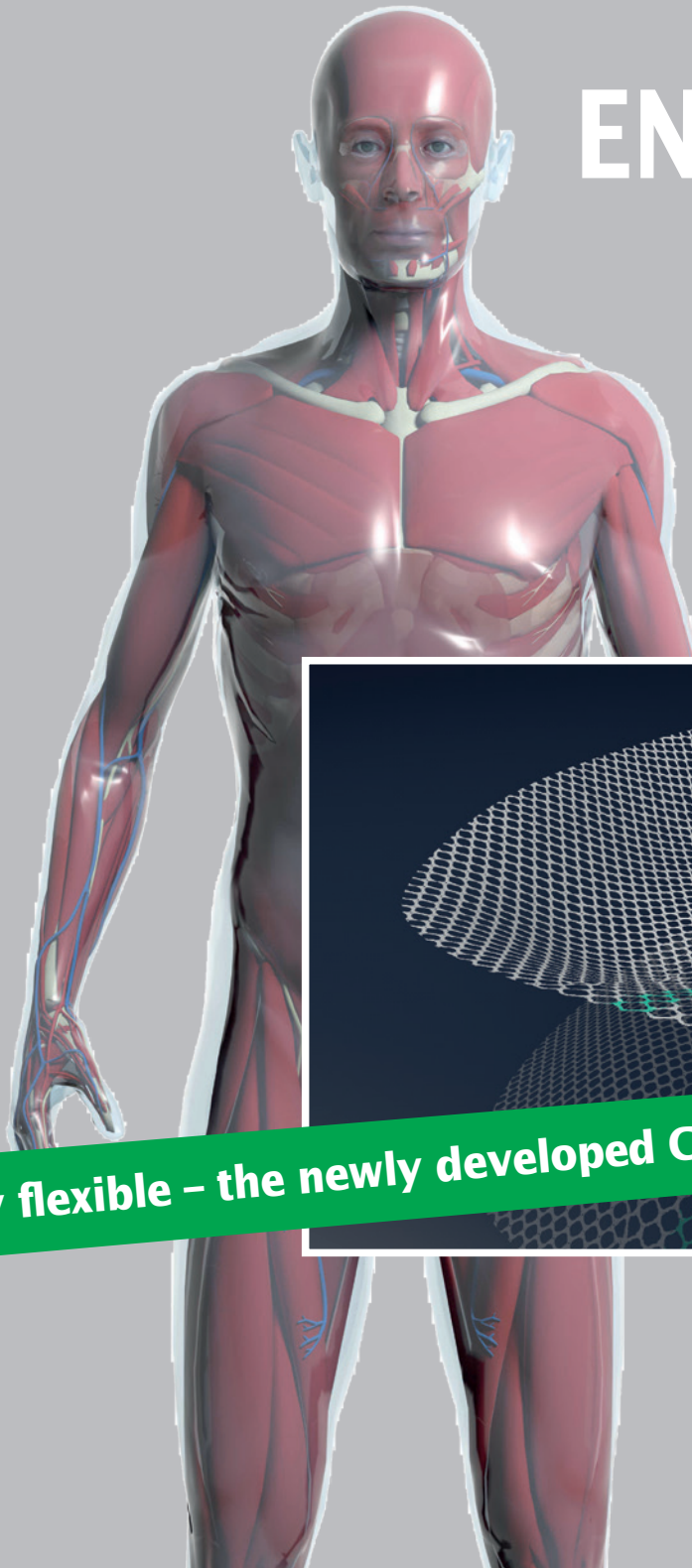


DynaMesh®

Tailored Solutions
for Visceral Surgery

Expert Technologies in PVDF

ENDOLAP 3D



Stay flexible – the newly developed CURVATOR® technology

made
in
Germany

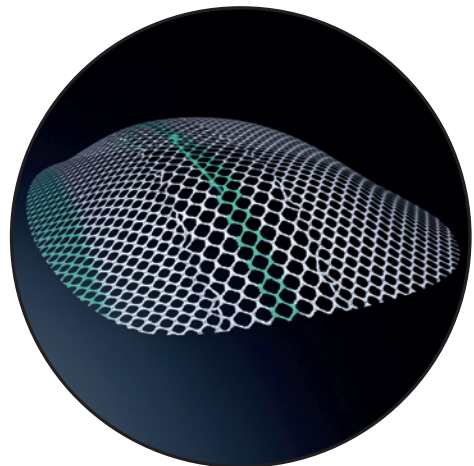
For ENDOscopic (TEP) and LAParoscopic (TAPP) techniques for inguinal and femoral hernia repair

DynaMesh®-ENDOLAP 3D

Effective, safe and standardised surgical management

Optimised shape

Three-dimensional mesh implants for inguinal and femoral hernia repair using the TEP / TAPP technique ensure **time-saving and efficient** intraoperative handling for the surgeon. The implants must also remain in an anatomically correct position post-operatively, however, to fulfil their function safely in the long term. As part of an interdisciplinary study performed at Aachen University Hospital, the requirements made of these 3D implants were totally re-assessed and clinically validated. Using DynaMesh® visible technology, which enables post-operative MRI monitoring of the implant's position, a shape was developed that is optimally suited to patient anatomy and the same for both sides (right and left). After draining the pneumoperitoneum, DynaMesh®-ENDOLAP 3D assumes the anatomically correct shape while fully maintaining its stabilising function and continuing to overlap the defect. The **highest degree of patient safety** can now be achieved in the long term as well.



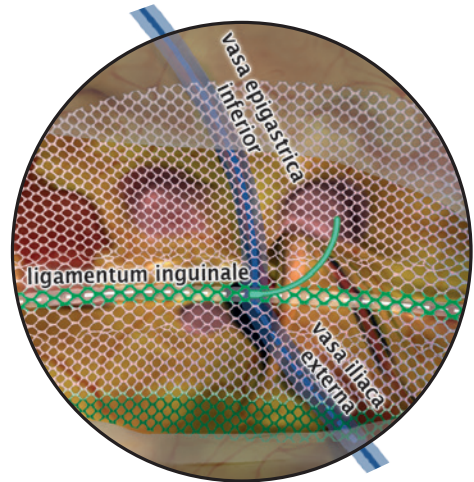
Use and properties

Product	Field of application	Surgical method	Surgical technique	Mesh position	Fixation	Optimal handling	Optimal patient safety	Optimal patient comfort	Green thread and line marker	CURVA TOR®	visible technology
ENDOLAP 3D	Inguinal-hernias	TEP TAPP	endoscopic, laparoscopic	extra-peritoneal	none, suture, bonding, stapler, tacker	●	●	●	●	●	●
Further information on the specified pages of the DynaMesh® catalogue HERNIAS						p.8	p.8			p.16	

Stay flexible – the newly developed CURVATOR® technology

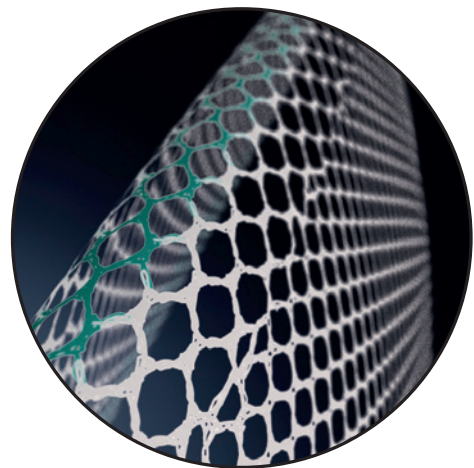
Standardised positioning

The **incorporation of markers** located in line with anatomical landmarks (inguinal ligament, inferior epigastric artery and external iliac artery) ensures straightforward, consistently correct and therefore **standardised positioning of the implant in every patient**. With the markers, DynaMesh®-ENDOLAP 3D offers another basis for a reproducible and consistent repair technique in relation to surgical guidelines, clinical studies or register entries as well.




CURVATOR®

With these three-dimensional mesh implants, particular demands are made of the “buckling zone” on the inguinal ligament. This region of maximum postoperative distortion should not be allowed to cause complications during ingrowth and must therefore remain wrinkle-free and retain high effective porosity. With CURVATOR®, which was especially developed for the curving sections in meshes and is incorporated into DynaMesh®-ENDOLAP 3D, the implant exhibits an outstanding ability to adjust to the new anatomical conditions, even those in the “buckling zone”. Its suture-free, multi-elastic design enables not only wrinkle-free positioning but also **wrinkle-free, anatomically correct reshaping** of the implant during and after exsufflation. The **high effective porosity** of the CURVATOR® is also maintained in “buckling zones” with increased material density so that local scarring and the associated **risk of pain is minimised**.



Technical data

	Polymer (monofilament)	Excellent biocompatibility	Minimal foreign body reactions	Reduced bacterial reactions	High ageing resistance	Optimal dynamometry	No scar plate formation	Reactive surface ^(a) [m ² /m ³]	Maximum stability ^(b) [N/cm]	Elasticity ^(b) at 16 N/cm [%]	Tear propagation resistance ^(c) [N]	Textile porosity ^(d) [%]	Effective porosity ^(e) [%]	Effective porosity at 2.5 N/cm ^(e) [%]	Classification ^(e)	
PVDF	●	●	●	●	●	●	1,82	35	25	32	69*/63	66*/59	63*/57	1a		
p.10	p.10	p.10	p.10	p.11	p.13	p.14	p.12	p.13	p.13	p.13	p.14	p.15	p.15			

*Values CURVATOR®

^{(a)-(e)} p.35

Delivery program

DynaMesh®-ENDOLAP 3D	Size: 10 cm x 15 cm regular	PV131015F1	Unit = 1 EA / BX
	Size: 12 cm x 17 cm	PV131217F1	Unit = 1 EA / BX
	Size: 09 cm x 14 cm	PV130914F1	Unit = 1 EA / BX
DynaMesh®-ENDOLAP 3D visible	Size: 12 cm x 17 cm	PV121217F1	Unit = 1 EA / BX

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