

JDNOW®

one-piece dental implant



JDNOW® CONCEPT

JDNow®concept

Dental implant design

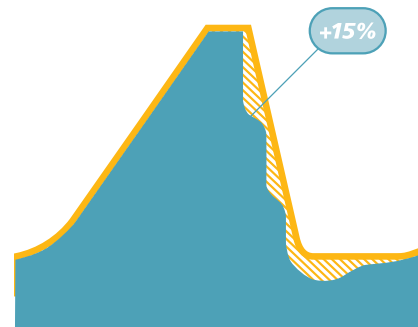
The JDNow® implant thread is more aggressive compared with the standard thread of two-piece implants: this choice has been guided by the necessity to obtain a great primary stability to allow immediate function.

- The increased coil depth allows the implant to anchor in a very effective way even in soft bone.
- The increased friction associated with the increased coil depth is well balanced by the increasing of pitch compared with traditional implants: for this reason the implant keeps a high insertion easiness.
- The coils inclination angle is 45°: this angle represents the best compromise between the coils robustness and the minimum insertion friction.
- The two principles thread guarantees a perfectly centred screwing down with respect to the implant site.

JDNow® presents the exclusive design JDSHAPE*, characterized by the presence of little steps on the low side of the thread and incisions on the implant body in which blood gathers, promoting the precocious formation of bone tissue and a faster osseointegration. The presence of steps on the thread brings a 15% increase of the contact surface between implant and bone, with consequent high increase of implant stability.



*patent pending

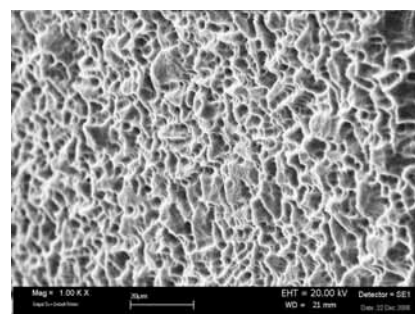
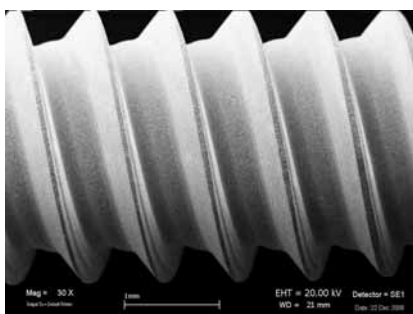


 Traditional implant thread design
 JDShape design: 15% more bone contact surface

The Surface

The osseointegrative micro-roughness surface of the JDNow® implant is provided with a chemical treatment, obtained by a double acid attack. This technology provides an implant surface microtexture which allows fibrin retention and increases blood cells activity, particularly the activation of platelets and leucocytes, to speed up osteogenesis.

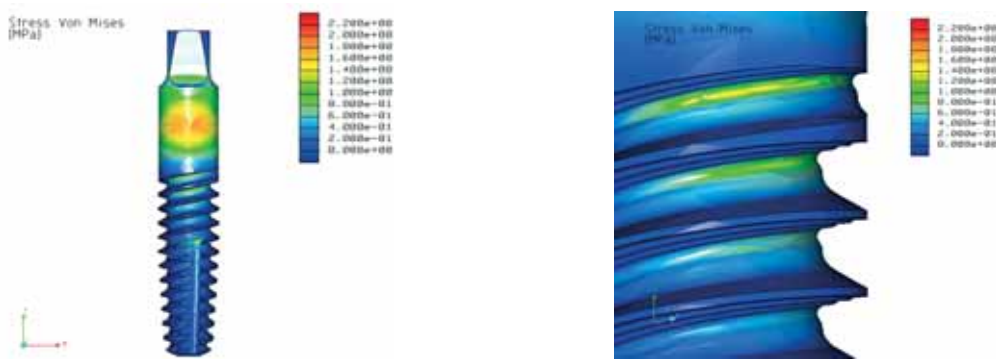
The double-acid-etching process parameters were fine-tuned to achieve a surface roughness value of Sa between 1.0 and 2.0 µm which is known in oral implantology to promote optimal clinical performance. The acid-etching process was also optimized to create a hydrophilic surface which is known to accelerate the healing process by promoting the activity of osteoblasts, the bone-forming cells that play a key role in the integration of implants into bone.



Research and development

JDentalCare has designed all the components of JDNow® implant system giving particular attention on its effectiveness and complete reliability. For this reason our R&D team is supplied with the most recent software CAD 3D and with the most advanced structural simulation codes. In the development phase our products are studied with the finite elements analysis FEM in order to optimize the design and to reduce risks.

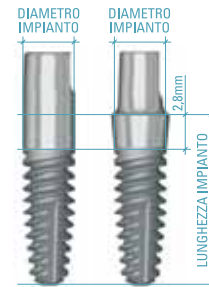
In particular the implant JDNow® was conceived to resist especially to lateral loads, the most critical for this type of medical devices. Its innovative design that make it different from the traditional two-pieces implants, increases the resistant section along all the implant body allowing a global relax of its tensional state and a less risk of failure.





Diameters and lengths

To make easier the treatment planning, the dental implants JDNow® are divided in different diameters identified by a colour code.

The available lengths for every diameter are shown in the following table.



 ø 3.0	12 mm	14 mm	16 mm		
 ø 3.5	10 mm	12 mm	14 mm	16 mm	18 mm
 ø 4.2	10 mm	12 mm	14 mm	16 mm	18 mm
 ø 4.2 shoulder	10 mm	12 mm	14 mm	16 mm	18 mm
 ø 5.0	10 mm	12 mm	14 mm	16 mm	
 ø 5.0 shoulder	10 mm	12 mm	14 mm	16 mm	