

TB IMPLANT

صنع في مصر
Made in Egypt

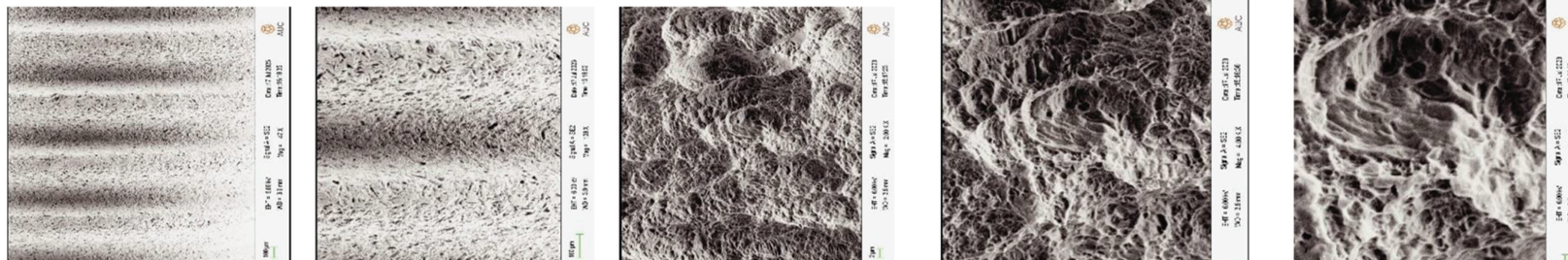
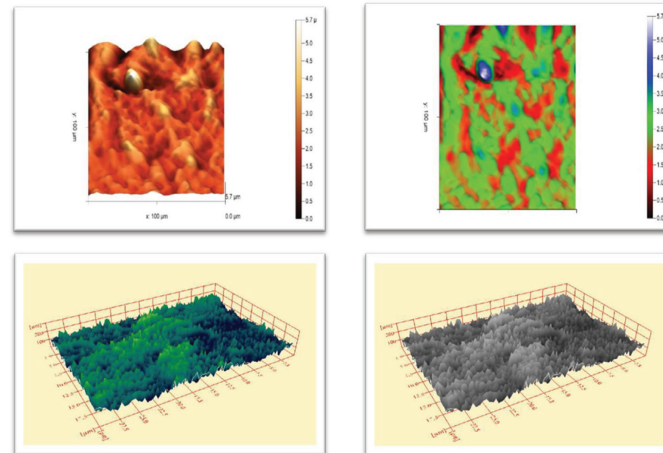
SLA Surface &
Two Drill System

(SLA) TB implants system Roughness analysis By AFM (Atomic Force microscopy).

Atomic force microscopy (AFM) or scanning force microscopy (SFM) is a very-high-resolution type of scanning probe microscopy (SPM), with demonstrated resolution on the order of fractions of a nanometer, more than 1000 times better than the optical diffraction limit.

An important parameter for the clinical success of dental implants is the formation of direct contact between the implant and surrounding bone, whose quality is directly influenced by the implant surface roughness. A screw-shaped design and a surface with an average roughness of SA of 1-2 µm showed a better result. Classified as smooth ($R_a < 0.5 \mu\text{m}$), minimally rough ($R_a 0.5\text{--}1.0 \mu\text{m}$), moderately rough ($R_a 1.0\text{--}2.0 \mu\text{m}$), and highly rough ($R_a > 2.0 \mu\text{m}$) Surface properties are a critical factor for achieving clinical success.

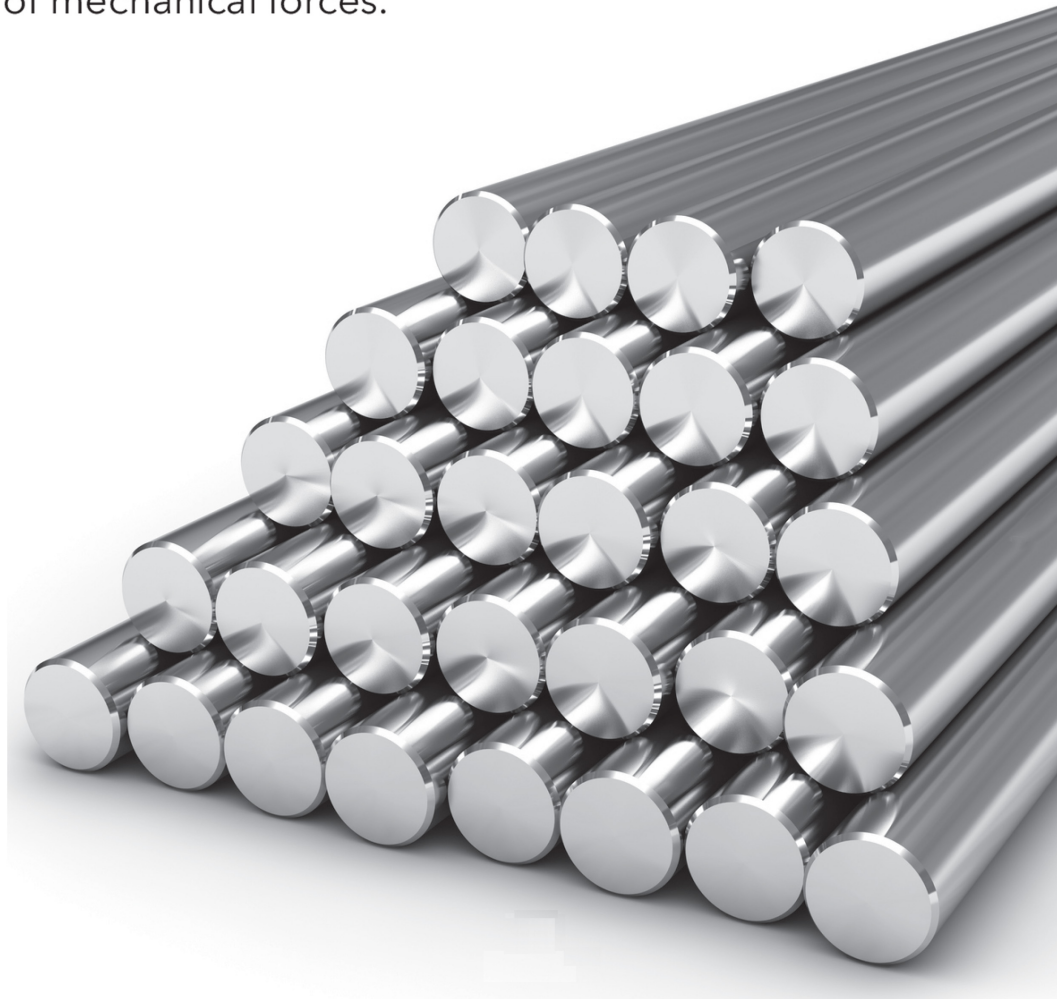
SLA	Ra(um)	Sa(um)	Sq(um)	Ssk(um)	Sp(um)	Sv(um)	Sz(um)
Parameter(um)	2.23631	2.063	2.531	0.429658	3.43380	2.23614	5.66994



RAW MATERIALS

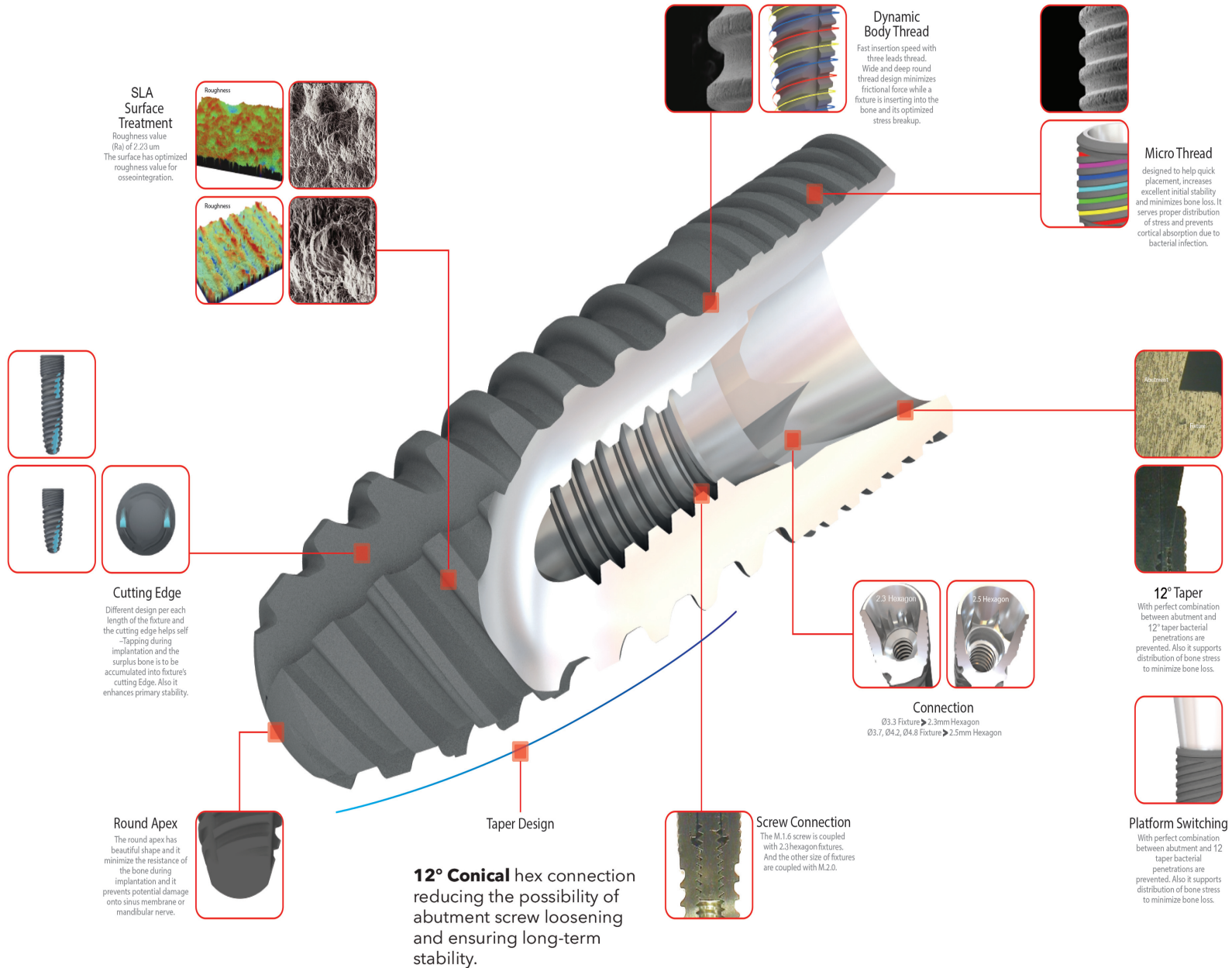
TB Implant System

TB Implants are manufactured from alloyed **Titanium Ti6Al4V ELI (Grade 23)**. This alloy has proven to be the ideal material for implant manufacture mainly due to its ability to integrate almost completely with bone. It is also biodegradable and offers **Chemical Stability** as well as superior mechanical qualities such as strength and durability. It is **40%** more durable than **Grade 4** in terms of mechanical forces.



TB Implant System

Fixture Features



IMPLANT FEATURES

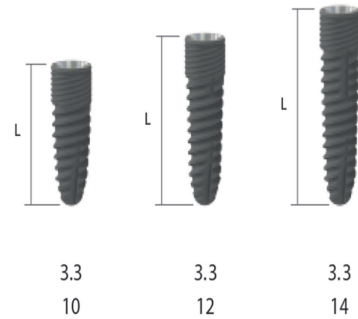
TB Implant System

Small



Diameter (Ø)

Length(mm)

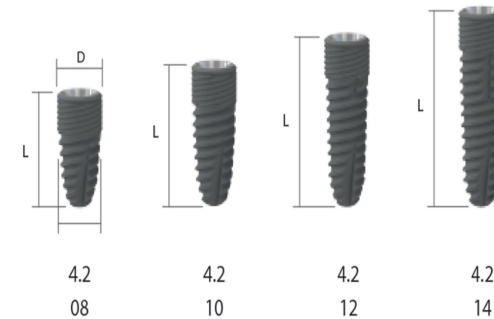


Medium



Diameter (Ø)

Length (mm)

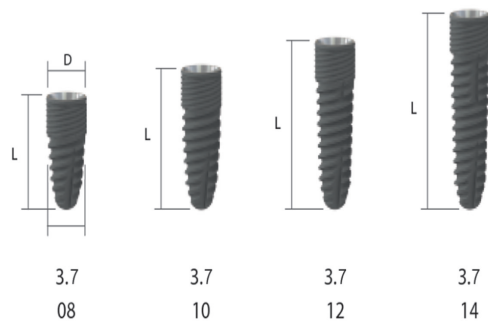


Narrow



Diameter (Ø)

Length (mm)

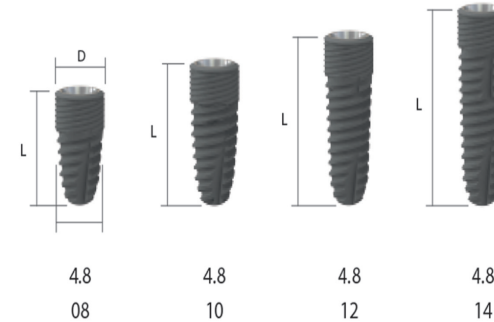


Regular



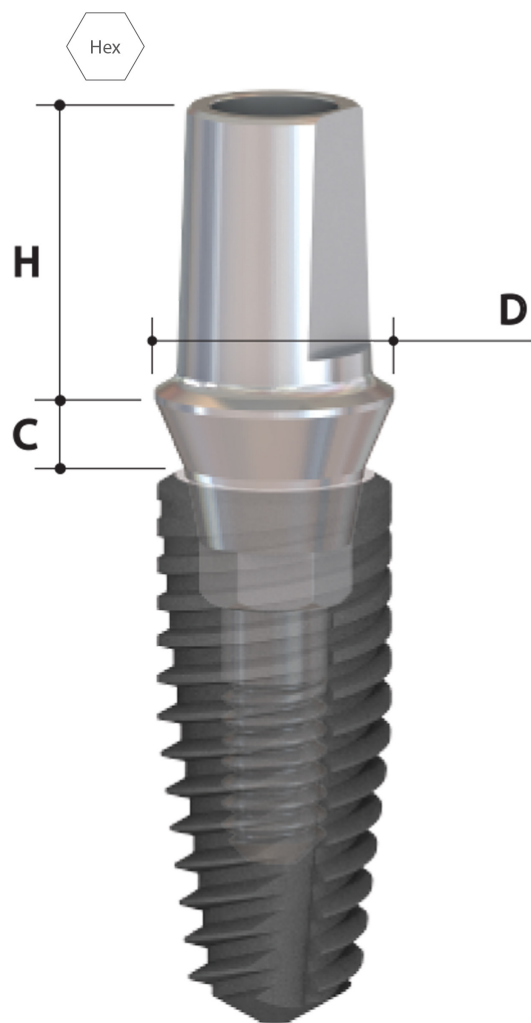
Diameter (Ø)

Length (mm)



Cementation Abutment [Hex]

TB Implant System

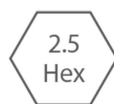
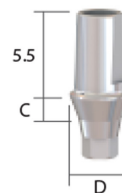


Implant Size
3.3

Diameter (Ø)

Collar (mm)

Pro' Code

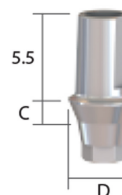


Implant Size
3.7 4.2 4.8

Diameter (Ø)

Collar (mm)

Pro' Code



Torque : 30Ncm