

B-Screw TCP

Interference Screw

Product Brochure



Biocomposite screw

Designed for reliability, biocompatibility and ease of use

B-Screw TCP

The B-Screw TCP is a biocomposite interference screw specifically designed to meet the needs of surgeons.

Made of Polyal®, a 70% PLA and 30% B-TCP biocomposite material, the B-Screw is designed for:

- Fixation of soft tissue and bone tendon grafts
- Ligament reattachment in a variety of surgical procedures



High Torque Resistance¹

Triangular driver geometry transmits torque more effectively compared to standard hex driver geometry

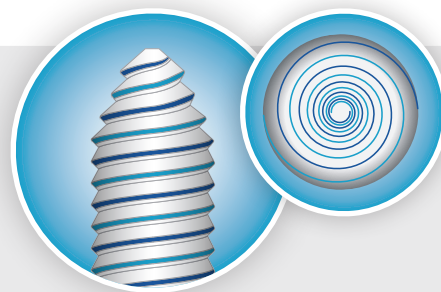
Reliable insertion, even in hard bone



Self-Tapping²

A conical tip and unique thread pattern designed to eliminate the need for tap instrumentation

Quick and easy starting



Double Thread Design

Two independent threads reduce the number of turns needed to insert the screw

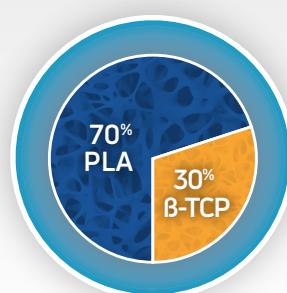
Faster and more efficient insertion



Internal Configuration

The screw and driver design shifts torsional stress off from the screw and onto the driver, improving performance during insertion

Tactile feedback and reproducibility



Poyal³

A safe and proven biocomposite material that is mechanically resistant, radiolucent, bioabsorbable and osteoconductive

Supports the formation of new bone



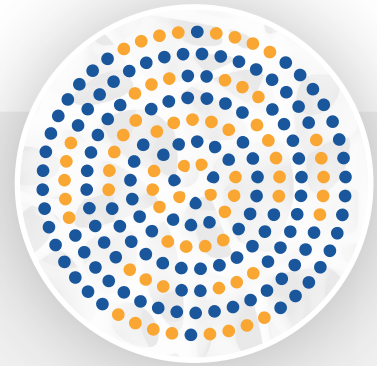
Full Size Range

Available in 6 diameters and 4 lengths; suitable for multiple procedures

Versatility

Polyal Bioabsorption Profile

- β -TCP is an osteoconductive material that promotes bone ingrowth¹
- Mechanical properties preserved due to the homogeneous distribution of β -TCP particles within the PLA matrix
- Reduced risk of inflammation thanks to β -TCP buffering effect¹
- Mechanically stable during healing⁴
- Bioabsorption process is tailored to start at the end of natural bone healing
- Complete absorption of the screw is observed within a maximum of 4 years²



70% PLA [poly(70/30; L/DL)lactide]
30% B-TCP [beta tricalcium phosphate]

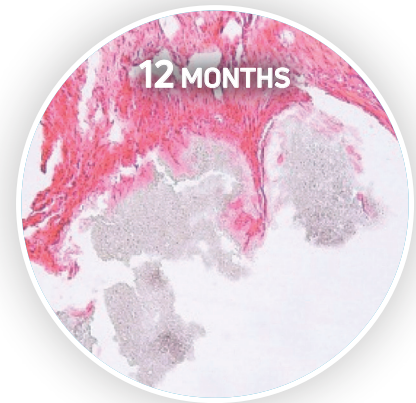
In vivo implantation⁵



Cohesion of new bone ingrowth around the screw

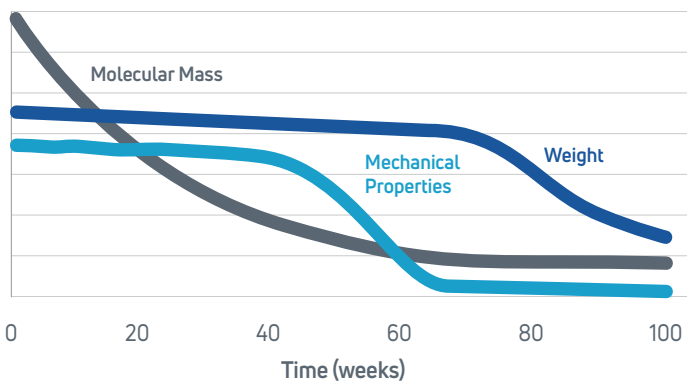


Screw distortion during process of resorption

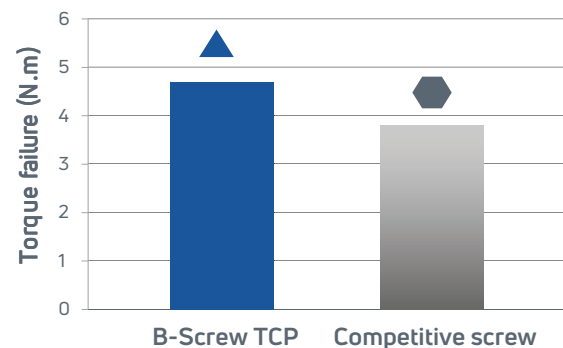


Interdigitation of new bone into screw's fragments

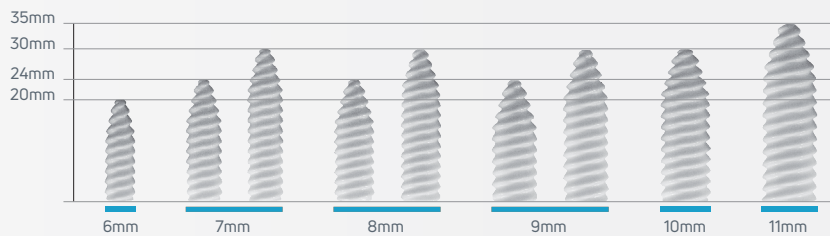
In vitro degradation⁶



Torque resistance¹



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Part #	Diameter (mm)	Length (mm)	Material
730620NGD01	6 mm	20 mm	Biocomposite
730724NGD01	7 mm	24 mm	Biocomposite
730730NGD01	7 mm	30 mm	Biocomposite
730824NGD01	8 mm	24 mm	Biocomposite
730830NGD01	8 mm	30 mm	Biocomposite
730924NGD01	9 mm	24 mm	Biocomposite
730930NGD01	9 mm	30 mm	Biocomposite
731030NGD01	10 mm	30 mm	Biocomposite
731135NGD01	11 mm	35 mm	Biocomposite

Instrumentation

Part #	Description	Sterile/ Non-Sterile	Single-Use/ Reusable
11667	Nitinol Guidewire, Sterile, 1.1mm x 400mm	Sterile	Single-use
T067231	Standard Driver, with 1.2mm cannulation	Non-sterile	Reusable
T067228	Ratchet Driver Handle, with 1.2mm cannulation	Non-sterile	Reusable
T067234	Ratchet Driver Shaft, with 1.2mm cannulation	Non-sterile	Reusable
T067606	B-Screw Tap 6mm	Non-sterile	Reusable
T067607	B-Screw Tap 7mm	Non-sterile	Reusable
T067608	B-Screw Tap 8mm	Non-sterile	Reusable
T067609	B-Screw Tap 9mm	Non-sterile	Reusable
T067610	B-Screw Tap 10mm	Non-sterile	Reusable
T067611	B-Screw Tap 11mm	Non-sterile	Reusable

1 Internal report "132-3-PE", 2013. **2** Internal report "JI19022015", 2015. **3** M. Dziadek et al. "Materials Science and Engineering: C", Vol. 71, pp. 1175-1191, 2017. **4** Internal report "SO161019", 2019. **5** Internal report "Étude n°07-04", 2008. **6** Internal report "In vitro degradation DM PLA/PLA-TCP", 2017.

Anika Therapeutics, Inc.

Parcus Medical, LLC
6423 Parkland Dr, Sarasota, FL 34243
1-877-746-2972 | ParcusCS@anika.com

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