



WRI H8000 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: Ø8mm, stainless steel
Screws: Alloy steel / zinc plated
- 2 mounting holes (Ø6,4 mm) in top bar, 2 in bottom bar
90° countersunk holes and/or M6 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

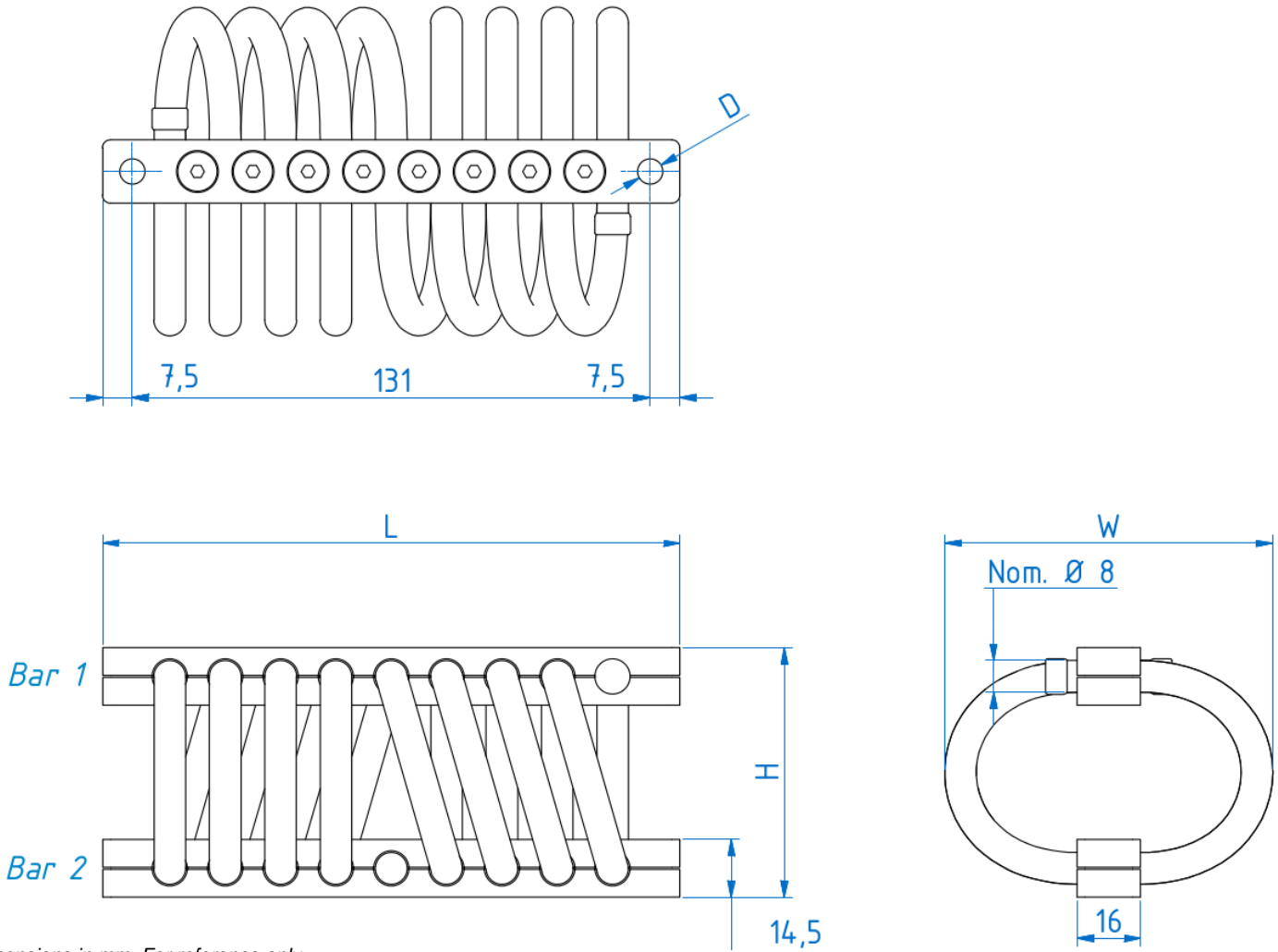
Both bars of the H8000 Series helical wire rope isolators can be fully customized to meet specific requirements. The standard version of this isolator has through holes, but it is also available with countersunk holes and/or inserts.

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		
BAR 2	2 through holes Ø 6,4 mm	2 through holes Ø 6,4 mm countersunk 90°	2 bar inserts M6
2 through holes Ø 6,4 mm	TT	*	*
2 through holes Ø 6,4 mm countersunk 90°	CT	CC	*
2 bar inserts M6	IT	IC	II

DIMENSIONS & WEIGHT



Dimensions in mm. For reference only.

Model	height H (mm)	width W (mm)	length L (mm)	mass (kg)
H8010	48	59	170	0,34
H8020	54	66	170	0,37
H8030	59	74	170	0,39
H8040	63	83	170	0,41
H8050	63	92	170	0,43
H8060	67	98	170	0,45
H8070	67	103	170	0,46
H8080	82	111	170	0,5

WRI H8000 SERIES CHARACTERISTICS

The characteristics provided in this document allow basic selection of H8000 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

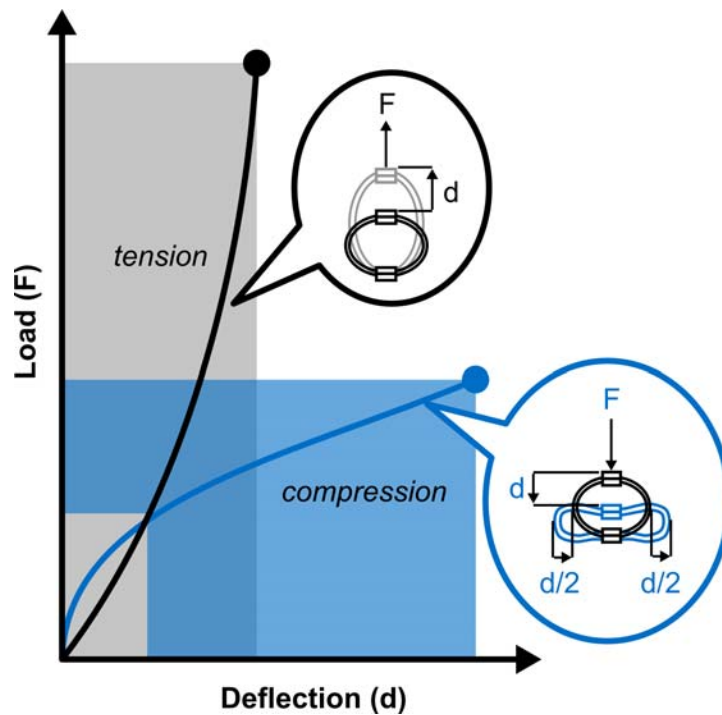


fig. 1. Compression and tension

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)
H8010	148	3,1	444	17	148	2,7	1451	12
H8020	123	4,2	369	23	123	3,4	1156	15
H8030	99,7	5	299	27	99,7	4,2	981	19
H8040	80	5,7	240	31	80	5,2	848	25
H8050	63,3	5,7	190	31	63,3	5,7	818	35
H8060	57,5	6,3	172	34	57,5	6,3	745	38
H8070	51,4	6,3	154	34	51,4	6,3	735	44
H8080	49,8	8,9	149	48	49,8	8,2	542	41

Compression and tension at 45° roll

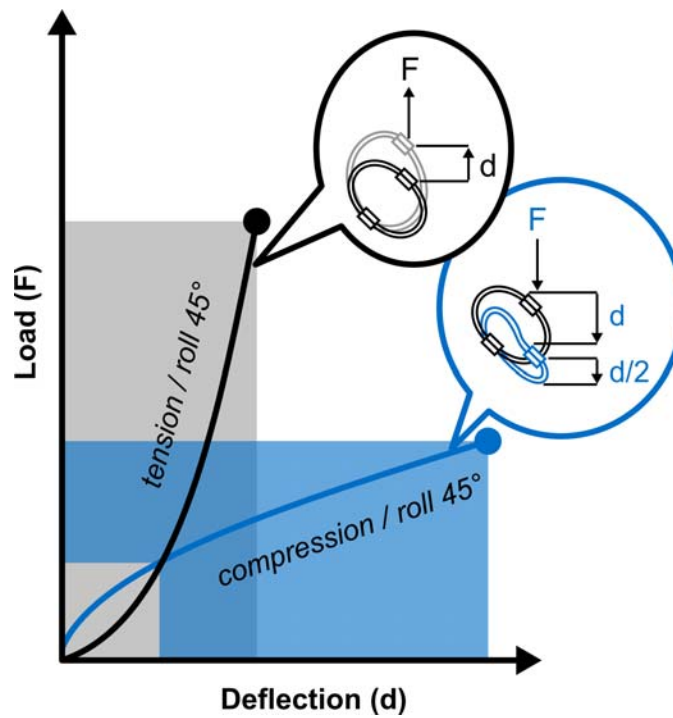


fig. 2. Compression and tension at 45° roll

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)
H8010	111	5	276	26	111	4,1	1072	16
H8020	92,3	6,9	228	35	92,3	5,3	851	20
H8030	74,8	8,3	186	41	74,8	6,6	725	26
H8040	60	9,6	151	47	60	8,1	631	34
H8050	47,5	9,6	123	47	47,5	9,3	616	46
H8060	43,1	10,6	112	51	43,1	10,2	562	51
H8070	38,6	10,6	102	51	38,6	10,6	557	59
H8080	37,4	15,4	94,5	72	37,4	12,8	403	54

Shear and roll

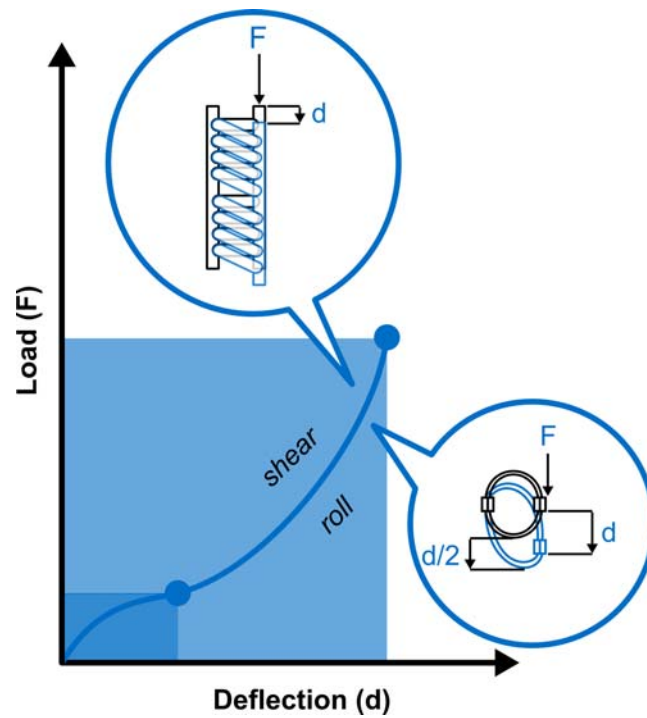


fig. 3. Shear and roll

Type	Shear or roll			
	1.) Max. static		2.) Max. shock	
	F (daN)	d (mm)	F (daN)	d (mm)
H8010	74,1	5,9	518	19
H8020	61,6	8	385	24
H8030	49,9	9,4	323	30
H8040	40	10,8	273	37
H8050	31,7	10,8	256	45
H8060	28,7	11,9	234	49
H8070	25,7	11,9	225	54
H8080	24,9	16,8	165	58

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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