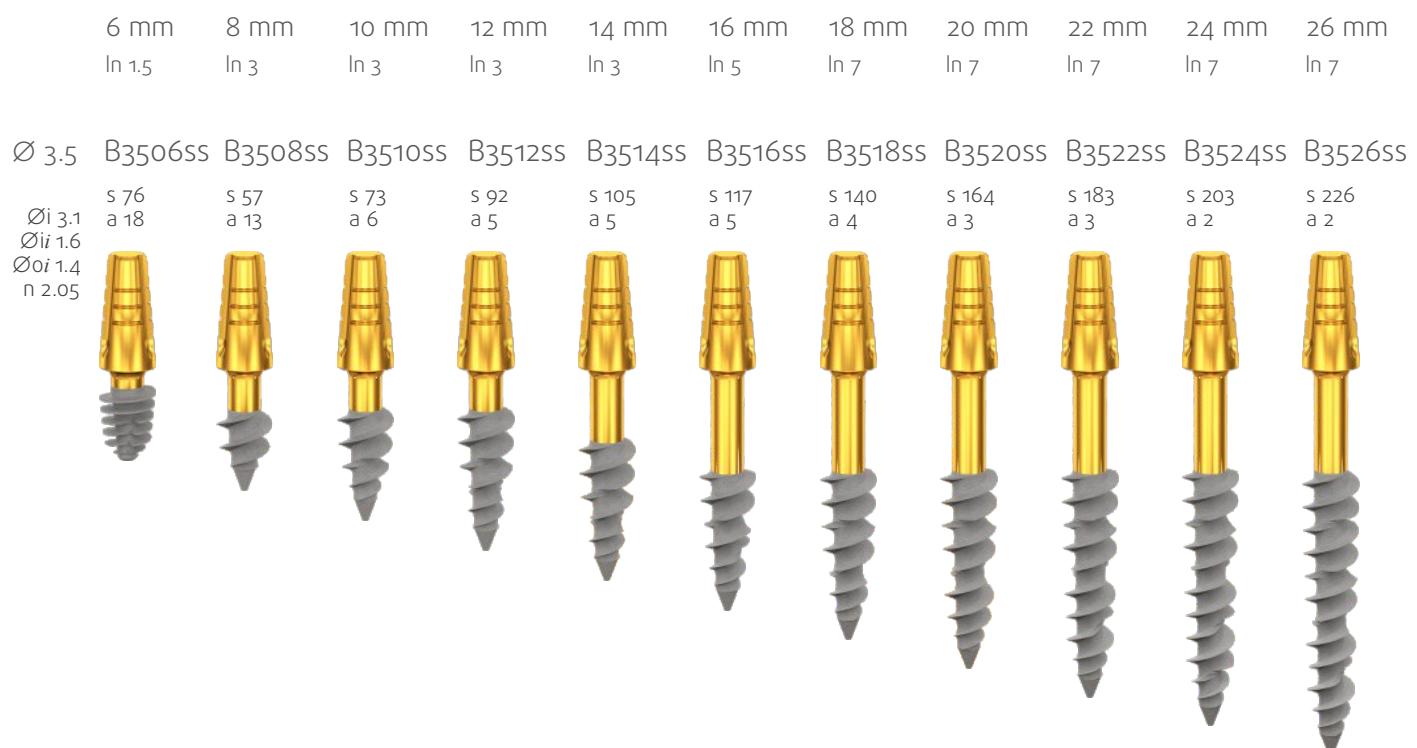
o - occlusal diameter (mm); i - intraosseous diameter (mm); a - apical diameter (mm); n - neck diameter;
 α - total internal angle ($^\circ$); s - intraosseous square area (mm^2); i = internal.

	6 mm ln 1.5	8 mm ln 3	10 mm ln 3	12 mm ln 3	14 mm ln 3	16 mm ln 5	18 mm ln 7	20 mm ln 7	22 mm ln 7	24 mm ln 7	26 mm ln 7
$\varnothing 3.5$	B3506	B3508	B3510	B3512	B3514	B3516	B3518	B3520	B3522	B3524	B3526
$\varnothing i 3.1$ $\varnothing ii 1.6$ $\varnothing oi 1.4$ $n 2.05$	S 76 a 18	S 57 a 13	S 73 a 6	S 92 a 5	S 105 a 5	S 117 a 5	S 140 a 4	S 164 a 3	S 183 a 3	S 203 a 2	S 226 a 2
$\varnothing 4.5$	B4508	B4510	B4512	B4514	B4516	B4518	B4520	B4522	B4524	B4526	
$\varnothing i 4.2$ $\varnothing ii 2.0$ $\varnothing oi 1.7$ $n 2.35$	S 82 a 13	S 105 a 6	S 137 a 5	S 151 a 5	S 166 a 5	S 201 a 4	S 239 a 3	S 268 a 3	S 299 a 2	S 329 a 2	S 335 a 2
$\varnothing 5.5$	B5508	B5510	B5512	B5514							
$\varnothing i 4.3$ $\varnothing ii 2.1$ $\varnothing oi 1.4$ $n 2.35$	S 108 a 10	S 115 a 9	S 147 a 7	S 170 a 6							

Sandblasted basal implants



o - occlusal diameter (mm); i - intraosseous diameter (mm); a - apical diameter (mm); n - neck diameter;
 α - total internal angle ($^\circ$); s - intraosseous square area (mm^2); i = internal.



External platform

Transfers



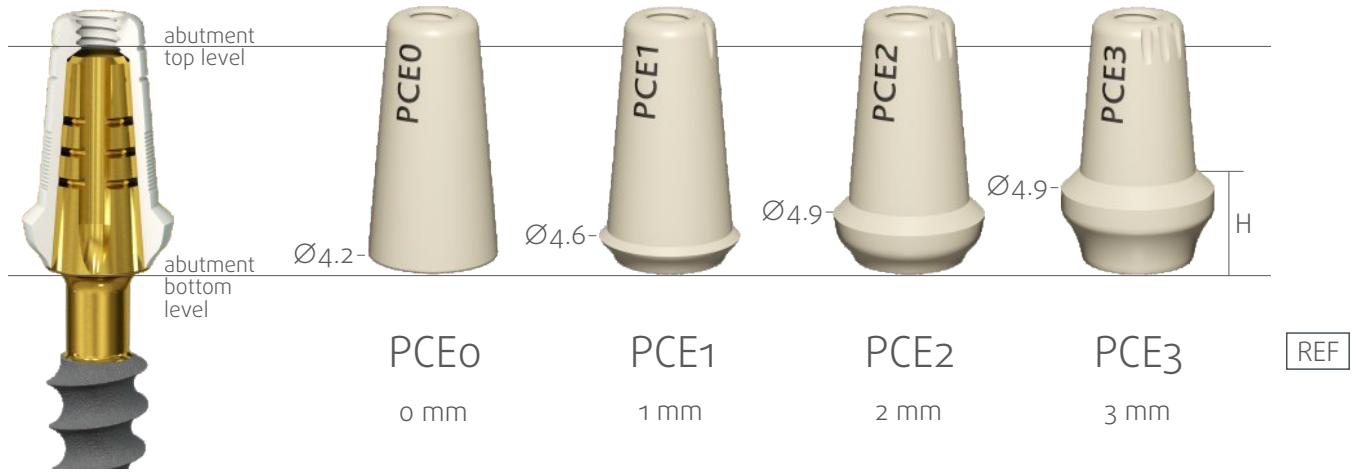
Analogues



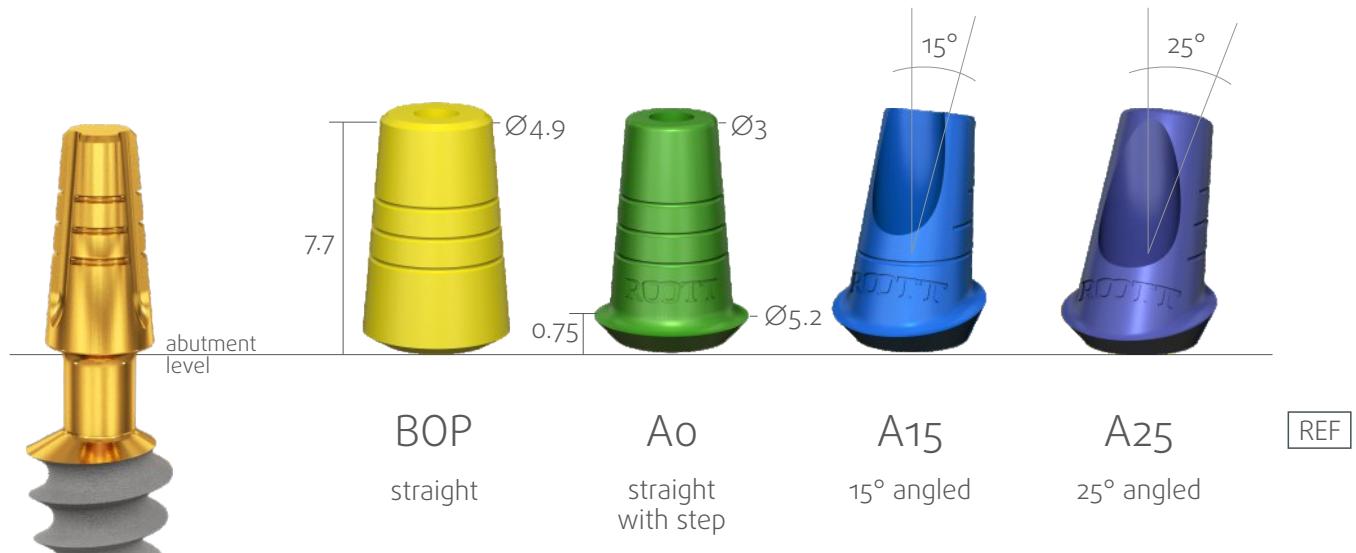
Titanium caps



PEEK caps



Burnout parts



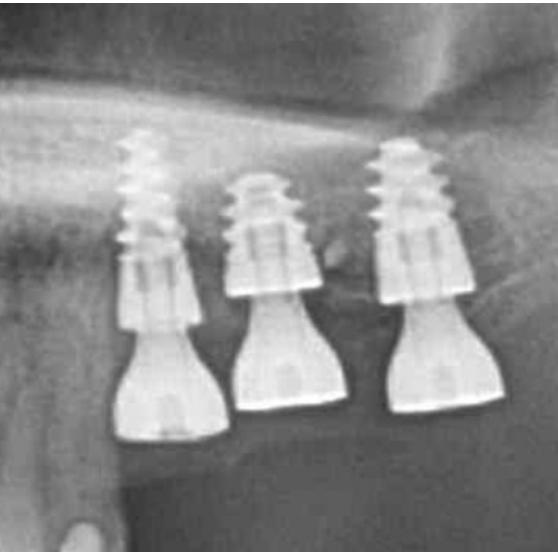


ROOTFORM implants

Two-component Rootform implant with combined thread and reliable tapered connection is intended for single and multiple restorations with immediate and delayed loading in the upper and lower jaws in all types of bone tissue. Implant can be placed by flap or flapless approach with subcrestal position of the implants. Implant placement is also possible immediately following tooth extraction, as long as sufficient bone tissue is available.



- High primary stability in all bone types
- Active self-tapping thread
- Reliable implant-abutment connection



Clinical case



Dr. Mohamad
El Moheb
France

More clinical cases at Open Dental Community Group on Facebook

TRATE

Wide range of sizes

From short and wide to thin and long



Highly stable
and secure
connection

Precision cone and internal hex,
connection accurate +/- 0.007 mm

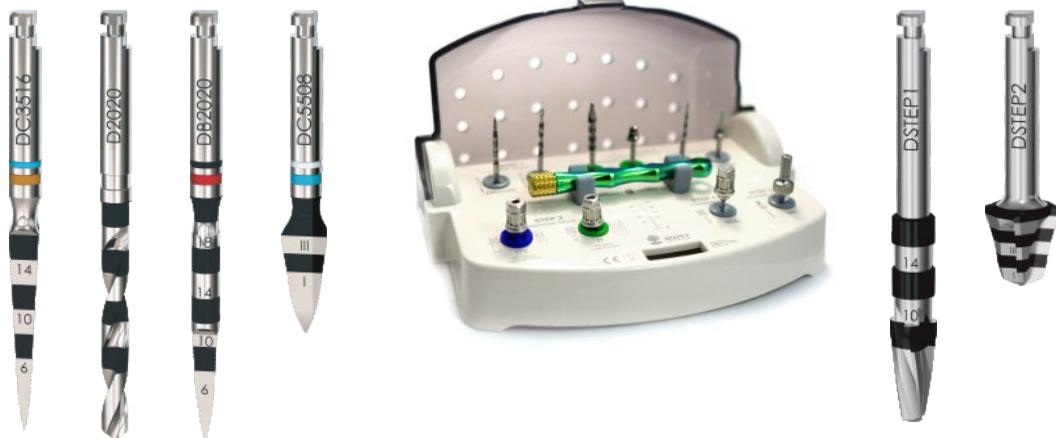
CRE Multifunctional part

Made from Ti6Al4V. Can be used as:

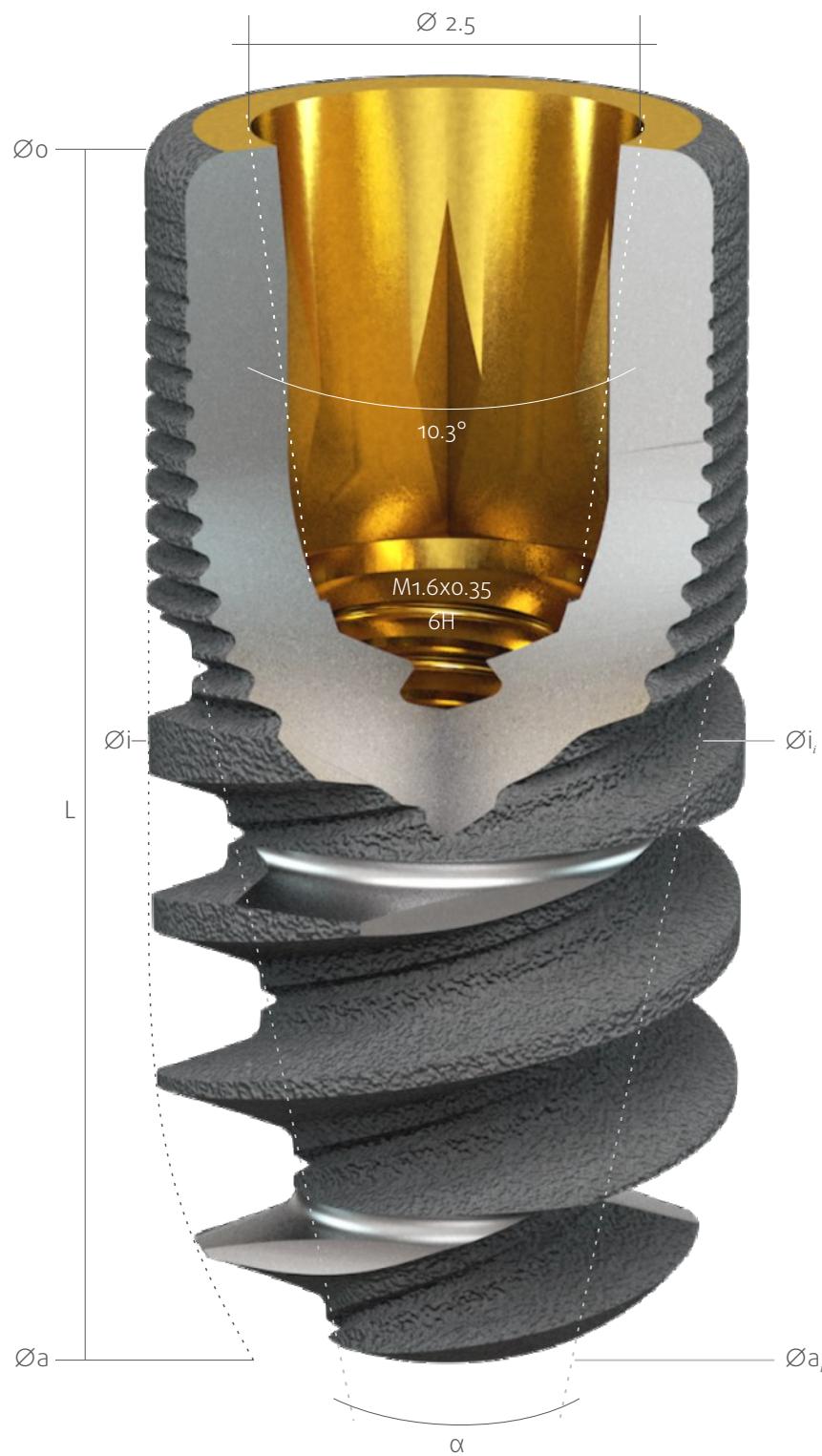
- Carrier for implant insertion (up to 40 N/cm)
- Abutment for immediate loading
- Base for individual gingiva former
- Transfer for open/close tray



TRS Universal instrument set



Two-piece implants



\circ - occlusal diameter (mm); i - intraosseous diameter (mm); a - apical diameter (mm);
 α - total internal angle (°); s - intraosseous square area (mm²); i = internal.

\varnothing 3.0

\varnothing 3.5

\varnothing 3.8

\varnothing 4.2

\varnothing 4.8

\varnothing 5.5

R3506

R3806

R4206

R4806

R5506

L 6 mm

$\varnothing i$ | $\varnothing i$
 $\varnothing a$ | $\varnothing a$
S | α

TiGr23

R3508

R3808

4208

R4808

R5508

L 8 mm

3.5 | 3.3
3.4 | 1.7
111 | 20

3.8 | 3.4
3.7 | 1.3
128 | 21.2

3.6 | 3.2
3.5 | 1.2
125 | 21.2

4.2 | 3.8
4.1 | 1.7
147 | 23.6

4.9 | 4.5
4.8 | 2.3
177 | 23.6

R3010

R3510

R3810

R4210

R4810

R5510

L 10 mm

3.0 | 2.5
2.8 | 1.4
114 | 14

3.5 | 3.2
3.3 | 0.8
137 | 21

3.8 | 3.4
3.6 | 1.2
159 | 15.4

3.6 | 3.2
3.4 | 1.2
182 | 15.4

4.2 | 3.8
4.0 | 1.6
182 | 17

4.9 | 4.5
4.7 | 2.3
220 | 17

R3012

R3512

R3812

R4212

R4812

R5512

L 12 mm

3.0 | 2.5
2.7 | 1.4
137 | 9.8

3.4 | 3.2
3.3 | 0.7
164 | 16.6

3.7 | 3.4
3.6 | 1.2
190 | 12.2

3.5 | 3.2
3.4 | 1.1
182 | 12.2

4.1 | 3.8
4.0 | 1.5
217 | 13.6

4.9 | 4.5
4.7 | 2.2
263 | 13.6

R3014

R3514

R3814

R4214

R4814

R5514

L 14 mm

3.0 | 2.5
2.5 | 1.4
159 | 7.5

3.4 | 3.2
3.2 | 0.7
188 | 13.8

3.7 | 3.4
3.5 | 1.1
221 | 10.2

3.5 | 3.2
3.3 | 1.1
209 | 9.8

4.1 | 3.8
3.9 | 1.4
249 | 11.4

4.8 | 4.5
4.6 | 2.1
304 | 11.4

R3016

R3516

R3816

R4216

R4816

R5516

L 16 mm

2.9 | 2.4
2.4 | 1.4
178 | 6

3.3 | 3.2
3.1 | 0.6
215 | 12

3.6 | 3.4
3.4 | 1.0
249 | 9

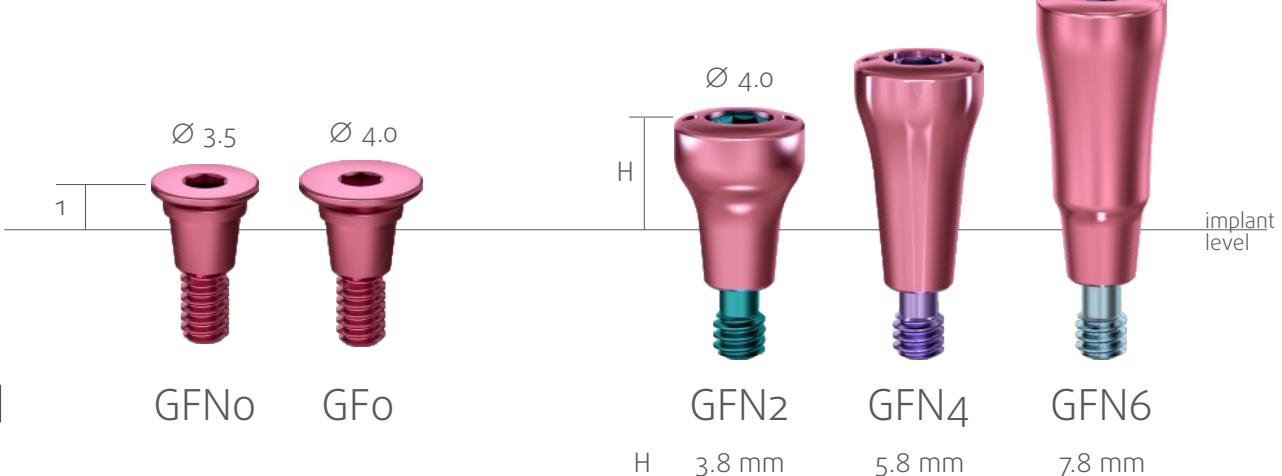
3.4 | 3.2
3.1 | 0.8
234 | 9.8

4.0 | 3.8
3.8 | 1.4
285 | 9.8

4.7 | 4.5
4.5 | 2.1
346 | 9.8

Gingiva formers

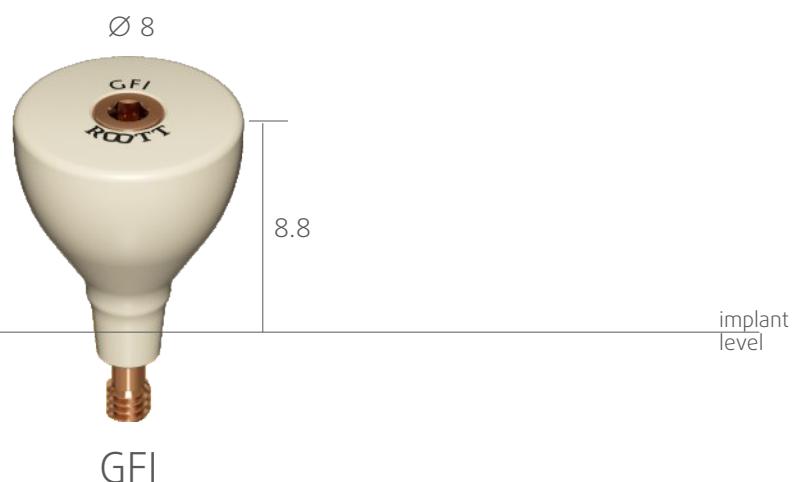
Bone build-up



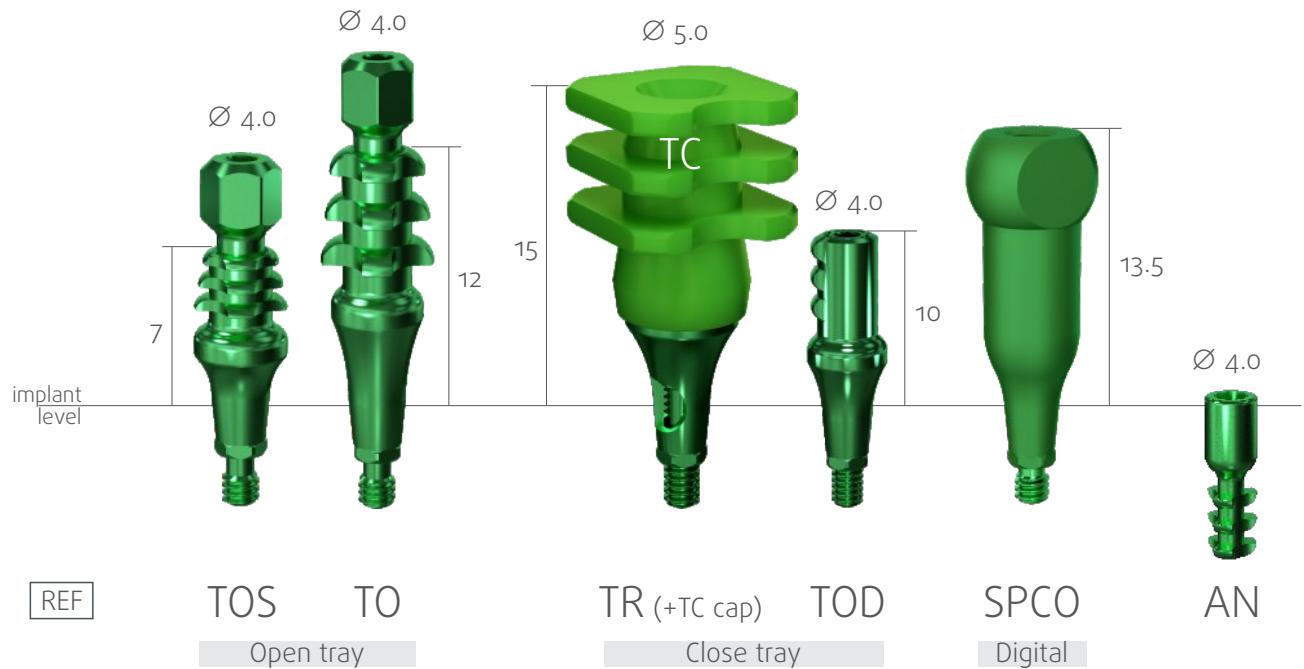
Regular



Individual
(PEEK)



Transfers & implant analogs



TC

Free transfer cap
with each transfer

Abutments



Cement-retained

Digital

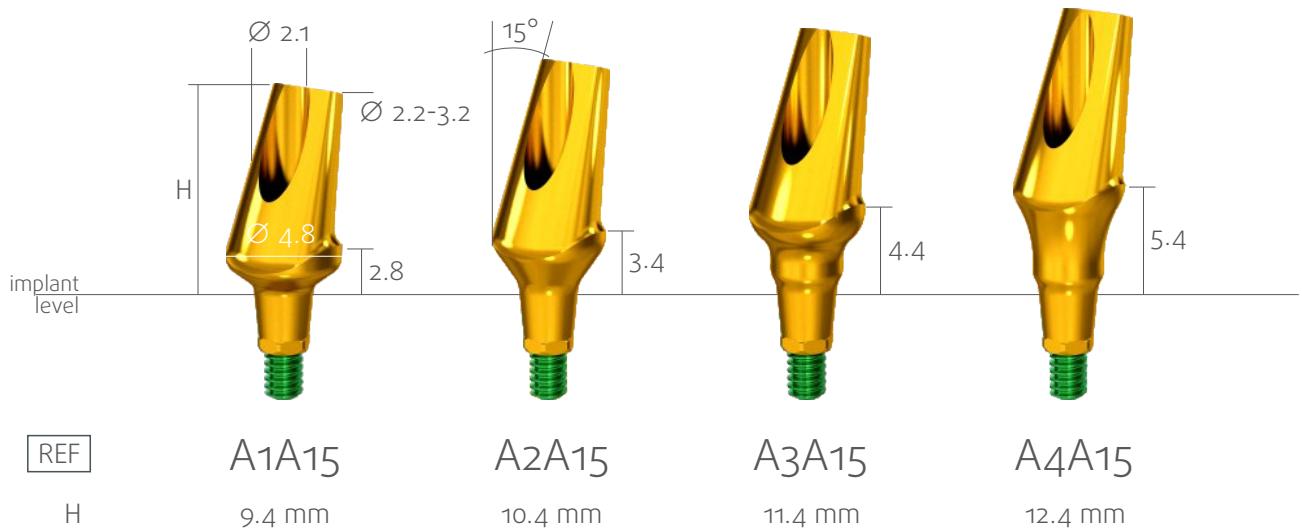
Screw-retained

Attachment

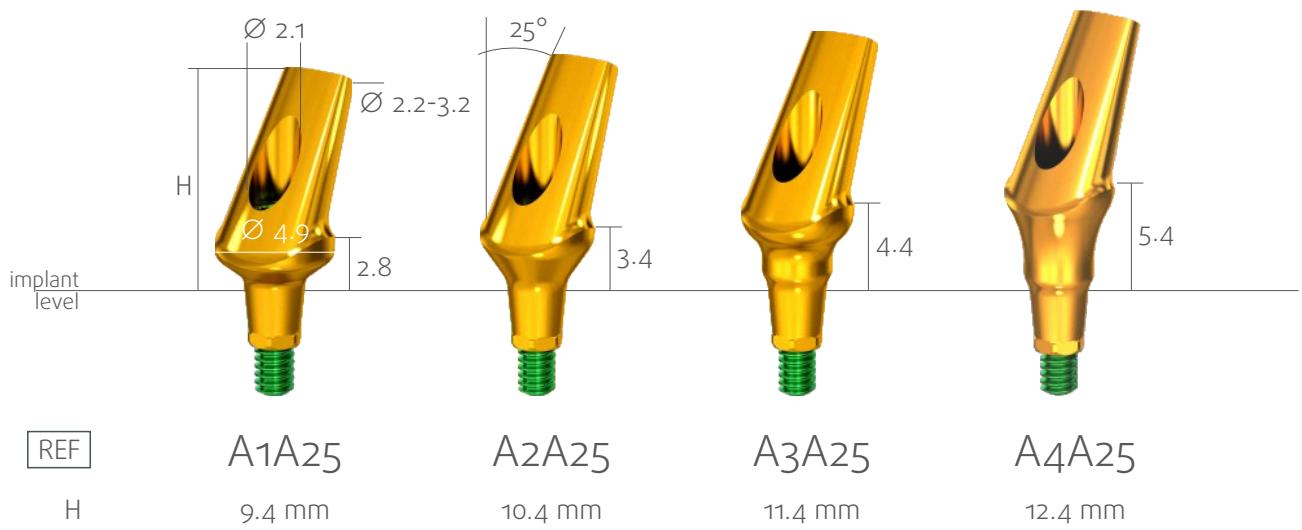
Straight anatomical abutments



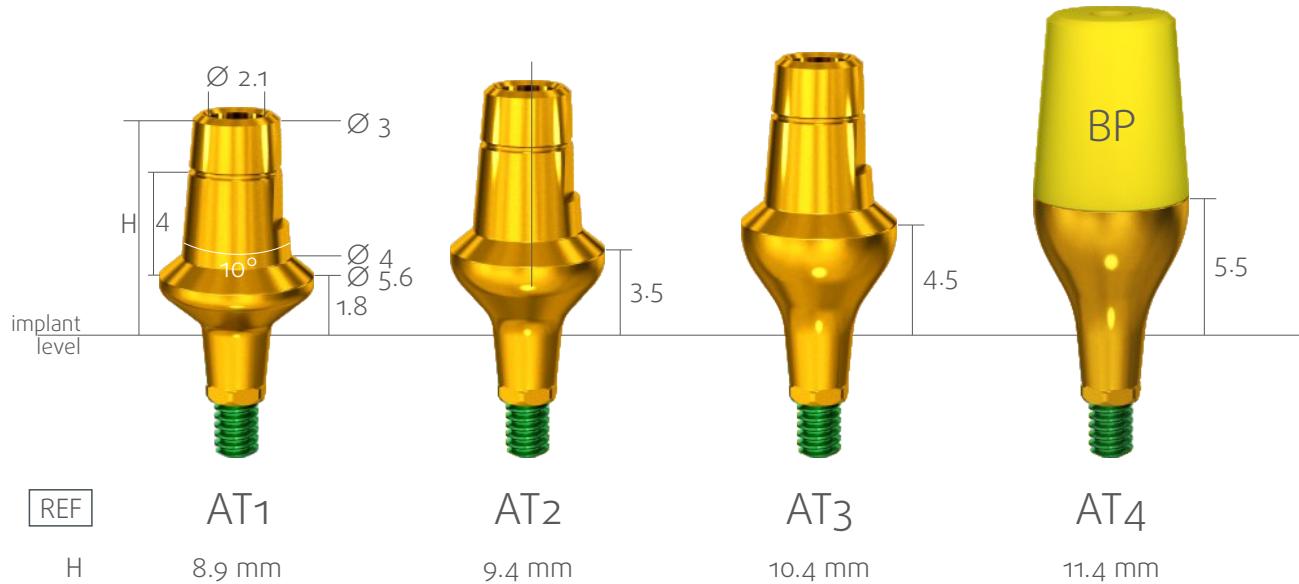
15° angled anatomical abutments



25° angled anatomical abutments



Transgingival abutments



BP – free burn out part with each transgingival abutment

How it works

Place BP cap
on AT abutment

Adjust height
by cutting

Use wax for modelling
future crown

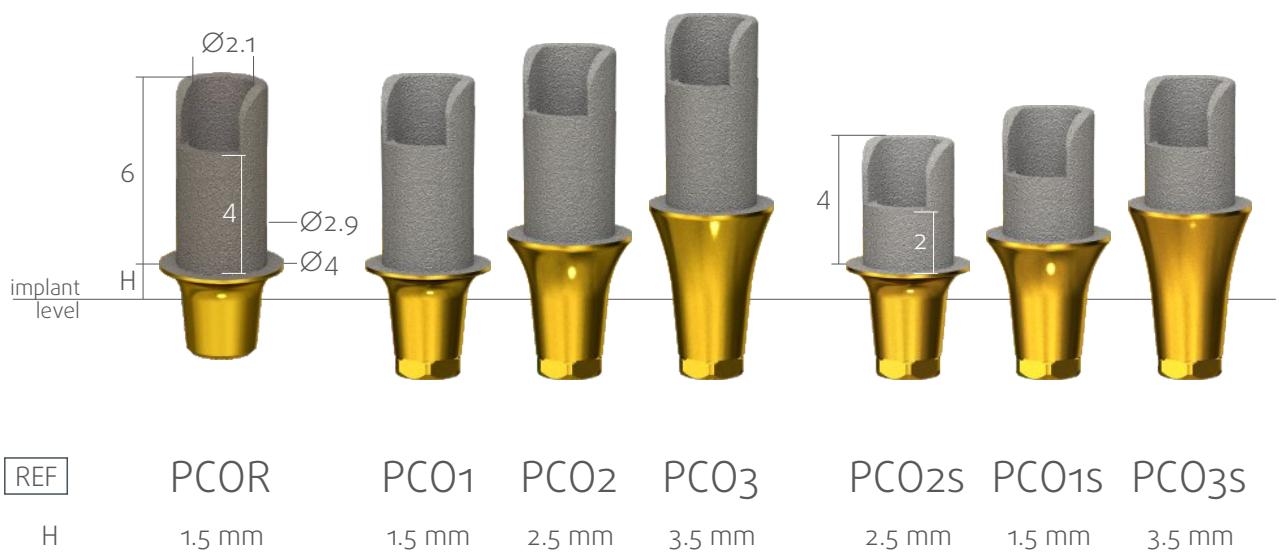
Fix crown to
AT abutment



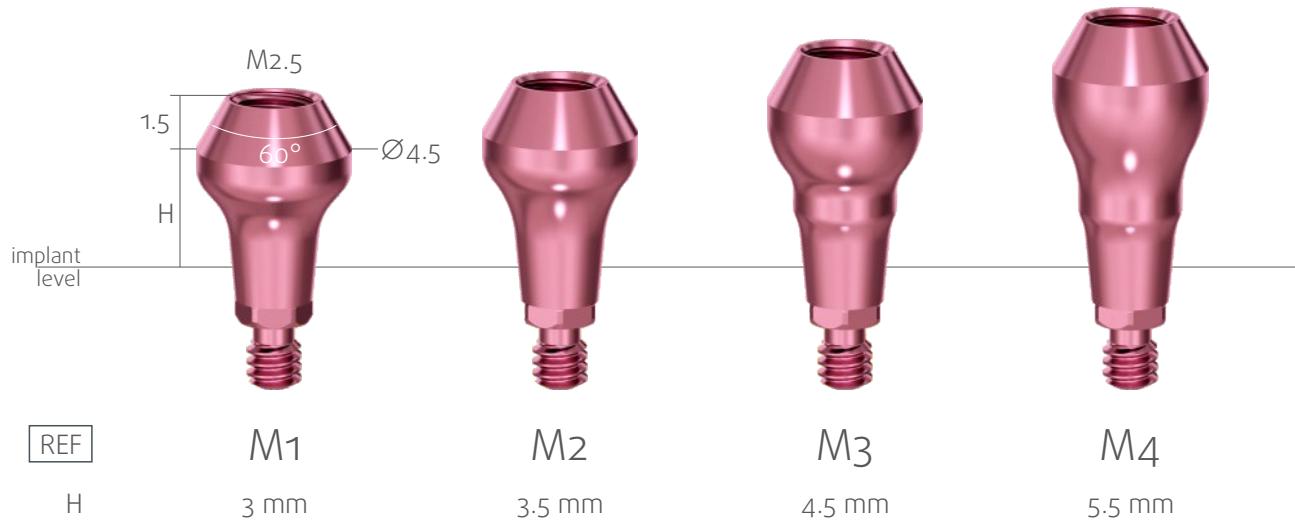
Attachments



CAD-CAM platforms

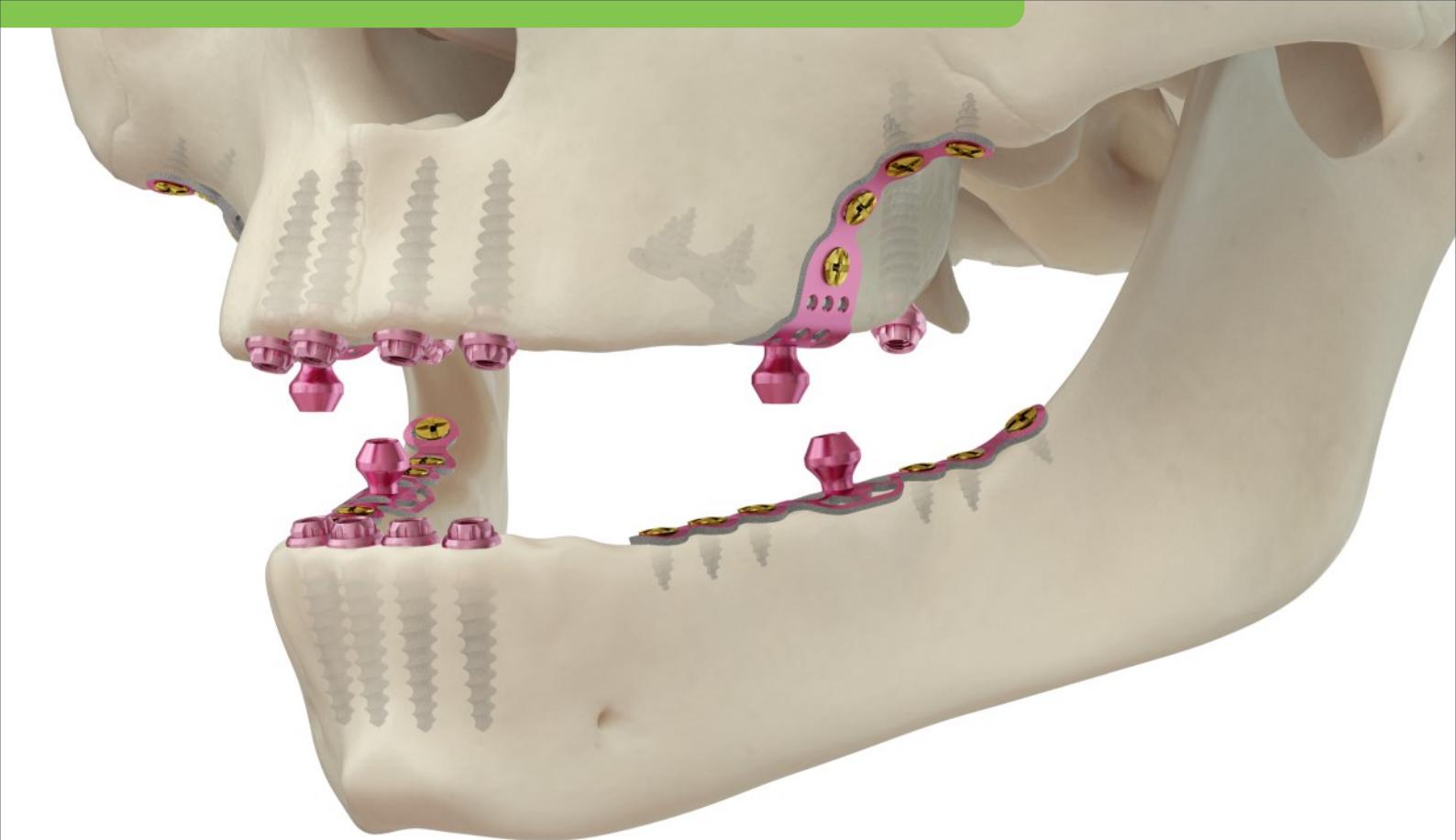


Regular multiunite

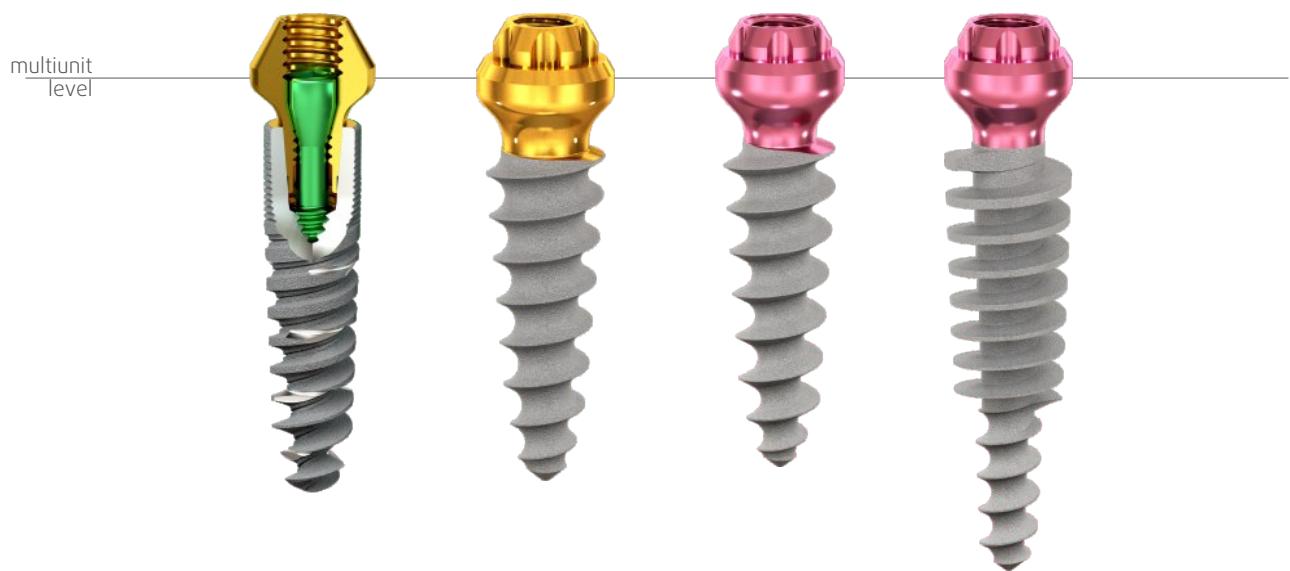


Small multiunite

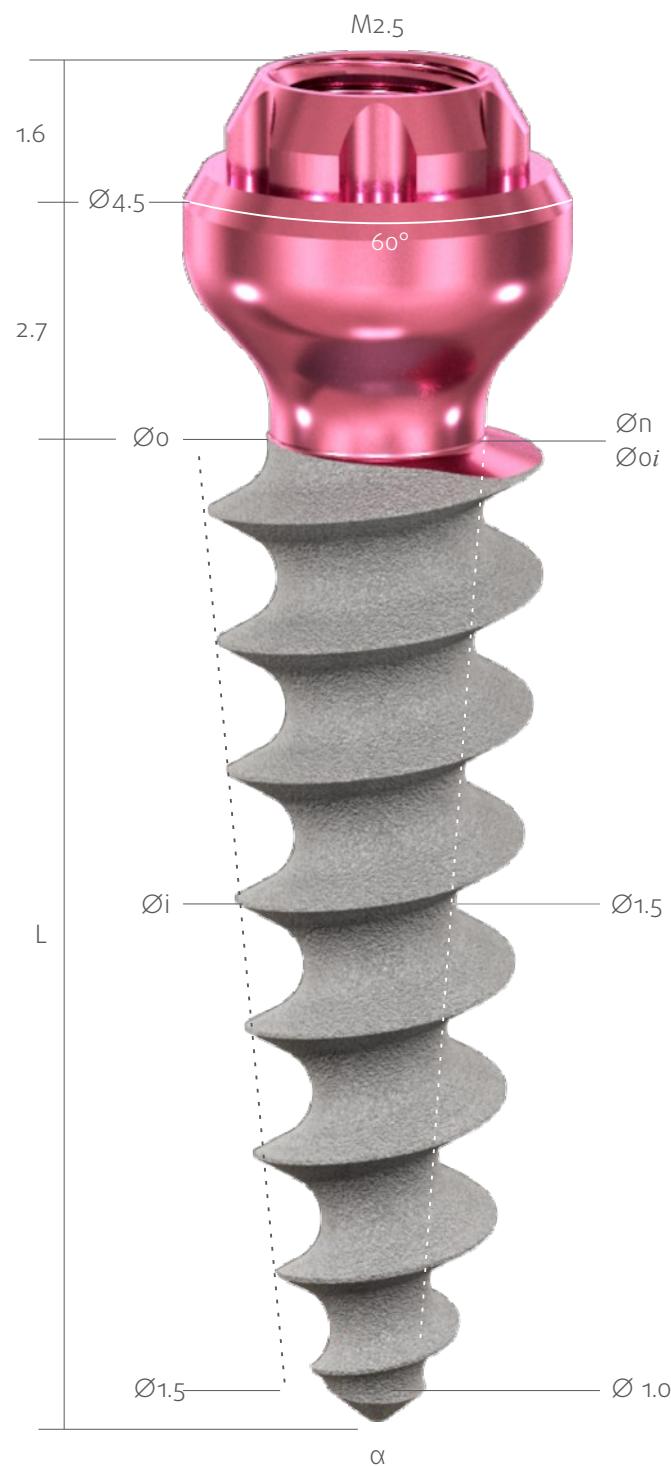




One platform
Multi-unit



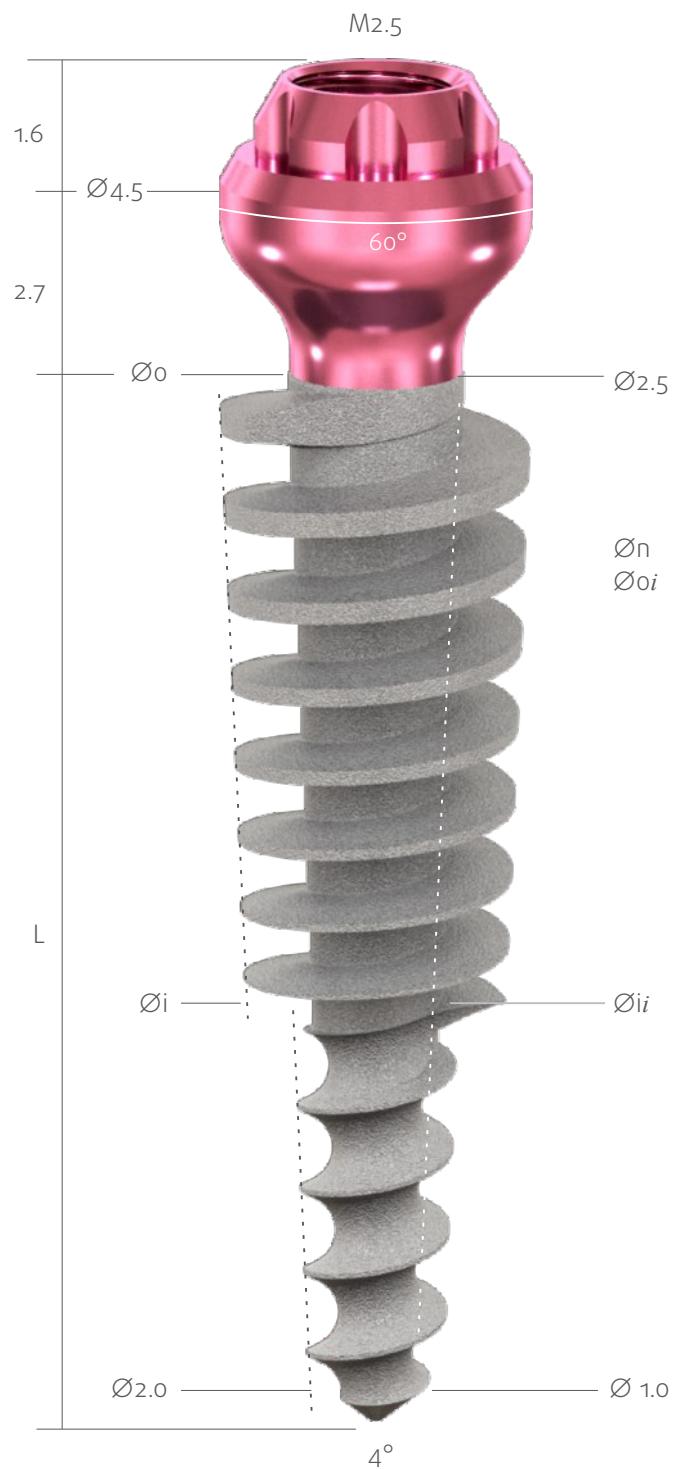
Compressive M implants



o - occlusal diameter (mm); i - intraosseous diameter (mm); a - apical diameter (mm); n - neck diameter;
 α - total internal angle ($^\circ$); s - intraosseous square area (mm^2); i = internal.

	6 mm	8 mm	10 mm	12 mm	14 mm	16 mm	18 mm	20 mm
$\varnothing 3.0$		C3008m	C3010m	C3012m	C3014m	C3016m	C3018m	C3020m
$\varnothing i\ 2.5$ n 2.05	s 62 a 8	s 79 a 6	s 95 a 5	s 112 a 4	s 128 a 4	s 145 a 3	s 161 a 3	
$\varnothing 3.5$	C3506m	C3508m	C3510m	C3512m	C3514m	C3516m	C3518m	C3520m
$\varnothing i\ 2.8$ n 2.05	s 54 a 15	s 72 a 11	s 91 a 9	s 109 a 7	s 127 a 6	s 146 a 6	s 163 a 5	s 182 a 5
$\varnothing 4.0$	C4006m	C4008m	C4010m	C4012m	C4014m	C4016m		
$\varnothing i\ 3.3$ n 2.55	s 63 a 15	s 86 a 11	s 108 a 9	s 130 a 7	s 152 a 6	s 174 a 6		
$\varnothing 5.0$	C5006m	C5008m	C5010m	C5012m	C5014m			
$\varnothing i\ 4.3$ n 2.55	s 82 a 15	s 111 a 11	s 141 a 9	s 170 a 7	s 200 a 6			

Compressive MP implants

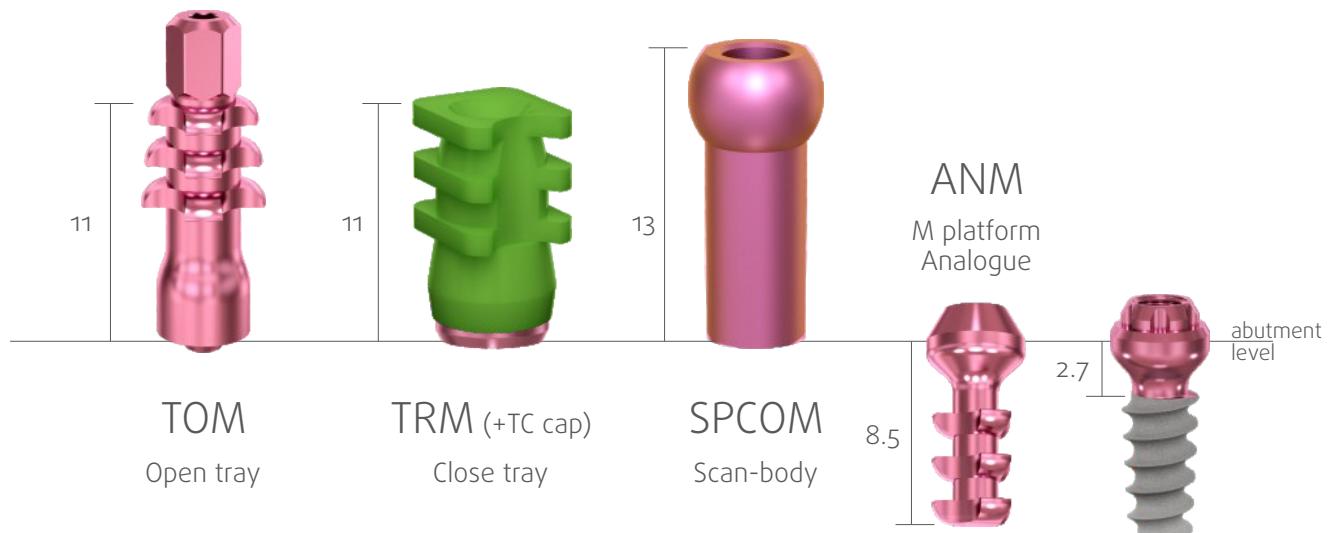


o - occlusal diameter (mm); i - intraosseous diameter (mm); a - apical diameter (mm); n - neck diameter;
 α - total internal angle ($^\circ$); s - intraosseous square area (mm^2); i = internal.

	16 mm	18 mm	20 mm	22 mm	24 mm	26 mm
\varnothing 3.5	C3516mp i 2.8 ii 1.7 S 175	C3518mp i 2.7 ii 1.7 S 175	C3520mp i 2.5 ii 1.5 S 198	C3522mp i 2.6 ii 1.5 S 220	C3524mp i 2.6 ii 1.5 S 248	C3526mp i 2.6 ii 1.5 S 297
	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.
\varnothing 4.5	C4516mp i 3.9 ii 1.8 S 256	C4518mp i 3.7 ii 1.7 S 293	C4520mp i 3.6 ii 1.5 S 332	C4522mp i 3.4 ii 1.4 S 369	C4524mp i 3.3 ii 1.2 S 402	C4526mp i 3.3 ii 1.3 S 443
	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.	A grey, tapered dental implant screw with a pink, hexagonal abutment cap at the top.



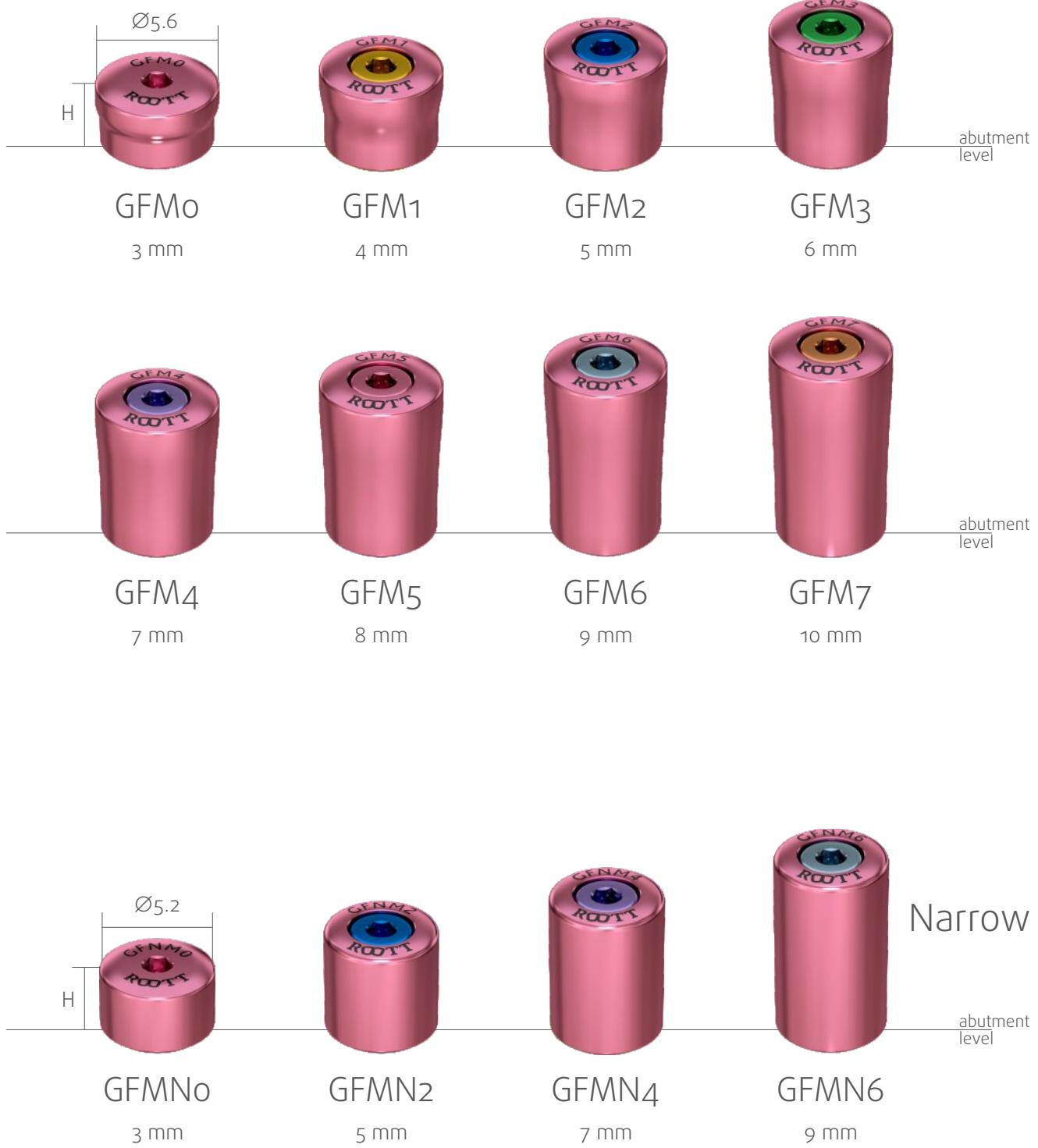
Transfers & analogue



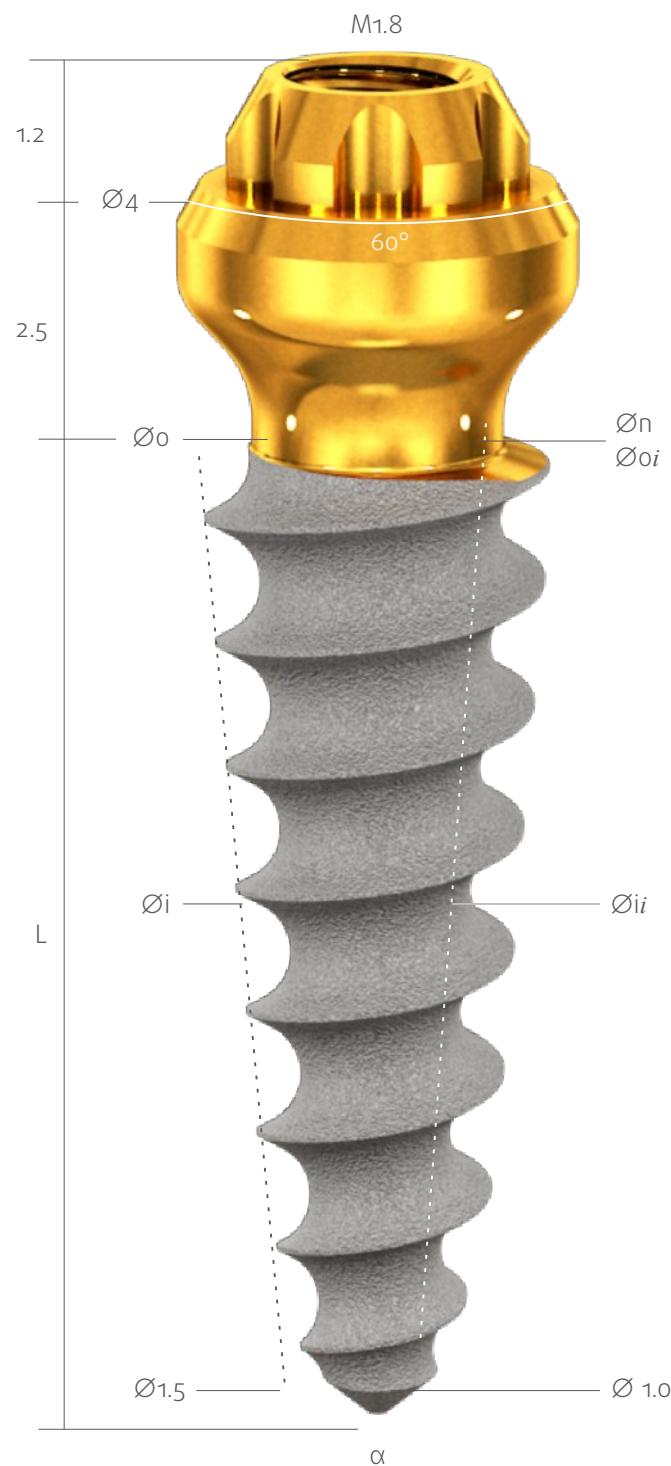
Platforms & abutments



Gingiva formers



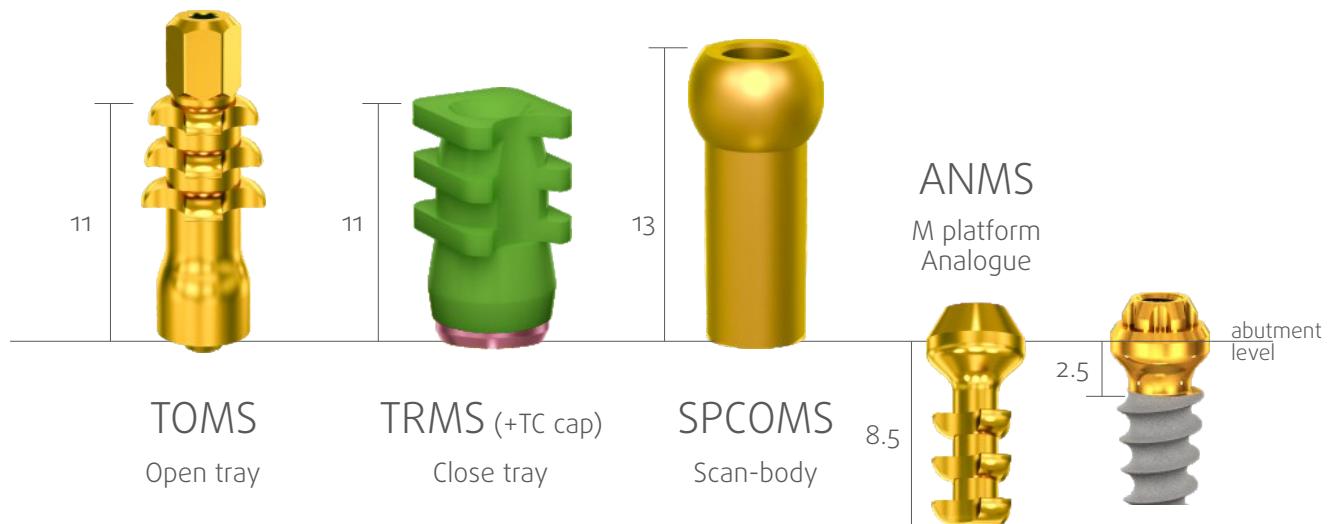
Compressive MS implants



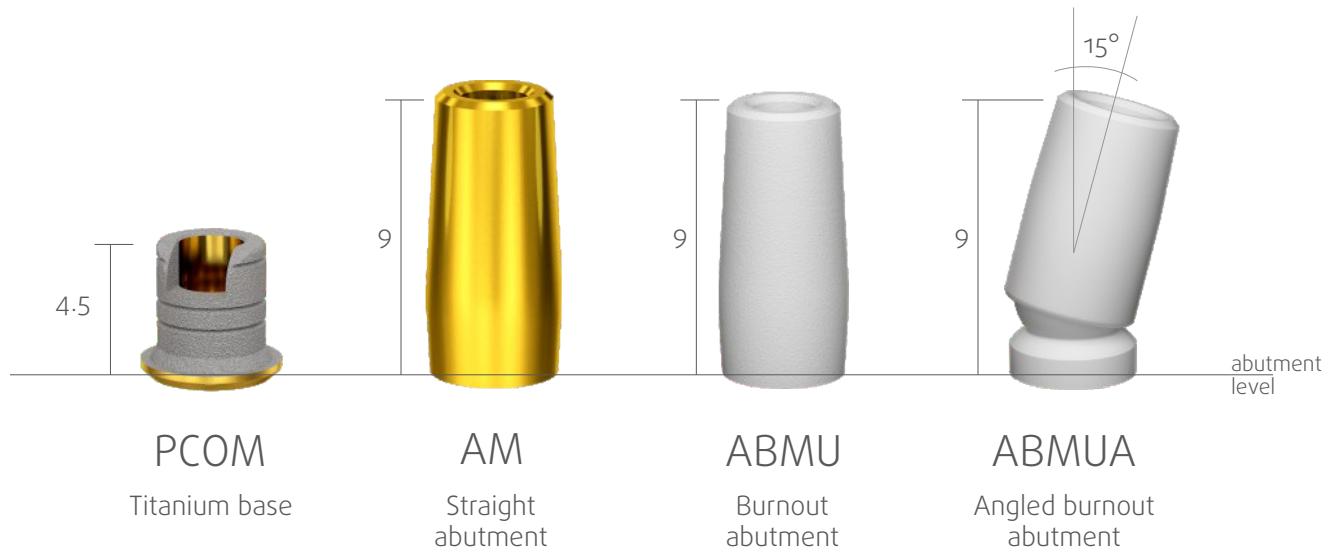
o - occlusal diameter (mm); i - intraosseous diameter (mm); a - apical diameter (mm); n - neck diameter;
 α - total internal angle ($^\circ$); s - intraosseous square area (mm^2); i = internal.

	6 mm	8 mm	10 mm	12 mm	14 mm	16 mm
$\varnothing 3.0$		C3008ms	C3010ms	C3012ms	C3014ms	C3016ms
$\varnothing i\ 2.5$		s 63	s 79	s 95	s 112	s 128
$\varnothing ii\ 1.5$		a 8	a 6	a 5	a 4	a 4
n 2.05						
						
$\varnothing 3.5$	C3506ms	C3508ms	C3510ms	C3512ms	C3514ms	C3516ms
$\varnothing i\ 2.8$	s 54	s 72	s 91	s 109	s 127	s 146
$\varnothing ii\ 1.8$	a 15	a 11	a 9	a 7	a 6	a 5
n 2.55						
						

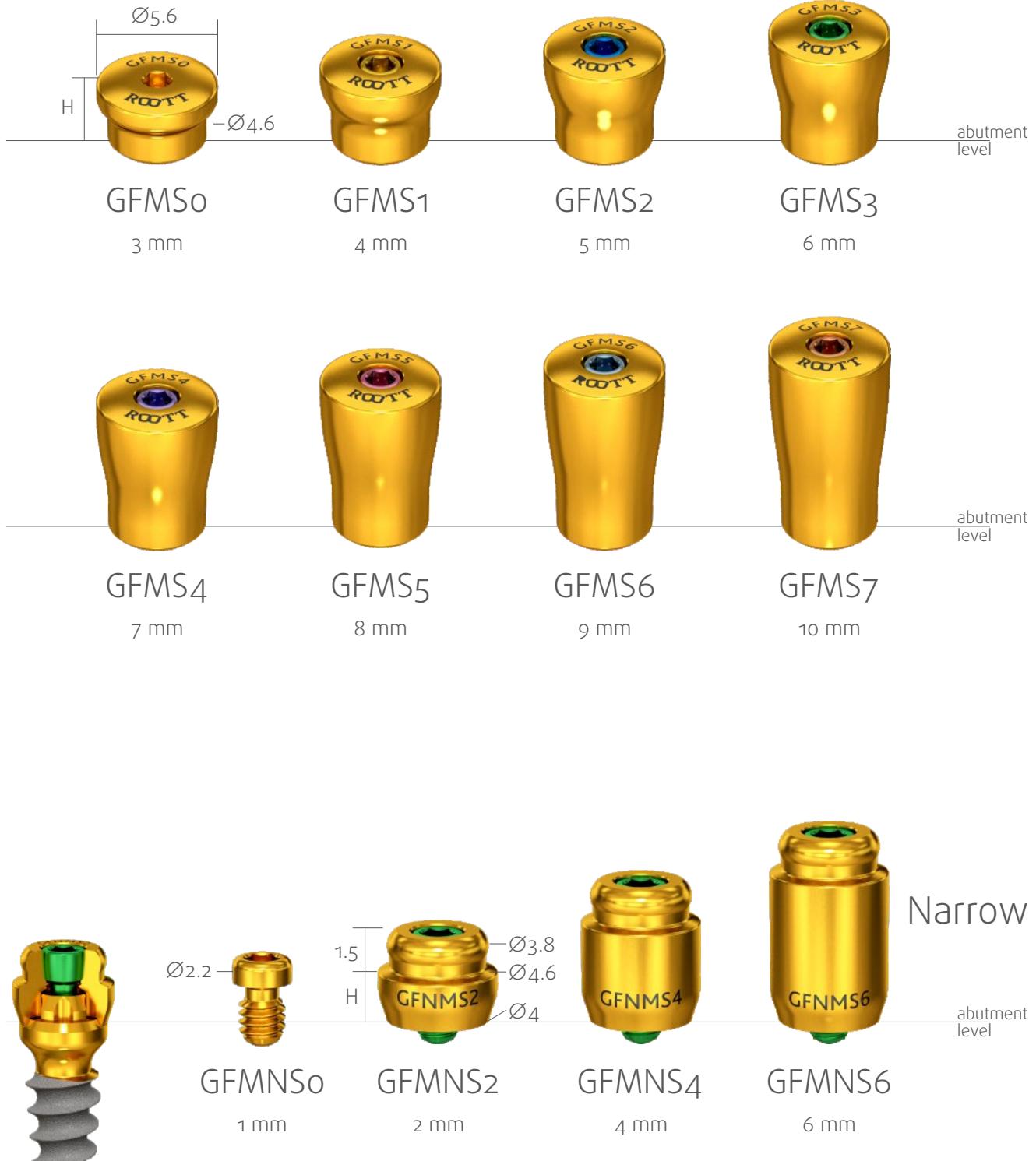
Transfers & analogue



Platforms & abutments



Gingiva formers





Instruments



Rootform drills

D55XX

6-16 mm



D48XX

6-16 mm



D42XX

6-16 mm



D38XX

6-16 mm



D35XX

6-16 mm



D30XX

10-16 mm



Compressive drills

DC55XX

6-14 mm



DC50XX

6-14 mm



DC45XX

6-20 mm



DC40XX

6-20 mm



DC35XX

6-20 mm



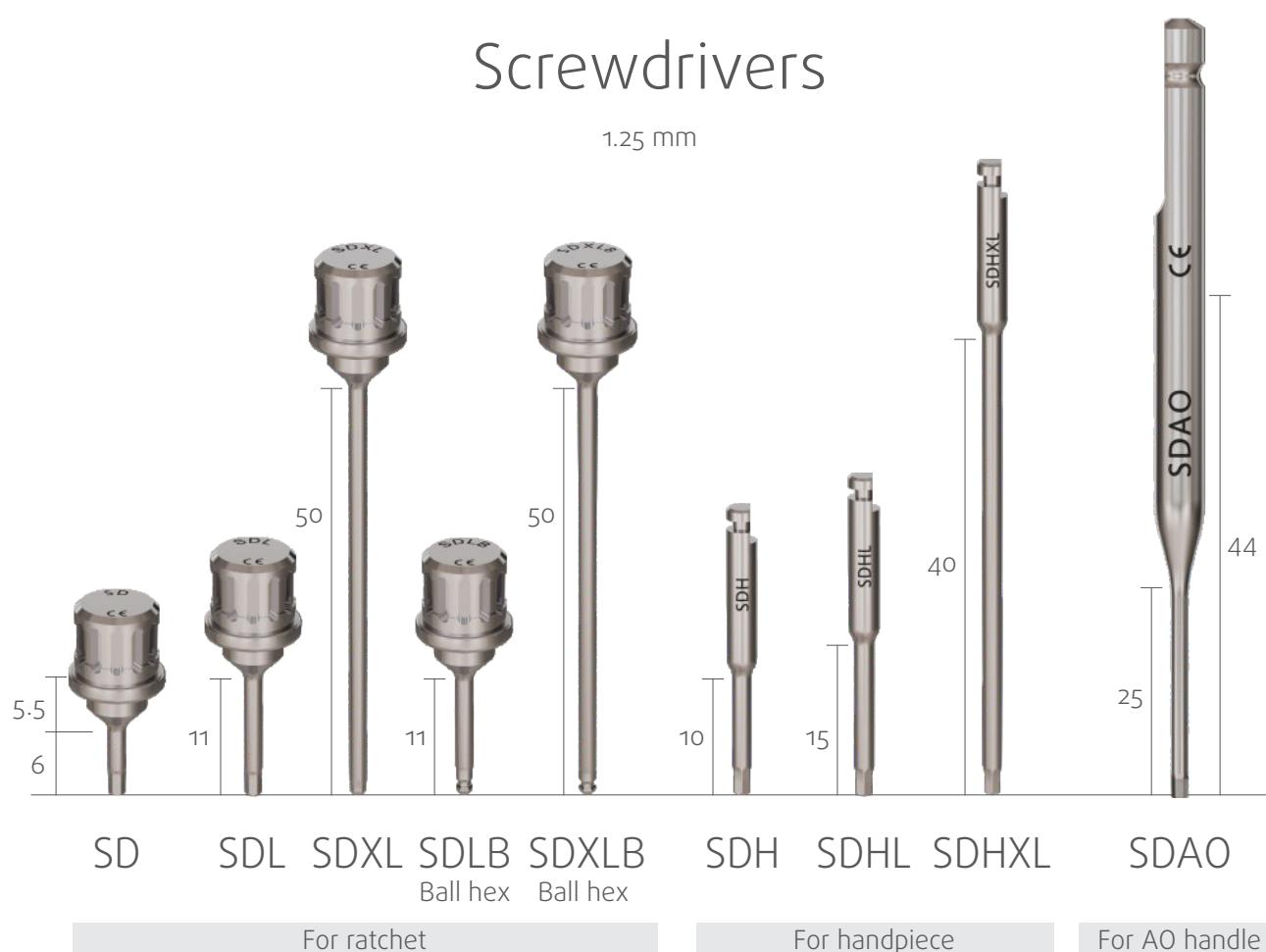
DC30XX

6-20 mm



Screwdrivers

1.25 mm



Screw
removal



SR

Parallel
pin



P2

Extension
tool

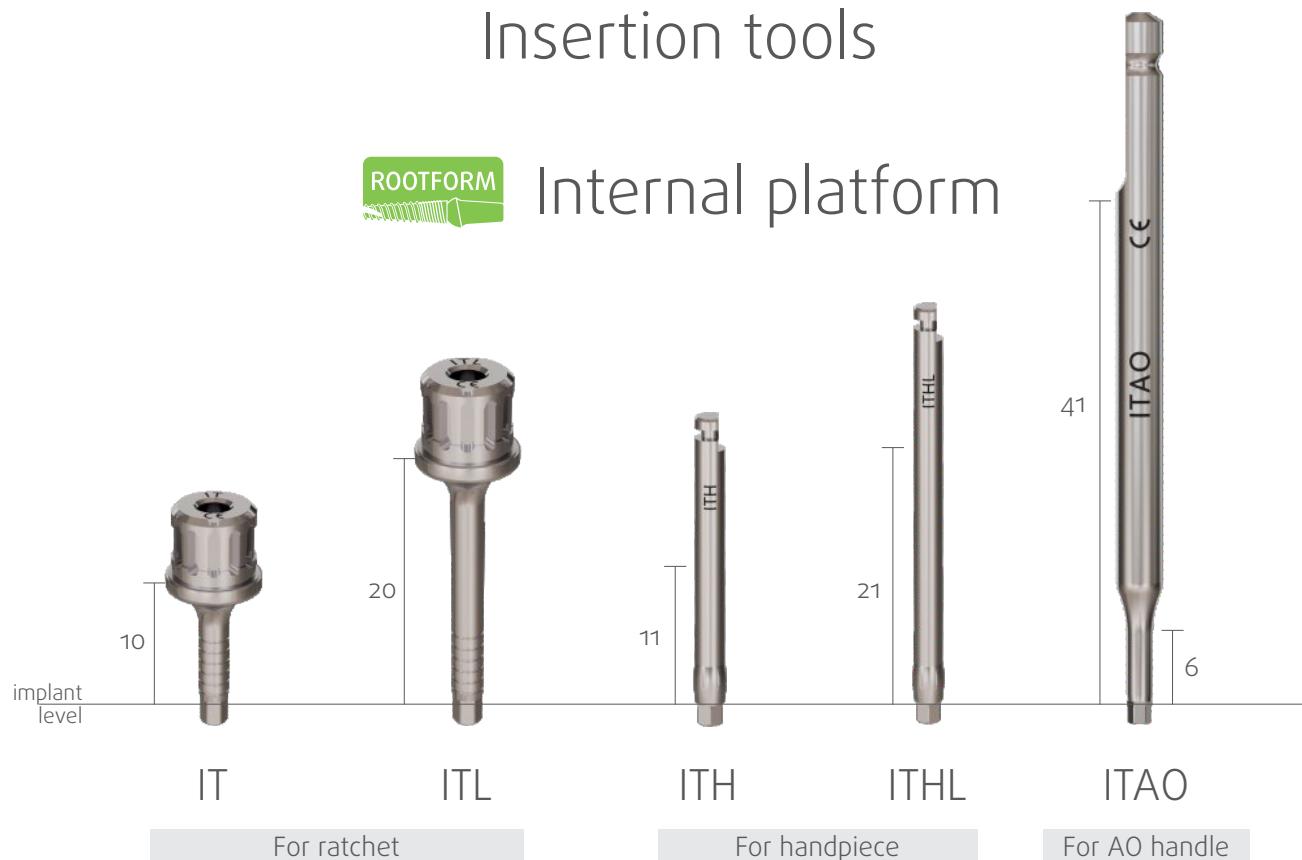


ET

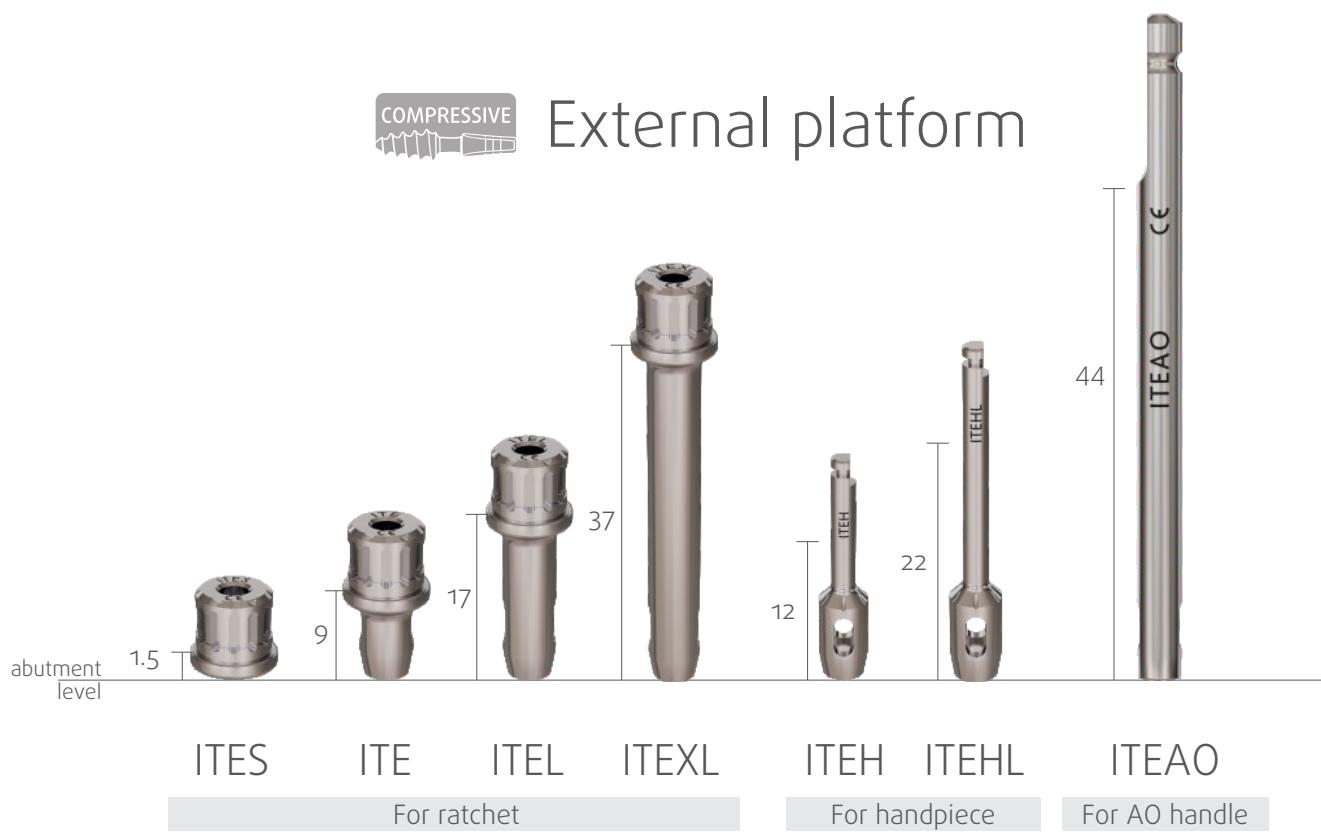
Insertion tools



Internal platform

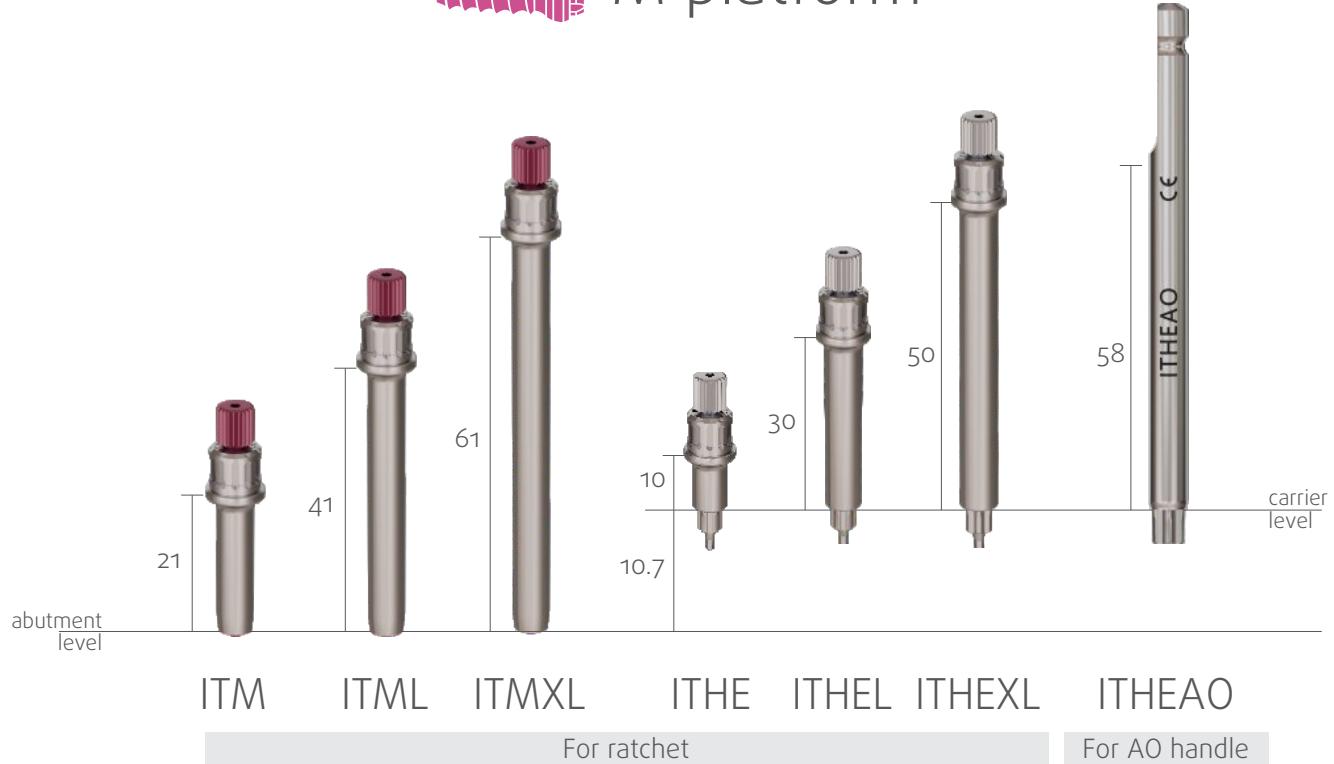


External platform

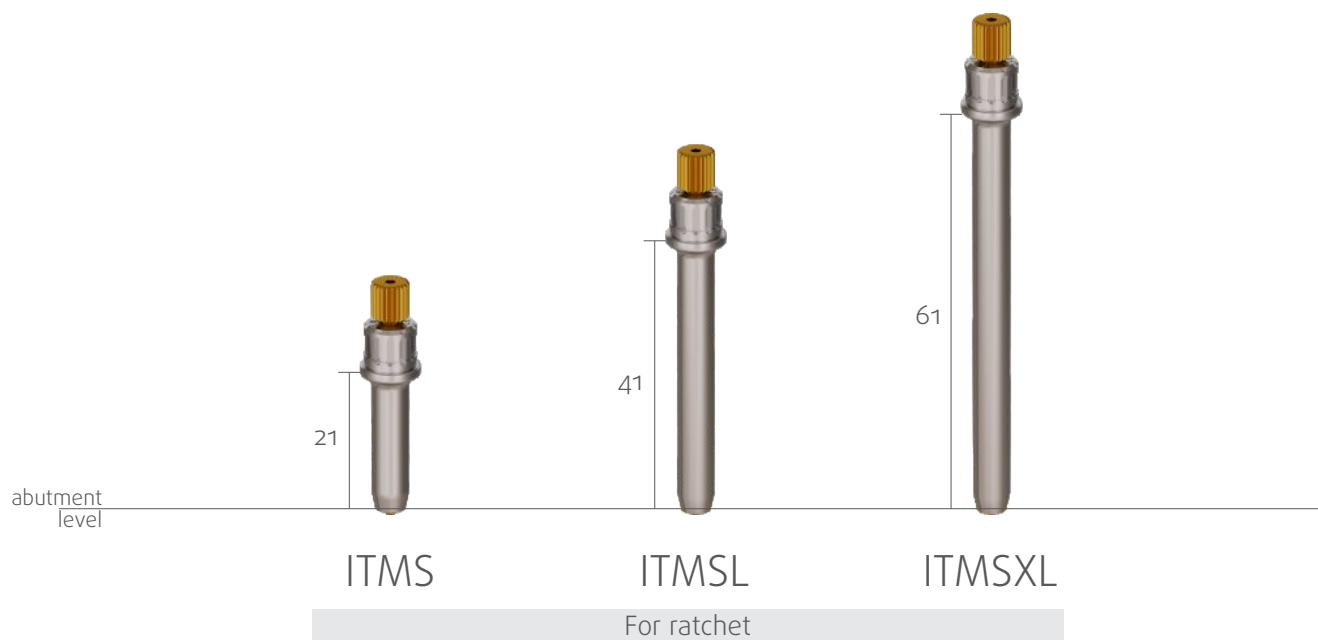




M platform



MS platform



Universal instrument set TRS-S



Pilot drills



DB2020



D2020

Universal drills



D3516 (DSTEP1)



D5508 (DSTEP2)

Form drills



DC3516



DC5508

Insertion tools

ITE IT



Hex driver

SDL



Removal tool

SR



Torque wrench

TW50

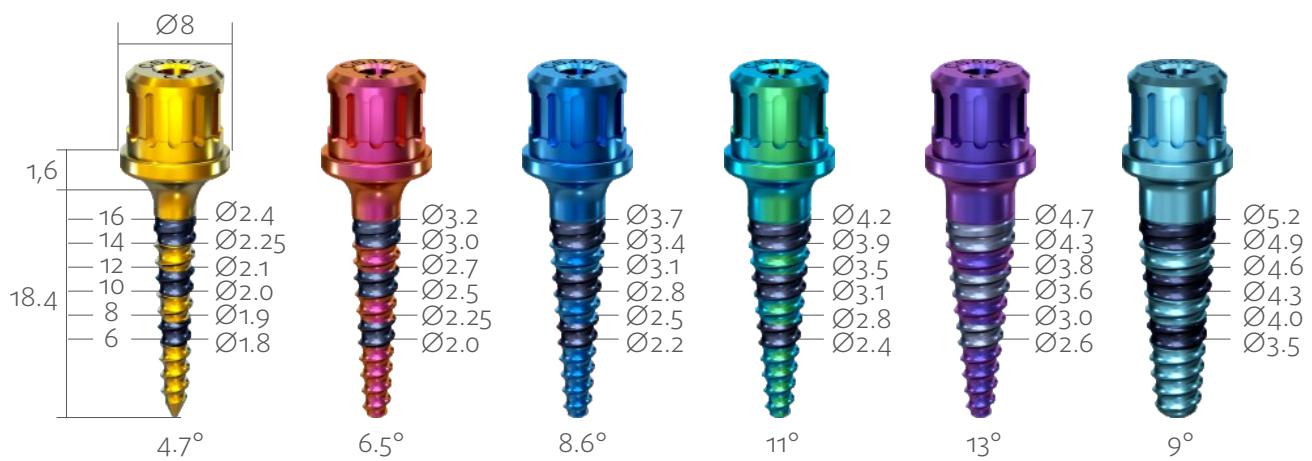


ESBIPRO set



Set can be used as bone expander/condenser/spliter,
as evaluation tool before Compressive implants placement,
and (with optional instrument) as Compressive implants placement tool.

Compressive screws (TiGr23)



Pilot drills



DB2020



D2020

Torque wrench



TW50

Start kit

Customizable

22 implants of your choice

Free superstructures & instrument kit

1490 €



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