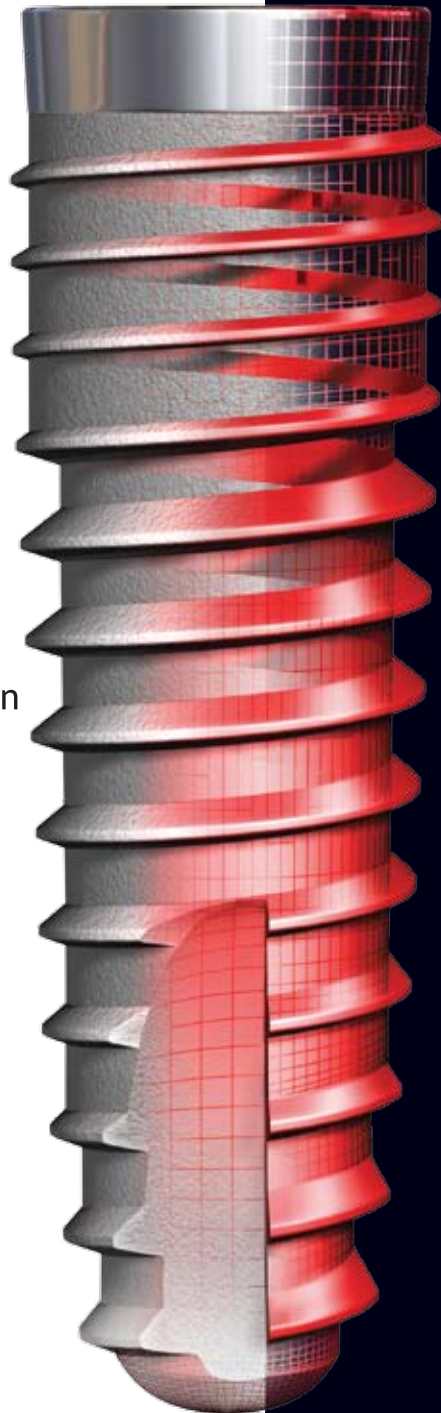


A Solution for Every Indication



Unítí™

equinox



Uniti™

The Uniti™ implant system is the result of a multidisciplinary effort from a world wide team of professionals, united by a common goal - " To develop the most versatile and user friendly dental implant system, that would provide a solution to restore almost every edentulous situation."

The Uniti™ system can be used in a single or two stage surgical protocol. The anatomic root shape ensures that the implant performs as predictably in extraction sockets as it does in mature bone sites.

The synchronized Kompress™ thread and the Microgrip™ surface facilitate an Immediate loading solution in specific indications.

The Sekure™ implant abutment interface on the Uniti™ implant is a deep internal hex connection. This Sekure™ connection offers the highest degree of safety for the single tooth replacement and also allows for the tooth for tooth, pontic free replacement therapy.

The Uniti™ esthetic emergence profile in combination with the Zirconix™ tooth coloured abutments ensure exceptional results in esthetically demanding sites.

Uniti™ implants are available in five diameters - D 3.3mm, D 3.7mm, D 4.3mm, D 5.3mm and D 6.0mm, with three corresponding lengths of 10mm, 13mm & 15mm for each diameter. This range of sizes facilitate an anatomically driven diameter based treatment concept.

The Uniti™ implant system though highly versatile is yet simple to learn and use. For the Implantologist, it will take no more than a few moments to identify the intelligent, multifaceted & user friendly aspects of the system.

Cortico-cancellous anatomic design



The Uniti™ implant has a unique cortico-cancellous design which is reflected both in the anatomic shape as well as the thread profile.

The upper 1/3rd or the cortical component of the implant body is parallel sided with shallow threads. This provides for an ideal atraumatic placement in dense cortical bone, at the same time allowing for optimal load transfer and stress distribution to the surrounding bone. The lower 2/3rd or cancellous component of the implant has an anatomic taper and sharper, deeper threads. This facilitates predictable use of the implant both in mature bone sites as well as in extraction sockets. The deeper more aggressive threads provide a higher degree of stability in cancellous bone and enhance peri-implant bone density by gentle osteocompression.

The anatomic shape of the Uniti™ implant is based on the biologic root form concept. The wide diameter neck with the tapering form is ideal for limiting the peri-implant defect size in extraction sockets sites. This design also provides for an esthetic emergence profile while tapering away from the periodontium of adjacent teeth thereby minimizing the risk to those structures.

Diameters & lengths

Uniti™ offers a five diameter choice of D 3.3mm, D 3.7mm, D 4.3mm, D 5.3mm & D 6.0mm. Each Implant diameter is available in lengths of 10mm, 13mm & 15mm.

	D 3.3	D 3.7	D 4.3	D 5.3	D 6.0
L 10					
L 13					
L 15					

This choice of implant diameters makes it possible to restore missing teeth to the highest functional and esthetic standards.

Kompress™ thread

The unique Kompress™ self tapping thread has two separate profiles synchronized to one continuous pitch of 0.9mm. This synchronization of the self tapping thread significantly reduces trauma to the bone during implant insertion.

The shallow cortical threads with a depth of 0.1mm minimally traumatize cortical bone during placement. This thread profile is ideal for load transfer and stress distribution to surrounding cortical bone.

The lower 2/3rd or cancellous component of the implant body has deeper and sharper threads of a depth of 0.35mm. The thread tips are blunted by 0.1mm thus rendering them towards a square profile without compromising the self tapping properties of the implant.

In comparison to a classic "V" metric thread, the Kompress™ has a narrower thread profile allowing a larger surface area for bone to implant contact thus enhancing osseointegration levels.

These threads provide a much higher degree of primary stability even in poor bone quality situations and cause a gentle osteocompression of bone during implant placement.

The inferior surfaces of the threads are nearly horizontal and carry most of the compressive load that the implant is subjected to during function.

The scientifically developed and designed Implant drill tolerances are diameter specific to allow for atraumatic implant insertion even in dense bone quality.

The self cutting slots in the apical portion of the implant are designed to accommodate the displaced bone volume during implant insertion. This prevents bone chips being packed at the base of the osteotomy site.

The implant tip is rounded so as not to damage delicate structures like the sinus lining during placement.

MicroGrip™ Surface

The Microgrip™ surface is an osteoconductive, high porosity surface with micropores of 1 to 5 micron.

This surface is produced using a proprietary water soluble blast medium that is completely dissolved and removed during the product cleaning protocol.

This ensures absolutely no embedding or remnants of processing particles or blast medium on the implant surface, that could compromise osseointegration.

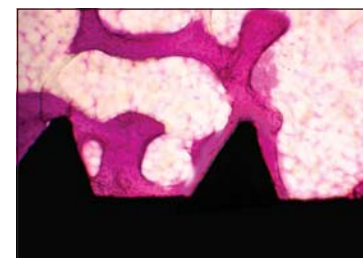
This treatment significantly increases total microscopic surface area by 3-4 times offering an enhanced surface for osseointegration.

The roughened surface also facilitates a higher degree of implant primary stability allowing for early or immediate loading in select indications.

The surface treatment protocol has been standardized to ensure uniform surface roughness on all sections of the implant including the under surface of the threads.

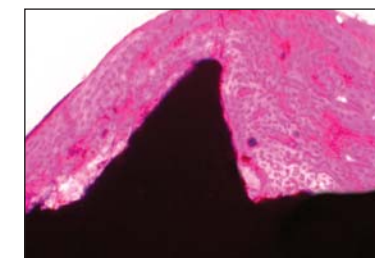
The transition from the roughened surface to the prosthetic table is a 1mm highly polished collar. This allows for predictable soft tissue integration by means of a hemi-desmosomal attachment and also facilitates optimal hygiene.

Microgrip™ at 6 weeks



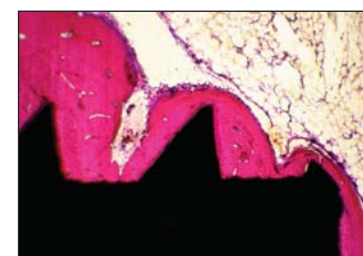
(At six weeks bone deposits directly on the implant surface which can be seen both at the implant neck as well as the apex of the implant body.)

Microgrip™ at 3 months

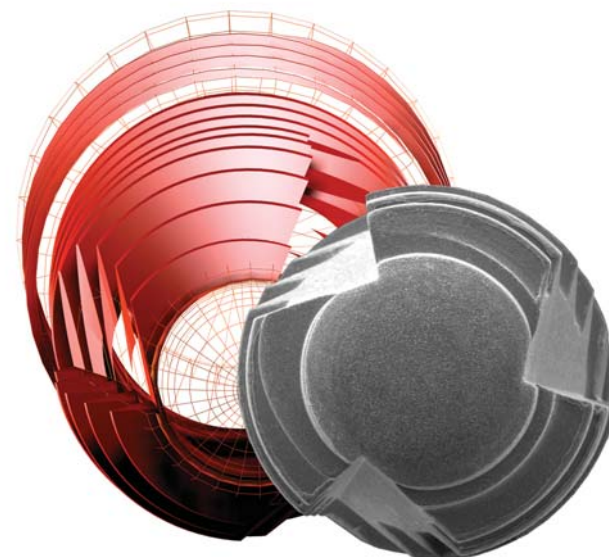
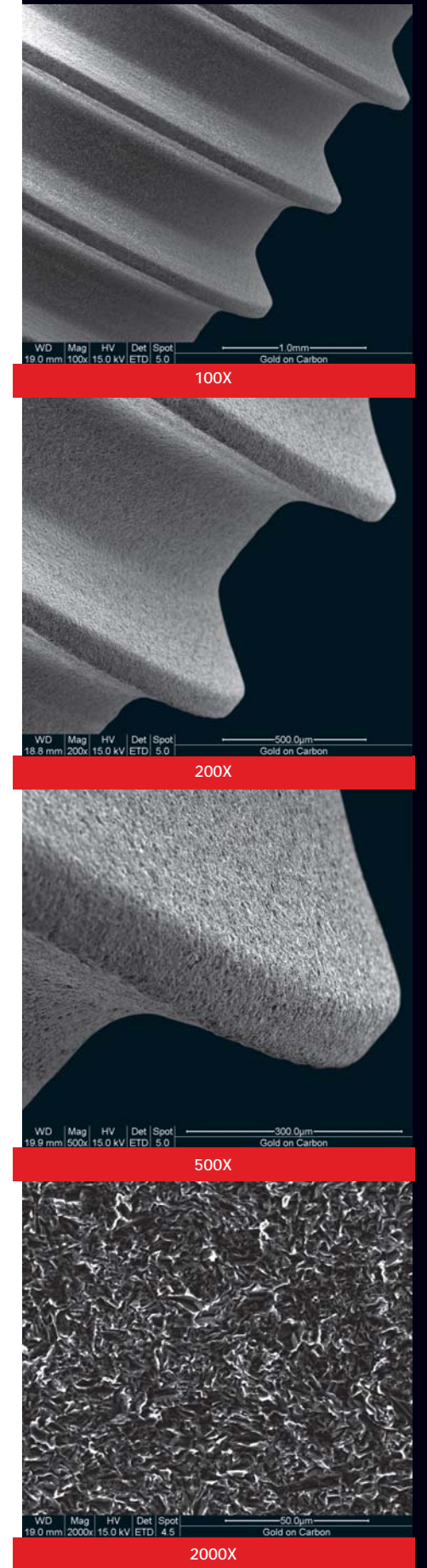


(Three months into healing, osseointegration can be clearly seen throughout the implant surface with as much as 92% bone to implant contact.)

Microgrip™ at 6 months



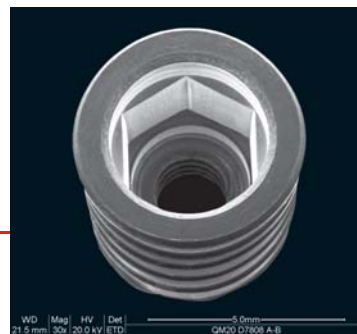
(Osseointegration has stabilized further both at the cortical neck portions and the cancellous body and apex of the implant.)



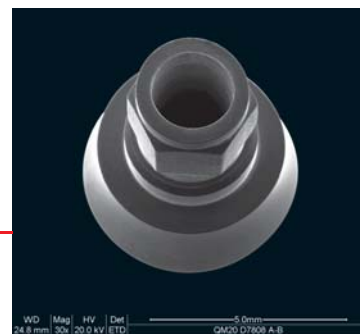
The Sekure™ Connection

The Uniti™ Sekure™ connection is a safe and predictable, deep internal hexagon connection.

The hexagon is sandwiched between two solid cylindrical guides above and below it. The lower narrower cylinder guides insertion of the abutment while the upper cylinder engages the implant body creating a higher degree of stability and stress dissipation.



(Top view - Internal hexagon of the Uniti™ implant)



(Abutment bottom view showing the twin hex)

Close and precise tolerances at the implant abutment interface also ensure a microgap free & bacteria proof joint. This ensures optimum health of the peri-implant soft tissue.

This deep internal connection with the abutment extending 3.3mm into the implant body, offers unmatched strength and stability.

The fixation screw that fastens the abutment to the implant has only a retentive function. All horizontal forces are borne by the walls of the implant and the internal hexagon. As a result the possibility of screw loosening and breakage are minimal.

This makes the Sekure™ connection very predictable and safe to use even in the most demanding single tooth situation such as a lower first molar replacement. The connection also facilitates the tooth for tooth-pontic free replacement therapy.



(Implant abutment interface showing no microgaps)

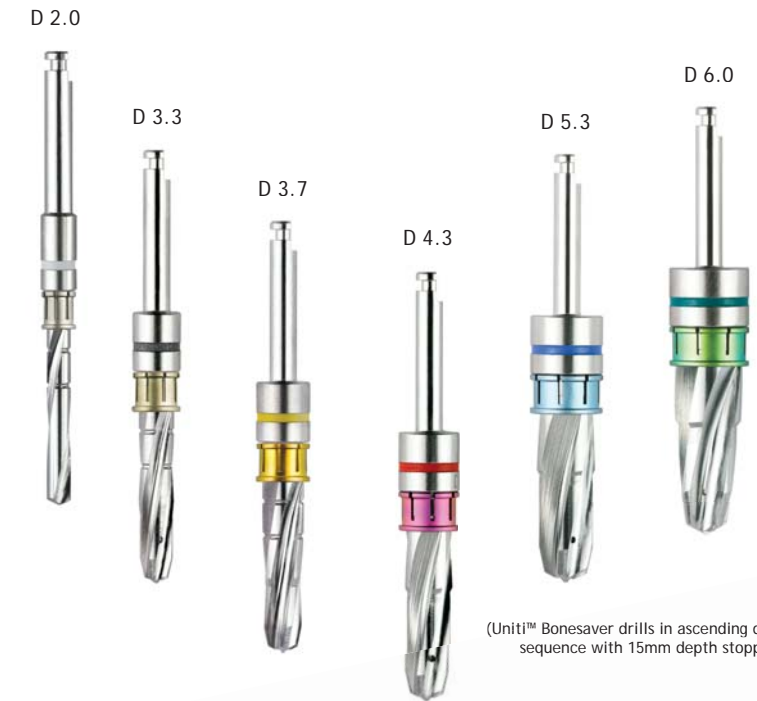
Drills & Surgical Kit



(Uniti™ D 3.7 Bonesaver™ drill with removal depth stops of 10mm, 13mm & 15mm)

The Uniti Bonesaver™ drills have true internal cooling and simple to use colour coded depth stoppers. The drills possess cutting edges with a large flute space that can collect bone chips when drilling at low speeds. These saved bone chips can be used to augment any peri-implant defects.

The drills are produced to very precise dimensional tolerances and geometry. The sharpness of the cutting flutes combined with the internal cooling, facilitate atraumatic cutting of precise osteotomy sites.



(Uniti™ Bonesaver drills in ascending diameter sequence with 15mm depth stoppers)

The Uniti™ surgical protocol for implant insertion is simple and intuitive. The surgical tray is clearly laid out and sequenced with all drills and stoppers colour coded.

The standard crest diameters of the Uniti™ system are D 3.3mm, D 3.7mm and D 4.3mm. The wide crest diameters comprise the D 5.3mm and D 6.0mm.

The kit is available in two configurations - standard crest or complete surgical set with additional corresponding wide crest drills.

All surgical kits carry depth gauges, paralleling pins, implant drivers, screwdrivers and a ratchet.



(Uniti™ surgical kit well laid out with standard crest and wide crest sections.)

Uncovering & Impressions



Highly polished titanium healing abutments / gingivaformers available in heights of 3mm & 5mm for different soft tissue heights.



Two flat sides and a horizontal groove facilitate three dimensional orientation of the impression post for accurate and precise transfers. Impression posts are available with long and short screws for the reposition and pick-up technique. Horizontal concentric markings allow easy reference for gingival collar height both in the mouth and on the laboratory model.



Biotemp™ provisional customizable polymer multifunctional abutments - can be used for immediate temporization, progressive bone loading or fabrication of custom healing abutments.



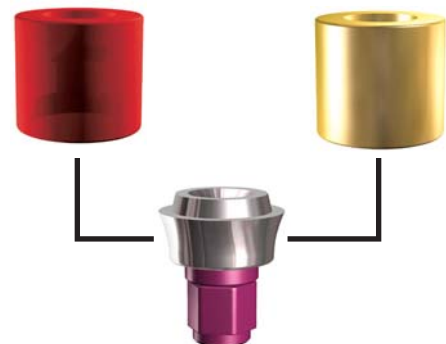
Laboratory / Implant analogs for model transfers and prostheses fabrication. All analogs are colour coded for diameter / lab communication.

Overdentures

There are two prosthetic overdenture options available with the Uniti™ system. The Uniti™ ball attachment and the Uniti™ bar retained overdenture. The ball attachment is indicated for use primarily when two implants are placed in the mandible to retain an overdenture. The bar attachment is the prosthetic option of choice for a minimum of 4 implants placed in the maxilla and two implants placed in the mandible.



The Uniti™ ball attachment comprises a ball head screw, a titanium transmucosal element and a gold attachment matrix. The transmucosal elements are available in collar heights of 0.5mm, 2mm & 4mm. The attachment matrices can be activated / de-activated to adjust the level of retention for the patient.



Uniti™ bar abutments comprise three components. A titanium transmucosal element, a bar coping and a screw that connects the bar coping, abutment and implant together. The bar abutments are available in collar heights of 1mm, 2mm & 4mm. The bar copings are available either in gold which can be directly soldered to a gold bar or in a polymer castable version.



Crown & bridge

The Uniti™ system offers a simple yet comprehensive crown & bridge prosthetic program. All abutments are colour coded for easy diameter identification and communication. The flexibility of this prosthetic program offers standard millable titanium straight and angled abutments both for screw retained and cementable prostheses in three collar heights. Customisable cast to base and castable sleeve abutments for multiple units and extreme angulations are additionally available. The tooth coloured Zirconix™ abutments straight and angled offer the perfect solution for metal free ceramic restorations in the esthetic zone.



(Standard straight D 4.3mm abutment in collar heights of 1mm, 2mm & 4mm.)



The Resolve™ cast to base precious metal abutment can be customized to any configuration or angulation. This abutment is indicated predominantly to solve extreme angulation problems with single or multiple units. Alternatively it can be used to produce an individualized precious metal abutment.



Standard millable abutments available in a straight and 15 degree angulated configuration. All standard abutments are available in collar heights of 0.5mm, 2mm & 4mm. Standard abutments offer the option of a lingual / palatal screw retained or a cementable prosthesis.



(Uniti™ standard angled abutments in D 3.3mm, D 3.7mm, D 4.3mm, D 5.3mm & D 6.0mm.)



Zirconix™ abutments are available in straight and 15 degree angled configurations. These abutments have exceptional strength and at the same time offer the perfect solution for all ceramic restorations in the esthetic zone.

Packaging & Delivery

The Uniti™ implant system has adopted an intelligent and elegant colour coding and packaging system to simplify the storage and use of implants and components.



A colour is assigned to each implant diameter. The same colour is used to code all packaging, implant components and instruments specific to that diameter.

The diameters of the Uniti™ System are assigned the following colour codes:



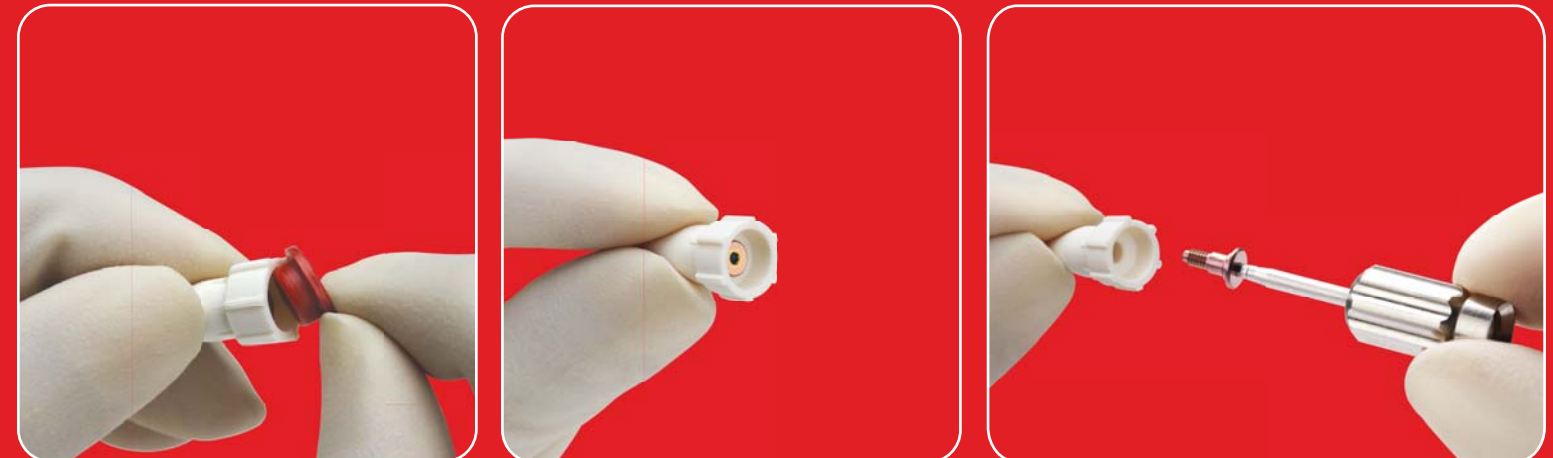
The Uniti™ packaging system complies with relevant international standards and offers the maximum possible ease of use and safety.

All implants are sterilised by gamma radiation and packaged in a sterile vial and blister.



The outer carton is tamper proof with a perforated opening flap. The barcode label on the carton as well as on the blister carries product specifications, expiry date and batch numbers with a peel off label to store specifications on patient records.

The blister also carries a red gamma sterilisation sticker indicating sterility of the product.





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