ActivaPin™

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Absorbable self-reinforced biopolymer (poly L-lactide-co-glycolide copolymer, PLGA 85/15)

Advanced absorbable pin for upper and lower extremity fixation of bone fractures, osteotomies, arthrodeses, and osteochondral fractures in the presence of appropriate immobilization with patented Self-Locking SL™ technology and grooved surface design. ActivaPin™ implants gradually lose their strength, however, maintaining their function for at least 8 weeks. Complete absorption takes place within approximately two years, thus eliminating the need for implant removal surgery.

Patient Benefits

The ActivaPin™ implant is designed for use in the upper or lower extremities to support successful bone healing in the fixation of small fractures or correction of malalignments. Its gradual absorption into the body eliminates the need for a removal surgery, reducing patient stress and discomfort.

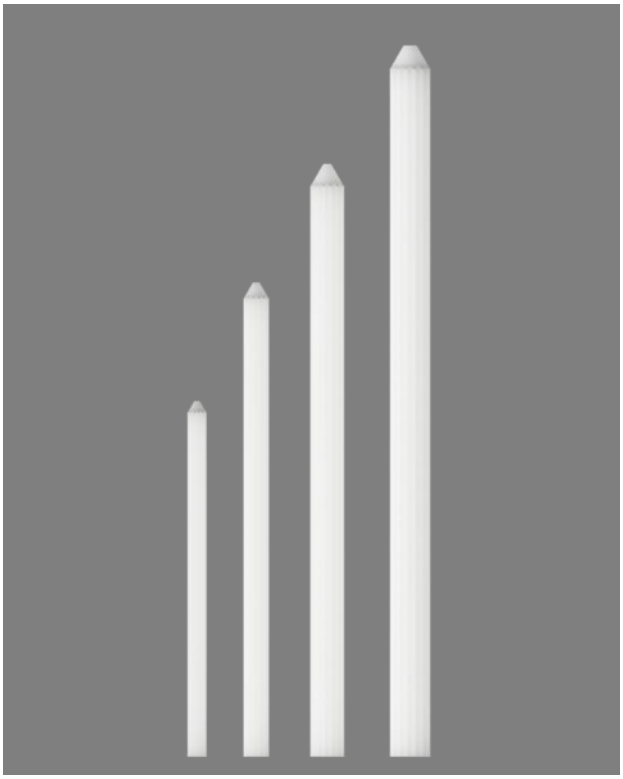
During the absorption the implant slowly transfers stress to the healing bone, assisting in the healing process. Due to the absorption, the risks of implant-related long-term complications are eliminated. ActivaPin™ material facilitates bone healing and is absorbed in approximately two years.

Professional Benefits

ActivaPin™ is available in various diameters and lengths, featuring patented Self-Locking SL™ technology and a grooved surface design for excellent fixation. It can be easily trimmed to the desired length, ensuring precise adaptability. These features provide excellent rotational stability, keeping the product securely in place after implantation. Additionally, the ActivaPin™ can be slightly bent to achieve the desired anatomical orientation. Its self-reinforced structure offers enhanced support, with the diameter increasing by 1–2% from its initial dimensions, ensuring a tight and reliable fit to the bone.

The use of ActivaPin™ is straightforward with Bioretec's reusable or single-use pin applicator, designed to pick up and attach the implant. This eliminates the risk of losing the pin during insertion. The insertion process can be performed using either a reusable arthroscopic or regular applicator, or a single-use pin applicator. ActivaPin™ is sterile packaged to ensure ease of use and maintain aseptic conditions during surgical procedures.

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Overview

- For fixation of bone fractures, osteotomies, arthrodesis and osteochondral fractures in the presence of appropriate immobilization.
- ActivaPin™ implant provides higher strength and stiffness created by the tailored material and the proprietary manufacturing technique.
- Customizable by bending in order to achieve the desired anatomical orientation.
- The material's bending modulus is closer to the value of cortical bone, which eliminates stress shielding in bone.
- ActivaPin™ material facilitates bone healing and is absorbed in approximately two years. It is made of PLGA 85/15.
- ActivaPin™ utilizes Bioretec´s patented Self-Locking SL™ technology, which reduces the risk of unstable fixation. This technology enables the implant´s diameter to expand 1-2 % in the physiological environment and fixes the implant firmly to the bone.

Specific Indication Examples



Common applications in upper extremities:
- Humeral condyle fractures
- Olecranon fractures
- Radial head fractures
- Distal radius fractures
- Metacarpal fractures
- Phalanx fractures



Common applications in lower extremities:
- Ankle fractures, e.g. malleolar fractures
- Talar fractures
- Patella fractures
- Fixation of metatarsal and phalangeal fractures and osteotomies (i.e., Akin, Scarf, Chevron, Weil) e.g., Hallux Valgus
- Arthrodesis e.g., talocrural arthrodesis, subtalar arthrodesis, 1st MTP arthrodesis, Interphalangeal (IP) arthrodesis

Features / Unique Selling Points

Absorbable, complete absorption takes approximately two years.

Easy insertion also arthroscopically with reusable instrumentation.

Patented grooved design enhances the rotational stability.

Single sterile packed.

Trimmable in the desired length with a high temperature cautery or standard cutting tools.

Self-reinforced structure provides additional strength, stiffness and malleability.

Excellent strength retention over the bone healing period.

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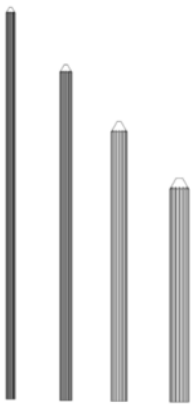
Product Codes

B-AP-1520 ActivaPin™ 1.5 x 20 mm
B-AP-1530 ActivaPin™ 1.5 x 30 mm
B-AP-1540 ActivaPin™ 1.5 x 40 mm
B-AP-1550 ActivaPin™ 1.5 x 50 mm
B-AP-1560 ActivaPin™ 1.5 x 60 mm
B-AP-1570 ActivaPin™ 1.5 x 70 mm

B-AP-2020 ActivaPin™ 2.0 x 20 mm
B-AP-2030 ActivaPin™ 2.0 x 30 mm
B-AP-2040 ActivaPin™ 2.0 x 40 mm
B-AP-2050 ActivaPin™ 2.0 x 50 mm
B-AP-2060 ActivaPin™ 2.0 x 60 mm
B-AP-2070 ActivaPin™ 2.0 x 70 mm

B-AP-2750 ActivaPin™ 2.7 x 50 mm
B-AP-2770 ActivaPin™ 2.7 x 70 mm

B-AP-3270 ActivaPin™ 3.2 x 70 mm





Instrumentation Options

Product Code	Description	
B-IPS-1000	**Instrument set, for ActivaPin™**	
set includes following reusable instruments, which are delivered unsterile:		
B-IP-1500	Applicator Ø1.5 mm, reusable, for 1.5 mm pins	1
B-IP-2000	Applicator Ø2.0 mm, reusable, for 2.0 mm pins	1
B-IP-2700	Applicator Ø2.7 mm, reusable, for 2.7 mm pins	1
B-IP-3200	Applicator Ø3.2 mm, reusable, for 3.2 mm pins and for 1.5/2.0/2.7/3.2 mm nails	1
B-IP-1502	K-Wire Ø1.5 mm, length 130 mm, for 1.5 mm pins/nails, 10 pcs.	2
B-IP-1501	K-Wire Ø1.6 mm, length 130 mm, for 1.5 mm pins/nails, 10 pcs	2
B-IP-2001	K-Wire Ø2.0 mm, length 130 mm, for 2.0 mm pins/nails, 10 pcs.	2
B-IP-1503	Drill bit Ø1.5 mm, for 1.5 mm pins/nails, quick coupling	1
B-IP-2003	Drill bit Ø2.0 mm, for 2.0 mm pins/nails, quick coupling	1
B-IP-2703	Drill bit Ø2.7 mm, for 2.7 mm pins/nails, quick coupling	1
B-IP-3203	"Drill bit Ø3.2 mm, for 3.2 mm pins/nails, quick coupling	1
B-IP-4000	Applicator handle, arthroscopic, for pins and nails	1
B-IP-1512	Applicator tip, arthroscopic, for 1.5 mm pins	1
B-IP-2012	Applicator tip, arthroscopic, for 2.0 mm pins	1
B-IP-3212	Applicator tip, arthroscopic, for 1.5/2.0 mm nails	1
B-IP-4001	Applicator drill guide, arthroscopic, for 1.5/2.0 mm nails	1
B-IP-4004	Applicator housing, arthroscopic, for pins and nails	1
B-IP-1506	K-Wire Ø1.5 mm, length 260 mm, for 1.5 mm pins/nails	2
B-IP-1504	K-Wire Ø1.6 mm, length 260 mm, arthroscopic, for 1.5 mm pins/nails	2
B-IP-2004	K-Wire Ø2.0 mm, length 260 mm, arthroscopic, for 2.0 mm pins/nails	2
B-IP-4003	Sterilisation tray, for ActivaPin™ instruments	1

Single-use Instrument Sets

Delivered sterile

Product Code	Description
B-DIP-1500	Applicator with K-wire Ø1.6 mm, disposable, for 1.5 mm pins
B-DIP-2000	Applicator with K-wire Ø2.0 mm, disposable, for 2.0 mm pins
B-DIP-2700	Applicator with K-wire Ø2.8 mm, disposable, for 2.7 mm pins

Product Properties

- Material: ActivaPin™ is made of PLGA 85/15, which safely absorbs in the body in approximately two years. The material has a long history in medical use and is proven to be safe in various scientific clinical studies and by real-world evidence.
- Certificates: ActivaPin™ is FDA cleared and CE approved.
- Product sizes: ActivaPin™ is available in diameters 1.5, 2.0, 2.7 and 3.2 mm and lengths 20 – 70 mm.

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Reusable Instrument set, for ActivaPin™ B-IPS-1000



Disposable - Single-use instrument sets



ActivaPin™ Applicator





Picking the ActivaPin™ with applicator piston



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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.

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