



## WRI H19000 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: Ø19mm, 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

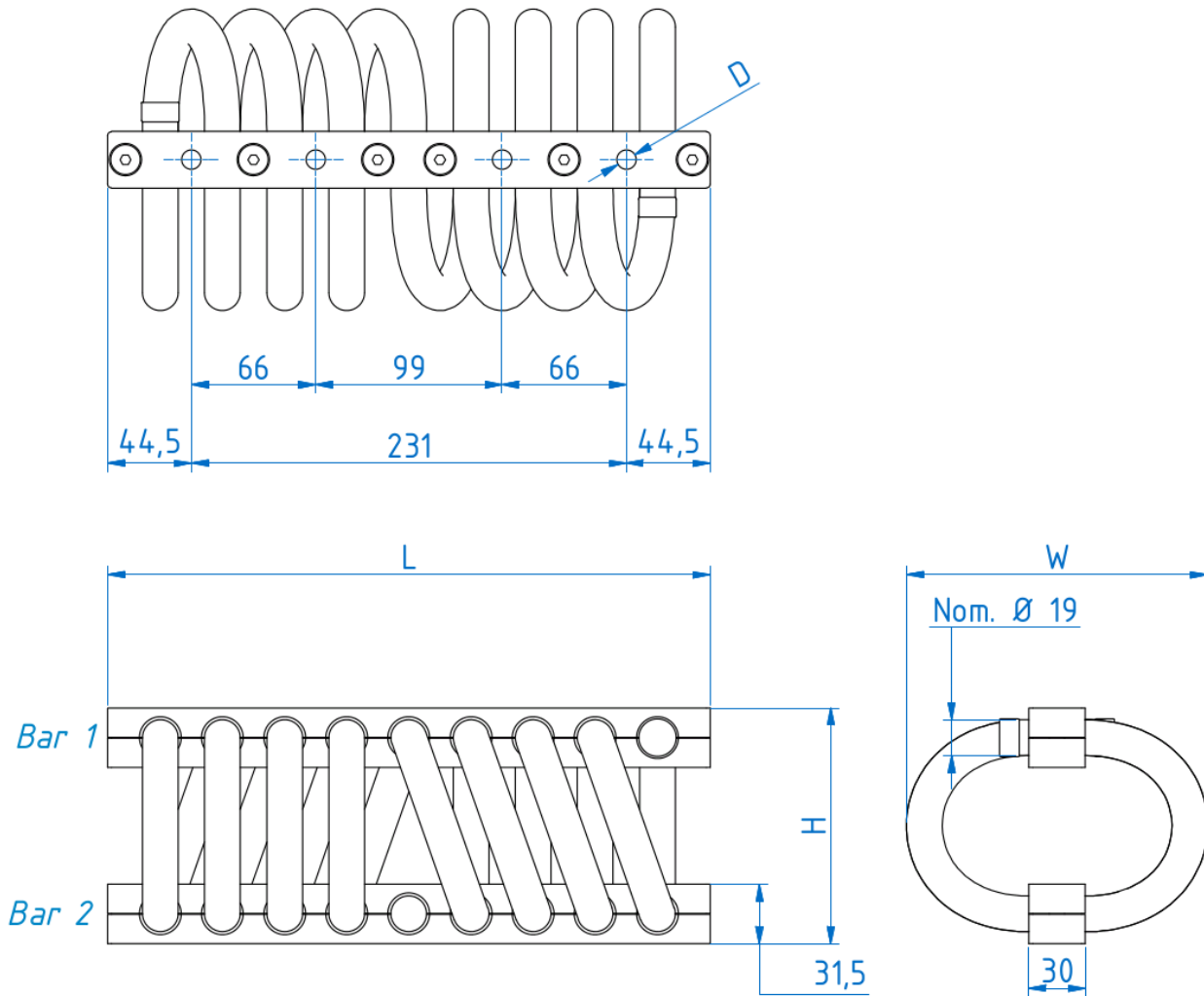
Both bars of the H19000 Series helical wire rope isolators can be fully customized to meet specific requirements. The standard version of this isolator has through holes, but it is also available with countersunk holes and/or inserts.

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)
H19005	98	115	320	5,1
H19010	104	125	320	5,4
H19015	110	135	320	5,8
H19020	117	145	320	6,2
H19025	125	160	320	6,6
H19030	135	175	320	7
H19035	145	185	320	7,1
H19040	160	200	320	7,5
H19045	175	215	320	7,9

## WRI H19000 SERIES CHARACTERISTICS

The characteristics provided in this document allow basic selection of H19000 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

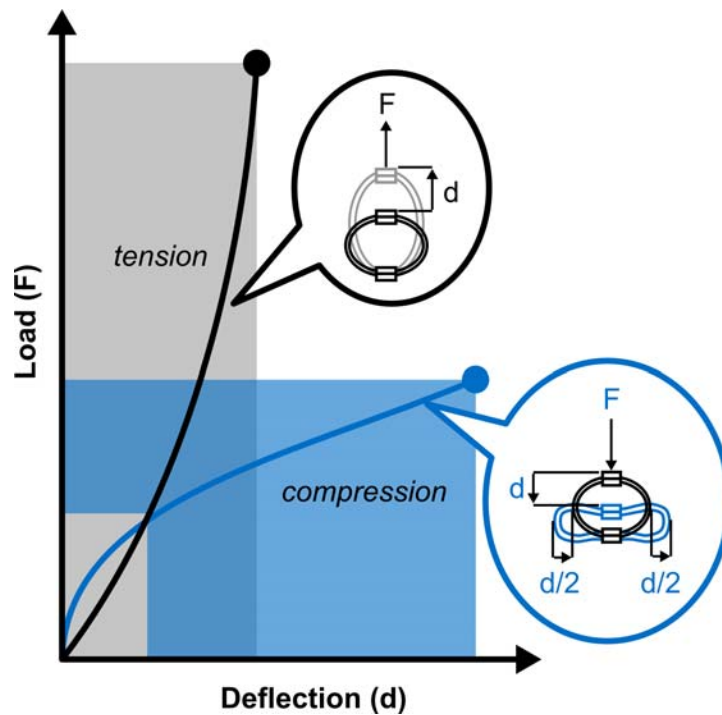


fig. 1. Compression and tension

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)
H19005	1151	6,1	3453	33	1151	5	10830	22
H19010	997	7,2	2992	39	997	6	9665	27
H19015	865	8,1	2596	44	865	7	8673	32
H19020	766	9,2	2297	50	766	8	7719	37
H19025	640	10,7	1919	58	640	9,7	6751	47
H19030	551	12,4	1654	67	551	11,3	5887	55
H19035	510	14	1531	76	510	12,4	5228	58
H19040	457	16,4	1371	89	457	13,9	4482	63
H19045	412	19	1235	103	412	15,6	3902	68

## Compression and tension at 45° roll

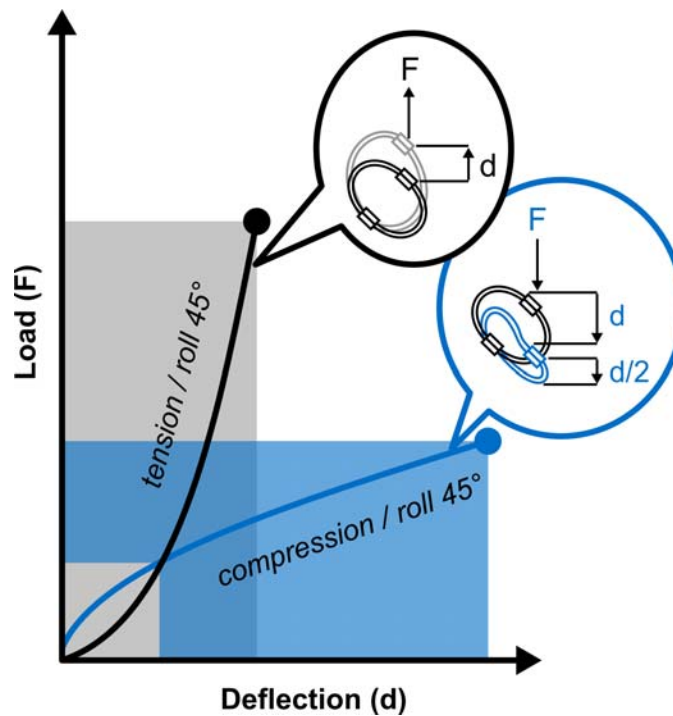


fig. 2. Compression and tension at 45° roll

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)
H19005	863	10,3	2129	50	863	7,7	7973	29
H19010	748	12,3	1855	59	748	9,4	7134	36
H19015	649	14	1620	66	649	10,9	6419	43
H19020	574	16,1	1435	75	574	12,4	5715	50
H19025	480	18,9	1208	87	480	15	5017	62
H19030	413	22,1	1043	101	413	17,5	4379	74
H19035	383	25,3	959	114	383	19,2	3876	78
H19040	343	30,1	852	134	343	21,6	3312	84
H19045	309	35,2	762	155	309	24,2	2875	91

## Shear and roll

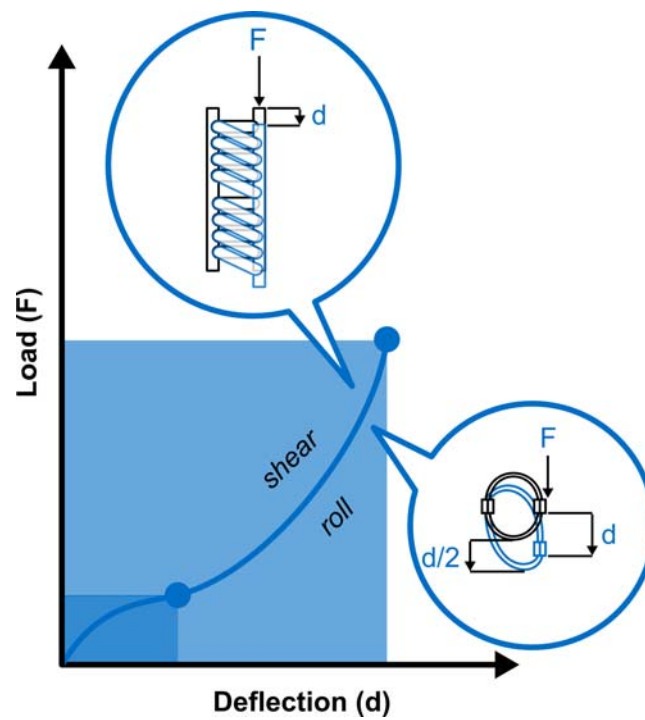


fig. 3. Shear and roll

Type	Shear or roll			
	1.) Max. static		2.) Max. shock	
	F (daN)	d (mm)	F (daN)	d (mm)
H19005	576	11,5	3880	35
H19010	499	13,6	3348	42
H19015	433	15,4	2963	49
H19020	383	17,5	2564	56
H19025	320	20,3	2194	68
H19030	276	23,4	1885	80
H19035	255	26,6	1642	87
H19040	229	31,1	1391	97
H19045	206	36	1189	109

## 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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