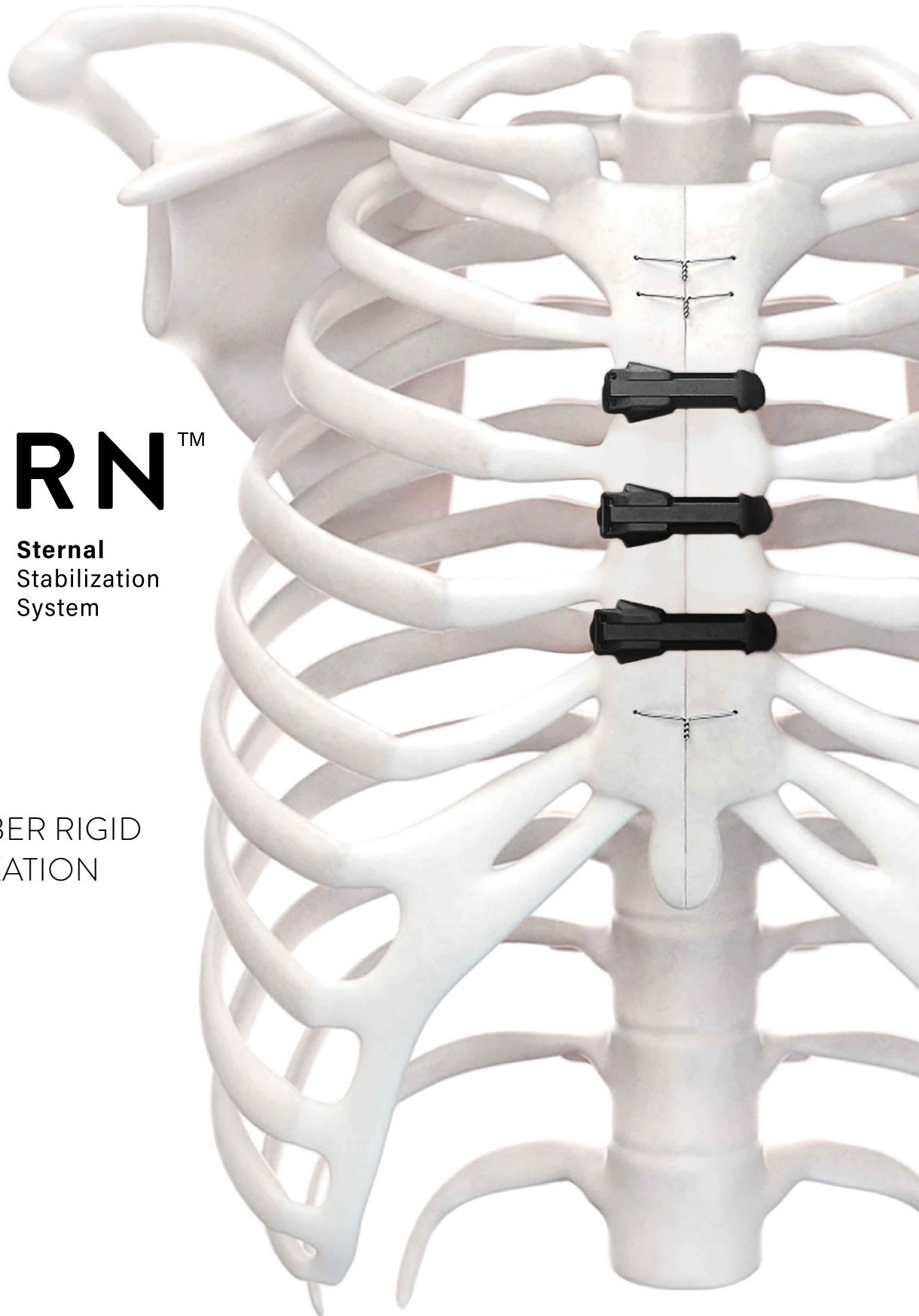


STERN[™]
FIX Sternal
Stabilization
System

CARBON FIBER RIGID
STERNAL FIXATION



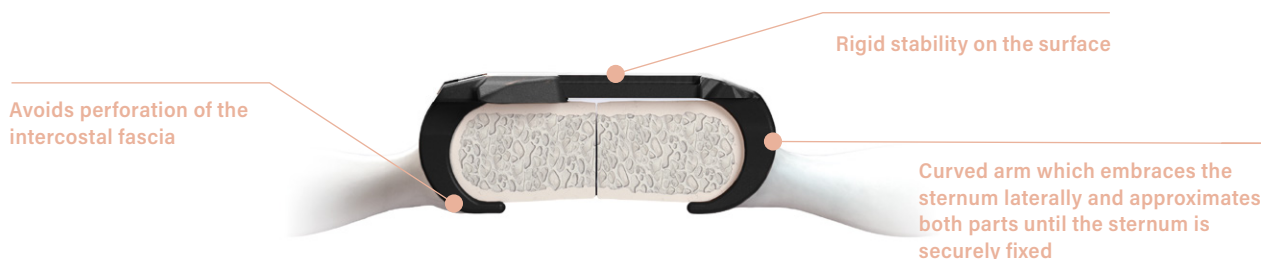
STERN FIX IS MADE OF A CARBON FIBER PEEK MATRIX

A high-performance material with biocompatible and mechanical properties that provides an alternative to titanium and steel alloys.^{1,2}

This CARBON FIBER compound is an excellent material to be used in sternal closure, as it closely matches the cortical bone properties and it has a gentle interface with the sternal bone.³

DESIGNED TO IMPROVE PATIENT RECOVERY

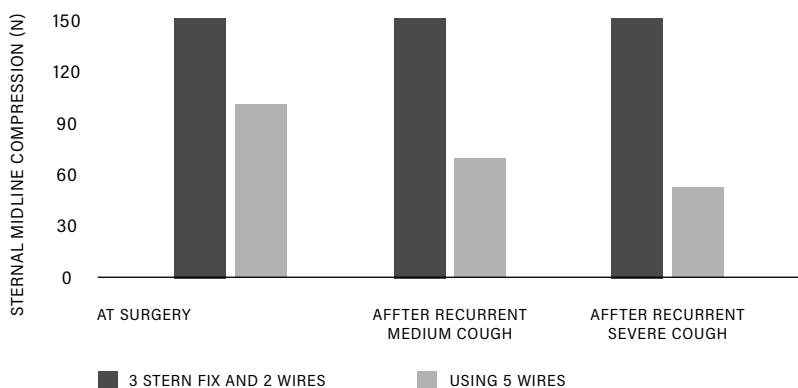
The optimized atraumatic design improves pressure distribution for a reduced risk of bone cut-through. Also provides multi-axis stability in all three-planes.



CONTINUOUS STERNAL COMPRESSION

STERNAL UNION

UNDER PRESENCE OF MEDIUM AND SEVERE COUGHING FORCES (225N, 350N).⁴



The use of STERN FIX provides a continuous contact between the two halves of the sternum, with a sustained compression strength even when coughing forces are present.

When using traditional wires closure, mechanical testing results showed a significant loss of compression after recurrent severe cough (-46%).⁵

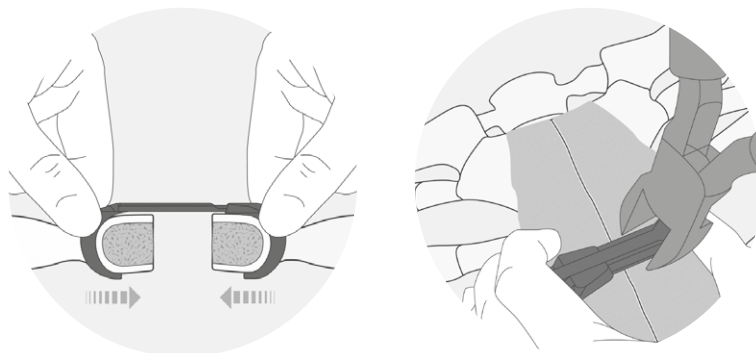
EASY IN / OUT

Intuitive application method with reduced number of instruments.

Needle-free implant.

Quick re-entry with a standard wire cutting tool.

Compatible with Minimal Invasive Surgery.



NEOS SURGERY S.L
www.neosurgery.com

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¹ Mbogori M, Vaish A, Vaishya R, Haleem A, Javaid M. Poly-Ether-Ether-Ketone (PEEK) in Orthopaedic Practice- A Current Concept Review. Journal of Orthopaedic Reports. 2022;1(1):3-7. doi:10.1016/j.jorep.2022.03.013

² Ma H, Suonan A, Zhou J et al. PEEK (Polyether-Ether-Ketone) and Its Composite Materials in Orthopedic Implantation. Arabian Journal of Chemistry. 2021;14(3):102977. doi:10.1016/j.arabjc.2020.102977.

³ Invisio biomaterial solutions. PEEK-OPTIMA™ REINFORCED CARBON FIBER REINFORCED COMPOUND

⁴ Mechanical test NEOS.

⁵ J. Adams et al., "Comparison of force exerted on the sternum during a sneeze versus during low-, moderate-, and high-intensity bench press resistance exercise with and without the valsalvamanuever in healthy volunteers." The American Journal of Cardiology. 2014, vol. 113, no. 6, pp. 1045-1048

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