The Uniti™ implant system is designed to be simple to learn and use. A seamless surgical protocol renders the system user friendly.

For the experienced practitioner it will take no more than a few moments to understand the system and adapt to its use. For practitioners new to implantology the surgical protocols are easy to learn and safe to implement.

The surgical kit is compact, well laid out and communicative in terms of drilling sequence.

Several innovative features like removable drill depth stops, bonesaver™ drills and a colour code that covers all surgical and restorative components make the system unique.

Designed as well for optimal collaboration with your chair side assistant and laboratory technician, your surgical experience will be enriched.
The BoneSaver™ Drills

The high precision drills of the Uniti™ system are internally irrigated with a unique flute design. The sharpness and precise cutting flutes of the drills allow atraumatic cutting of bone and ensure precise and tolerance matched osteotomy sites. The drills have colour coded collars and removable depth stoppers corresponding to the implant diameters for which they are to be used.

The Bonesaver™ drills are designed such that at slow speeds they collect significant amounts of bone chips between the drill flutes. These bone chips could be saved and utilized with or without the addition of an osteoconductive material for augmentation purposes.

The system offers a five diameter choice of D 3.3mm, D 3.7mm, D 4.3mm, D 5.3mm and D 6.0mm. Each implant diameter is available in lengths of 10mm, 13mm and 15mm. The choice of implant diameters facilitates anatomic driven diameter selection and restoration of missing teeth to the highest functional and aesthetic standards.

The Colour Code

The system utilizes a colour code to designate the diameter of all surgical and prosthetic components in the system ranging from Implant packaging, cover screws, healing abutments, impression posts, laboratory analogs and the entire range of abutments. This colour code virtually eliminates component size identification difficulties and ensures error free communication between surgeon, restoring dentist and the dental laboratory.

The D 2.0mm, D 3.3mm and D 3.7mm drills are universal drills while the D 4.3mm, D 5.3mm and D 6.0mm drills are available in individual sizes that correspond to the three implant lengths.

Lengths & diameters

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The Surgical Kit

- **Uniti™ Paralleling pins**
- **D 6.0mm Drill set**
  - L 10mm, L 13mm, L 15mm
  - with removable depth stopper
- **D 5.3mm Drill set**
  - L 10mm, L 13mm, L 15mm
  - with removable depth stopper
- **D 4.3mm Drill set**
  - L 10mm, L 13mm, L 15mm
  - with removable depth stopper
- **D 3.7mm Drill with removable depth stoppers**
  - 10mm, 13mm & 15mm
- **D 3.3mm Drill with removable depth stoppers**
  - 10mm, 13mm & 15mm
- **D 2.0mm Drill with removable depth stoppers**
  - 10mm, 13mm & 15mm

**Uniti™ Hexed Implant drivers**
- Short and long

**Depth Gauges**
- D 2.0mm and D 3.3mm

**Units Surgical ratchet**

**Units Hand driver slotted**
- 1.2mm short and long

**Used component receptacle**
The Drill Sequence

(Simulated placement of an L 15mm implant)

PLEASE NOTE
D 3.3 IMPLANTS TO BE USED ONLY FOR SINGLE CROWN IN THE ANTERIOR MANDIBLE AND MAXILLA. D3.3 IMPLANTS MUST NOT BE USED FOR OVERDENTURES AND COMPONENTS FOR THIS APPLICATION IN THIS DIAMETER WILL NOT BE MADE AVAILABLE.

Extra Surgical Accessories
for Surgical Kit

Uniti™ Torque ratchet

The Uniti™ Torque ratchet is a part of the Uniti™ Prosthetic kit and is recommended predominantly for torque fastening of abutment screws. It is also available separately and can be used in conjunction with the Torque Hexed Implant driver for surgical placement of Implants by dentists who would like to use torque instruments for surgical placements.

The Uniti™ Torque ratchet is precise and simple to use and offers torque settings from 0-35Ncm. The desired torque is set by simply turning the ratchet handle to the desired torque value indicated by laser markings. During use or application the ratchet will simply click or disengage at the precise torque setting that had been pre-set.

The recommended torque setting for fastening Uniti™ abutment screws is between 22-23Ncm. The ratchet torque setting can be locked to exceed torque of 35Ncm and be used routinely in surgery as well. The Instructions for use, cleaning, lubrication and maintenance must be followed explicitly in order to ensure long-term predictable use of this instrument.

Handpiece/Engine driven Drivers

The Surgical Kit contains all the Hexed Implant drivers and a ratchet for manual/Hand insertion of the implants into the osteotomy site. Implantologists who prefer to use engine driven instruments for implant insertion can order the below accessories for this application.

The surgical kit also contains Hand held hexed drivers for opening and closing of cover screws, healing abutment screws, impression post and abutment screws. Implantologists who prefer to use an engine driven instrument for the above can order as an accessory the Uniti™ handpiece hexed driver 1.22mm for this application.
A full thickness mucoperiosteal flap is raised to expose the osteotomy site. The D 2.0mm pilot drill is used to establish depth and axis of drilling. The next drill in the sequence is the D 3.3mm drill up to the same depth as established by the pilot drill. Slight correction of axis/direction is possible with this drill. This is followed by the D 3.7mm drill only to progressively widen the osteotomy site up to the same depth and in the same direction as the previous drills in the sequence. The completed osteotomy site is normally devoid of residual bone chips due to the active internal cooling through the drills. The site can be flushed with normal saline and isolated before placement of the implant. The implant is removed from the vial and placed in the osteotomy site using the implant carrier. The implant driver engages the internal hexagon of the implant while the other end is inserted into the ratchet to progressively screw the implant to its final seating position. The cover screw is placed into the implant in order to hermetically seal the implant during the osseointegration period.
Immediate Placement Flapless

Clinical Case

(single tooth with custom healing Biotemp™ abutment)

1. Flapless Immediate placement with Biotemp™ abutment in place
2. Biotemp™ is cut to a level that supports the proximal and labial soft tissue zeniths, custom healing abutment fabricated in composite resin to passively support soft tissue

Immediate Placement Surgical Sequence

(D 6.0mm L 15mm implant)

D 2.0mm pilot drill placed at a 5-10 degree palatal angulation 2-3mm beyond the socket wall in order to establish primary stability.

D 3.3mm drill in the same axis and depth as the pilot drill up to 15mm in relation to the buccal cortical bone crest.

D 4.3mm drill in the same axis progressively widening up to a 15mm length.

D 5.3mm drill in the same axis without touching the buccal cortical plate up to a length of 15mm.

D 6.0mm final drill just touching the buccal plate up to a length of 15mm.

Implant delivered to the osteotomy site using the carrier.

The Hexed Implant driver inserted into the implant and ratcheted into its final seating position.

A custom made healing abutment using the Biotemp™ abutment seated in place.

A labial view of soft tissue contours around the Zirconix™ abutment.

Completed case with all ceramic crown in place.

Healed situation 4 months post-operative

Temporisation with a palatally bonded splinted restoration

Labial view of soft tissue contours around the Zirconix™ abutment

Completed case with all ceramic crown in place
The availability of bone for placement of a dental implant is often limited due to alveolar resorption patterns. In the maxilla it is often possible to expand bone by using ridge split or ridge expansion techniques. Such techniques take advantage of the lability of alveolar bone and the potential for expansion of cortical plates and condensation of cancellous spaces.

Bone Expanders

The Bone condenser/Internal sinus lift offers a less invasive alternative to a conventional open sinus lift graft in borderline situations where you need to raise the sinus floor by 1 to 3mm.

The internal sinus lift is usually performed using osteotomes/bone condensers that are tapped by a mallet through the osteotomy site, infracturing the sinus floor and elevating the sinus lining for up to 3mm. The concave tip of the condenser instrument also ensures that you transport bone that you would normally drill away, apically into the sinus lift area to surround the implant.

These procedures are normally carried out by generically available sized osteotomes that are provided by various instrument manufacturers.

Bone Condensers

The Uniti™ system offers you a precise tolerance matched, colour coded set of instruments to carry out this procedure in a more precise and controlled manner ensuring a close fit of the implant into the osteotomy site.

Bone condensers can also be used for preparing osteotomy sites in the maxilla in areas of D3 and D4 rarefied bone trabeculae sites. By condensing instead of drilling you achieve a more dense area of bone surrounding the implant leading to a higher percentage bone to implant contact that translates to enhanced osseointegration values.

The distinct advantages of using condensers as opposed to drilling in the above indications are:

- The procedure is less invasive and the risk of damage to the sinus lining is minimized
- These procedure generate less heat than drilling
- A more dense area of bone is created to surround the implant
- A greater sense of tactile sensation exists as compared to drilling
- In one single procedure you can achieve lateral condensation, expansion and sinus floor elevation in borderline cases

While the volume of bone is itself increased by such techniques, often the quality of bone is also enhanced. Uniti™ bone expanders provide a customised solution for maxillary bone expansion that is uniquely compatible with the implant system. They allow atraumatic bone expansion with their rounded tips and along with Uniti™ bone condensers, they provide the Uniti™ user with solutions for deficient bone, allowing accurate and predictable bone manipulation.
The Uniti™ healing abutments or gingivaformers are available in two heights – standard & long.

The standard gingivaformer caters to soft tissue heights of 1-3mm and the long gingivaformers are indicated for soft tissue heights of 3-5mm.

Gingivaformers can be utilized immediately after Implant placement in cases where an Implantologist would want to adopt a single stage surgical protocol.

The flare of the gingivaformer is matched to the flare of the prosthetic abutment collar.

Gingivaformers in progressive diameters
D 3.3mm, D 3.7mm, D 4.3mm, D 5.3mm & D 6.0mm

The Biotemp™ is an alternative to prepare a custom healing abutment for the esthetic zone. The Biotemp™ PEEK abutment can also be used for immediate & delayed provisionalisation and progressive bone loading in the posterior maxilla for sinus graft cases.

Biotemp™ abutments in progressive diameters
D 3.7mm, D 4.3mm, D 5.3mm & D 6.0mm
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:

- D 3.3
- D 3.7
- D 4.3
- D 5.3
- D 6.0

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 double sterile 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.
Re-order Information

Uniti™ Implant D 3.3mm L 10mm UN013310
Uniti™ Implant D 3.3mm L 13mm UN013313
Uniti™ Implant D 3.3mm L 15mm UN013315
Uniti™ Implant D 3.7mm L 10mm UN013710
Uniti™ Implant D 3.7mm L 13mm UN013713
Uniti™ Implant D 3.7mm L 15mm UN013715
Uniti™ Implant D 4.3mm L 10mm UN014310
Uniti™ Implant D 4.3mm L 13mm UN014313
Uniti™ Implant D 4.3mm L 15mm UN014315
Uniti™ Implant D 5.3mm L 10mm UN015310
Uniti™ Implant D 5.3mm L 13mm UN015313
Uniti™ Implant D 5.3mm L 15mm UN015315
Uniti™ Implant D 6.0mm L 10mm UN016010
Uniti™ Implant D 6.0mm L 13mm UN016013
Uniti™ Implant D 6.0mm L 15mm UN016015

Uniti™ cover screw D 3.3mm UN323300
Uniti™ cover screw D 3.7mm UN323700
Uniti™ cover screw D 4.3mm UN324300
Uniti™ cover screw D 5.3mm UN325300
Uniti™ cover screw D 6.0mm UN326000

Uniti™ Surgical kit complete UN490001
Uniti™ Surgical kit box (empty) UN530000

Uniti™ Universal drill D 2.0mm UN512000
Uniti™ Universal drill D 3.3mm UN513300
Uniti™ Universal drill D 3.7mm UN513700
Uniti™ Drill D 4.3mm L 10mm UN514310
Uniti™ Drill D 4.3mm L 13mm UN514313
Uniti™ Drill D 4.3mm L 15mm UN514315
Uniti™ Drill D 5.3mm L 10mm UN515310
Uniti™ Drill D 5.3mm L 13mm UN515313
Uniti™ Drill D 5.3mm L 15mm UN515315
Uniti™ Drill D 6.0mm L 10mm UN516010
Uniti™ Drill D 6.0mm L 13mm UN516013
Uniti™ Drill D 6.0mm L 15mm UN516015

Drill depth stopper D 2.0mm L 10mm UN522210
Drill depth stopper D 2.0mm L 13mm UN522013
Drill depth stopper D 2.0mm L 15mm UN522015
Drill depth stopper D 3.3mm L 10mm UN523310
Drill depth stopper D 3.3mm L 13mm UN523313
Drill depth stopper D 3.3mm L 15mm UN523315
Drill depth stopper D 3.7mm L 10mm UN523710
Drill depth stopper D 3.7mm L 13mm UN523713
Drill depth stopper D 3.7mm L 15mm UN523715
Drill depth stopper D 4.3mm UN524300
Drill depth stopper D 5.3mm UN525300
Drill depth stopper D 6.0mm UN526000

Uniti™ Surgical ratchet UN504101
Uniti™ Hexed Implant driver short UN503101
Uniti™ Hexed Implant driver long UN503102

Depth Gauge D 2.0mm UN500120
Depth Gauge D 3.3mm UN500133

Uniti™ Paralleling pin UN501101
Uniti™ Hand driver 1.2mm short UN502101
Uniti™ Hand driver 1.2mm long UN502102
Uniti™ Hand driver slotted UN502103

Uniti™ Torque ratchet UN530003
Uniti™ Torque Hexed Implant driver UN530014

Uniti™ Handpiece Hexed Implant driver short - universal UN540002
Uniti™ Handpiece Hexed Implant driver long - universal UN540001
Uniti™ Handpiece Hexed Implant driver short - D 3.3mm UN540004
Uniti™ Handpiece Hexed Implant driver long - D 3.3mm UN540003

Uniti™ Handpiece driver 1.22mm short UN540006
Uniti™ Handpiece driver 1.22mm long UN540005

Uniti™ Bone Condenser kit complete UN616000
Uniti™ Bone condenser tray (empty) UN616001
Uniti™ Bone condenser D 2.0mm universal UN623300
Uniti™ Bone condenser D 3.3mm universal UN623700
Uniti™ Bone condenser D 4.3mm L 10mm UN624310
Uniti™ Bone condenser D 4.3mm L 13mm UN624313
Uniti™ Bone condenser D 4.3mm L 15mm UN624315
Uniti™ Bone condenser D 5.3mm L 10mm UN625310
Uniti™ Bone condenser D 5.3mm L 13mm UN625313
Uniti™ Bone condenser D 5.3mm L 15mm UN625315
Uniti™ Bone condenser D 6.0mm L 10mm UN626010
Uniti™ Bone condenser D 6.0mm L 13mm UN626013
Uniti™ Bone condenser D 6.0mm L 15mm UN626015

Uniti™ Gingivaformer D 3.3mm standard UN333340
Uniti™ Gingivaformer D 3.3mm long UN333360
Uniti™ Gingivaformer D 3.7mm standard UN333740
Uniti™ Gingivaformer D 3.7mm long UN333760
Uniti™ Gingivaformer D 4.3mm standard UN334340
Uniti™ Gingivaformer D 4.3mm long UN334360
Uniti™ Gingivaformer D 5.3mm standard UN335340
Uniti™ Gingivaformer D 5.3mm long UN335360
Uniti™ Gingivaformer D 6.0mm standard UN336040
Uniti™ Gingivaformer D 6.0mm long UN336060

Uniti™ Biotemp abutment D 3.7mm UN133700
Uniti™ Biotemp abutment D 4.3mm UN134300
Uniti™ Biotemp abutment D 5.3mm UN135300
Uniti™ Biotemp abutment D 6.0mm UN136000

Uniti™ Biotemp abutment screw universal UN080017

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