

Comparison of EZ Surgical A-Lap™ and Diamond Flex Retractor

Overview:

The A-Lap™ is the first and only 3-Dimensional, flexible, Hand-like laparoscopic retractor.

The A-Lap™ features soft and compliant mesh controlled by an intuitive handle design allowing the surgeon to manipulate and lock-in the degree to which the device is opened.

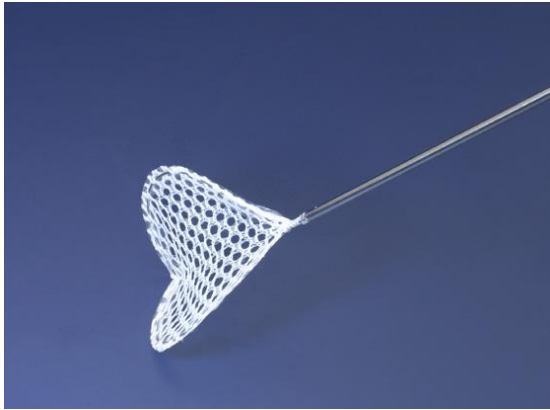


A-Lap™ design enables conveniently “wrapping” and retracting a large volume of tissue, by accepting the natural topography of the organ, thus simplifying soft tissue retraction and preventing ‘slippage’ of tissue during retraction.

The Diamond Flex retractor is a rigid metal finger, with a single predetermined shape and size.

Diamond flex retractors have no elasticity and flexibility and have no capability of 3-Dimensional expansion and thus cannot be used for small bowel retraction, or for manipulation and retraction of the urinary bladder or uterus.

The rigid metal is not elastic, and thus danger for tissue damage and high pressure on a small surface area is higher. Additionally, this device is made of multiple small metal parts. In case of malfunction and breakage (as has happened and reported to FDA) multiple small metal parts fall into patient abdomen.

Detailed comparison table:

	<u>A-Lap™</u>	<u>Diamond Flex</u>
		<p>Click to Enlarge</p>  <p>80mm retractor 89-6110</p> <p>Click to Enlarge</p>  <p>60mm angled retractor 89-6111</p>
Materials - Flexibility	High flexibility. Soft and compliant mesh, surrounded by highly flexible and strong metal wires	Rigid metal element

	<u>A-Lap™</u>	<u>Diamond Flex</u>
3-Dimensional	3 – Dimensional, hand-like grasping and retraction	None. One plane only
“Scoop and Protect” Scooping large volume of tissue	Intuitive to the design, due to 3-D function and soft mesh	Not possible
Structure: Safety	Mesh material: Similar to implantable hernia mesh No small parts. Design is single unit, cannot break within abdomen	Multiple small metal elements. In case of breakage – small parts may be lost in abdomen. (as reported on FDA Adverse Events Reports)
Maneuverability	26 different stages. Fully compatible with multiple different anatomical shapes and sizes, and with different organs	Single pre-determined shape and size
Small Bowel, Urinary Bladder, Uterus	Excellent for retraction of soft organs such as small bowel, urinary bladder and uterus	Non-compatible for small bowel, urinary bladder and uterus
Surface area	Large surface area of retraction	Very narrow retraction – metal rod
Retraction pressure spread	Retraction pressure spread on large surface area, with soft mesh	Concentrated pressure on small metal surface