MENISCAL SUTURE SYSTEM

Meniscus Repair

MENIX®

- Resistance
- Tissue preservation
- Safety
- Optimized accessibility
- Economical & Ecological

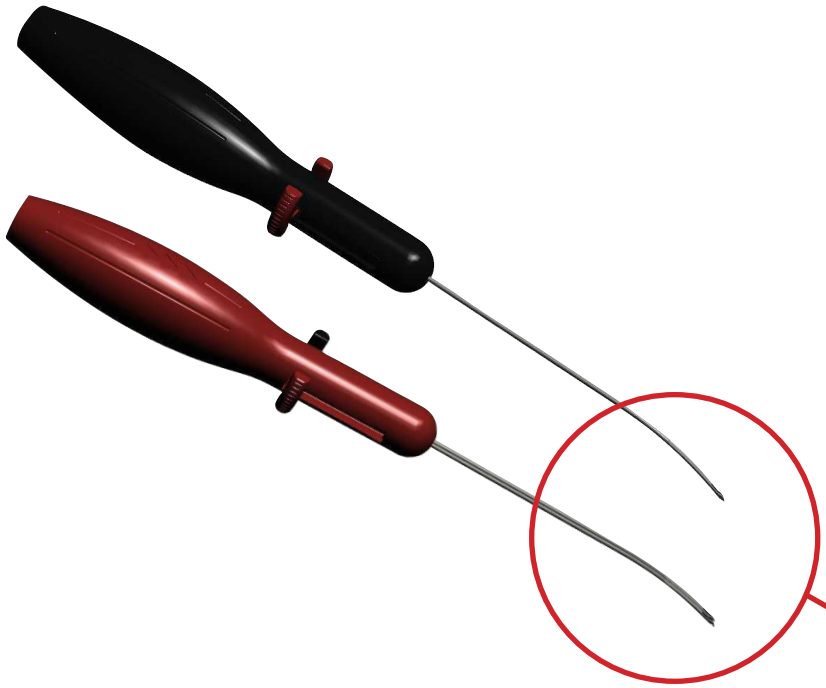
MENIX® DUO

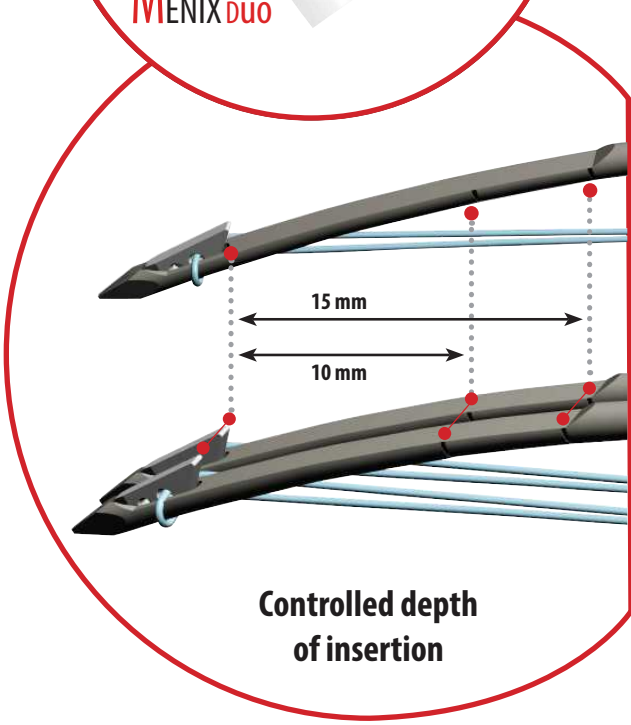
Knotless system

SBM

Science & Bio Materials

MENIX®
MENIX® DUO





Resistance
The pull-out strength is greater than 50 N1.

Tissue preservation
Reduced perforation due to the small size of the wires and anchors (anchor thickness of 0.6 mm).
Less shearing due to the use of flat braids.

Safety
The pins/spindles are protected in a cannula thus preserving the users from any risk of injury.
Control of the insertion depth thanks to the markings on the wire.
No MRI artifact.

Optimized accessibility
Possibility to bend the spindles to increase their range of action.

Economical & Ecological
A fully reusable, environmentally friendly instrumentation.

MENIX® DUO Knotless system
Less risk of damage to joint surfaces.

Product composition
Anchors: PEEK
Threads: UHMWPE (Ultra High Molecular Weight Polyethylene)
Pins: Stainless steel (AISI 316 L)

SURGICAL TECHNIQUE

1 PREREQUISITES

Assess the injury and prepare the meniscus

2 EVALUATE THE INSERTION DEPTH

Use the arthroscopy probe to determine the desired insertion depth.

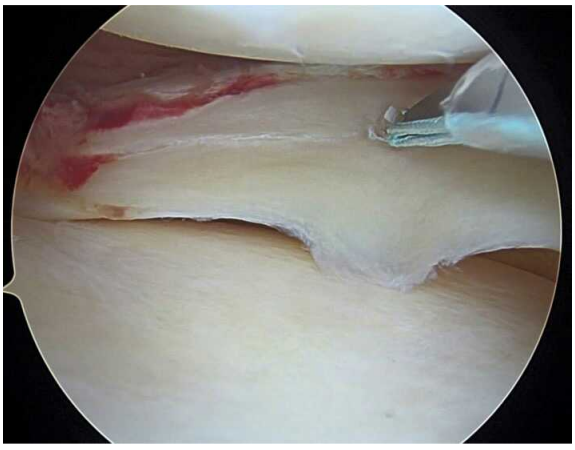
3 INSERT THE MENIX® PORTAL SKID

Insert the MENIX® portal skid through the portal and place it under the condyle of the compartment with the meniscus tear that needs to be repaired.

4 INSERT THE MENIX® DUO SYSTEM

Insert the MENIX® Duo meniscal suture system into the joint by sliding it over the MENIX® portal skid.
Remove MENIX® portal skid.

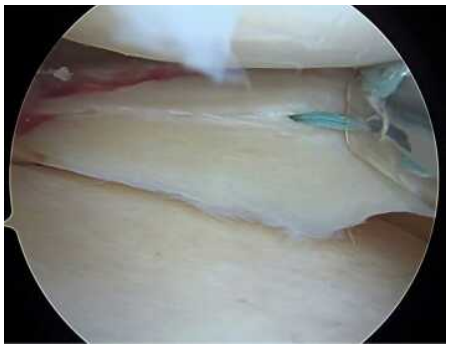
5 DEPLOY THE FIRST PIN



Push one of the two buttons to release the pin loaded with the anchor into the joint.

6 FIRST ANCHOR

Insert the pin inside the meniscus up to the desired depth (the first and second marks correspond respectively to a depth of 10 mm and 15 mm) while maintaining pressure on the button of the associated pin being inserted.
Release the button by pressing the cannula against the meniscus.
Push the second button to release the second pin loaded with the anchor into the joint.

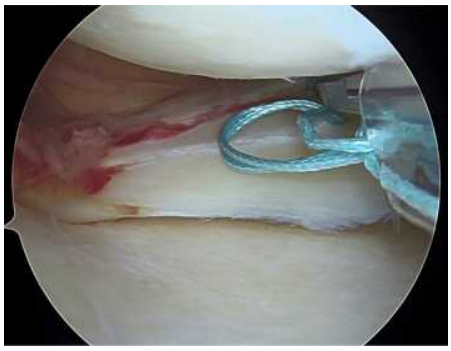
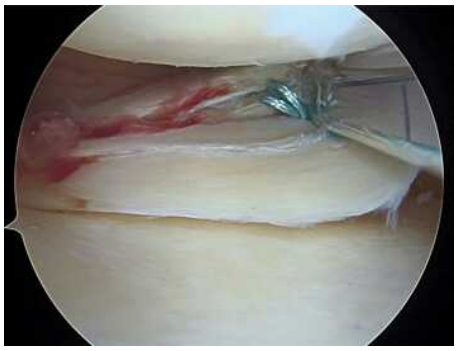



7 SECOND ANCHOR

Leave the instrument inside the joint and push the second button to release the pin loaded with the anchor from its sheath.

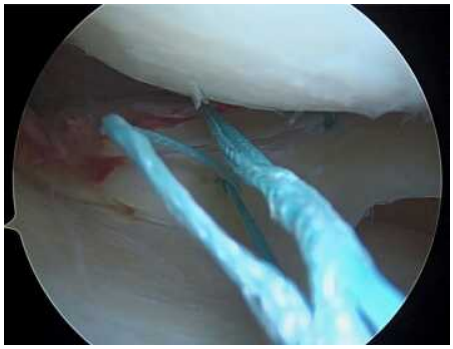
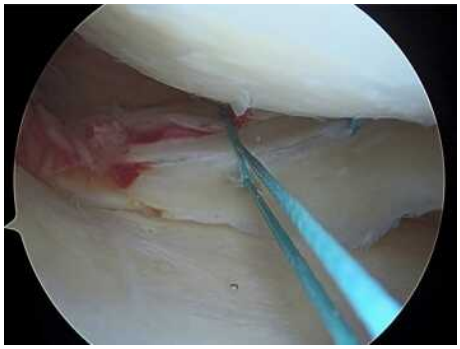
Repeat step 6.

Remove the system from the joint.

8 TENSION THE SYSTEM

Alternately tighten the two sutures to reduce the distance between the two anchors and bring the edges of the tear closer together.

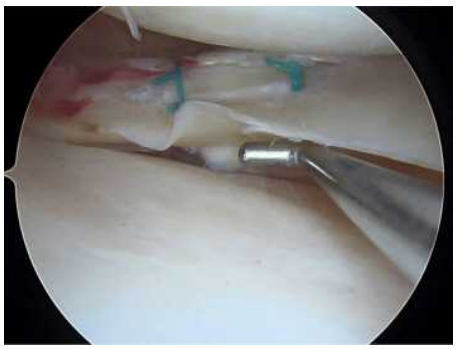
9 CHECK FOR PROPER TENSIONING

The probe can be used to exert counterpressure, to ensure proper tensioning of the system.

10 COMPLEMENTARY ANCHORS

Other MENIX® DUO or MENIX® anchors can be placed in the same way. Connections can then be made between the anchor points by making surgical knots with the braids associated with each anchor and tightening them with the knot pusher.

Warning: the MENIX® system must be connected to another MENIX® or MENIX® DUO



11 CUT THE SUTURES

Insert the thread to be cut into the suture cutter outside the joint. Insert the suture cutter into the joint using the MENIX® portal skid and cut the suture with the end of the suture cutter resting on the meniscus by first disengaging the safety mechanism before squeezing the handles together

Note: Avoid cutting several threads at the same time to avoid having too much excess suture in the joint.

12 EVALUATE THE MENISCUS REPAIR

Make sure the fixation is adequate ; if necessary complete the repair with another device.

MENIX® Twister
MEN9000402

MENIX® Portal Skid
MEN9000397

MENIX® Suture Cutter
MEN9000398

MENIX® 90 degree Probe
MEN9000408

MENIX® Knot Pusher
MEN9000400

IMPLANTS

Codes	Designation	Packaging
MEN0201901	MENIX® DUO Meniscal suture system, 2 anchors	1
MEN0201902	MENIX® Meniscal suture system, 1 anchor	1

INSTRUMENTATION REFERENCES

Codes	Designation	In the basket
MEN9000397	MENIX® Portal skid	1
MEN9000398	MENIX® Suture Cutter	1
MEN9000408	MENIX® 90 degree Probe	1
MEN9000400	MENIX® Knot Pusher	1
MEN9000402	MENIX® Twister	1
MEN9000001	MENIX® Sterilization basket including lid and silicone holders	1
MEN9000000	MENIX® Complete instrumentation set	

OPTIONAL INSTRUMENTATION

Codes	Designation	In the basket
MEN9000406	MENIX® Arthroscopic Scissors	1
MEN9000412	MENIX® Rasp	1

Bibliography

Etudes fondamentales

[1] RD1424 pour les essais mécaniques

[2] COMMISSION NATIONALE D'EVALUATION DES DISPOSITIFS MEDICAUX ET DES TECHNOLOGIES DE SANTE
AVIS DE LA CNEDiMTS, du 24/10/2017

[3] COMMISSION NATIONALE D'EVALUATION DES DISPOSITIFS MEDICAUX ET DES TECHNOLOGIES DE SANTE
AVIS DE LA CNEDiMTS, du 24/03/2020

About S.B.M.

S.B.M. (Science & Bio Materials) has been specialized in the design, manufacture and distribution of biomaterials for bone re-construction since 1991. Our priority is the development and optimization of medical devices that promote both bone healing and human tissue replacement. Thanks to a total mastery of its manufacturing techniques, the company develops complete systems based on 100% synthetic and absorbable materials, combined with adapted instrumentation.

S.B.M.'s environmental commitment

Driven by a deep desire to preserve the planet, S.B.M. has placed the development of an economy respectful of the environment at the heart of his concerns.The three pillars of its approach are:

- An ISO 14001: 2015 certified environmental management system deployed throughout the company and its partners
- Reducing the environmental impact of its activities:
  - by reducing by 30% its CO2 emissions by 2030 (COP 21 Paris Agreement)
  - by controlling its energy consumption (15% of its elec¬tricity from solar power)
  - by controlling both its solid and liquid waste
- Economic activities in accordance with the principles of sustainable development

SBM
Science & Bio Materials

S.B.M. SAS

ZI du Monge
65100 LOURDES
FRANCE
Phone: (+33) 5 62 42 32 12
Fax: (+33) 5 62 42 32 52
www.sbm-france.com

CE 0459

ISO 13485