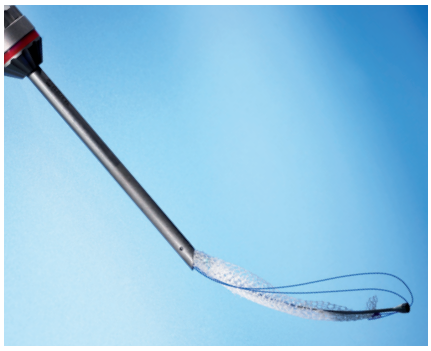
EndoSAIL

For relaxed retraction



> A hammock made especially for surgeons

The safe, atraumatic way to hold organs away from the surgical site during laparoscopic or single-port surgery.

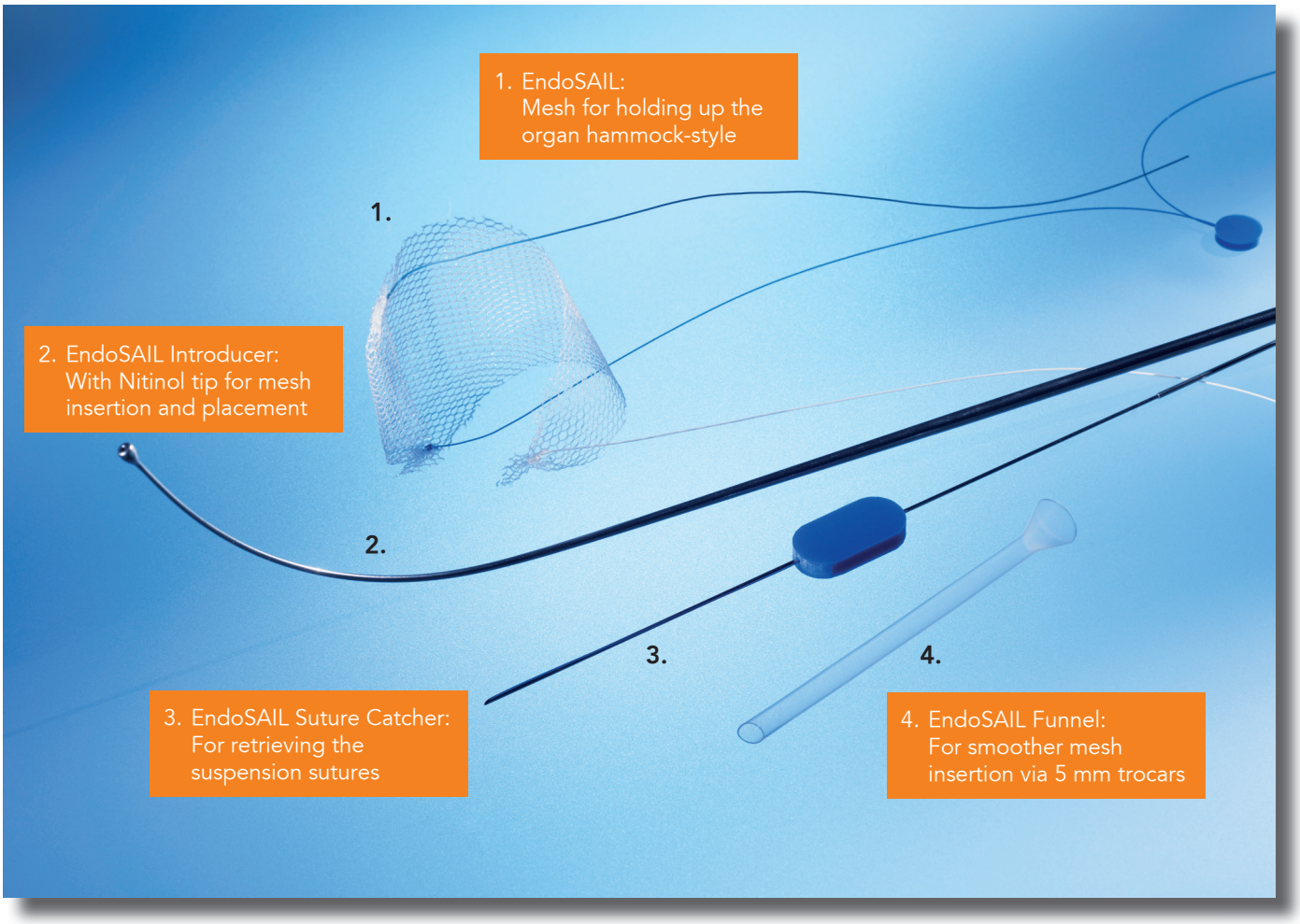
- Eliminates the need for an additional trocar, thereby reducing costs and patient trauma
- Combines disposable components with a high-grade, multi-use introducer
- Gives the assisting surgeon a spare hand to help with other tasks

A.M.I.®
Agency for Medical Innovations

EndoSAIL

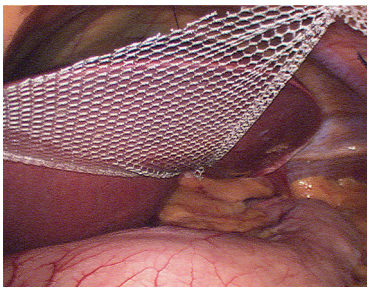
Throughout the gradual development of minimally-invasive surgery, one main aim has remained firmly at the forefront: namely the lessening of trauma to patients. Over the last few years, further advancements have seen the progressive miniaturisation of instruments and technology, and a definite trend towards reducing the number of trocars as far as possible. The EndoSAIL, an innovative system for organ retraction that requires no additional trocar access, represents an important step in this direction by gently holding the organ limiting access and visibility away from the surgical site. Not only is the system quick and easy to use, it also leaves the assisting surgeon with a spare hand to help with other tasks. Furthermore, the absence of a rigid retractor means the surgeon is free to operate in comfort, with minimal interference from surrounding instruments.

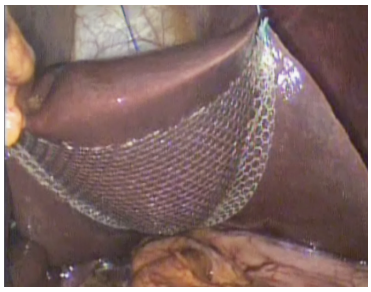
The System



The Applications

The EndoSAIL is suitable for retracting a wide range of organs, such as the liver, stomach, large intestine or mesenterium. Without doubt the most common indication is retraction of the liver during gastric surgery - even a floppy, fragile or fatty liver can be held to the side by these effective, but atraumatic means. This allows the surgeon to operate unhindered in the upper abdomen during any kind of bariatric surgery or other procedures such as fundoplication.





Effective, atraumatic retraction, regardless of liver type

EndoSAIL

How does the EndoSAIL work?

The EndoSAIL Introducer with a curved tip of extra-elastic Nitinol straightens to enable insertion of the mesh through trocars 5 mm or larger, but assumes its curved shape again once in the abdominal cavity to allow optimal positioning of the EndoSAIL under the respective organ.

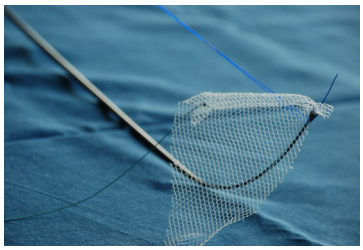
In preparation for insertion, the mesh's blue suspension suture is pulled through the tip of the EndoSAIL Introducer. If using a 5 mm trocar, the EndoSAIL Funnel is first placed on the trocar to allow a smoother passage of instrument and mesh.

As soon as the mesh and suspension sutures have been positioned correctly with the EndoSAIL Introducer, the EndoSAIL Suture Catcher is simply pushed through the abdominal wall to capture the intraperitoneal suspension sutures and draw them back out one by one. The advantage for the patient is the minimum of trauma caused by the tiny 1 mm needle.

The EndoSAIL Suture Catcher consists of a hollow needle containing a suture. Once the needle has penetrated the abdominal wall, the suture is pushed out within the abdominal cavity until a loop forms.

The triangular EndoSAIL mesh has three different-coloured suspension sutures attached, one at each corner. Using the EndoSAIL Suture Catcher, these suspension sutures are drawn back up through the abdominal wall, thereby raising the mesh and lifting the organ. Once pulled through, the sutures are secured with clamps to keep the EndoSAIL firmly suspended, transforming a simple mesh into a hammock for comfortable organ retraction.

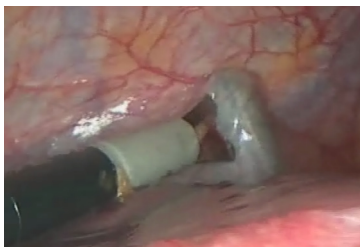
Liver retraction



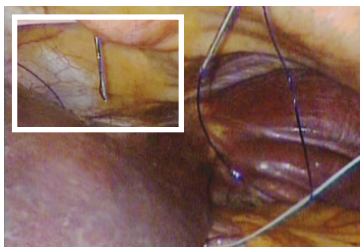
1. Pull the blue suspension suture through the instrument's tip

2. Insert the introducer with mesh through the 5 mm trocar

3. Position the mesh under the liver



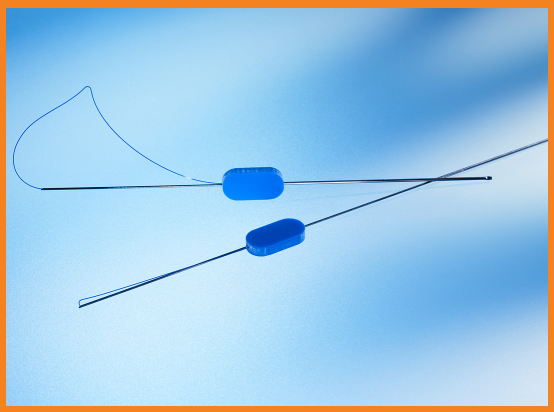
4. Make a safe opening in the ligamentum triangulare sinistrum



5. Penetrate the abdominal wall with the suture catcher and open the suture loop to maximum size

6. Pull the suture catcher together with suspension suture out of the abdominal cavity

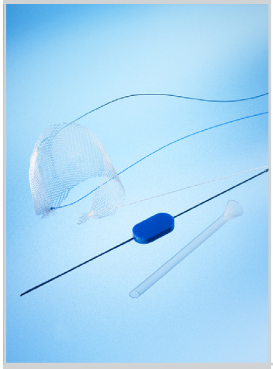
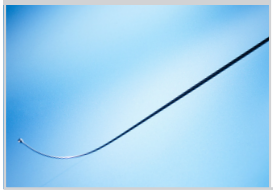
EndoSAIL Suture Catcher - close and catch in one

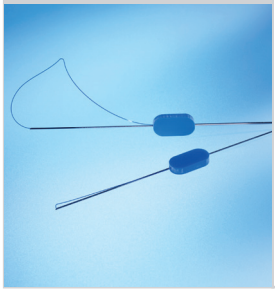


Even without the EndoSAIL, the Suture Catcher is an extremely handy instrument. Not only can it be used to retrieve sutures from the abdominal cavity during other procedures, such as the laparoscopic IPOM, the Suture Catcher is also ideally suited for placing fascial sutures to close larger port-site incisions after any form of laparoscopic surgery.

With a diameter of just 1 mm, the EndoSAIL Suture Catcher is far less traumatic than other similar products. While the patient benefits from the extremely small size, the surgeon will appreciate the suture loop's large opening and the ability to rotate the loop a full 360° from the outside. Both these features make catching suture material within the abdominal cavity a much easier task than ever before.

EndoSAIL

Order Code	A.M.I. EndoSAIL System	Technical Details
EDS1111 	**EndoSAIL 3/5** Set consists of three disposable components: - EndoSAIL 3: Mesh with three colour-coded suspension sutures - EndoSAIL Funnel 5 mm - EndoSAIL Suture Catcher: Hollow needle with integrated suture loop 5 sets / box, delivered sterile	Mesh: Monofilament polypropylene Triangular 150 x 135 x 85 mm Suspension sutures: Blue: Monofilament polypropylene USP 0 Green / white: Multifilament polyester USP 1 Funnel: Polytetrafluoroethylene Suture catcher: See below EDS1011
EDS1010 	**EndoSAIL Introducer** Multi-use instrument with a curved tip of very elastic material for use with the EndoSAIL 1 instrument, delivered non-sterile	Material: Nitinol Length: 520 mm

Order Code	A.M.I. EndoSAIL System	Technical Details
EDS1011 	**EndoSAIL Suture Catcher** Single-use instrument with rotatable suture loop for retrieval of intraperitoneal sutures 10 instruments / box, delivered sterile	**Needle** Material: Stainless steel Length: max. 295 mm Outer diameter: 1 mm **Loop** Material: Monofilament polypropylene Size: USP 0 Opening: approx. 25 - 50 mm

A.M.I. Headquarters:
A.M.I. GmbH
Im Letten 1
6800 Feldkirch . Austria
t +43 5522 90505-0
f +43 5522 90505-4006
e info@ami.at
www.ami.at

A.M.I.®
Agency for Medical Innovations