

ActivaScrew™ Interference TCP

Contact

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Absorbable self-reinforced poly(L-lactide-co-glycolide) TCP (β -tricalcium phosphate) filled biocomposite

Advanced absorbable biocomposite interference screw for fixation of tissue, including ligament or tendon to bone, or a bone-tendon to bone in the presence of appropriate immobilization or controlled mobilization. Interference fixation is appropriate for surgeries of knee, shoulder, elbow, ankle, foot and hand/wrist. The ActivaScrew™ Interference TCP is manufactured from absorbable, self-reinforced poly(L-lactide-co-glycolide) (PLGA 85/15) filled β -tricalcium phosphate (TCP) with patented Self-Locking SL™ technology. β -TCP is recognized as an osteoconductive ceramic and it offers exceptional biocompatibility with natural bone components. ActivaScrew™ Interference TCP gradually loses its strength, however, maintaining its function for at least 12 weeks. Complete absorption takes place within approximately two years, thus eliminating the need for implant removal surgery.

Patient Benefits

The ActivaScrew™ Interference TCP is designed for fixing the ligament or tendon to the bone in the upper or lower extremities. With Bioretec's absorbable implants, only one surgical procedure is required, reducing the risk of complications and minimizing patient discomfort.

Additionally, these implants accelerate rehabilitation by facilitating bone healing due to its bioceramic component.

During the absorption process, the implants maintain accurate position of the tendon or ligament graft after surgical procedure. The function of the implants is maintained for at least 12 weeks. Absorption takes place within approximately two years, thus eliminating the need for implant removal surgery and reducing patient stress and discomfort.

Professional Benefits

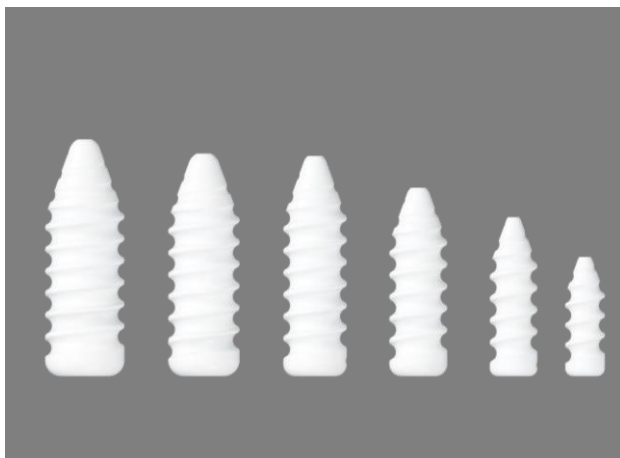
The ActivaScrew™ Interference TCP is a versatile biocomposite interference screw designed for secure and biologically integrated fixation. Made from self-reinforced absorbable poly(L-lactide-co-glycolide) (PLGA) with osteoconductive β -tricalcium phosphate (TCP). Self-reinforcement significantly enhances the interference screw's mechanical properties, e.g., torsional strength. The ActivaScrew™ Interference TCP naturally absorbs approximately within two years, eliminating the need for removal surgery. Exposed TCP particles on the surface promote immediate bone growth.

Available in sizes ranging from \varnothing 4 mm to 11 mm, it accommodates diverse surgical needs and is MR-compatible. Its patented Self-Locking SL™ technology enables 1–2% expansion under human conditions, enhancing stability and compressing grafts tightly against the drill canal for up to 8–12 weeks postoperatively.

The screw's optimized thread profile minimizes graft damage while ensuring strong pull-out strength and homogenous pressure. A center-driven Torx driver design allows for precise insertion, and it is compatible with 0.8 mm or 1.6 mm guide wires. If necessary, reoperation or removal can be performed by drilling through the screw.

With high strength, innovative design, and advanced materials, the ActivaScrew™ Interference TCP ensures reliable and effective fixation for various medical applications.

Product images



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Overview

- A biocomposite screw for strong fixation of ligament, tendon or bone-tendon to bone.
- Biocomposite with fully absorbable PLGA mixed with osteoconductive β -tricalcium phosphate (TCP).
- The material's bending modulus is closer to the value of cortical bone compared to metallic implants.
- Enhanced tissue attachment and new bone formation with osteoconductive β -TCP and optimized TCP particle size.
- Patented Self-Locking SL™ technology enables 1–2% expansion under human conditions, enhancing stability and compressing grafts tightly against the drill canal for up to 8–12 weeks postoperatively.
- Product range starts from the world’s smallest biocomposite interference screw, Ø 4mm x 10 mm.
- Over 30% more pull-out strength than the market leader due to the self-reinforcement technology*.

Specific Indication Examples



Elbow:

- Medial Collateral Ligament Reconstruction
- Lateral Collateral Ligament Reconstruction
- Shoulder
- Biceps Tenodesis
- Hand
- Thumb Carpometacarpal Ligament Reconstruction



Knee:

- Anterior Cruciate Ligament (ACL) Reconstruction
- Posterior Cruciate Ligament (PCL) Reconstruction
- Medial Patellofemoral Ligament (MPFL) Reconstruction
- Foot and ankle
- Lateral Ankle Reconstruction
- Flexor Digitorum Longus Tendon Transfer
- Flexor Hallucis Longus Tendon Transfer-Achilles Tendon

Features / Unique Selling Points

Self-reinforced structure provides additional strength and stiffness.

Excellent load-carrying capacity.

Single sterile packed.

Graft conserving implant thread design.

Osteoconductive β -tricalcium phosphate (TCP) filler.

Self-Locking SL™ technology provides additional fixation security.

Excellent also in pediatric orthopaedics.

All Activa implants are MR Safe.

ActivaScrew™ Interference TCP

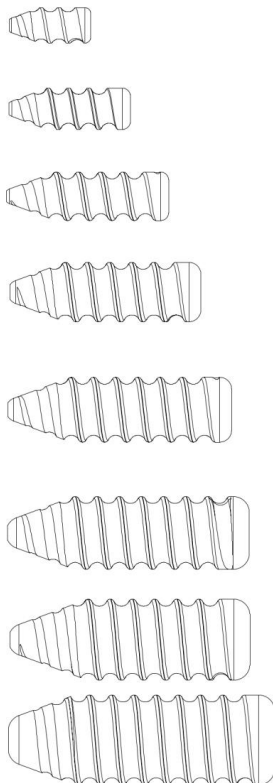
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Product Codes

B-DI-0410	ActivaScrew™ Interference TCP 4 x 10 mm
B-DI-0415	ActivaScrew™ Interference TCP 4 x 15 mm
B-DI-0420	ActivaScrew™ Interference TCP 4 x 20 mm
B-DI-0510	ActivaScrew™ Interference TCP 5 x 10 mm
B-DI-0515	ActivaScrew™ Interference TCP 5 x 15 mm
B-DI-0520	ActivaScrew™ Interference TCP 5 x 20 mm*
B-DI-0615	ActivaScrew™ Interference TCP 6 x 15 mm
B-DI-0620	ActivaScrew™ Interference TCP 6 x 20 mm
B-DI-0626	ActivaScrew™ Interference TCP 6 x 26 mm
B-DI-0720	ActivaScrew™ Interference TCP 7 x 20 mm
B-DI-0724	ActivaScrew™ Interference TCP 7 x 24 mm
B-DI-0726	ActivaScrew™ Interference TCP 7 x 26 mm
B-DI-0730	ActivaScrew™ Interference TCP 7 x 30 mm
B-DI-0820	ActivaScrew™ Interference TCP 8 x 20 mm
B-DI-0824	ActivaScrew™ Interference TCP 8 x 24 mm
B-DI-0828	ActivaScrew™ Interference TCP 8 x 28 mm
B-DI-0830	ActivaScrew™ Interference TCP 8 x 30 mm
B-DI-0833	ActivaScrew™ Interference TCP 8 x 33 mm
B-DI-0920	ActivaScrew™ Interference TCP 9 x 20 mm
B-DI-0924	ActivaScrew™ Interference TCP 9 x 24 mm
B-DI-0928	ActivaScrew™ Interference TCP 9 x 28 mm
B-DI-0930	ActivaScrew™ Interference TCP 9 x 30 mm
B-DI-0933	ActivaScrew™ Interference TCP 9 x 33 mm
B-DI-1024	ActivaScrew™ Interference TCP 10 x 24 mm
B-DI-1028	ActivaScrew™ Interference TCP 10 x 28 mm
B-DI-1030	ActivaScrew™ Interference TCP 10 x 30 mm
B-DI-1033	ActivaScrew™ Interference TCP 10 x 33 mm
B-DI-1128	ActivaScrew™ Interference TCP 11 x 28 mm
B-DI-1130	ActivaScrew™ Interference TCP 11 x 30 mm
B-DI-1133	ActivaScrew™ Interference TCP 11 x 33 mm



Instrumentation Options

Product Code	Description	pcs / package
B-IIS-1000	ActivaScrew™ Interference Instrument Set	1
set includes the following reusable instruments:		
B-II-8010	Notcher for interference screw	1
B-II-9031	Torx driver for interference screw	1
B-ISC-9013	Large handle, cannulated, quick coupling	1
B-II-9032	Torx shaft for 4/5/6 mm interference screw with quick coupling	1
B-II-0815B	K-wire Ø0.8 mm, length 150 mm, blunt ends, for 4/5/6 mm interference screw	4
B-II-0830B	K-wire Ø0.8 mm, length 300 mm, for 4/5/6 mm interference screw, blunt ends	4
B-II-1630B	K-wire Ø1.6 mm, length 300 mm, for 7/8/9/10/11 mm interference screw, blunt ends	4
B-II-4000	Drill bit Ø4.0 mm, cannulated, for 4 mm interference screws, quick coupling	1
B-II-5000	Drill bit Ø5.0 mm, cannulated, for 5 mm interference screws, quick coupling	1
B-II-6000	Drill bit Ø6.0 mm, cannulated, for 6 mm interference screws, quick coupling	1
B-II-9000	Sterilization tray, for ActivaScrew™ Interference instruments	1

Instruments are delivered unsterile.

Product properties

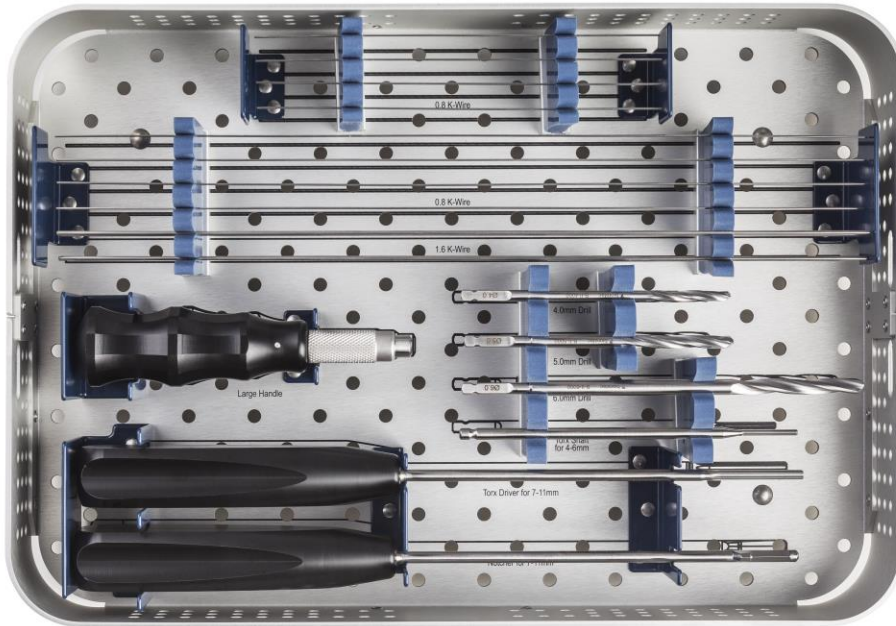
- Material: ActivaScrew™ Interference TCP biocomposite screw is made of absorbable self-reinforced poly(L-lactide-co-glycolide) (PLGA) filled β-tricalcium phosphate (TCP).
- Certificates: ActivaScrew™ Interference TCP is CE approved.
- Variations: The size range of ActivaScrew™ Interference TCP starts from 4 mm, the largest being 11 mm in diameter.

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ActivaScrew™ Interference Instrument Set**ActivaScrew™ Interference TCP Driver**

ActivaScrew™ Interference TCP

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Product Information and Availability Notice

Please refer to the package labelling and Instructions For Use to identify the intended use, indications and surgical technique for additional information.

Registrations for Bioretec implants vary by market and specific product design, including but not limited to authorizations from the FDA in the United States and CE marking in Europe. For more information, please contact Bioretec customer service.

For orders and more information, contact sales@bioretec.com or visit www.bioretec.com.