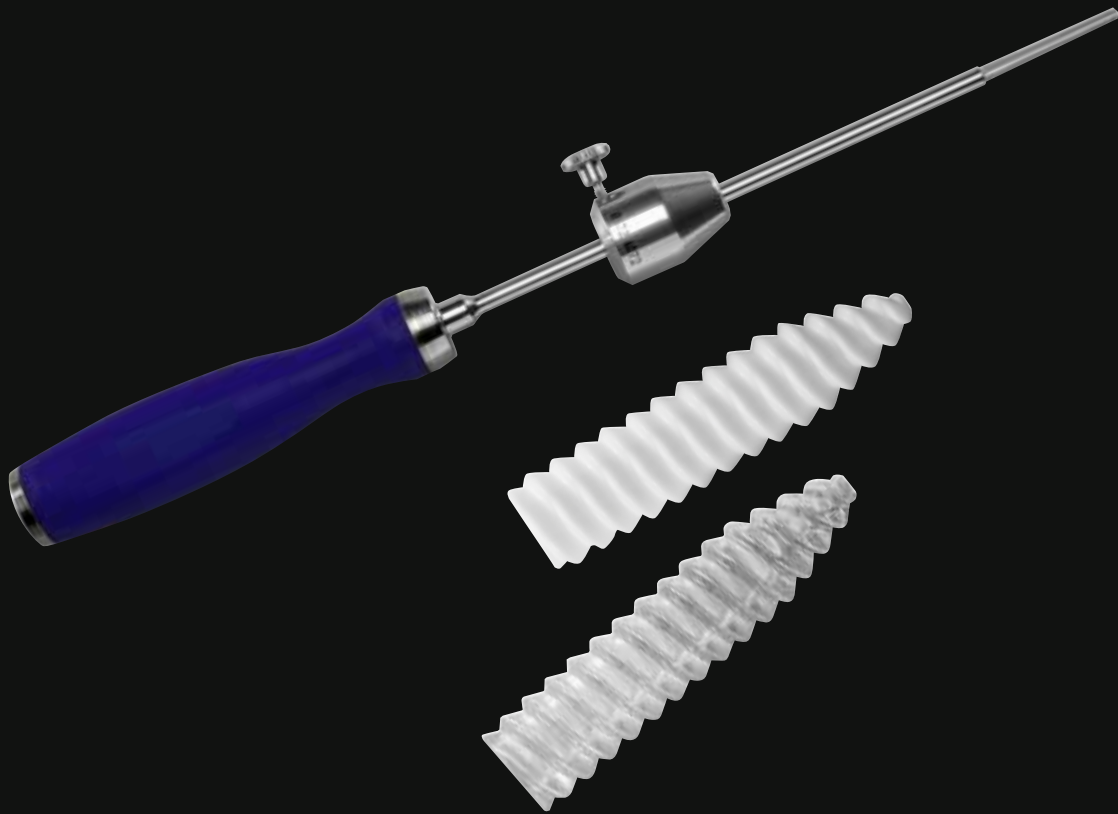




BIOABSORBABLE
INTERFERENCE SCREW

ARTHRO TWIST[®]



BIOABSORBABLE SCREW



 **SPORT
MEDICINE**
ADVANCED TECHNOLOGY

BIOABSORBABLE INTERFERENCE SCREW

Ligament surgery

ARTHROTWIST is a bioresorbable cannulated screw specially designed for ligamentoplasty surgical techniques like anterior/posterior cruciate ligament reconstructions, reinsertion of the long-head of the biceps tendon or ankle ligaments.

ARTHROTWIST offers a complete range of screws and tools that ensure a secure fixation of the transplants.

ARTHROTWIST is suitable for current ligamentoplasty techniques (bone-tendon-bone or soft tissues grafts in femoral or tibial tunnels).



KNEE



ANKLE



SHOULDER



ARTHROTWIST PLA

Screw 100% PLA poly(70/30 ; L/DL)Lactide

PLA is a well-known polymer, which breaks down through hydrolytic deterioration **ARTHROTWIST** PLA is radiotransparent.



ARTHROTWIST TCP

Screw 70%PLA / 30% β-TCP

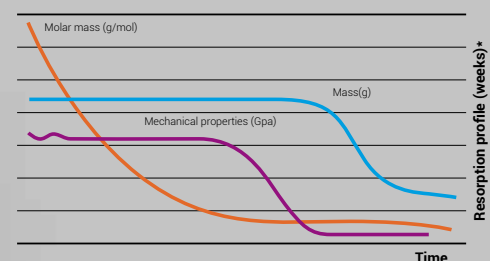
β-TCP particules are sub-micron sized. The mixing of these two materials is performed by a chemical reaction which results in a homogeneous combination. Distribution into the PLA matrix is homogeneous and free of agglomerates allowing a better bone integration. TCP into the PLA matrix keeps a neutral pH of the material by buffer effect during the degradation time and reduces risk of inflammation.



β-TCP is also an osteoconductive material which promotes bone ingrowth.

RESORPTION

ARTHROTWIST screws are stable 6 months post-operative, that ensures a proper healing. Then they are slowly hydrolyzed by water from surrounding tissues and fully replaced by neoformed bone after **24 months**.





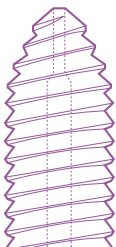
HIGH TORQUE RESISTANCE

ARTHROTWIST was designed to reduce the risk of breakage. The screws have a triangular inner cone with rounded angles. The transmission of the torque is performed by compression and not in shearing mode. This increases the torque failure resistance of **ARTHROTWIST** range in comparison with others absorbable screws.



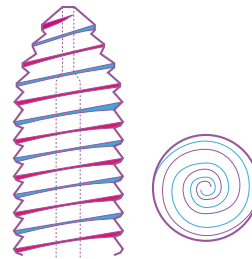
SELF-TAPPING

ARTHROTWIST has a sharp tip combined to a double thread for a faster and efficient insertion.



SPECIAL INTERNAL CONFIGURATION

Internal design of the tip avoids any contact between the screwdriver and soft tissues.



DOUBLE THREAD – FAST SCREWING

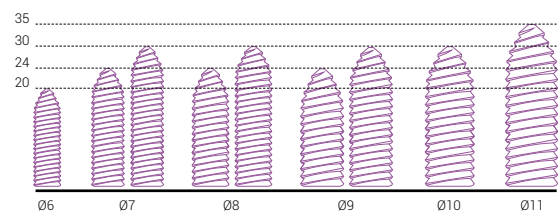
ARTHROTWIST has a double thread that reduces the number of turns to introduce the screw in comparison with single thread design.

FLAT HEAD

A flat head prevents tissue's friction at the bone surface after implantation. The screw can be inserted with accuracy ; this is particularly suitable for tibial tunnel.

FULL RANGE

The interference screws **ARTHROTWIST** are available in 9 references, including 6 diameters and 4 lengths suitable for current ligamentoplasty techniques.



ARTHROTWIST TCP IN VIVO IMPLANTATION*



4 month
Cohesion of new bone ingrowth all around the screw



8 month
Screw distortion during process of resorption



12 month
Interdigitation of new bone into screw's fragments

Implant Neoformed bone



STORAGE

ARTHROTWIST must be stored in its original unopened packaging in a clean and dry place at ambient temperature (maximum 37°C).

For any further information, please refer to the IFU.

PRODUCTS

ARTHROTWIST are delivered double packed in an aluminium pouch and sterilized by ethylene oxide. They are ready to use. **Single Use. Do not re-sterilize.**

Instrumentation set is available for ligamentoplasty procedure. Please contact us for more information.

ARTHROTWIST PLA	Reference	ARTHROTWIST TCP	Reference
Ø 6 mm – L 20 mm	10001399-PLA1	Ø 6 mm – L 20 mm	10001399-PLATCP1
Ø 7 mm – L 24 mm	10001399-PLA2	Ø 7 mm – L 24 mm	10001399-PLATCP2
Ø 7 mm – L 30 mm	10001399-PLA3	Ø 7 mm – L 30 mm	10001399-PLATCP3
Ø 8 mm – L 24 mm	10001399-PLA4	Ø 8 mm – L 24 mm	10001399-PLATCP4
Ø 8 mm – L 30 mm	10001399-PLA5	Ø 8 mm – L 30 mm	10001399-PLATCP5
Ø 9 mm – L 24 mm	10001399-PLA6	Ø 9 mm – L 24 mm	10001399-PLATCP6
Ø 9 mm – L 30 mm	10001399-PLA7	Ø 9 mm – L 30 mm	10001399-PLATCP7
Ø 10 mm – L 30 mm	10001399-PLA8	Ø 10 mm – L 30 mm	10001399-PLATCP8
Ø 11 mm – L 35 mm	10001399-PLA9	Ø 11 mm – L 35 mm	10001399-PLATCP9

INSTRUMENTATION

ARTHROTWIST® BIOABSORBABLE SCREW must be used with the specific screwdriver provided by VIMS.
Reference : T067231



*Data provided by the manufacturer

Document design date : December 2020 - Range : Absorbable interference screw
 Manufacturer : TEKNIMED - Brand Name : ARTHROTWIST - Medical Device Class : III
 CE Mark N° : 2797 BSI - User : Health professional - Indications : Ligamentoplasty procedures, biceps tenodesis - Recommendations for use: it is highly recommended to read the labels and the IFU.
 BR_ARTHROTWIST_EN_V01



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