



WRI H16000 SERIES

WIRE ROPE ISOLATORS



LOGGERS

INTRODUCTION

Loggers WRI Series helical wire rope isolators offer cost-effective and durable protection against shock and vibration. These all-metal isolators are captive, which means that the connection between the mounted object and its foundation is ensured at all times. WRI Series isolators are easy to install, maintenance-free and renowned for their long lifetime. Typical applications include the shockproof mounting of cabinets, equipment and packaging and within crating solutions.

The specialists of our Center of Excellence assist clients worldwide with the application of wire rope isolators for their systems. Their approach ensures that the optimal isolator for a specific situation is selected. Important calculation parameters such as the object's mass, center of gravity, vibration and desired rest shock levels are taken into account during the selection process.

GENERAL PROPERTIES

- Reliable, captive shock and vibration isolator
- Helical shape with 8 loops.
- Temperature range: - 180 °C to + 300 °C
- Bars: aluminum alloy
Cable: Ø16mm, stainless steel
Screws: Alloy steel / zinc plated
- 4 mounting holes (Ø10,5 mm) in top bar, 4 in bottom bar
90° countersunk holes and/or M10 inserts optional (please refer to table below)



This datasheet covers standard versions only. Please consult Loggers for more information on custom versions with a different number of loops or specific bar types.

BAR CUSTOMIZATION OPTIONS

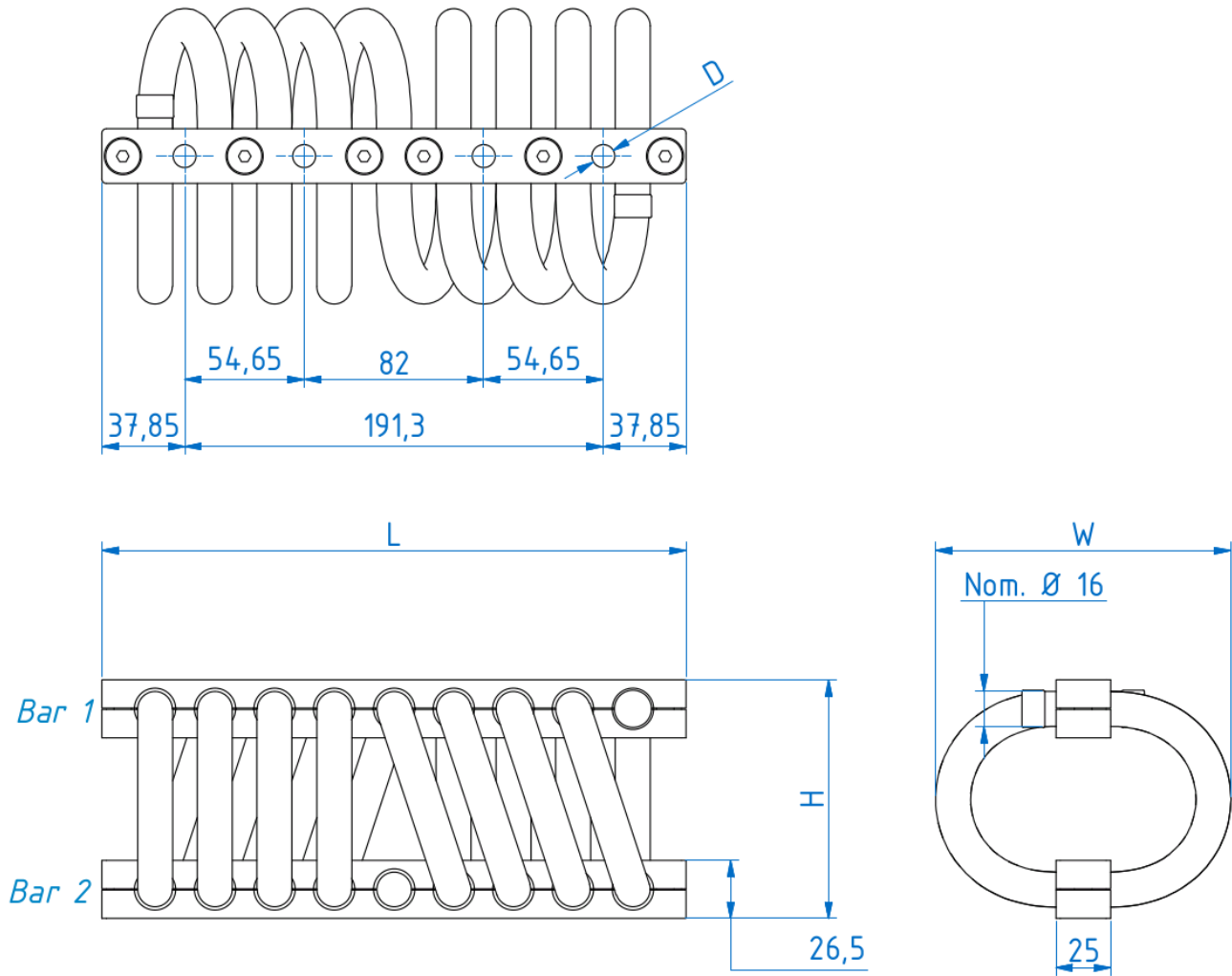
Both bars of the H16000 Series helical wire rope isolators can be fully customized to meet specific requirements. The standard version of this isolator has through holes, but it is also available with countersunk holes and/or inserts.

The table shows the codes used for the most common options. For specific requirements, please contact our sales department.

* = Custom option, available upon request.

	BAR 1		
	4 through holes Ø 10,5 mm	4 through holes Ø 10,5 mm countersunk 90°	4 bar inserts M10
BAR 2			
4 through holes Ø 10,5 mm	TT	*	*
4 through holes Ø 10,5 mm countersunk 90°	CT	CC	*
4 bar inserts M10	IT	IC	II

DIMENSIONS & WEIGHT



Dimensions in mm. For reference only.

Model	height H (mm)	width W (mm)	length L (mm)	mass (kg)
H16010	89	102	267	3
H16020	96	112	267	3,2
H16030	100	120	267	3,4
H16040	109	135	267	3,7
H16050	119	152	267	4
H16060	127	165	267	4,3
H16070	135	178	267	4,5

WRI H16000 SERIES CHARACTERISTICS

The characteristics provided in this document allow basic selection of H16000 Series wire rope isolators, based upon their characteristics for maximum static load and shock. Please note that more detailed characteristics and curves are available upon request.

Compression and tension

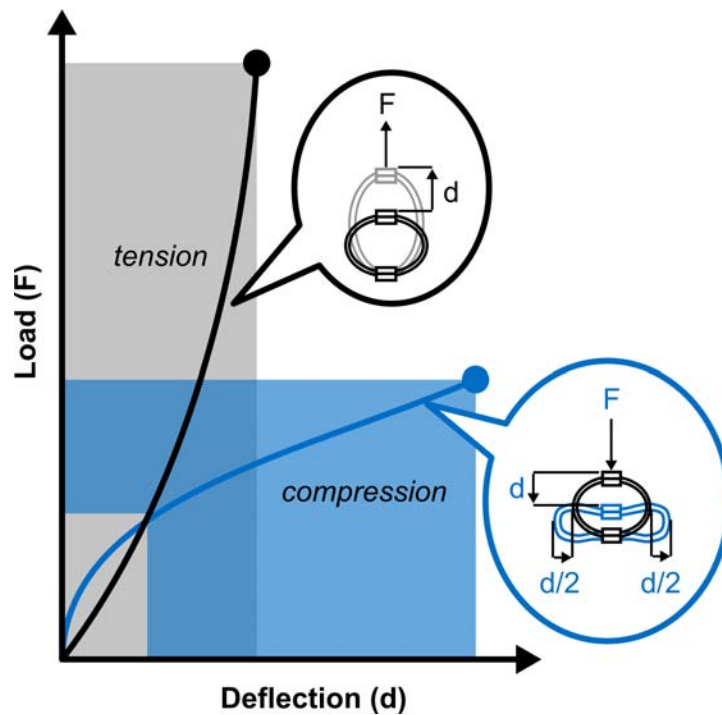


fig. 1. Compression and tension

Type	Compression				Tension			
	1.) Max. static		2.) Max. shock		1.) Max. static		2.) Max. shock	
	F (daN)	d (mm)	F (daN)	d (mm)	F (daN)	d (mm)	F (daN)	d (mm)
H16010	846	5,9	2539	32	846	4,6	7617	19
H16020	731	7,2	2194	39	731	5,7	6667	24
H16030	640	7,7	1919	42	640	6,5	6168	29
H16040	518	9,2	1553	50	518	8	5218	37
H16050	421	10,9	1263	59	421	9,8	4397	47
H16060	367	12,4	1100	67	367	11,3	3891	55
H16070	323	13,7	970	74	323	12,7	3501	62

Compression and tension at 45° roll

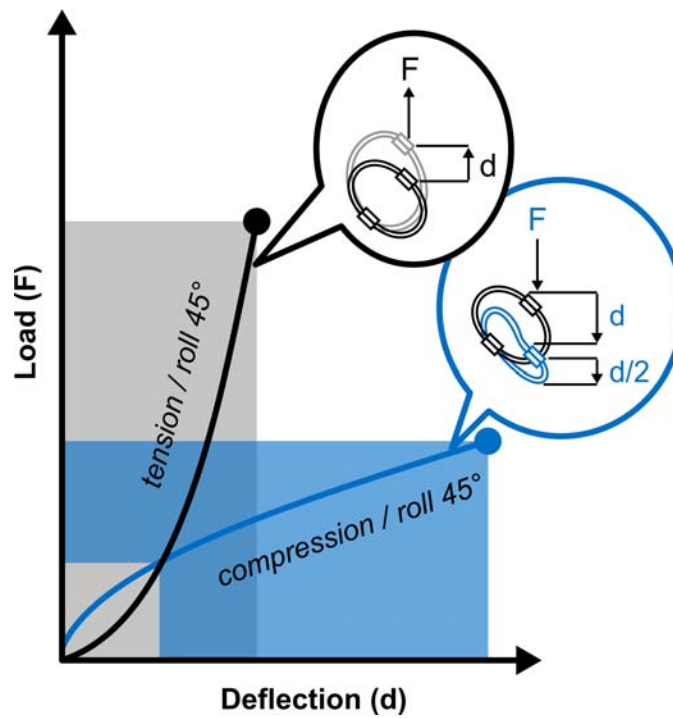


fig. 2. Compression and tension at 45° roll

Type	Compression at 45° roll				Tension at 45° roll			
	1.) Max. static		2.) Max. shock		1.) Max. static		2.) Max. shock	
	F (daN)	d (mm)	F (daN)	d (mm)	F (daN)	d (mm)	F (daN)	d (mm)
H16010	635	9,9	1552	48	635	7,1	5586	26
H16020	549	12,3	1344	59	549	8,8	4895	32
H16030	480	13,3	1189	63	480	10	4551	38
H16040	388	16,1	970	75	388	12,4	3864	50
H16050	316	19,3	794	89	316	15,2	3265	62
H16060	275	22,1	693	101	275	17,4	2893	73
H16070	243	24,6	614	111	243	19,6	2607	83

Shear and roll

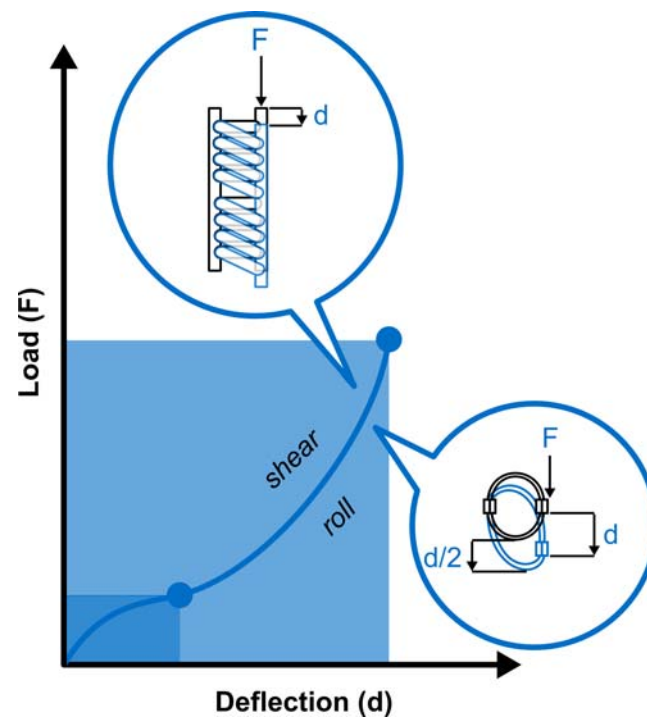


fig. 3. Shear and roll

Type	Shear or roll			
	1.) Max. static		2.) Max. shock	
	F (daN)	d (mm)	F (daN)	d (mm)
H16010	423	11,2	2666	32
H16020	366	13,6	2251	40
H16030	320	14,7	2083	45
H16040	259	17,5	1714	56
H16050	210	20,6	1402	69
H16060	183	23,4	1225	79
H16070	162	25,9	1091	89

ABOUT LOGGERS

Loggers is thought leader and international recognized solution provider in the field of shock, vibration and noise control. With excellent technical know-how in combination with proven market knowledge and experience Loggers designs, develops and engineers innovative solutions for the most complex and challenging situations for leading clients worldwide for over 95 years.

Loggers understands all difficulties in the area of vibration, shock and noise control entirely. We bring up the best and most cost effective solution for every challenge, regardless of its complexity. Loggers defines and engineers all deliverables necessary for solving your problem, ranging from standard to tailor-made solutions. Loggers' state-of-the-art portfolio contains all products and services to provide you with the optimal solution for relatively simple as well as the most complex challenges.

Products

- Vibration isolators
- Expansion joints
- Shock isolators

Services

- Assessment of current situation (on site)
- Analysis design including construction drawings
- Structural design and stress analysis
- Vibration measurement and analysis, if needed on site
- Solution definition based on: standard products, customized products, or even tailor-made new products
- Complete simulation of solution to ensure its effectiveness
- Testing including certification by independent certification authorities
- On site support during installation

Loggers understands both business and technology and brings both worlds together in satisfying customers' needs in rapidly changing environments. By working closely with clients Loggers enables them to realize their strategic targets through solving specific operational issues in the following market segments:

- Shipbuilding
- Dredging
- Defense
- Machinery
- Offshore
- Transport

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