



## WRI H13000 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: Ø13mm, stainless steel  
Screws: Alloy steel / zinc plated
- 4 mounting holes (Ø8,4 mm) in top bar, 4 in bottom bar  
90° countersunk holes and/or M8 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

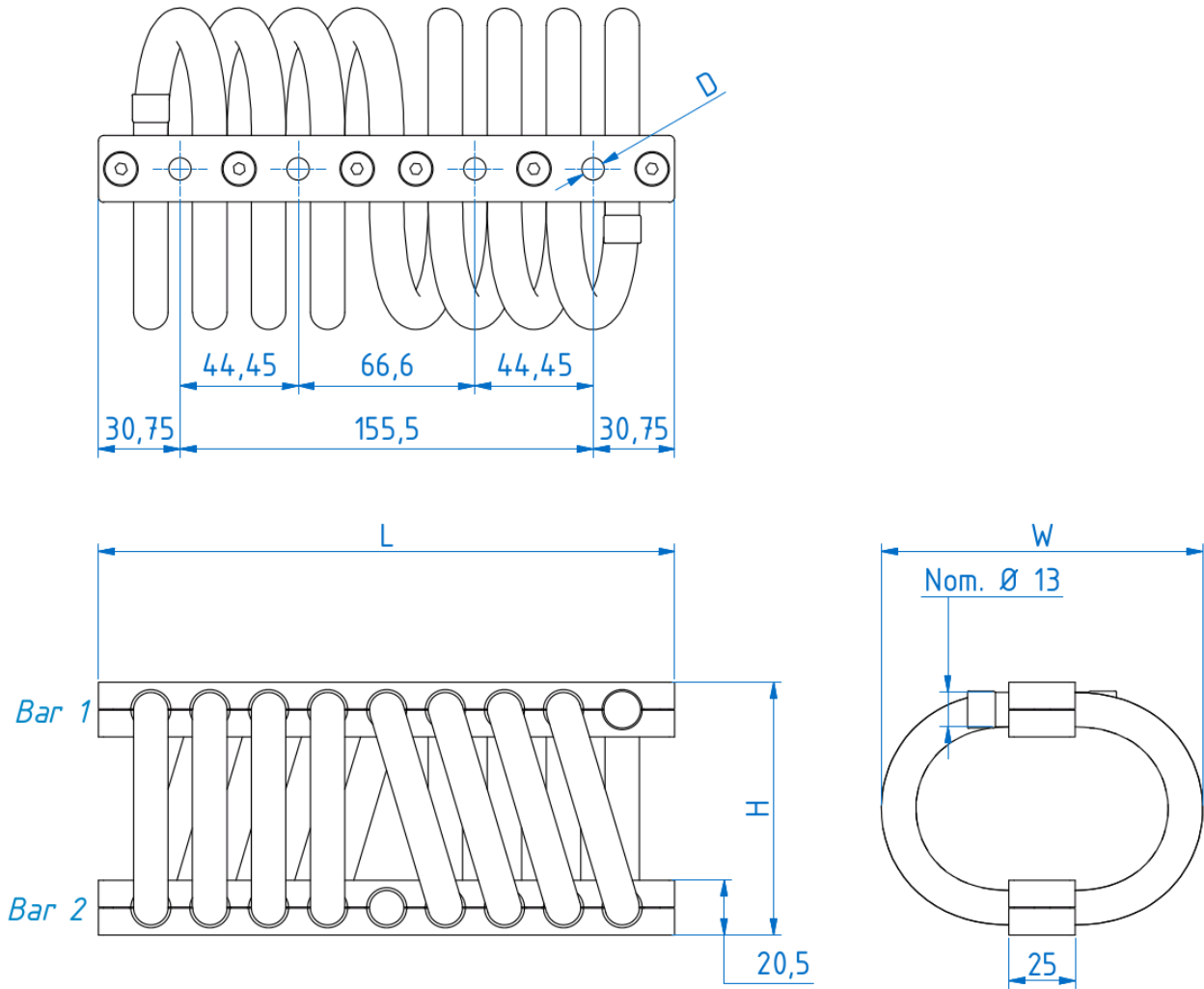
Both bars of the H13000 Series helical wire rope isolators can be fully customized to meet specific requirements. The standard version of this isolator has through holes, but it is also available with countersunk holes and/or inserts.

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 8,4 mm	4 through holes Ø 8,4 mm countersunk 90°	4 bar inserts M8
BAR 2			
4 through holes Ø 8,4 mm	TT	*	*
4 through holes Ø 8,4 mm countersunk 90°	CT	CC	*
4 bar inserts M8	IT	IC	II

## DIMENSIONS & WEIGHT



Dimensions in mm. For reference only.

Model	height H (mm)	width W (mm)	length L (mm)	mass (kg)
H13010	76	92	217	1,8
H13020	83	102	217	2
H13030	89	105	217	2
H13040	95	121	217	2,2
H13050	108	133	217	2,4
H13060	124	143	217	2,7
H13070	137	156	217	2,9
H13080	155	180	217	3,2

## WRI H13000 SERIES CHARACTERISTICS

The characteristics provided in this document allow basic selection of H13000 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

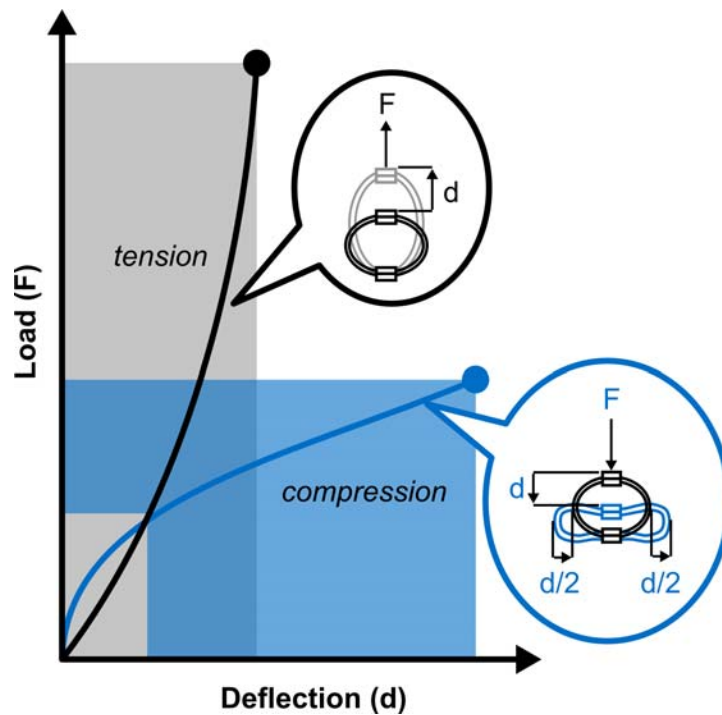


fig. 1. Compression and tension

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)
H13010	496	5,9	1488	32	496	4,2	4184	17
H13020	416	7	1247	38	416	5,3	3642	22
H13030	396	7,9	1189	43	396	5,5	3276	22
H13040	301	9	903	49	301	7,3	2821	32
H13050	261	11,1	782	60	261	8,5	2327	35
H13060	237	13,6	711	75	237	9,4	1920	36
H13070	206	15,4	618	86	206	10,6	1648	40
H13080	162	19	486	103	162	13,2	1336	52

## Compression and tension at 45° roll

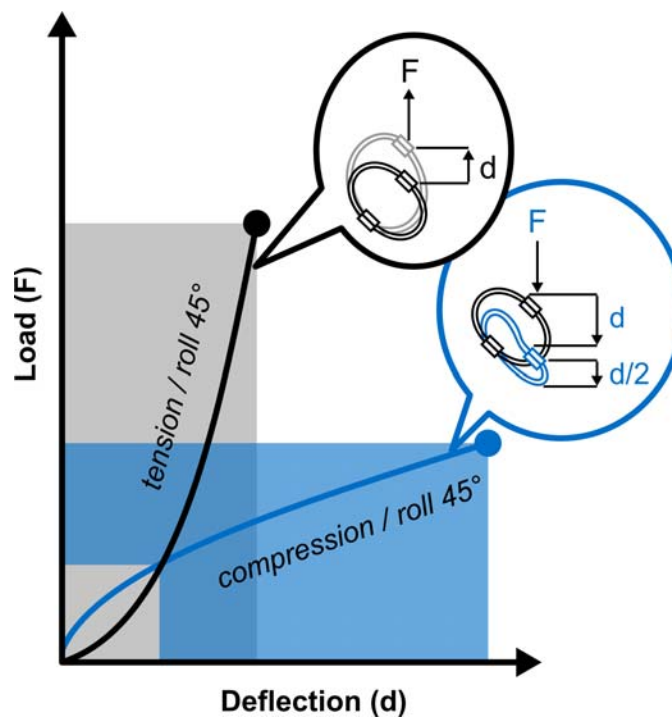


fig. 2. Compression and tension at 45° roll

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)
H13010	372	9,9	897	48	372	6,6	3050	22
H13020	312	12	758	57	312	8,2	2664	29
H13030	297	13,7	714	65	297	8,6	2383	29
H13040	226	15,8	557	74	226	11,4	2076	42
H13050	196	19,6	477	90	196	13,2	1705	47
H13060	178	24,7	425	113	178	14,6	1394	48
H13070	154	28	368	129	154	16,5	1195	54
H13080	121	34,4	291	155	121	20,6	972	69

## Shear and roll

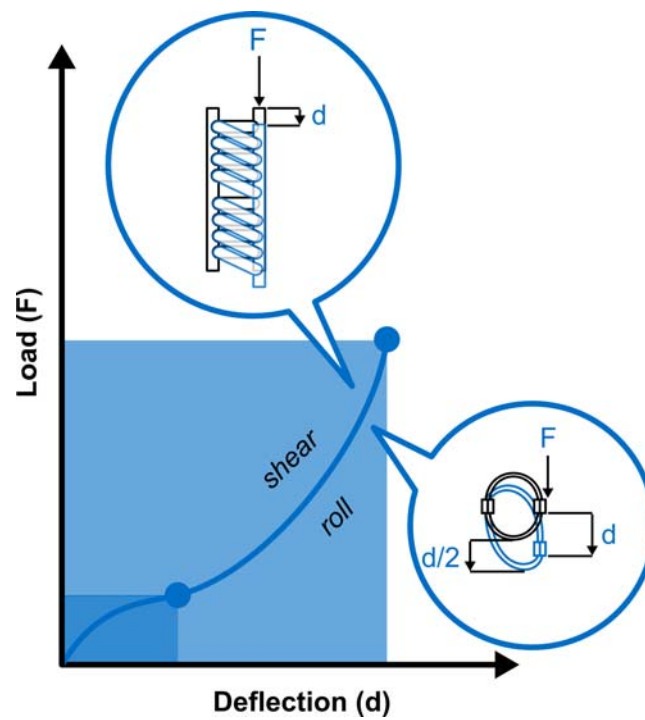


fig. 3. Shear and roll

Type	Shear or roll			
	1.) Max. static		2.) Max. shock	
	F (daN)	d (mm)	F (daN)	d (mm)
H13010	248	11,2	1367	30
H13020	208	13,3	1169	37
H13030	198	15	1035	40
H13040	151	17,1	889	51
H13050	130	21	715	60
H13060	119	26,2	569	68
H13070	103	30,1	481	77
H13080	81	36	385	95

## 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

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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