Helical Wire Rope Isolators

Stainless steel helical wire rope isolators providing high damping, uniform radial stiffness through 360°, and excellent shock absorption.

AMC-MECANOCAUCHO® Helical Wire Rope Isolators consist of two metal plates connected by a **stainless steel wire rope wound in a helical configuration**.

This compact and robust design provides **uniform radial stiffness through 360°**, ensuring consistent mechanical behavior regardless of the radial direction of the applied load. The wire rope also provides **high damping** and effectively absorbs vibrations, shocks, and large movements.

Thanks to their **symmetrical configuration**, these isolators do not require a specific radial orientation during installation, simplifying assembly and ensuring consistent behavior in all radial directions.

They are particularly suitable for **mobile applications, onboard equipment, transportation systems, and industrial equipment** subjected to multidirectional vibrations, repeated shocks, or harsh environmental conditions.

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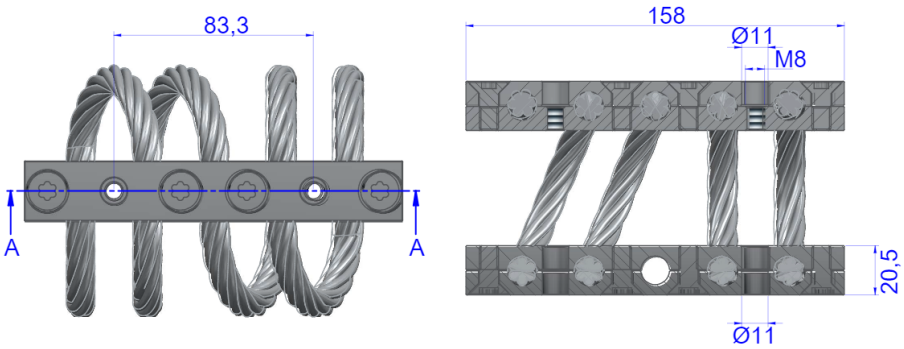
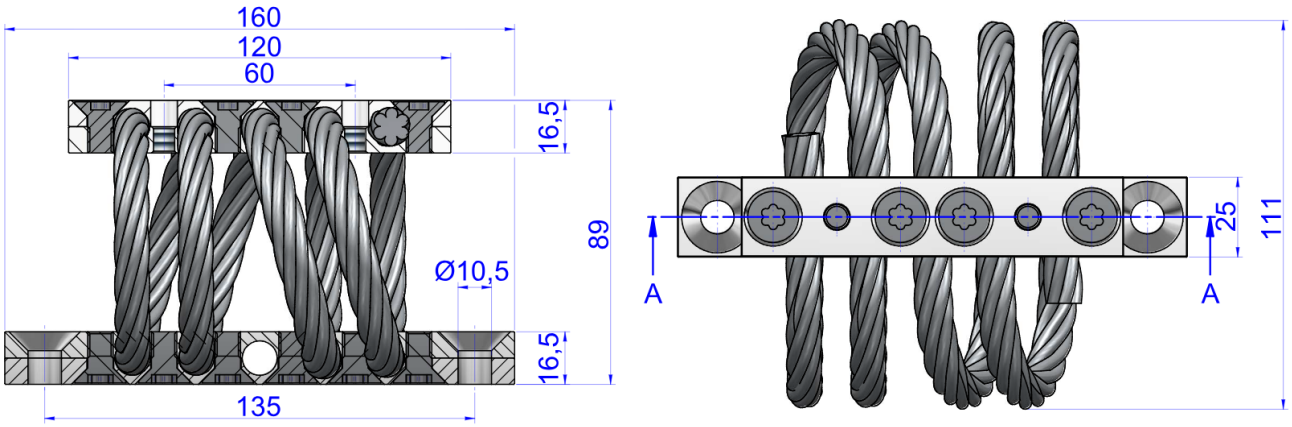
Drawings

Type 158x89



Type	Code	Max. Load(lbs)	Max. static load (lb)	Weight(lbs)
Type 158x89	171210	827	441	4

Type 160x89



Type	Code	Max. Load(lbs)	Max. static load (lb)	Weight(lbs)
Type 160x89	171211	573	220	2

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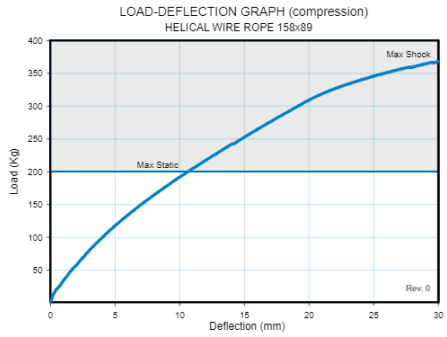
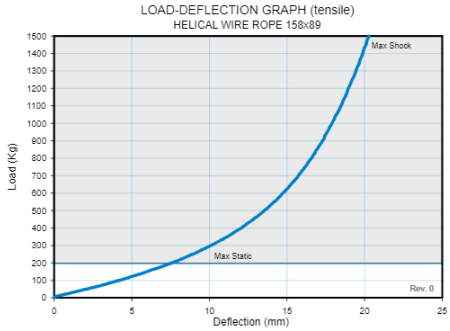
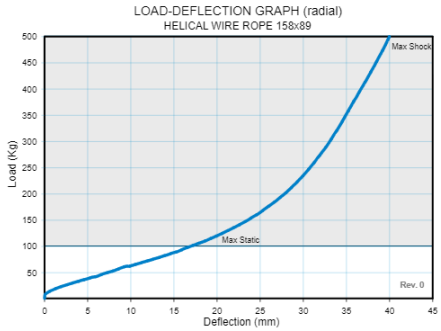
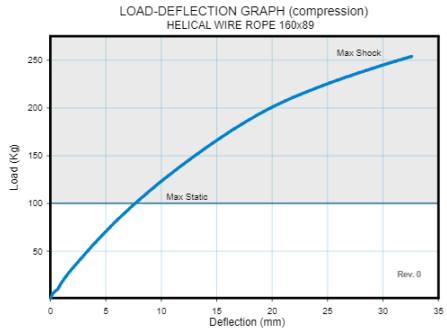
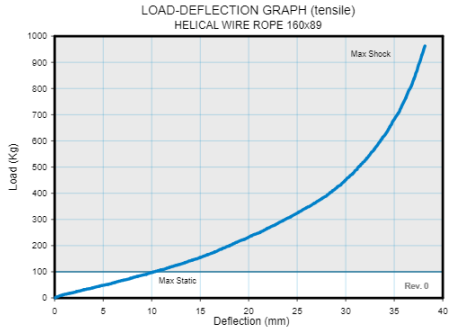
Elastic properties

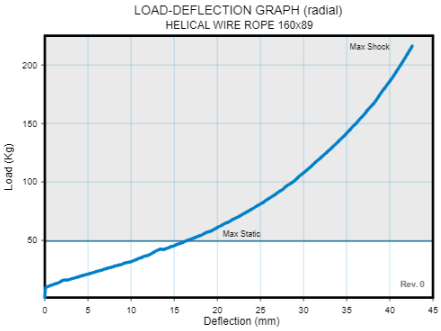












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Technical characteristics

AMC-MECANOCAUCHO® Helical Wire Rope Mounts are designed for applications requiring high mechanical strength, shock resistance, and durability in harsh environments. Their construction, with stainless steel wire ropes wound between two steel plates, ensures excellent resistance to fatigue and wear under dynamic stress.

Thanks to their helical geometry, they effectively absorb shocks and vibrations, protecting suspended equipment. Their torsional flexibility and axial compliance allow multi-directional vibration isolation while maintaining stability under static and dynamic loads.

Made entirely from corrosion-resistant stainless steel, they perform reliably in marine or humid conditions. The maintenance-free design ensures long service life, even under repeated shocks or continuous vibration.

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