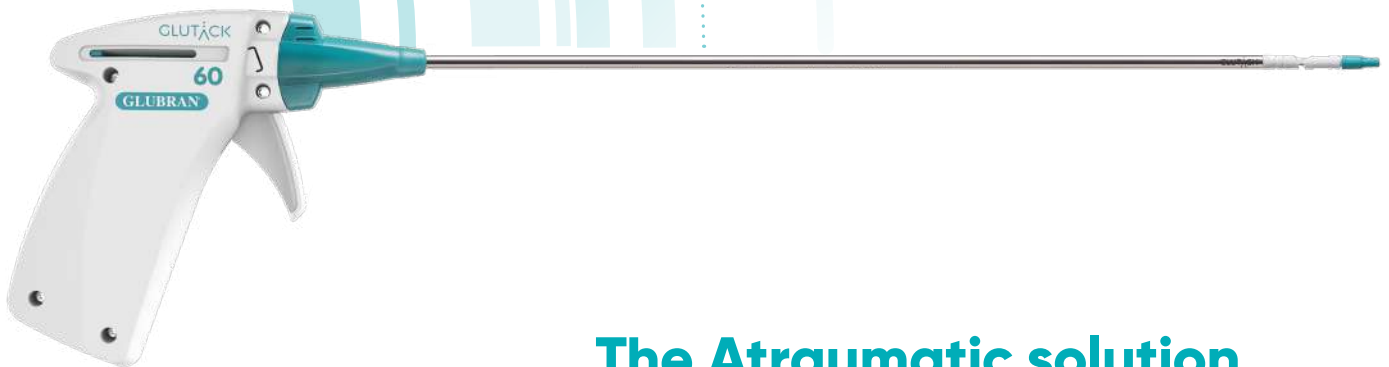
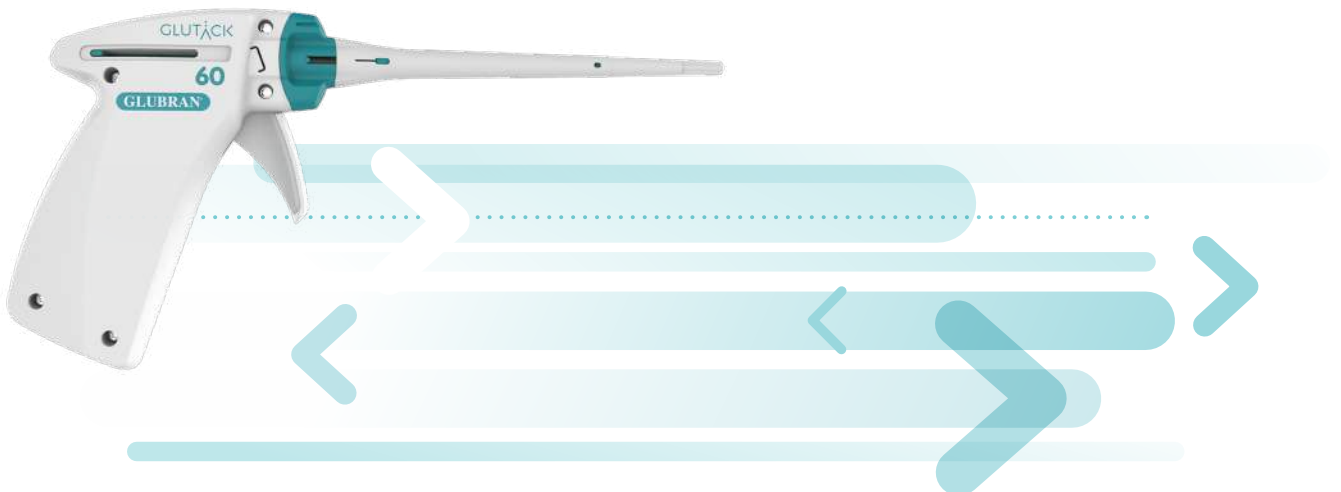


GLUTÄCK®



**The Atraumatic solution
for abdominal wall surgery**



for **GLUBRAN²**



GEM SOLUTION
COMES FROM
EVOLUTION.



**Glutack®
your mesh
gently.**

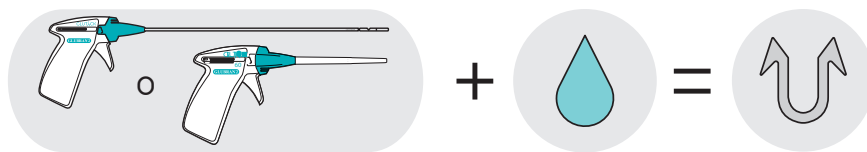
GLUTACK®

A total evolution.

Designed with years of inherited experience of **Glubran®2** in atraumatic mesh fixation¹⁻²⁹.

Glutack® and Glutack® Short are user-friendly devices for the atraumatic fastening of hernia mesh. Providing precise and consistent delivery of Glubran®2 (NBCA+MS) with every pull of the trigger²⁴, to minimize surgical complications and the potential pain associated with the use of tacks and staples. Improving surgical outcomes and reducing healthcare costs¹⁻³³.

➤ **One Glutack® is dispensed with every pull of the trigger**



Glutack® + Glubran®2 = 1 high performance adhesive tack

➤ **No change in clinical practice: delivery method is similar to traditional mesh fixation devices**

➤ **Glubran®2 is effective in repairing hernias with less post-op pain, less complications, less recurrences and cost-effective is largely documented¹⁻³³**

➤ **Improves patient safety^{1,2,6,8} and surgeon confidence¹**

➤ **Keeps the mesh in place respecting the natural tissue ingrowth^{9,10}**

GLUTÄCK®

BUILDING THE



Atraumatic.

Versatile.

Multipurpose.

Glutack® + Glubran® 2 = 1 highly adhesive atraumatic fixation



GLUBRAN 2

Synthetic biodegradable¹¹ cyanoacrylate adhesive modified by the addition of a monomer synthesized by the manufacturer GEM.

Polymerizes quickly in contact with live tissue and a wet environment⁸ creating a thin and elastic film¹² having high tensile strength which guarantees strong adhesion to the tissues^{10,13}.

Ready for use¹⁴⁻¹⁶ a high adhesive, sealant with haemostatic¹⁷ and bacteriostatic properties. Effective antiseptic barrier against the most diffused infective and pathogenic agents during the surgical intervention^{11,18,19}.

Class III medical device authorized since 1998 in open, laparoscopic surgery and endovascular uses²⁰.



> G-NB2-50



> G-NB2

GLUTÄCK®



**The gentle
power of
the drop.**



SAFE

- No clips or tacks: no tissue penetration, no nerve entrapment, no vessel damage^{6,21} (Fig.1)
- Less post-op pain^{6,33} (Fig.2)
- Reduces post-op complications^{1,2,6,23}
- Adhesive delivery controlled at all times – no drips²⁴
- Tip designed to avoid clogging and sticking²⁴
- Fixation even in high risk anatomical locations: around the Triangle of Doom, Triangle of Pain and close to the Diaphragm



STRONG

- High shear strength equivalent to the current fixing methods: more than 9 N/cm² Glutack[®]¹³ (Fig.3/5a)
- High peel force to remove the fixed mesh: 6N/cm² Glutack[®]²² (Fig.5b)
- No significant difference in the strength of parietal ingrowth between sutures²⁵, absorbable/permanent tacks and Glubran[®]2¹⁰ (Fig.4)



FAST²⁴

- Very quick device preparation < 1 min
- Rapid, controlled Glutack[®] delivery
- Each precision Glutack[®] adheres the mesh to the tissue immediately



PRECISE²⁴

- Accurately controlled, repeatable Glutack[®] volume (0.0125 ml/drop)
- No product wastage



VERSATILE²⁴

- 2 different sizes: containing 30 or 60 Glutacks depending on mesh size / procedure requirement
- Articulating tip system to reach difficult areas (only for the laparoscopic model)



INTUITIVE²⁴

- Simple “point and shoot” design
- Handle geometry provides user comfort and multiple grip options
- Only a light input load on the trigger is required to drop the glue
- Audible and visual indicators confirm Glutack[®] delivery and number of Glutacks left
- The articulating tip of the laparoscopic model allows to deploy Glutacks perpendicular to the mesh and abdominal wall



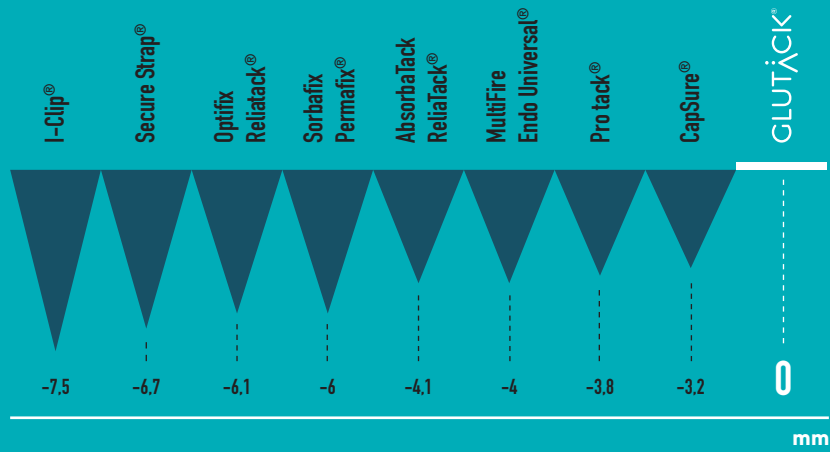
FLEXIBLE²⁴

In laparoscopic procedures allows:

- Multiple angles of approach facilitated by articulating tip system (0° to 90°)
- Fasteners from any angle
- Elimination of contralateral ports



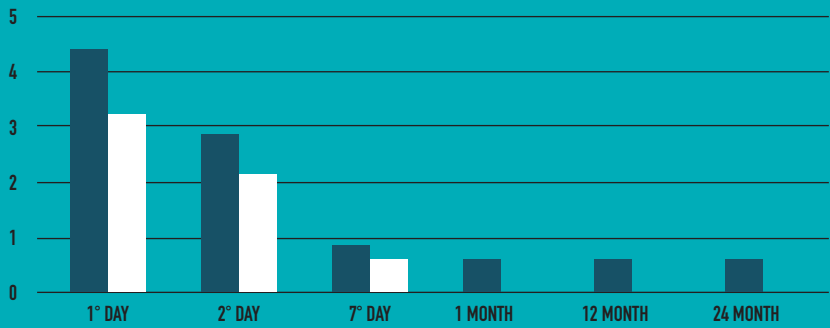
REALLY ATRAUMATIC



(Fig.1)

TISSUE PENETRATION (mm)^{21,30}

LESS PAIN

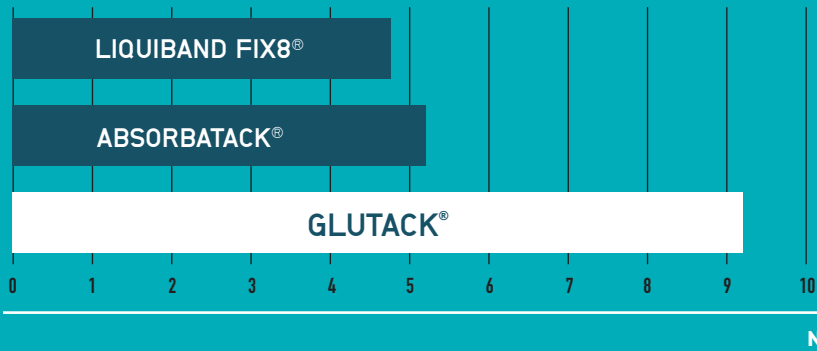


(Fig.2)

CLIPS
 GLUBRAN®

EVALUATION OF POSTOPERATIVE PAIN INTENSITY BY VAS SCALE⁶
 (modified by Burza A. et al. 2014).

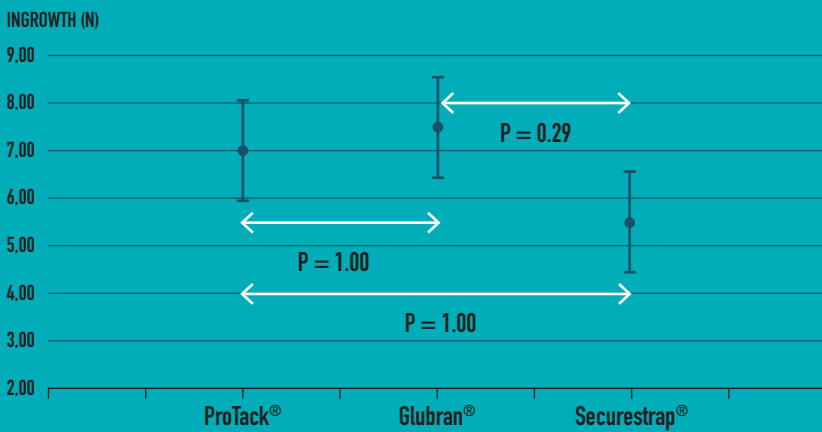
ONE GLUTACK COMPARED TO COMPETITOR DEVICE



(Fig.3)

PRE-CLINICAL SHEAR STRENGTH EVALUATION IN AN IN VITRO MODEL FOR PP-DYNAMESH FIXATION¹³.

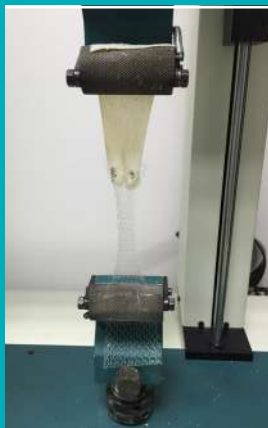
STRENGTH OF PARIETAL INGROWTH - 12 MONTHS



(Fig.4)

modified by Harsløf S. et al. 2017¹⁰.

GLUTACK® STRENGTH TEST^{13,22}



SHEAR 9N/CM²
(a)



PEELING 6N/CM²
(b)

(Fig.5a/5b)

GLUTACK®

Proven Efficacy.

Glutack® in action.

Laparoscopic



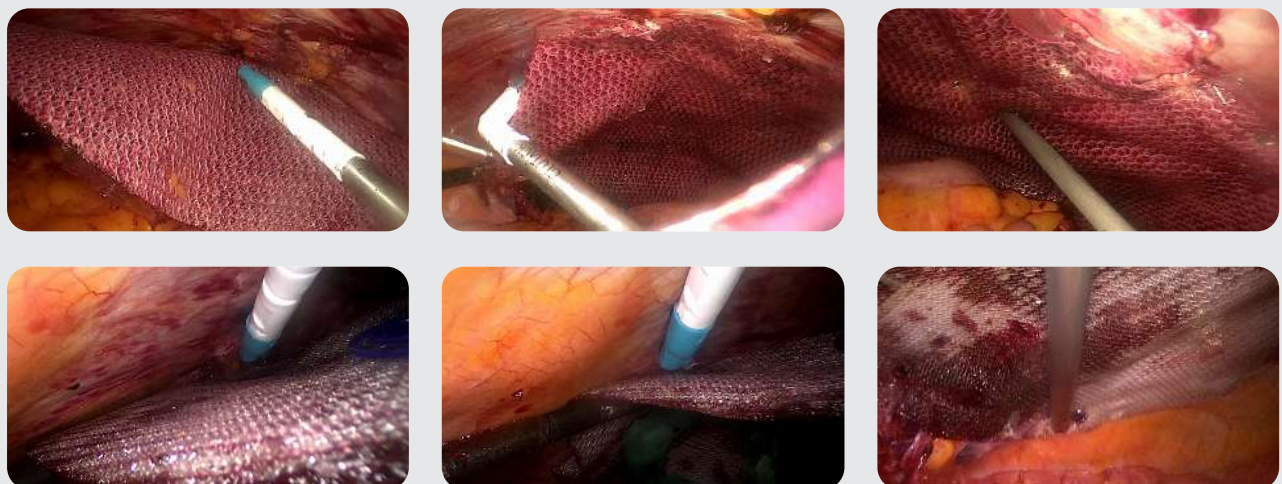
Repair inguinal hernia

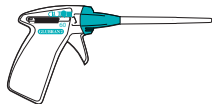


Laparoceles



Reduce trauma by a combined mesh fixation technique

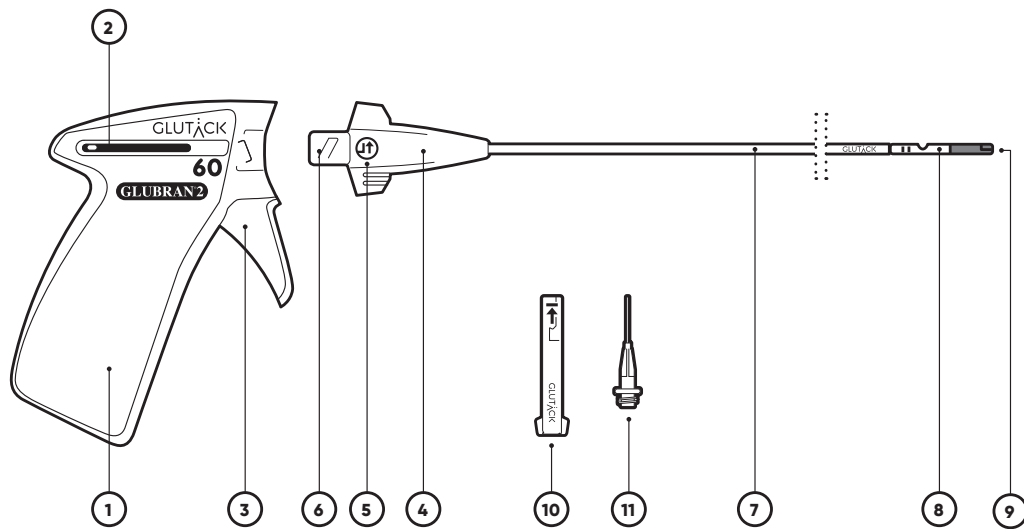




Laparotomy

Ventral hernia





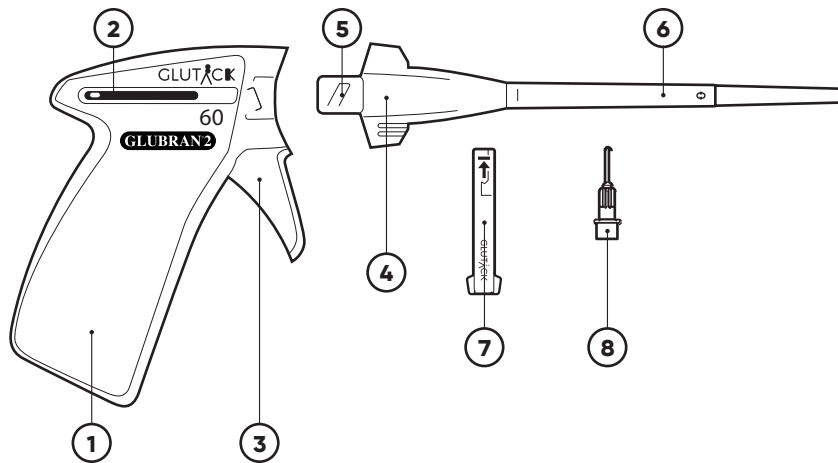
The sterile, latex free and single-use device consists of the following components:

- Handpiece (1) with label indicating the quantity of drops that can be dispensed; equipped with slider (2), which reveals the quantity of Glubran®2 dispensed during the procedure, and the trigger (3) connected to the gear that comprises the precise delivery system of the drops.
- Rigid catheter (external diameter of 5 mm) composed of:
 - connection base (4) with the symbol showing the mounting direction (5) and loading chamber for the loading cartridge (6);

- steel rod (7) ;
- articulated and adjustable end, 0 ° to 90° (8), equipped with a tip, designed to be anti-adhesive and clog resistant (9).
- Loading cartridge for the Glubran®2 (10).
- Transfer tip to be used to fill the cartridge with Glubran®2 (11).

Read always carefully the instructions for use (IFU) in the package leaflet.





The sterile, latex-free, single-use device consists of the following components:

- Handpiece (1) with label stating the number of drops that can be dispensed; equipped with slider (2), which displays the amount of Glubran®2 dispensed during the procedure, and trigger (3) connected to the gear that forms the calibrated drop delivery system.
- Catheter consisting of:
 - coupling base (4) and chamber for housing the loading cartridge (5);
 - polyethylene shaft (6);
- Cartridge for Glubran®2 made of transparent plastic (7), pre-printed with symbols showing the

direction of insertion into the housing chamber and the loading level (8).

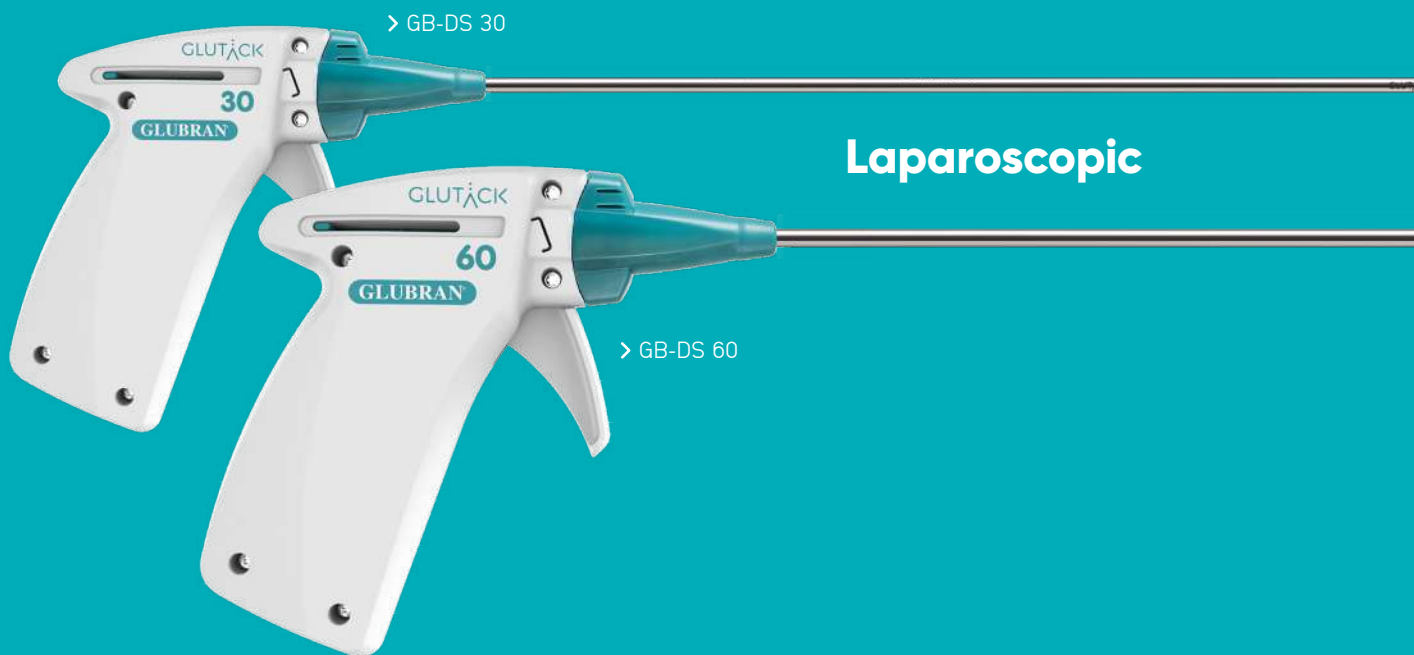
- Transfer tip to be used for loading the cartridge with Glubran®2 (8).

Read always carefully the instructions for use (IFU) in the package leaflet.

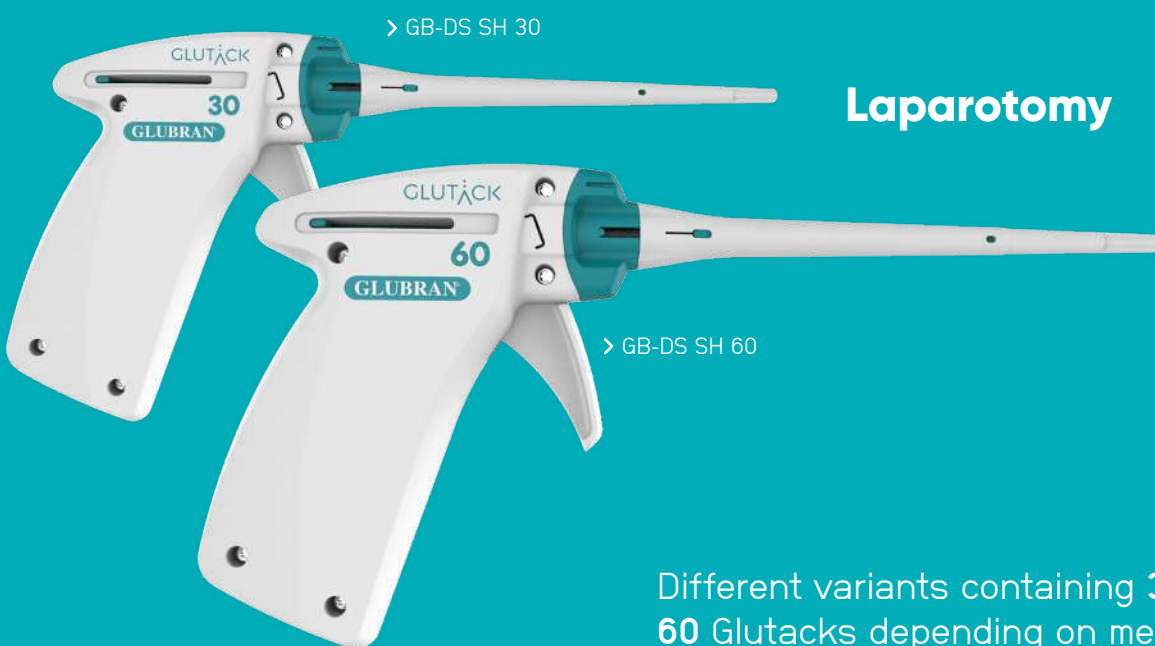


GLUTACK®

For every single need.



Laparoscopic



Laparotomy

Different variants containing **30** or **60** Glutacks depending on mesh size / procedure requirement.

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