

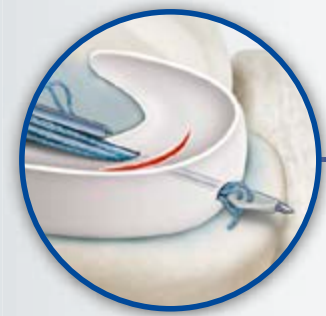
STORZ
KARL STORZ—ENDOSKOPE

ENDOWORLD®

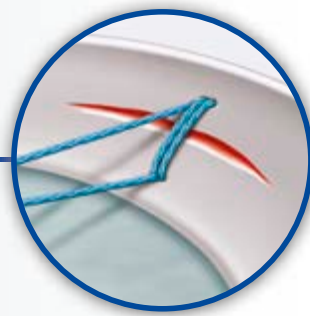


SmartMex®

Known Lesion - New Approach



Less traumatic
meniscus penetration



Non-cutting system



Knotless and self-
blocking system



Calibrated handle
and stiff shaft

SmartMex®

All-Inside Meniscus Refixation System

Many clinical studies have demonstrated the importance of meniscal preservation. Maintaining as much functional meniscal tissue as possible minimizes the risk of degenerative joint disorders, such as osteoarthritis and chondrosis.

The new SmartMex® all-inside meniscus refixation system from KARL STORZ allows easy access to the joint to repair tears in the peripheral region and red-white zone.

SmartMex® is a sterile-packed system for single use in all-inside meniscus refixation. The system features a dual-needle design and contains two implants for repairing meniscal tears in the posterior horn and pars intermedia as well as the medial and lateral meniscus. The implants can be activated separately by two triggers at the handle. Each packaging unit includes a blister pack with

a sterile SmartMex® single-use system, including:

- **Two cannulated VESTAKEEP® PEEK¹ implants**
- **Dyneema Purity® multifilament suture material**
- **Inserter with ergonomic handle and removable sleeve**

The SmartMex® is preloaded with two cannulated VESTAKEEP® PEEK¹ implants. The implants are connected by multifilament suture material made of Dyneema Purity®, an ultra-high-molecular-weight polyethylene fiber, and fixed in place via a self-blocking, sliding knot. Each implant is loaded on a preshaped needle that prevents it from rotating. The two independent needles are advanced by two triggers on the handle, which deliver each implant separately.



¹ Cannulated VESTAKEEP® PEEK implants are made of Polyether ether ketone (PEEK), a non-absorbable material. (<https://industrial.vestakeep.com/product/peek-industrial/en/products/>)

Features:

- Less traumatic
- Safe and easy to use
- Constant pressure distribution
- No cutting system
- Flexibility during implant delivery
- Calibrated system
- Small implant insertion points
- No knots to be placed intraoperatively
- Self-blocking system



The customary all-inside technique works on the principle of cutting through the meniscus in order to place the implant. With the **SmartMex® System**, the procedure is less traumatic as the meniscus is dilated with the implant diameter.

Benefits

- **Less traumatic meniscal penetration:** The needles with optimal pyramidal tips are loaded with two VESTAKEEP® PEEK implants. Due to this design, the implants work in a similar way to dilators and allow a reliable and less traumatic insertion into the meniscal tissue. Small implant insertion points and a special, atraumatic filament structure ensure the preservation of the meniscus structure and minimize damage to the meniscus. Don't cut, just dilate.

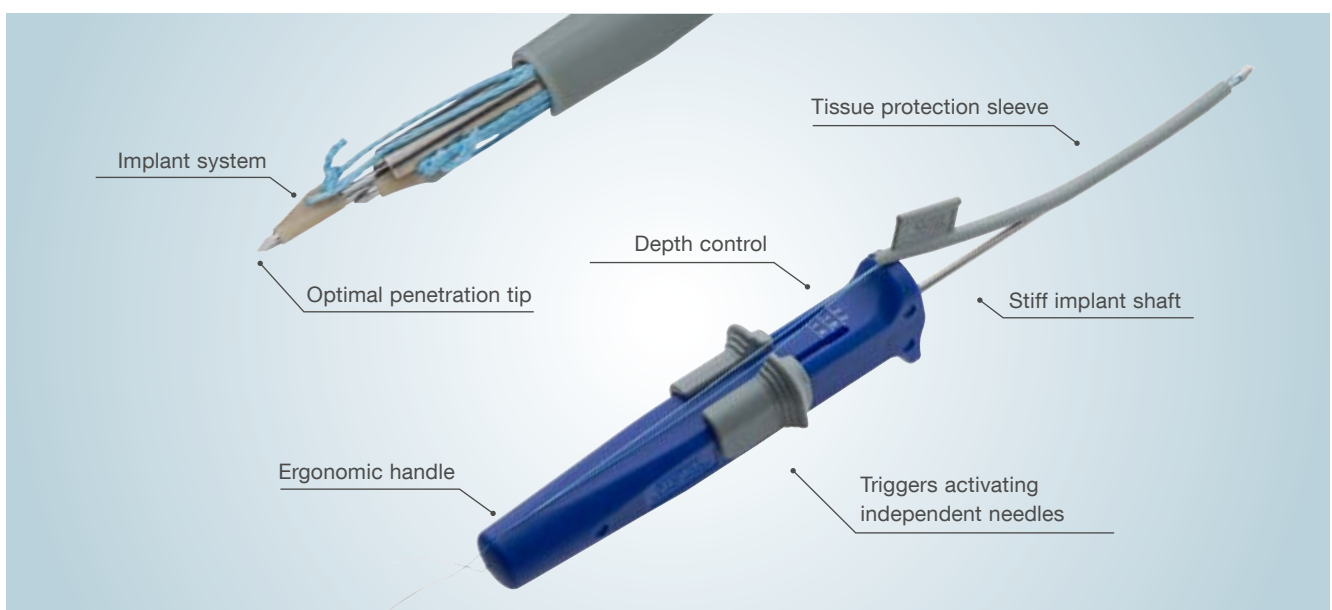
- **Constant pressure distribution:** The SmartMex® system distributes pressure evenly across the entire meniscal lesion to ensure better healing. The uniformly distributed axial force over the two tension centers - i.e., the implants - prevents strangulation of the meniscus. When tightened, the sutures glide on the meniscus, which reduces the risk of them cutting into the meniscal tissue. The system can be re-tensioned by pulling on one or both thread ends.

- **Non-cutting system:** The non-coated sutures prevent cuts and damage to soft tissue. The special core and surface of the Dyneema Purity® suture increase the fiber's contact surface under tension. This results in a flattening effect, with the fiber becoming oval shaped under tension, giving it a larger contact surface. The sutures are tensioned from both sides. This results in better pressure distribution and thus reduces the risk of meniscus damage.

- **Knotless system:** No additional knots are required intraoperatively. This prevents friction, irritation as well as tissue trauma and protects the cartilage.

- **Self-blocking system:** The SmartMex® is an atraumatic and easy-to-use meniscus refixation system that allows the refixation of meniscal tears without additional knots.

- **Calibrated handle and stiff shaft:** A scale with 4 mm steps shows how deep the needle enters the meniscus. The stiff shaft allows controlled delivery and manipulation of the meniscus.



SmartMex®

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28729M

SmartMex®, All-Inside Meniscal Repair System, curved, sterile, for single use

STERILE 

Other products recommended for use:

28728MH

Half Pipe®, without handle, small, working length 95 mm

2870356KP

Knot Pusher and Suture Cutter, for cutting sutures up to size USP 2, working length 15 cm including:
Insert and Blade
Handle

Notes

It is recommended to check the suitability of the product for the intended procedure prior to use.
Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.

ENDOWORLD®



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