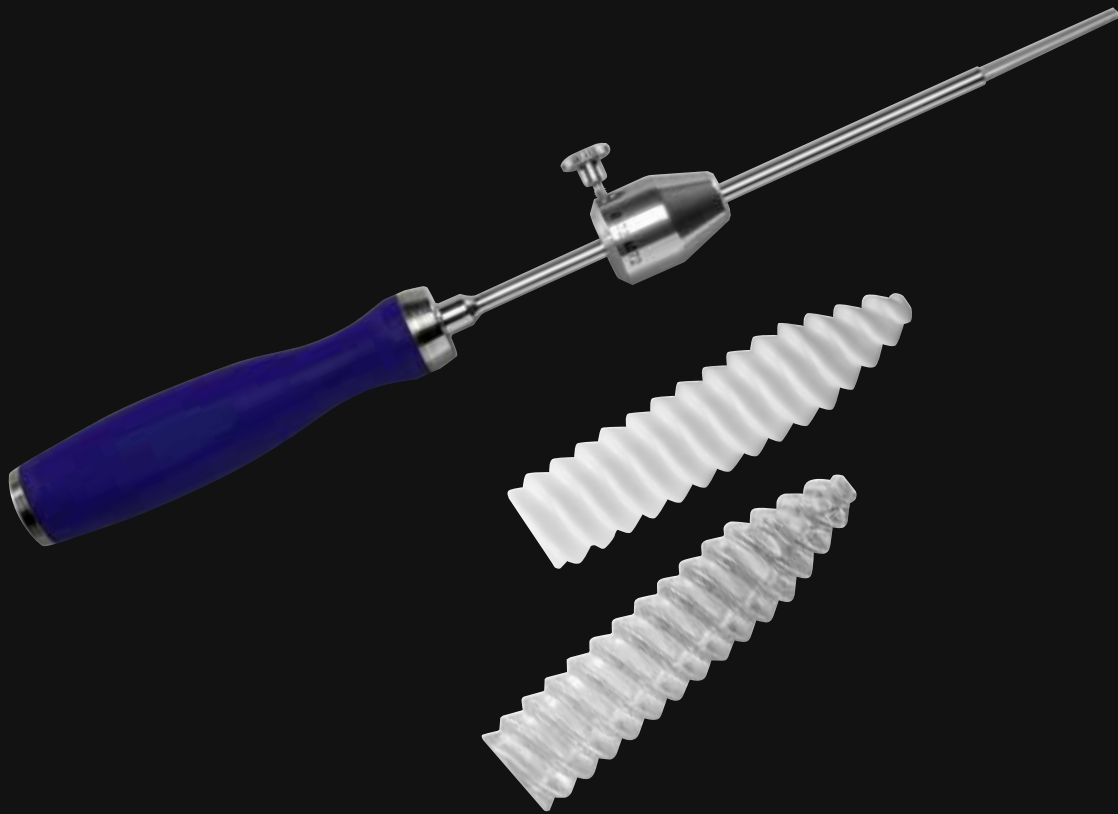




BIOABSORBABLE
INTERFERENCE SCREW

ARTHRO TWIST[®]



BIOABSORBABLE SCREW



BIOABSORBABLE INTERFERENCE SCREW

Ligament surgery

ARTHROTWIST is a bioresorbable cannulated screw specially designed for ligamentoplasty surgical techniques such as 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, the degradation of this material happens through hydrolysis. **ARTHROTWIST** PLA is radiotransparent.

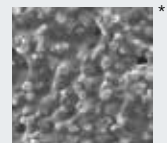


ARTHROTWIST TCP

Screw 70%PLA / 30% β-TCP

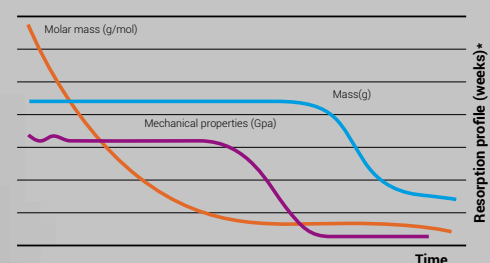
β-TCP particules are sub-micron sized. The mixing of these two materials is performed by a chemical reaction which results in a homogeneous combination. Distribution into the PLA matrix is homogeneous and free of agglomerates allowing a better bone integration. TCP into the PLA matrix keeps a neutral 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**.





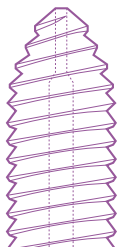
HIGH TORQUE RESISTANCE

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.



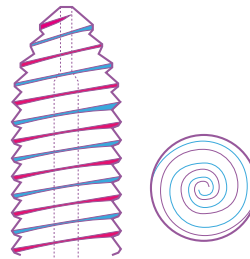
SELF-TAPPING

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

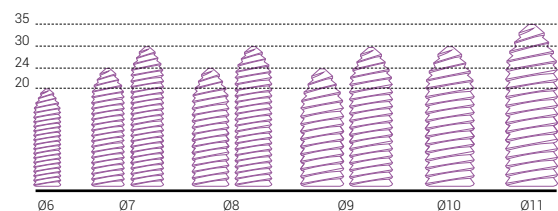
ARTHROTWIST has a double thread that reduces the number of turns to introduce the screw in comparison with single thread design.

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



*Data provided by the manufacturer

Document design date : February 2020 - Range : Absorbable interference screw -
 Manufac-turer : TEKNIMED - Brand Name : ARTHROTWIST - Medical Device Class : III - CE
 Mark N° : 0086 BSI - User : Health professional - Indications : Ligamentoplasty
 procedures, biceps tenodesis - Recommendations for use: it is highly recommended to
 read the labels and the IFU.



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