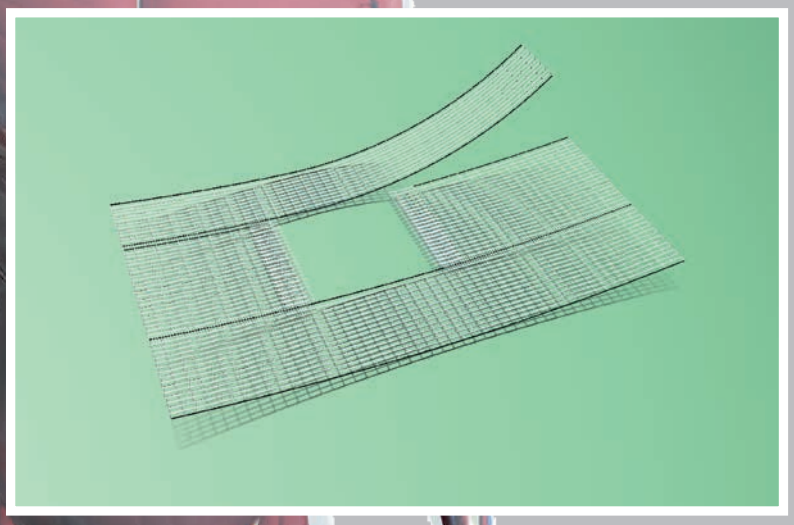
DynaMesh®

Tailored Solutions
for Visceral Surgery

Expert Technologies in **PVDF**

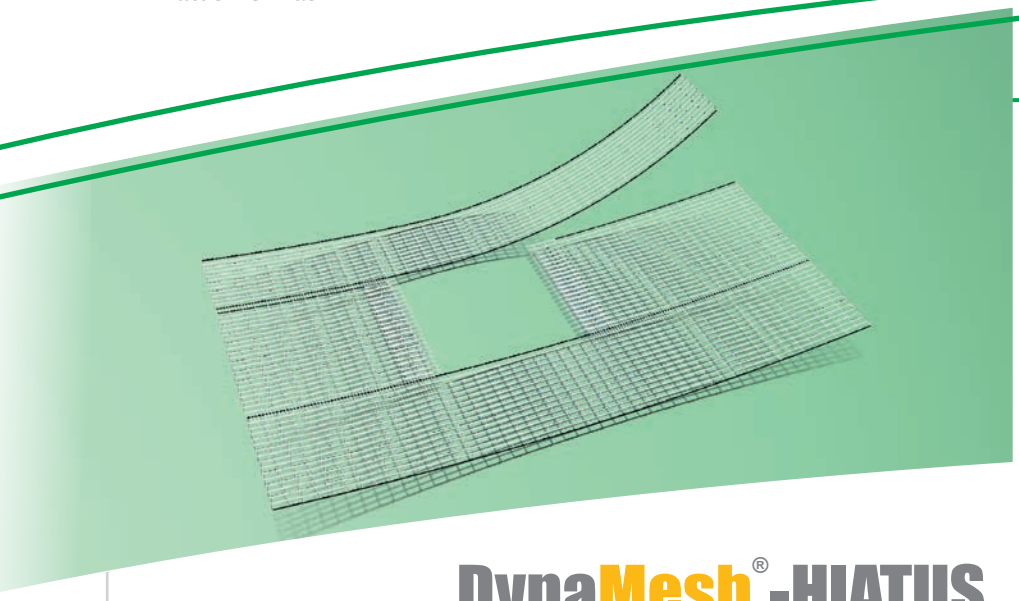
HIATUS



Effective prevention of mesh abrasion

made
in
Germany

Expert Technologies in **PVDF**



For repair of axial and para-oesophageal hernia

DynaMesh®-HIATUS

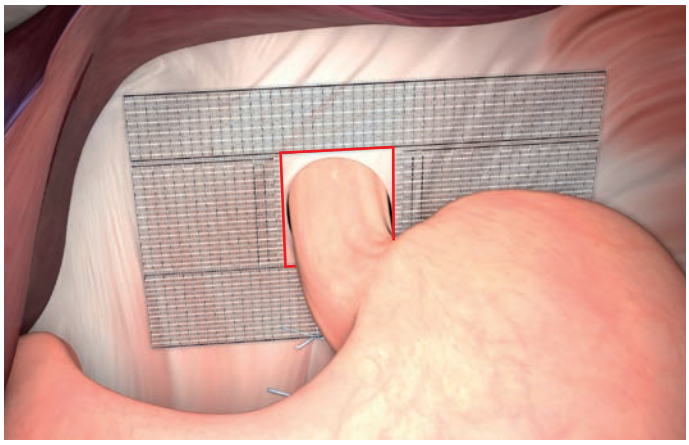
DynaMesh®-HIATUS	Size: 07 cm x 12 cm	PV610712F1	Unit = 1 EA / BX
	Size: 08 cm x 13 cm	PV610813F1	Unit = 1 EA / BX

For **maximum patient safety** all DynaMesh®-HIATUS implants come with **DynaMesh® visible technology** (see page 17 in the hernia catalogue).

Sophisticated design for effective prevention of mesh abrasion for maximum patient safety

The region of the hiatus oesophagus is extremely mobile due to respiration and swallowing. The placement of mesh implants in this region of high mobility demands mature technology for effective prevention of mesh abrasion. DynaMesh®-HIATUS has been specially designed for the repair of such extremely demanding hiatus hernias.

The sophisticated construction of the implant combines three technologies and thus ensures the maximum degree of patient safety.



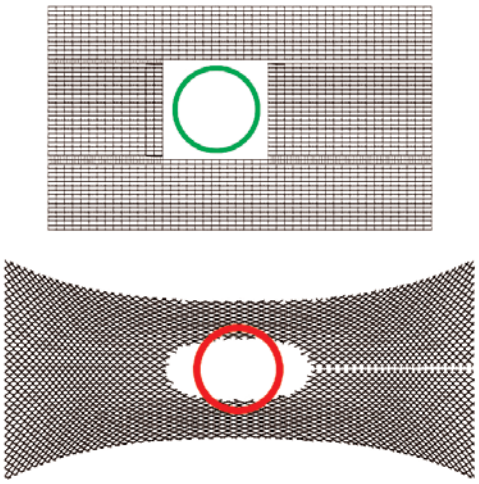
The stable construction and the highly effective porosity are a substantial part of keeping the opening for the oesophagus (red marker) virtually constant even over the long term.

Use and properties

Product	Field of application	Surgical approach	Surgical technique	Mesh position	Fixation	Optimal handling	Optimal patient safety	Optimal patient comfort	Green line marker	Tri-elasticity	visible technology
HIATUS	Diaphragm	laparoscopic	–	onlay	suture / stapler / tacker	●	●	●	●	●	●
For more information see the specified pages of the DynaMesh® HERNIAS catalogue							p.8	p.8			p.16

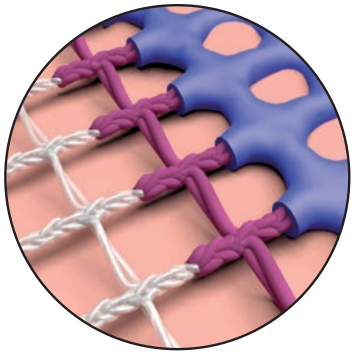
Shape stability under load

Conventional mesh structures are deformed under load. Constriction of the mesh in the region of the hiatus may reduce the distance between mesh implant and oesophagus, eventually causing mesh abrasion. DynaMesh®-HIATUS is based on a sophisticated textile design with rectangular pores, which even under load retain a high degree of shape stability.



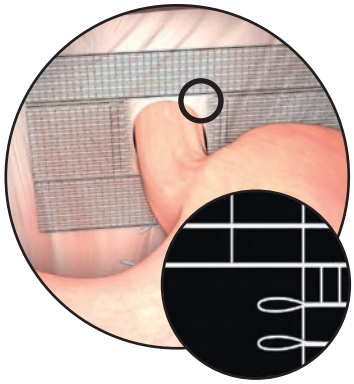
High effective porosity

Mesh implants tend to shrink after incorporation in vivo. DynaMesh®-HIATUS has a high effective porosity, which ensures that the mesh implant is thoroughly incorporated. During incorporation the use of the proven and highly biocompatible PVDF polymer ensures that scarring is kept to a minimum. The good incorporation of the mesh implants combined with little scarring leads to minimisation of mesh shrinkage and permanently high flexibility of the incorporated implant.



Smooth, warp-knitted mesh margins

If the mesh does come into contact with the oesophagus in spite of all measures to prevent it, DynaMesh®-HIATUS has smooth mesh margins that minimise the danger of mesh abrasion.



Technical data

	Polymer (monofilament)	Excellent biocompatibility	Minimal foreign body reactions	Reduced bacterial adherence	High ageing resistance	Optimal dynamometry	No scar plate formation	Reactive surface [a] [m²/m²]	Maximum stability [b] [N/cm]	Elasticity [b] at 16 N/cm [%]	Textile porosity [d] [%]	Effective porosity [d] [%]	Effective porosity at 2.5 N/cm [d] [%]	Classification [e]
PVDF	●	●	●	●	●	●	1,9	58	13	71	68	68	1a	
	p.10	p.10	p.10	p.10	p.11	p.13	p.14	p.12	p.13	p.13	p.14	p.15	p.15	

[a]-[e] p.41

Tailored Solutions for Visceral Surgery

Hiatus hernias

Expert Technologies in **PVDF**

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