

a new **smart** regeneration system

smartbone®
smartscrews™
smarttools™
smartkit™

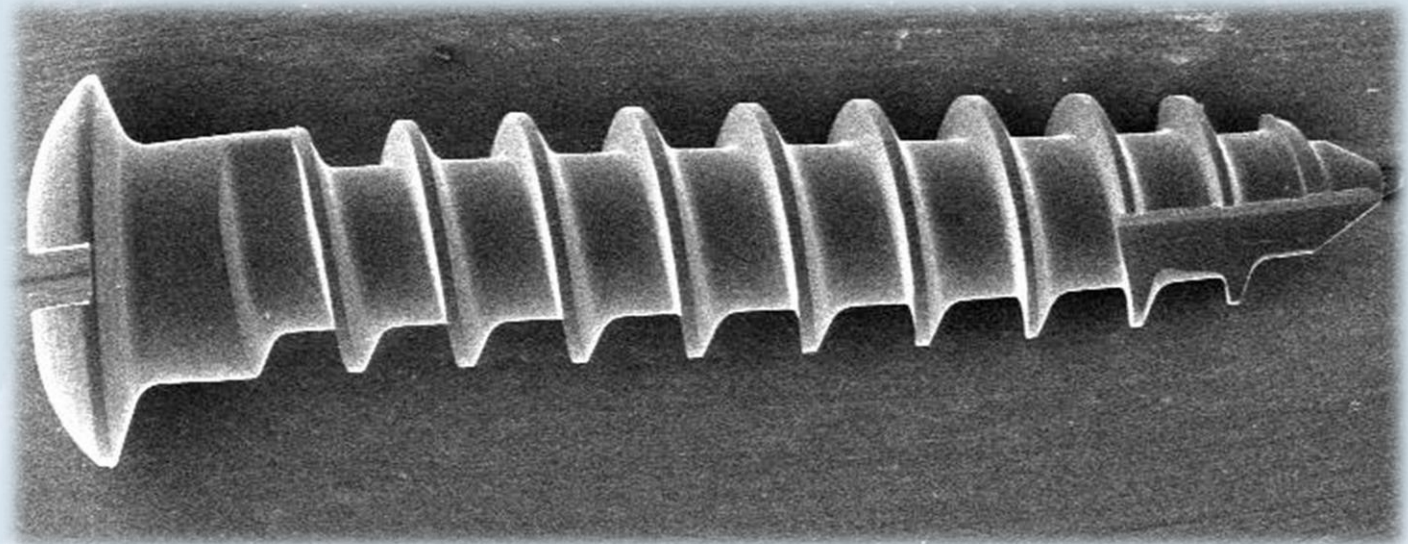


smartscrews™

SmartScrews™ allow a **rigid and ideal stabilization** of bone grafts and membranes directly to the patient's bone. Their correct positioning guarantees the **elimination** of any possible **micro-movement** and **allows an optimal osseointegration**.

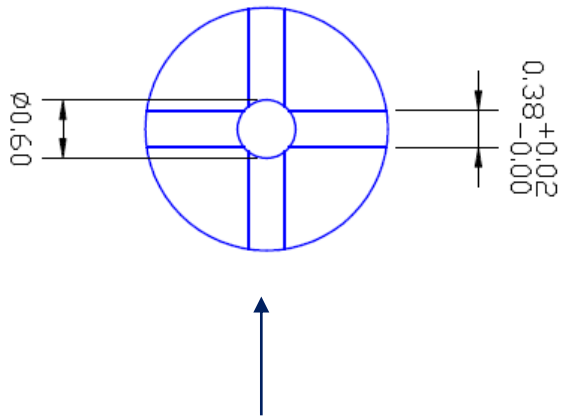
SmartScrews™ can be removed after a period of 4 to 9 months, necessary to permit a good bone regeneration and the bone graft's osseointegration.

- DENTAL APPLICATION
- MAXILLOFACIAL APPLICATION
- ORTHOPAEDIC APPLICATION

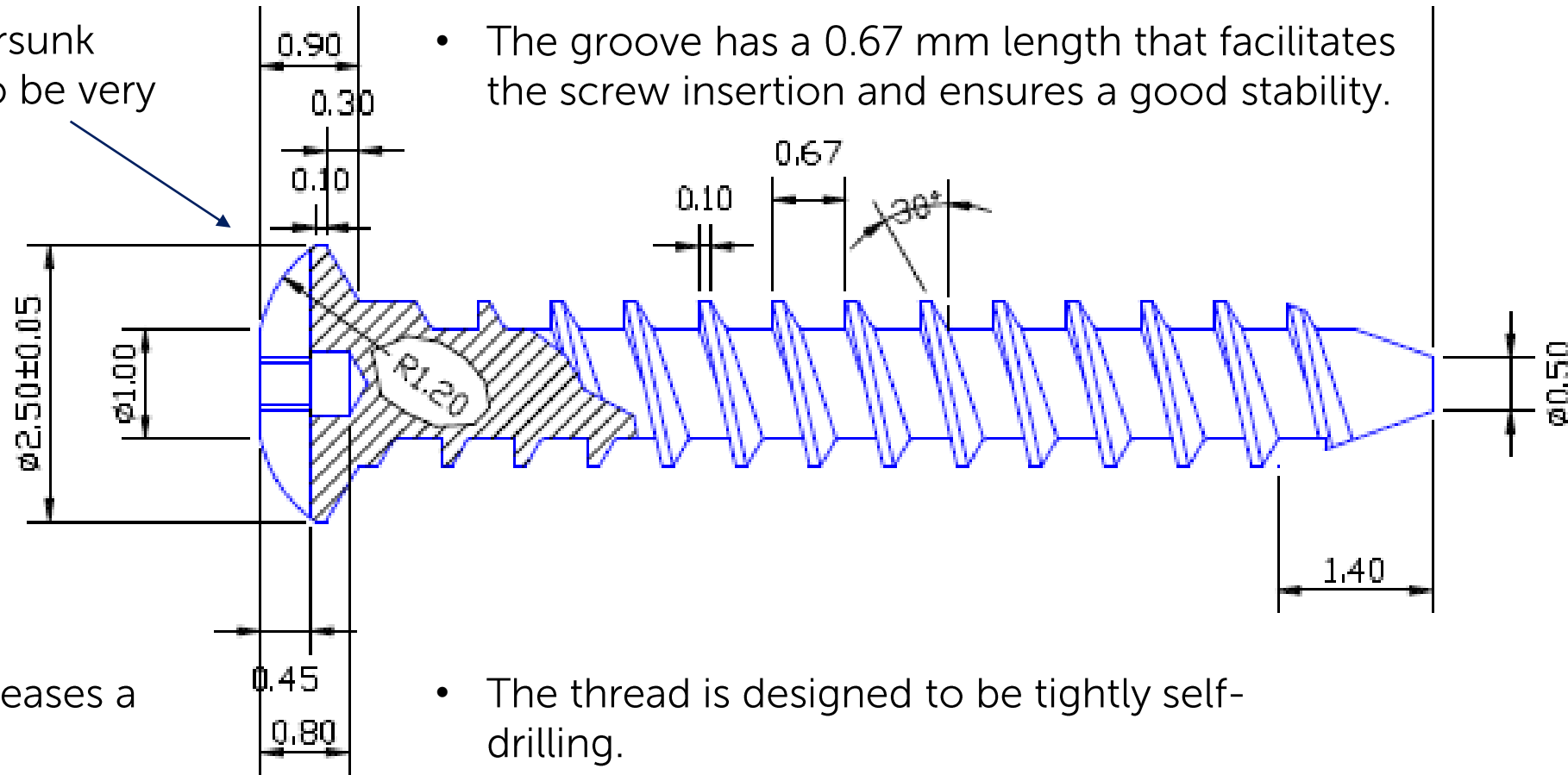


TECHNICAL DRAWING

- The crosswise and countersunk head has been designed to be very thin.



- The inner crosswise insert eases a firm grip and safe screwing/unscrewing.



- The groove has a 0.67 mm length that facilitates the screw insertion and ensures a good stability.

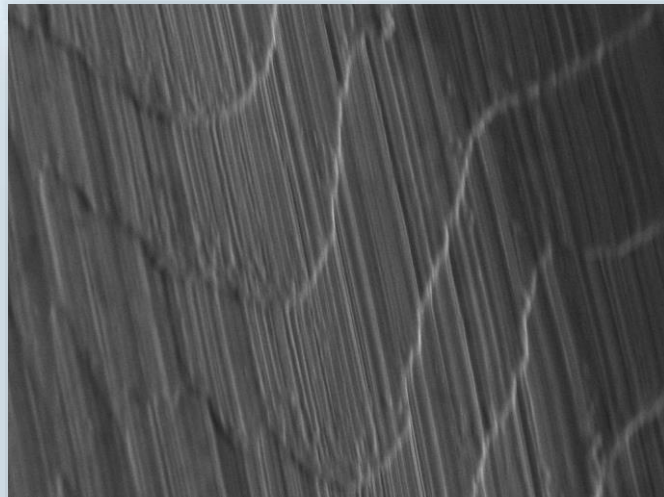
- The thread is designed to be tightly self-drilling.
- The sawtooth shaped pitch increases the self-threading capacity.

MATERIAL

STEEL SCREWS

AISI 316L

The steel screws have the great advantage of **not integrating** into the surrounding bone.

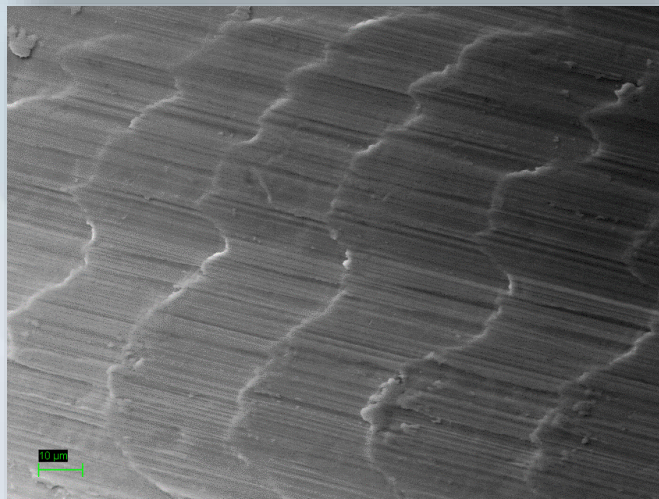


SEM MAG: 1.61 kx DET: SE Detector
HV: 20.0 kV DATE: 04/22/14 50 um Vega ©Tescan
VAC: HiVac Device: TS5130MM Digital Microscopy Imaging

TITANIUM SCREWS

ASTM gr 5

The titanium screws are designed to have a **very smooth surface** in order to decrease the effect of osseointegration.



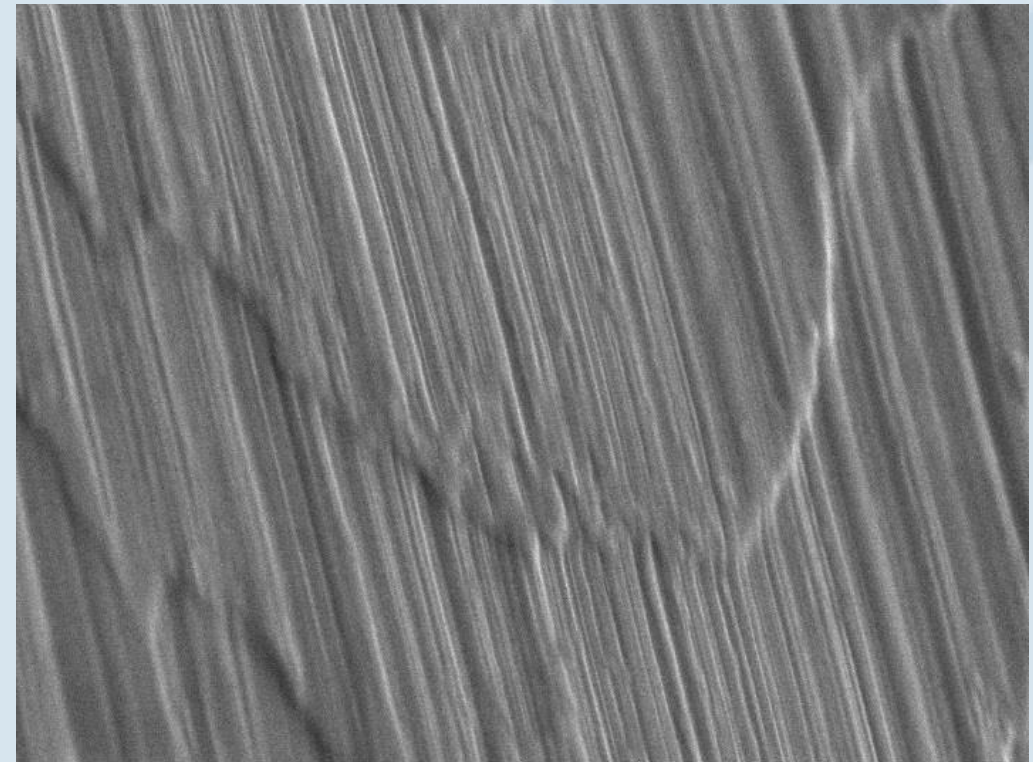
10 um

STEEL SCREWS

AISI 316L

Advantages:

- **easy removal** upon reopening of the surgical site after 4-5 months of regeneration/remodelling;
- **reduced risk of damage of the contact surface** between the bone graft and the screw itself;
- if they are **used with SmartBone®**, it is not necessary to keep them in place for more than 6 months (this time-gap **prevents the onset of negative effects** due to the long contact with the host site).



SEM MAG: 3.11 kx
HV: 20.0 kV
VAC: HiVac

DET: SE Detector
DATE: 04/22/14
Device: TS5130MM

20 um

Vega ©Tescan
Digital Microscopy Imaging

PACKAGING



PRODUCT LIST

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>SIZE</i>
SMK0715T	SmartScrews™ Titanium	Length 7 mm / Ø 1,5 mm Ti ASTM Gr5
SMK1115T	SmartScrews™ Titanium	Length 11 mm / Ø 1,5 mm Ti ASTM Gr5
SMK1515T	SmartScrews™ Titanium	Length 15 mm / Ø 1,5 mm Ti ASTM Gr5
SMK0715S	SmartScrews™ Steel	Length 7 mm / Ø 1,5 mm AISI 316L
SMK1115S	SmartScrews™ Steel	Length 11 mm / Ø 1,5 mm AISI 316L
SMK1515S	SmartScrews™ Steel	Length 15 mm / Ø 1,5 mm AISI 316L



smarttools™

This high quality instruments set guarantees a flexible and versatile use, allowing the treatment of any type of bone defect.

SCREWDRIVERS

SCDM
MANUAL SCREWDRIVER
LENGTH 160 mm
ALLUMINIUM ANODIZED

SCDC
SCREWDRIVER FOR
HANDPIECE
LENGTH 25,3 mm
STEEL 1RK91

SCAR
IMPLANT SCREWDRIVER
LENGTH 22 mm
STEEL 174PH



REVOLVING
HEAD

The connector of the screwdrivers has a cone shaped design for a better grip on the screw head.

SCCA
CONTRA-
ANGLE
CONNECTOR
LENGTH 25,3
mm
STEEL 1RK91

OSTEOSYNTHESIS DRILLS

AISI630



SMD08	SMD12	SMD15
Ø 0,8 mm	Ø 1,2 mm	Ø 1,5 mm
h 6 mm	h 12 mm	h 12 mm

smarttools™ for shaping



SMD23
SHAPING BONE DRILL
Ø 2,3 mm (M340)
To perform a precise and easy
shaping of SmartBone®.



SMD25
ROUND BURR
Ø 2,5 mm (M340)
To eliminate of any sharp edges.
To create the seat of the screw
head on the graft.



SCTR
BONE CUTTER
MOD. RUSKIN MINI
LENGTH 155 mm



SCSN
SURGICAL PROBE
MOD. UNIVERSITY OF NORTH CAROLINA
LENGTH 155 mm

smartkit™

- tray
- manual screwdriver
- screwdriver for handpiece
- implant screwdriver
- contra-angle connector
- osteosynthesis drill Ø 0,8 mm - h 6 mm
- osteosynthesis drill Ø 1,2 mm - h 12 mm
- osteosynthesis drill Ø 1,5 mm - h 12 mm
- round burr Ø 2,5 mm
- shaping bone drill Ø 2,3 mm



In order to allow a perfect autoclave sterilization, the tray's compartments have at least 1 hole. The screw compartment contains 40 holes and is divided in 4 sections to easily identify the screw length.