



mis[®] | v3
More with Less

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MIS Warranty:

MIS exercises great care and effort in maintaining the superior quality of its products. All MIS products are guaranteed to be free from defects in material and workmanship. However, should a customer find fault with any MIS product after using it according to the directions, the defective product will be replaced.

Warning: Products should be used by licensed dentists only.

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Surface Quality

B+ Surface

Narrow Platform Implants (Ø3.30mm)

Standard Platform Implants (Ø3.90, Ø4.30, Ø5mm)

Significant Gain of Bone Volume

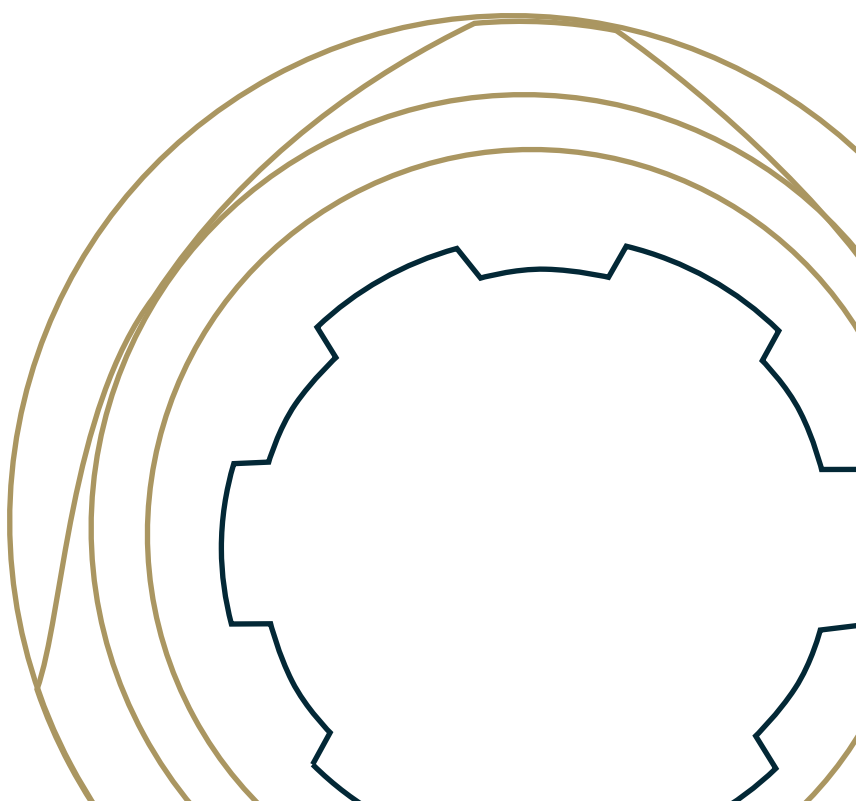
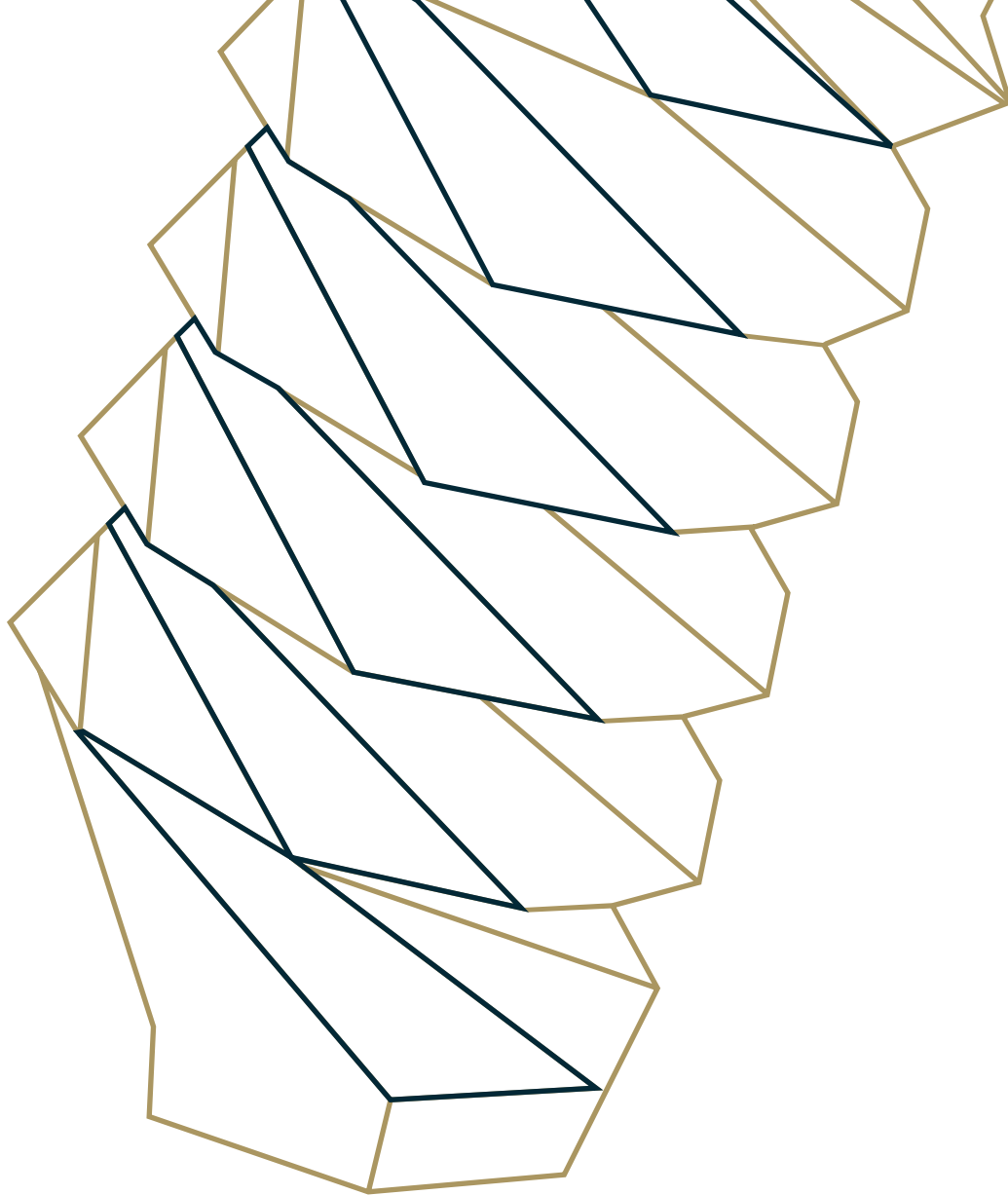
Conical Connection Surgical Kit

Insertion Tools

Package Contents

The V3 implant system is the outcome of an exceptionally high-level R&D process that has resulted in an implant that is simple, easy-to-use and offers enhanced functionality and performance. The V3 conical connection implant features built-in design characteristics which may provide biological benefits for hard and soft tissues and promote esthetic results.





6.

Advantages.

The unique biological and mechanical features of the V3 implant were designed to allow for additional space for bone growth, which may support more stable surrounding soft tissue and more esthetic restorations.

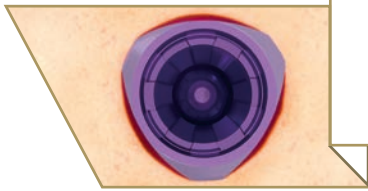
All V3 implants, superstructures and tools are color-coded for easy identification of platform sizes.

Blue
indicates a Narrow platform

Purple
indicates a Standard platform

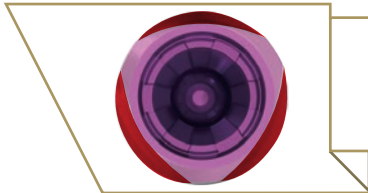
◁ V3 conical connection implants





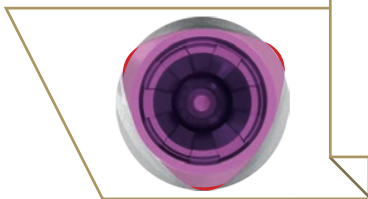
Designed for more bone

The compression-free gaps around the coronal area of the V3 were engineered to provide a reservoir for blood pooling and the formation of blood clots. These conditions are both required for optimum implant integration and bone growth.



Engineered for bone stress reduction

The gaps around the sides of the implant neck were designed to result in an open, compression-free zone. Crestal bone loss may be minimized by reducing stress in the cortical bone.



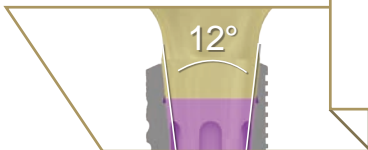
Implant neck

The triangular shape at the V3 neck was engineered to provide high immediate crestal stability and potential bone preservation. Anchorage may be achieved at three points without compromising crestal primary stability.



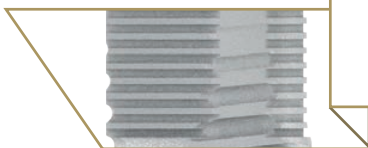
Platform switching

The V3 implant incorporates the platform-switching design concept. Implants with a platform-switched configuration have been shown to exhibit less bone loss when compared to non-platform-switched implants, which may lead to soft tissue preservation and growth.



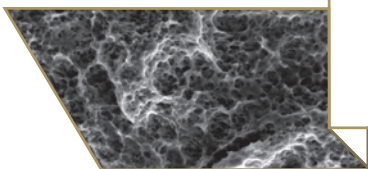
Conical connection

The 12° conical connection was engineered to create an ultimate seal and ideal connection between the implant and abutment with built-in platform switching, reducing micro-movements.



Micro-rings

Micro-rings on the neck of the implant are designed to facilitate an increase in bone to implant contact (BIC). This design concept has been reported to be associated with less crestal bone loss when compared with other implant design features.



Surface treatment

The surface roughness and micro-morphology is a result of sandblasting and acid etching. This proven MIS surface technology leads to a high level of cleanliness, which leads to effective osseointegration. This is one of the key factors which contribute to long-lasting clinical success.



Flat apex

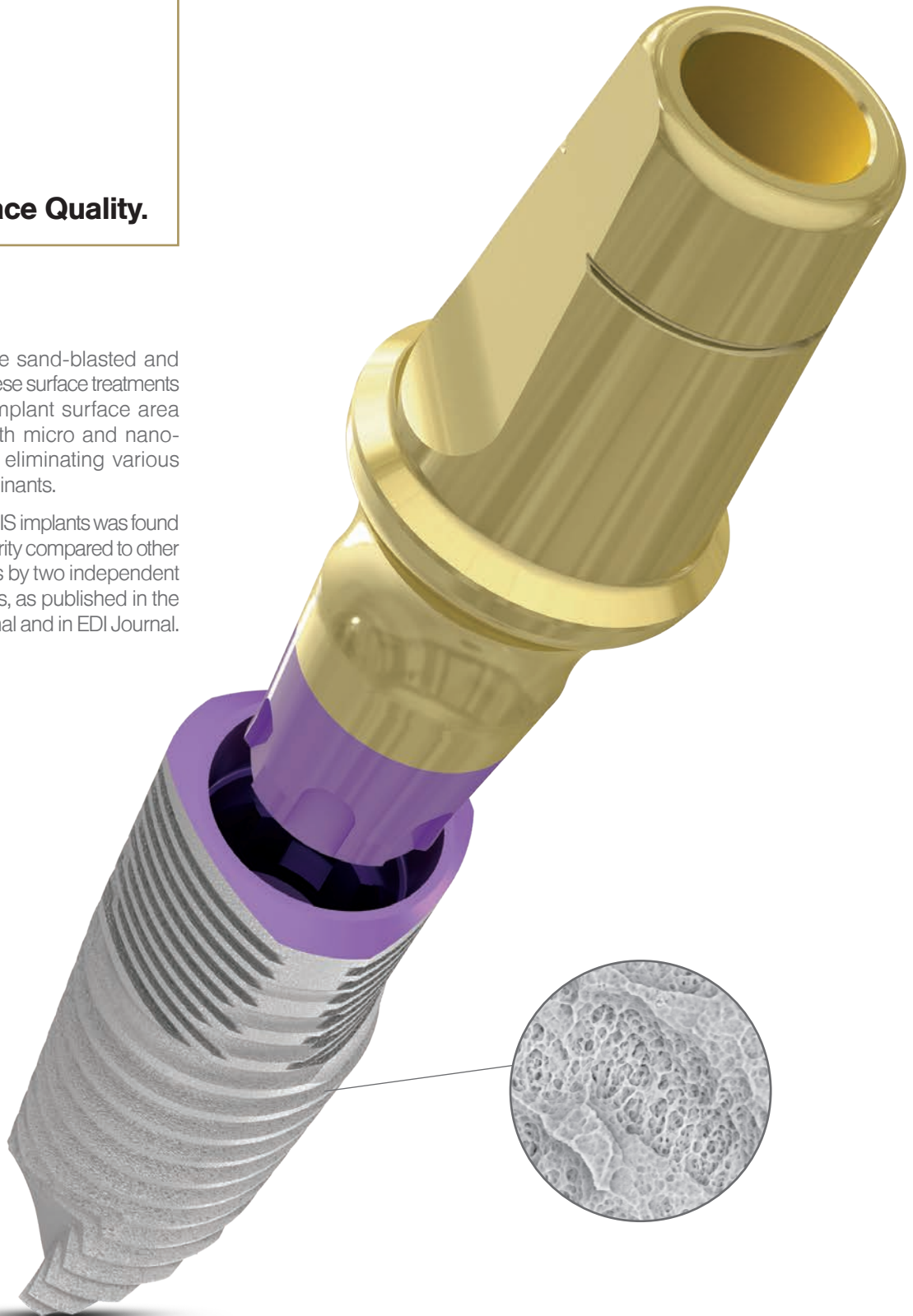
The flat apex is designed to allow good grip into bone, especially in immediate placement procedures.

8.

Surface Quality.

V3 implants are sand-blasted and acid-etched. These surface treatments increase the implant surface area by creating both micro and nano-structures and eliminating various surface contaminants.

The surface of MIS implants was found superior in its purity compared to other implant systems by two independent research studies, as published in the POSEIDO Journal and in EDI Journal.



SURFACE ANALYSIS OF STERILE-PACKAGED IMPLANTS

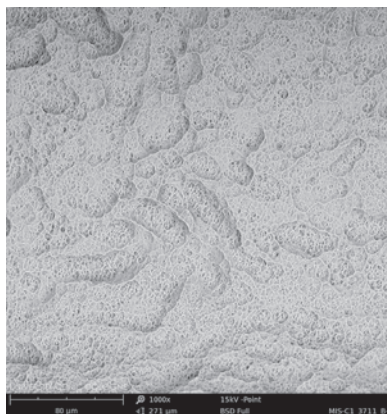
Dr. Dirk Duddeck and Dr. Jörg Neugebauer, PhD

For the third time in a row, the Quality and Research (Q&R) Committee of BDIZ EDI is examining sterilepackaged implants under the scanning electron microscope for the more than 5,500 members of the association. In cooperation with the University Hospital of Cologne, extensive qualitative and quantitative elemental analyses are performed on each of the implants studied. In 2009/2008, the surfaces of 23 implants were analyzed, a number that had grown to 54 different implants from manufacturers in nine countries by 2012/2011. Here, isolated implants showed residue from the manufacturing and/or packaging process, peculiarities in the external threading or residual filings inside the implant.

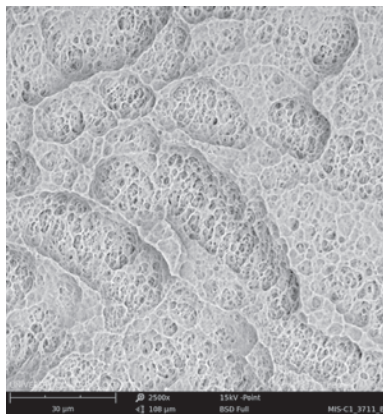
65 dental implants from different leading manufacturers underwent topographical and chemical composition analysis. The protocol included the use of a Scanning Electron Microscope (SEM), which enabled the topical evaluation of each implant surface. The high sensitivity backscattered electron detector generates images in compositional and topographical modes to a magnification of up to X5,000 for this study. The BSE detector also allows researchers to draw conclusions about the chemical nature and allocation of remnants or contaminants on the sample material. Qualitative and quantitative analyses of implant surfaces were done using Energy Dispersive X-ray Spectroscopy (EDX). This element identification software even allows the identification of elements deep within the sample. Testing on MIS implants revealed percentages of Titanium, Oxygen, Aluminum and Vanadium.

Conclusions reached in the study state:

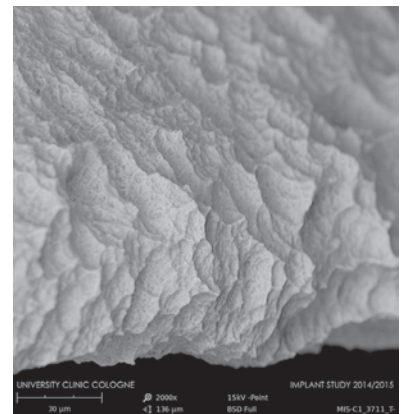
"The C1 implant and the Seven implant (both MIS) stood out positively in the current study. Whereas during the 2012/2011 study, the Seven implant still exhibited blasting material on up to seven per cent of the surface, the current study did not even find isolated spots with residue on the two MIS implant types of grade 23 titanium (Ti 6Al4-V ELI)".



Residue-free surface, MIS C1 implant (x 1000).



MIS C1 implant surface with micro-nano-structure (x 2,500).

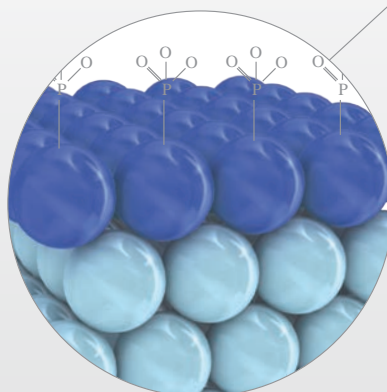
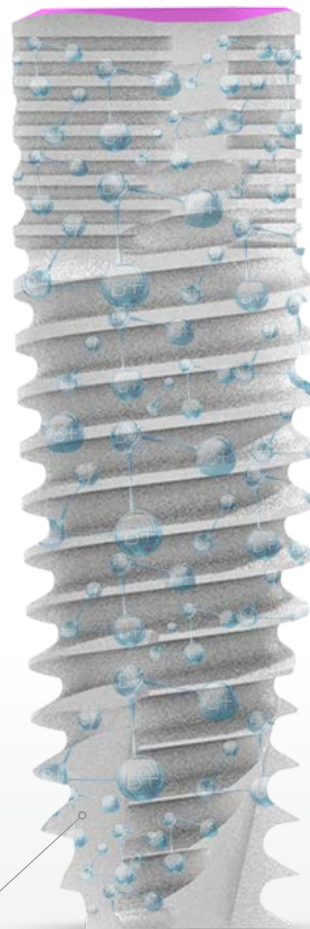


MIS C1 implant side-view of a thread (x 2,000).

10.

B+ Surface.

B+ is a biological feature of MIS implants, which was designed for effective, long-term osseointegration. A mono-molecular layer of multi phosphonates is permanently bound to the surface of the implant, which is potentially perceived as bone-like by the body.



● TiO2
● B+

B+ is a biological feature of MIS implants.





B+ label on inner
and external tubes, for
simple identification



B+ implants are available in all
MIS lengths and diameters for V3
and C1 implant systems.

V3

Screw type implant range
Narrow Platform

Length		10mm	11.50mm	13mm	16mm
Type		V3-10330	V3-11330	V3-13330	V3-16330
Ø3.30 mm					

Insertion Tools



CT-NSM30
V3 short motor
insertion tool,
narrow platform



CT-NLM30
V3 long motor
insertion tool,
narrow platform



CT-NSR30
V3 short ratchet
insertion tool, narrow
platform



CT-NLR30
V3 long ratchet
insertion tool, narrow
platform

Implant cover screw and healing caps



CC1-00277



CN-H0333
CN-H0433
CN-H0533
CN-H0633
CN-H0833



CN-HS340
CN-HS440
CN-HS540
CN-HS640
CN-HS840



CN-HA248
CN-HA348
CN-HA448
CN-HA548
CN-HA648
CN-HA848

V3

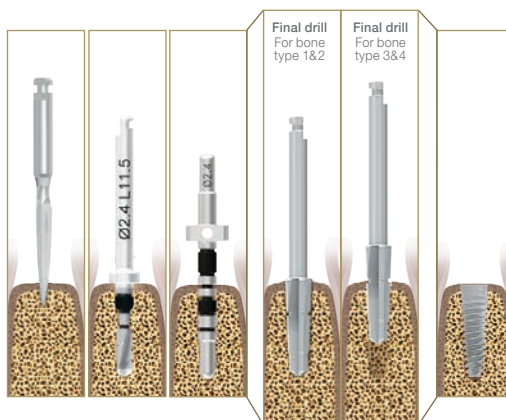
Ø3.30mm
Narrow Platform

Titanium Alloy Ti 6Al 4V ELI
Sand-Blasted and Acid-Etched

Catalog No.	Dimensions	
V3-10330	Ø3.30mm length 10mm	
V3-11330	Ø3.30mm length 11.50mm	
V3-13330	Ø3.30mm length 13mm	
V3-16330	Ø3.30mm length 16mm	

Ø3.30mm Implant Procedure

	800- 1000	600- 800	200- 400	200- 400	Torque Max. 45N·cm
Drilling Speed (RPM)					
Diameter	Ø1.90	Ø2.40	Ø2.40		Ø3.30



- The drilling sequence is illustrated using 11.50mm implants.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

Screw type implant range Standard Platform

Length	8mm	10mm	11.50mm	13mm	16mm
Type	V3-08390	V3-10390	V3-11390	V3-13390	V3-16390
Ø3.90 mm					
Ø4.30 mm	V3-08430	V3-10430	V3-11430	V3-13430	V3-16430
					
Ø5 mm	V3-08500	V3-10500	V3-11500	V3-13500	V3-16500
					

Insertion Tools



CT-SSM30
V3 short motor insertion tool, standard platform



CT-SLM30
V3 long motor insertion tool, standard platform



CT-SSR30
V3 short ratchet insertion tool, standard platform



CT-SLR30
V3 long ratchet insertion tool, standard platform

Implant cover screw and healing caps



V3

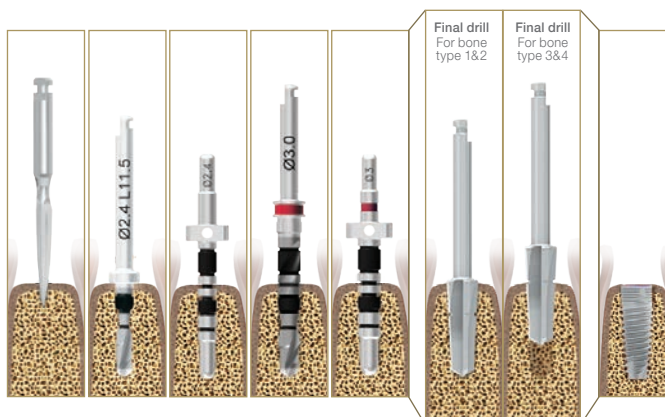
Ø3.90mm
Standard Platform

Titanium Alloy Ti 6Al 4V ELI
Sand-Blasted and Acid-Etched

Catalog No.	Dimensions	
V3-08390	Ø3.90mm length 8mm	
V3-10390	Ø3.90mm length 10mm	
V3-11390	Ø3.90mm length 11.50mm	
V3-13390	Ø3.90mm length 13mm	
V3-16390	Ø3.90mm length 16mm	

Ø3.90mm Implant Procedure

Drilling Speed (RPM)	800-1000	600-800	450-650	200-400	200-400	Torque Max. 60N-cm
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø3	Ø3	Ø3.90



- The drilling sequence is illustrated using 11.50mm implants.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

16.

V3

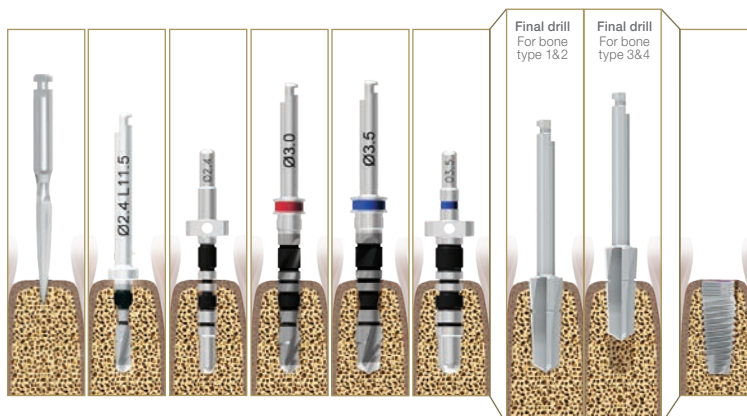
Ø4.30mm
Standard Platform

Titanium Alloy Ti 6Al 4V ELI
Sand-Blasted and Acid-Etched

Catalog No.	Dimensions	
V3-08430	Ø4.30mm length 8mm	
V3-10430	Ø4.30mm length 10mm	
V3-11430	Ø4.30mm length 11.50mm	
V3-13430	Ø4.30mm length 13mm	
V3-16430	Ø4.30mm length 16mm	

Ø4.30mm Implant Procedure

Drilling Speed (RPM)	800-1000	600-800	450-650	350-550	200-400	200-400	Torque Max. 60N-cm
Diameter	Ø1.90	Ø2.40	Ø2.40	Ø3	Ø3.50	Ø3.50	Ø4.30



* The drilling sequence is illustrated using 11.50mm implants.

* Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

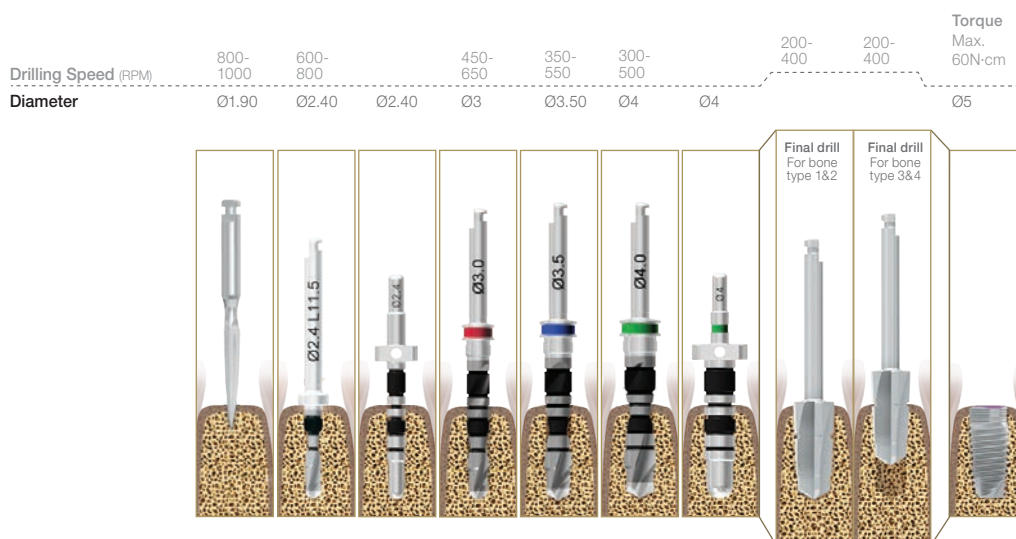
V3

Ø5mm Standard Platform

Catalog No.	Dimensions	
V3-08500	Ø5mm length 8mm	
V3-10500	Ø5mm length 10mm	
V3-11500	Ø5mm length 11.50mm	
V3-13500	Ø5mm length 13mm	
V3-16500	Ø5mm length 16mm	

Titanium Alloy Ti 6Al 4V ELI
Sand-Blasted and Acid-Etched

Ø5mm Implant Procedure



* The drilling sequence is illustrated using 11.50mm implants.

* Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.

18.

**Designed for
Additional Room
for Bone Growth.**

The unique triangular-shape of the V3 implant's coronal portion was designed to allow additional space for bone growth and created to support highly stable surrounding soft tissues and result in more esthetic restorations. This triangular design was created to provide solid anchorage at three points in the crestal area while forming gaps between the remaining sides of the implant neck and the osteotomy, which may result in a compression-free zone, where a stable blood clot may more easily be achieved. The ingenious combination of compression-free gaps with a firm anchorage may encourage the establishment of a stable blood clot; the first step towards a successful osseointegration process: Hemostasis Phase > Proliferative Phase > Remodeling Phase.



Conical Connection Surgical Kit.

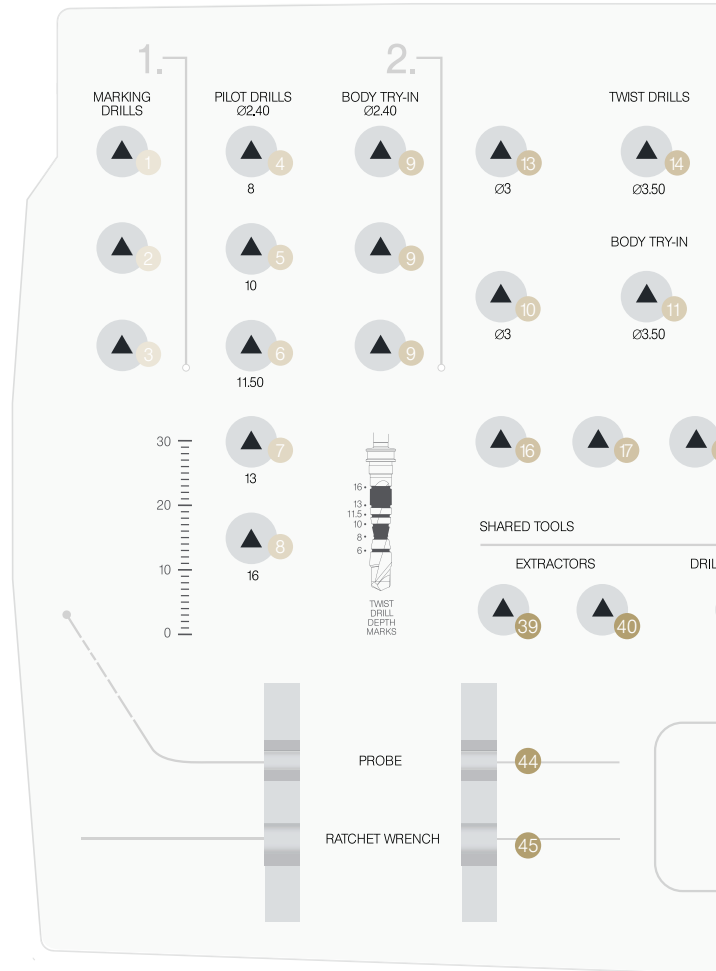
MK-T051

The innovative Conical Connection Surgical Kit, is designed for simple and safe implant placement procedures. The kit presents a novel ergonomic design that follows the surgical drilling sequence. In addition, the kit includes a set of length-based pilot drills and color-coded visual cues of both implant diameter and restorative platforms and is suitable for both C1 and V3 implants.



Conical Connection Surgical Kit.

MK-T051



MARKING DRILLS



MT-SMD10
Spade marking drill



MT-PDM24
Position drill mill, Ø2.4mm



MT-PD440
Position drill, Ø4mm

PILOT DRILLS



CT-P2408
Pilot drill with built-in stopper for 8mm length implants, Ø2.4/2mm



CT-P2410
Pilot drill with built-in stopper for 10mm length implants, Ø2.4/2mm



CT-P2411
Pilot drill with built-in stopper for 11.5mm length implants, Ø2.4/2mm



CT-P2413
Pilot drill with built-in stopper for 13mm length implants, Ø2.4/2mm



CT-P2416
Pilot drill for 16mm length implants, Ø2.4/2mm

BODY TRY-INS



CT-BTC24
Body try-in, Ø2.4mm



CT-BTC30
Body try-in, Ø3mm



CT-BTC35
Body try-in, Ø3.5mm



CT-BTC40
Body try-in, Ø4mm

STEP DRILLS



CT-TDC30
Step drill, external irrigation, Ø3/2.4mm



CT-TDC35
Step drill, external irrigation, Ø3.5/3mm



CT-TDC40
Step drill, external irrigation, Ø4/3.5mm



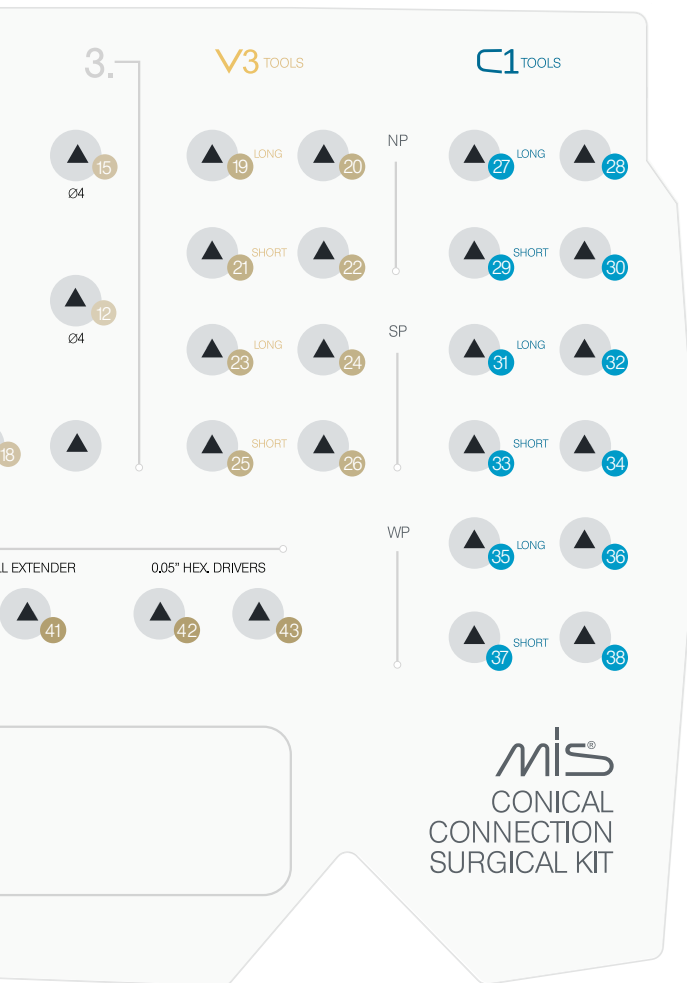
MT-CSN33
Countersink for narrow platform implant system



MT-GDN33
Countersink for standard platform implant system



MT-GDN50
Countersink for wide platform implant system



C1 INSERTION TOOLS

- | | |
|---|--|
| <p>27</p> <p>CT-NLI10
Long insertion tool,
conical connection,
narrow platform</p> | <p>33</p> <p>CT-SSI10
Short insertion tool,
conical connection,
standard platform</p> |
| <p>28</p> <p>CT-NLR10
Long ratchet insertion tool,
conical connection,
narrow platform</p> | <p>34</p> <p>CT-SSR10
Short ratchet insertion tool,
conical connection,
standard platform</p> |
| <p>29</p> <p>CT-NSI10
Short insertion tool,
conical connection,
narrow platform</p> | <p>35</p> <p>CT-WLI10
Long insertion tool,
conical connection,
wide platform</p> |
| <p>30</p> <p>CT-NSR10
Short ratchet insertion tool,
conical connection,
narrow platform</p> | <p>36</p> <p>CT-WLR10
Long ratchet insertion tool,
conical connection,
wide platform</p> |
| <p>31</p> <p>CT-SLI10
Long insertion tool,
conical connection,
standard platform</p> | <p>37</p> <p>CT-WSI10
Short insertion tool,
conical connection,
wide platform</p> |
| <p>32</p> <p>CT-SLR10
Long ratchet insertion tool,
conical connection,
standard platform</p> | <p>38</p> <p>CT-WSR10
Short ratchet insertion tool,
conical connection,
wide platform</p> |

V3 INSERTION TOOLS

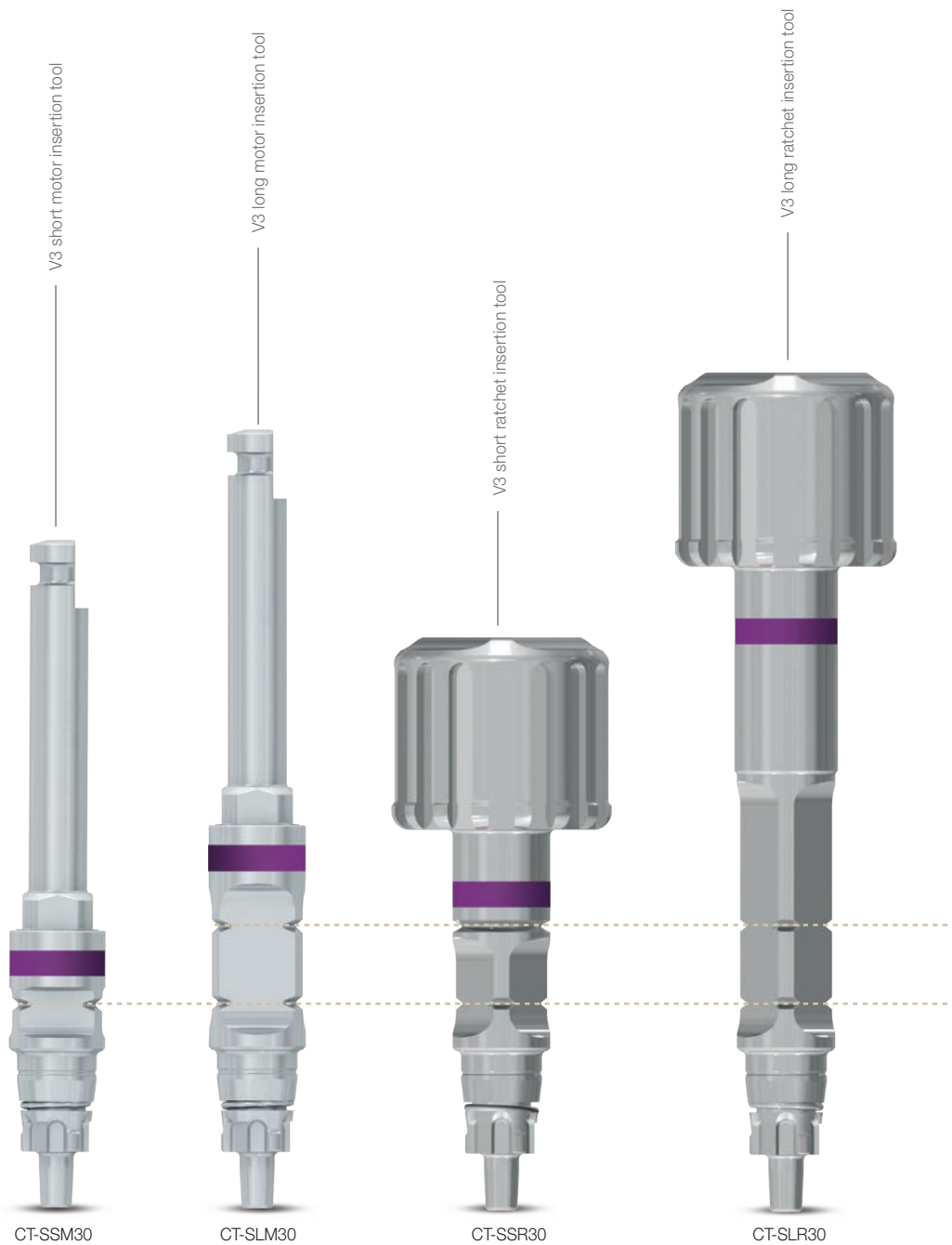
- | | |
|---|---|
| <p>19</p> <p>CT-NLM30
V3 long motor insertion tool,
narrow platform</p> | <p>23</p> <p>CT-SLM30
V3 long motor insertion tool,
standard platform</p> |
| <p>20</p> <p>CT-NLR30
V3 long ratchet insertion tool,
narrow platform</p> | <p>24</p> <p>CT-SLR30
V3 long ratchet insertion tool,
standard platform</p> |
| <p>21</p> <p>CT-NSM30
V3 short motor insertion tool,
narrow platform</p> | <p>25</p> <p>CT-SSM30
V3 short motor insertion tool,
standard platform</p> |
| <p>22</p> <p>CT-NSR30
V3 short ratchet insertion tool,
narrow platform</p> | <p>26</p> <p>CT-SSR30
V3 short ratchet insertion tool,
standard platform</p> |

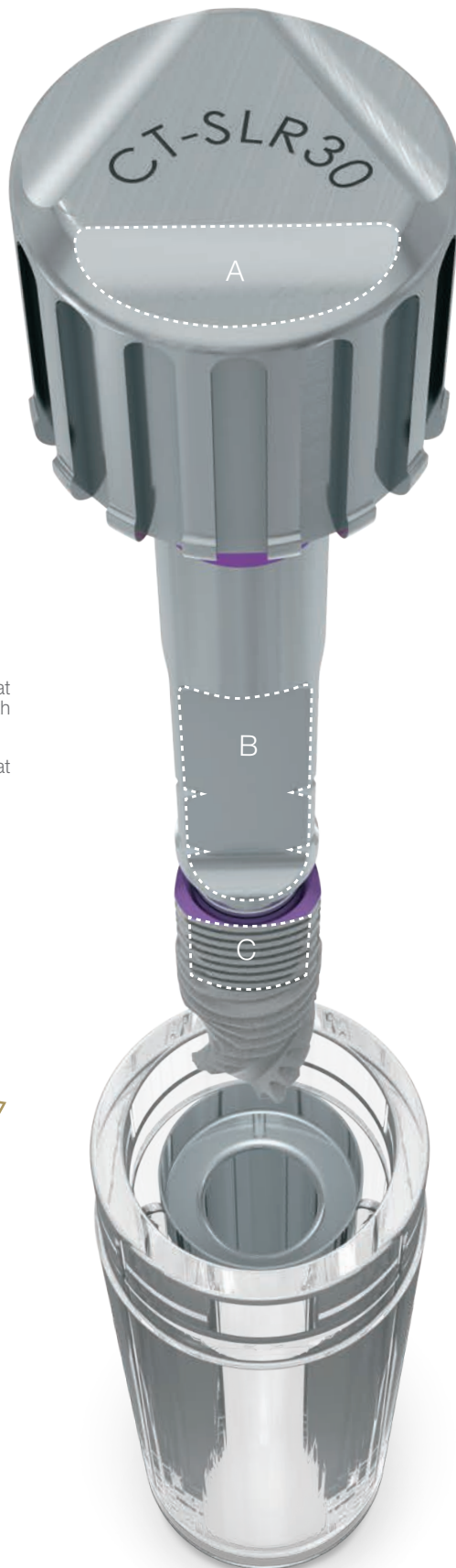
SURGICAL TOOLS

- | | |
|--|--|
| <p>39</p> <p>MT-RE160
Int. connection abutment
extractor, narrow platform</p> | <p>43</p> <p>MT-RDS30
Short driver for 0.05
inch hex.</p> |
| <p>40</p> <p>MT-RE172
Int. connection
abutment extractor</p> | <p>44</p> <p>MT-BTI20
Implant site depth probe</p> |
| <p>41</p> <p>MT-DE001
Drill extender</p> | <p>45</p> <p>MT-RT070
Surgical torque
ratchet</p> |
| <p>42</p> <p>MT-RDL30
Long driver for 0.05
inch hex.</p> | |

Insertion Tools.

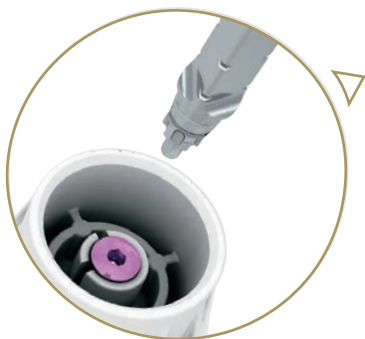
The advanced insertion tool system allows secure implant placement without the use of a mount.





Areas **A** and **B** indicate the position of the flat surface of the insertion tool to be aligned with the flat surface of the implant **C**.

This allows the dentist to easily identify the flat side of the implant for desired placement.



The insertion tool allows the delivery of a cover screw or a healing cap onto the implant after insertion.

Package Contents.

Each V3 implant comes with a sterile cover screw and single-use final drill, suitable for all drilling protocols.

The sterile inner tube is fitted with a special titanium sleeve that has an anti-rotation grip, to ensure easy engagement between the insertion tool and the implant.



Packaging.

Providing a simple, immediate identification of implant type, length and diameter, the V3 package is well-designed for ease-of-use during surgical procedures.

Implant diameter & platform indication

The outer tube is color-coded indicating the implant platform. The numeric indication specifies the implant diameter and length.



Prosthetic platform indication

Prosthetic components are marked by specific colors, representing platform sizes.

A double packing system ensures sterilization and safety. Packages are designed for convenience during surgery and for use with surgical gloves.



Implant identification markings

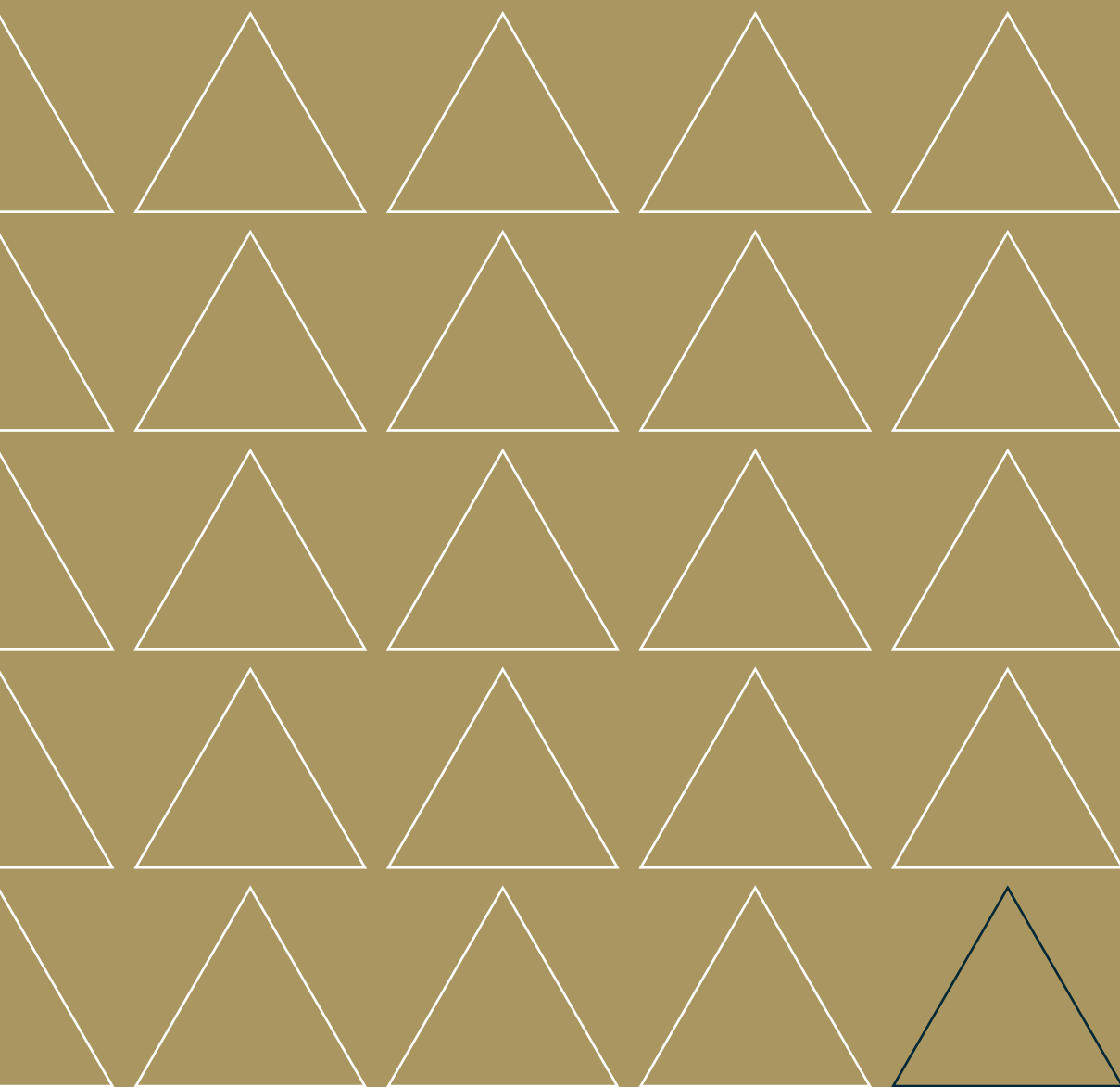
Quick identification of implant size and length. Sticker on the box lid, specifies implant diameter, length and platform size

Easy pull tab

The convenient pull tab facilitates quick and easy opening during surgery.

Logical storage

Packages fit perfectly into clinic drawers for space-saving storage and easy identification.



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www.V3-implant.com

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