The Dual Stability Mechanism (DSM) provided by C1 is based on an integrative development involving the implant’s macro and micro structure as well as a unique differential drilling methodology. C1’s conical design enables moderate compression of the bone at the top 2/3 of the implant’s body, providing immediate mechanical primary stability, while the apex 1/3 of the implant is designed to enable rapid bone growth to minimize stability loss during the first weeks after surgery. The compartments formed between the threads are a result of the differential drilling approach, which prevents bone compression at the area of the implant. The result is an ideal habitat for accelerated and sustainable bone growth and osseointegration, establishing the implant’s long term biological stability. The DSM mechanism combines the benefits of high primary stability with accelerated osseointegration process, abridging the way to complete long term stability. The Dual Stability Mechanism (DSM) provided by C1 is based on an integrative development involving the implant’s macro and micro structure as well as a unique differential drilling methodology.
The new C1 innovative surgical kit is designed for a simple and safe implant placement. The kit introduces a novel ergonomic design of a circle that follows the surgical drilling sequence. In addition, the kit includes a set of length based pilot drills for a worry-free procedure (most used drills) and a colour coded visual cues for both implant diameter and restorative platforms.

**Conical connection**
C1 implant has a conical connection with an anti-rotation cone index. The conical connection offers a reliable seal and an ideal fastening of the implant abutment connection.

**Platform switching**
The C1 system incorporates platform switching for the self-tissues growth and helps to prevent bone resorption.

**Surface**
The surface roughness and micro-morphology is the result of a combination of sand blasting and acid etching. MIS notable surface technology has provided millions of patients and clinicians with excellent osseointegration results and a long-lasting clinical success.

**Conical shape**
With its conical, root-shaped geometry and unique thread design, C1 ensures a superior primary stability, and offers the ultimate choice for a wide range of clinical cases and loading protocols. Its root-shaped design makes C1 ideal for narrow spaces, restricted by adjacent teeth or implants.

**Two spiral channels and domed apex**
The two spiral channels at the apical end of the implant create a self-tapping design and allow direction refinement during the initial stages of insertion. A domed apex allows a softer procedure.

**Dual thread**
A dual thread design increases BIC (Bone to Implant Connection), ensuring osseointegration for a long-lasting clinical success. The overall insertion rate of C1 is 1.5mm per revolution. A self-tapping design and mild bone-compression properties enhance primary stability.

**Micro rings**
Micro rings (0.1x0.3) on the neck provide a better initial stability by improving the interfacial shear strength in the crestal zone.

**Duplo - indicates a narrow platform**

**Green - indicates a wide platform**

**Yellow - indicates a standard platform**

**Characteristics.**

**Surgical Instrument Kit**
The new C1 innovative surgical kit is designed for a simple and safe implant placement. The kit introduces a novel ergonomic design of a circle that follows the surgical drilling sequence. In addition, the kit includes a set of length based pilot drills for a worry-free procedure (most used drills) and a colour coded visual cues for both implant diameter and restorative platforms.