

## WRI H22000 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: Ø22mm, stainless steel  
Screws: Alloy steel / zinc plated
- 4 mounting holes (Ø13,4 mm) in top bar, 4 in bottom bar  
90° countersunk holes and/or M12 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

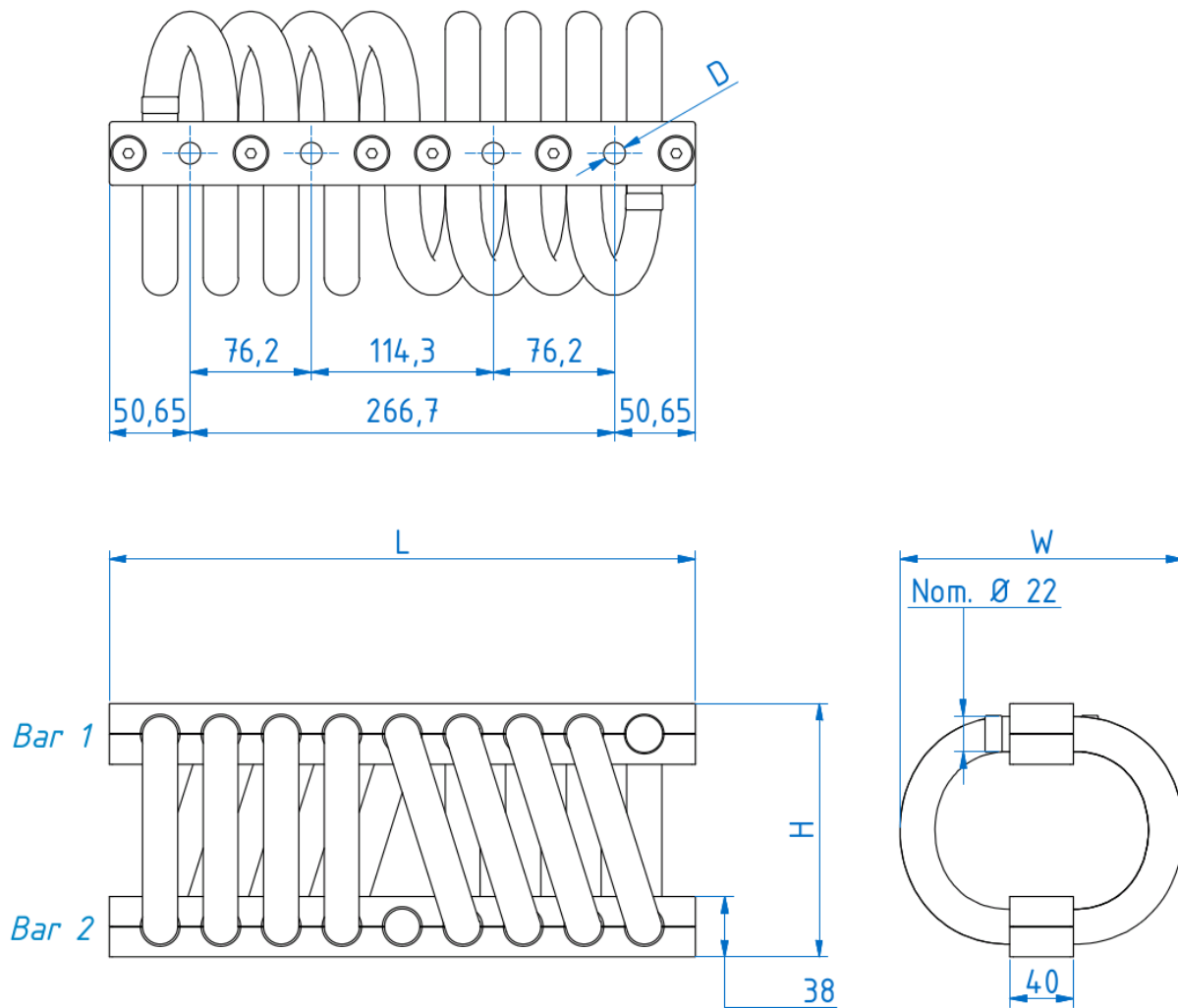
Both bars of the H22000 Series helical wire rope isolators can be fully customized to meet specific requirements. The standard version of this isolator has through holes, but it is also available with countersunk holes and/or inserts.

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 13,4 mm	4 through holes Ø 13,4 mm countersunk 90°	4 bar inserts M12
BAR 2			
4 through holes Ø 13,4 mm	TT	*	*
4 through holes Ø 13,4 mm countersunk 90°	CT	CC	*
4 bar inserts M12	IT	IC	II

## DIMENSIONS & WEIGHT



Dimensions in mm. For reference only.

Model	height H (mm)	width W (mm)	length L (mm)	mass (kg)
H22010	133	140	368	8,4
H22020	152	165	368	9,5
H22030	159	178	368	9,9
H22040	190	210	368	11,5
H22050	216	235	368	12,7

## WRI H22000 SERIES CHARACTERISTICS

The characteristics provided in this document allow basic selection of H22000 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

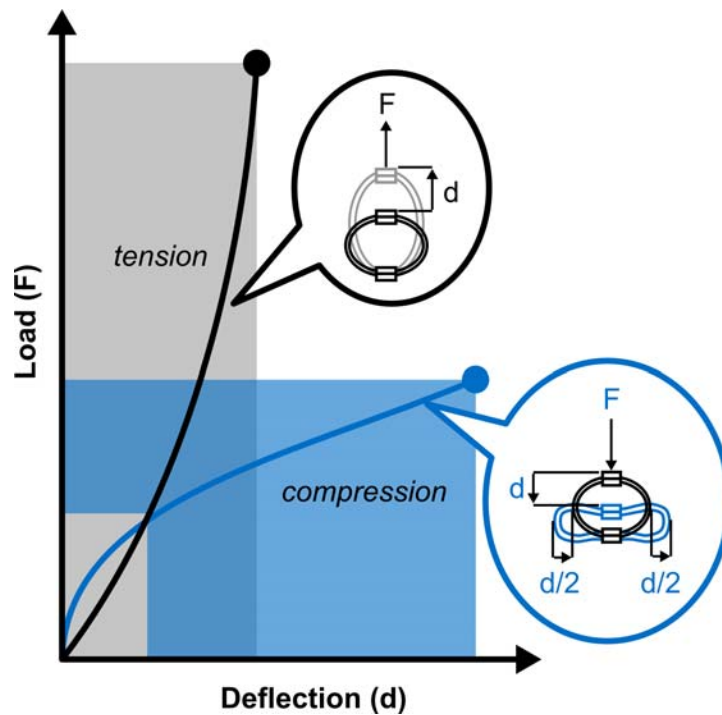


fig. 1. Compression and tension

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)
H22010	1528	8,4	4585	50	1528	5,6	11554	20
H22020	1176	12	3527	67	1176	8,2	9398	31
H22030	1045	13,5	3134	73	1045	9,6	8758	38
H22040	804	18,5	2411	101	804	12,7	6553	49
H22050	672	22,2	2016	124	672	15,2	5365	58

## Compression and tension at 45° roll

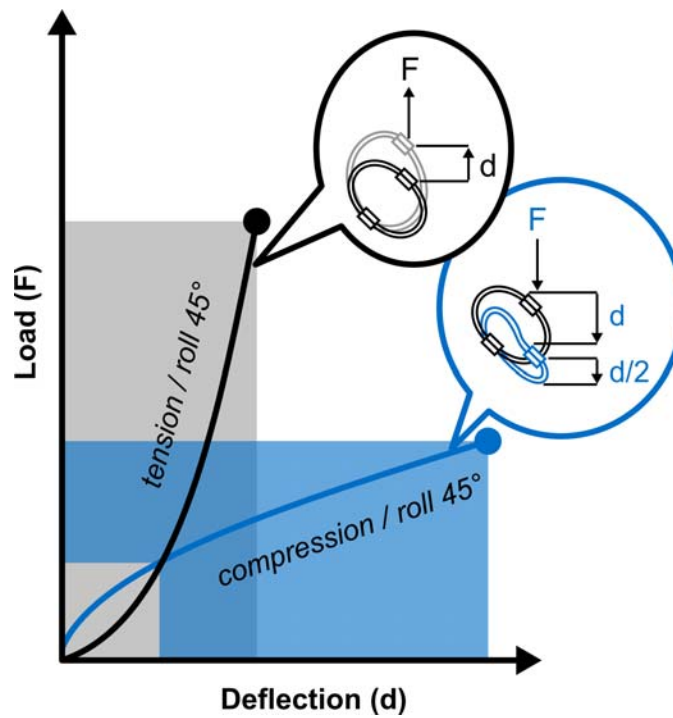


fig. 2. Compression and tension at 45° roll

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)
H22010	1146	15,5	2696	75	1146	8,8	8326	27
H22020	882	21,8	2102	101	882	12,8	6813	42
H22030	784	24,3	1887	110	784	14,9	6380	50
H22040	603	33,4	1443	152	603	19,9	4760	66
H22050	504	40,3	1201	186	504	23,7	3889	77

## Shear and roll

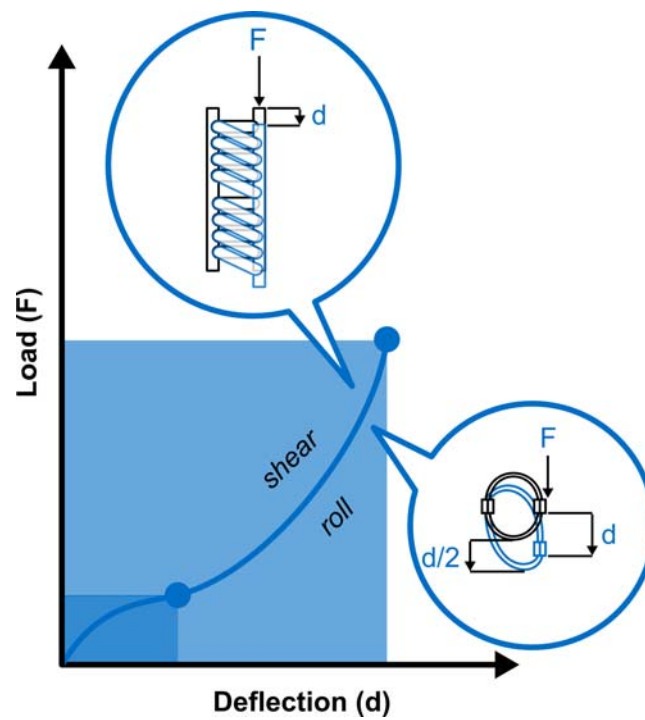


fig. 3. Shear and roll

Type	Shear or roll			
	1.) Max. static		2.) Max. shock	
	F (daN)	d (mm)	F (daN)	d (mm)
H22010	764	17,5	3741	42
H22020	588	23,4	2984	60
H22030	522	25,5	2786	68
H22040	402	35,3	1997	92
H22050	336	43,4	1592	110

## 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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