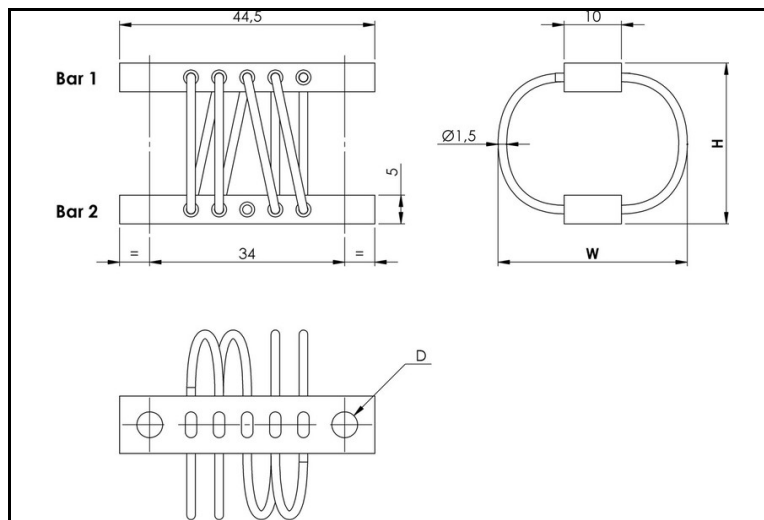


WIRE ROPE ISOLATOR

DEFINITION
series HH2



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH2
Cable: stainless steel
Retainer bars: aluminium alloy/ SurTec
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-304	18	25	0,01
-404	20	28	0,01
-504	25	30	0,01
-604	28	33	0,01
-704	30	35	0,01
-804	33	38	0,02
-904	35	40	0,02
-1004	38	43	0,02

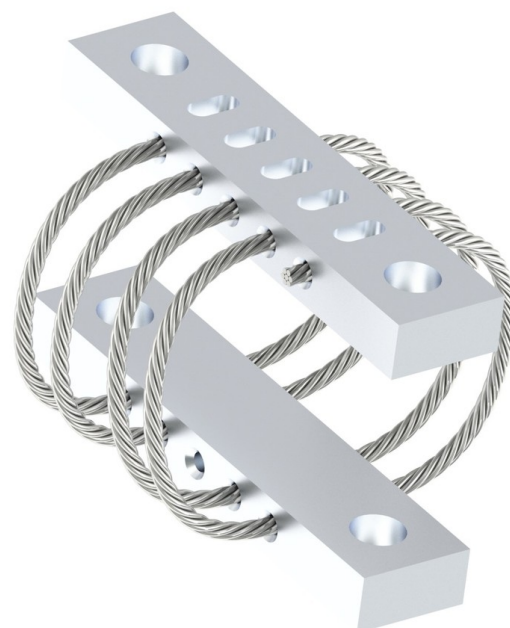
INTERFACES	Bar 1		
fixtures holes D	2 through holes ø4.5mm	2 through holes ø4.5mm countersunk 90°	2 x M4
Bar 2			
2 through holes ø4.5mm	TM2	not standard	not standard
2 through holes ø4.5mm countersunk 90°	TCM	CM2	not standard
2 x M4	TIM	CIM	IM2

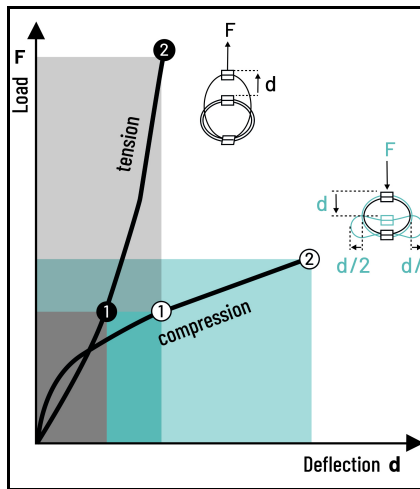
H	H	2	-	3	0	4	C	I	M
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SERIE: HH2
'Half-Helical' mount
from the HH2 series

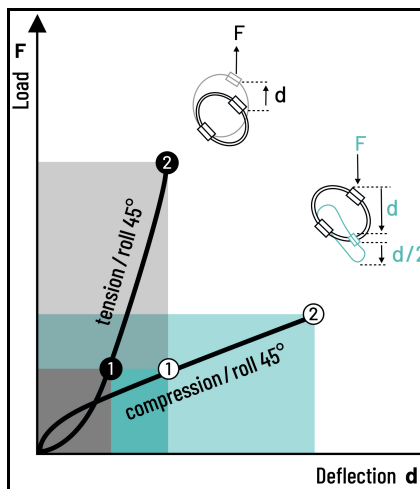
MODEL: -304
height: 18mm
width: 25mm
weight: 0,01kg
loops: serie standard is 04
loops

INTERFACE: CIM
2 through holes ø4.5mm
countersunk 90° in bar 1,
2 x M4 in bar 2

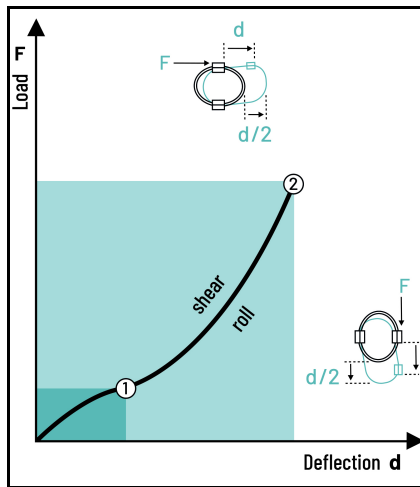




COMPRESSION AND TENSION									
HH2 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004
1.Max Static	F daN	2,6	2	1,6	1,3	1,1	0,9	0,8	0,7
	d mm	1,6	1,9	2,3	2,7	3	3,5	3,8	4,2
2.Max Shock	F daN	7,8	5,9	4,8	3,8	3,3	2,8	2,5	2,1
	d mm	8	10	14	17	19	22	23	26
3.Max Vibration	2a mm	1	1,2	1,6	1,9	2,1	2,4	2,6	2,9
	f Hz	12,3	11,5	8,5	7,8	7,5	7	6,8	6,4
1.Max Static	F daN	2,6	2	1,6	1,3	1,1	0,9	0,8	0,7
	d mm	1,1	1,4	1,5	1,8	2	2,3	2,4	2,7
2.Max Shock	F daN	24	19,1	12,7	10,2	9	7,5	6,8	5,8
	d mm	4	5	5	6	7	8	8	9
3.Max Vibration	2a mm	0,5	0,7	0,6	0,7	0,8	0,9	1	1,1
	f Hz	19,5	17,2	16,6	15,2	14,4	13,5	12,9	12,2



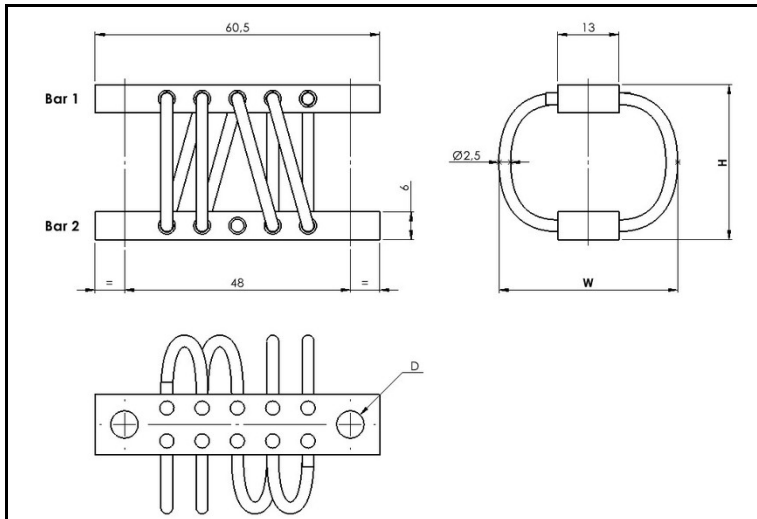
COMPRESSION/ROLL 45° - TENSION/ROLL 45°									
HH2 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004
1.Max Static	F daN	2	1,5	1,2	1	0,8	0,7	0,6	0,5
	d mm	2,2	2,8	3,3	3,9	4,3	5	5,4	6
2.Max Shock	F daN	5	3,8	3	2,4	2,1	1,8	1,6	1,3
	d mm	12	15	22	26	29	33	35	39
3.Max Vibration	2a mm	1,4	1,7	2,5	2,9	3,2	3,6	4	4,4
	f Hz	10,5	9,8	7,4	6,8	6,5	6,1	5,9	5,6
1.Max Static	F daN	2	1,5	1,2	1	0,8	0,7	0,6	0,5
	d mm	1,4	1,9	2	2,4	2,6	3	3,3	3,7
2.Max Shock	F daN	11,8	9,5	6,2	5	4,4	3,7	3,3	2,8
	d mm	5	6	6	7	8	9	10	11
3.Max Vibration	2a mm	0,6	0,8	0,7	0,8	0,9	1	1,1	1,3
	f Hz	17,4	15,3	14,7	13,5	12,8	12	11,5	10,9



SHEAR OR ROLL									
HH2 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004
1.Max Static	F daN	1,3	1	0,8	0,6	0,6	0,5	0,4	0,4
	d mm	2,2	2,7	4,2	5	5,5	6,3	6,8	7,6
2.Max Shock	F daN	6,1	4,8	2,9	2,3	2	1,7	1,5	1,3
	d mm	7	9	11	13	14	16	18	20
3.Max Vibration	2a mm	0,8	1	1,2	1,5	1,6	1,9	2	2,2
	f Hz	13,5	12,1	10,7	9,9	9,4	8,8	8,4	8
1. Max static load (F) with corresponding deflection (d) 2. Max shock load (F) with corresponding deflection (d) 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)									
*IMPORTANT: Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us									

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH3
Cable: stainless steel
Retainer bars: aluminium alloy/ SurTec
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-304	23	28	0,03
-404	25	30	0,03
-504	28	33	0,03
-604	33	38	0,03
-704	36	41	0,03
-804	38	43	0,03
-904	40	46	0,03
-1004	44	49	0,03

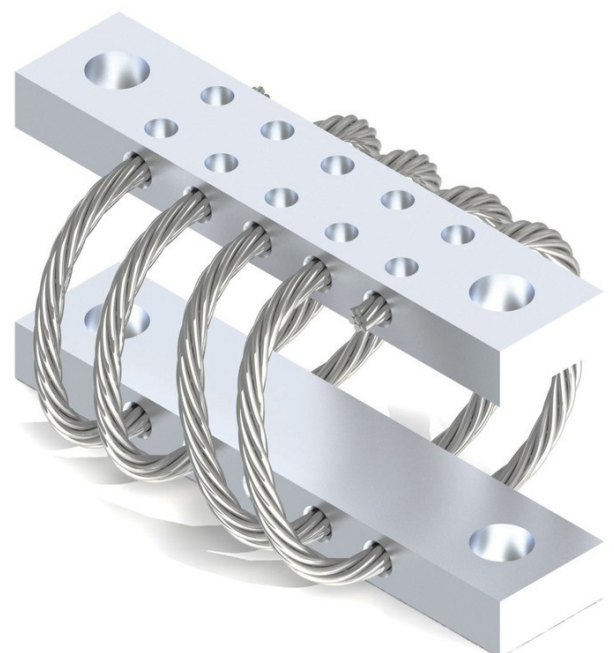
INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø5.8mm	2 through holes ø5.8mm countersunk 90°	2 x M5
Bar 2			
2 through holes ø5.8mm	TM2	not standard	not standard
2 through holes ø5.8mm countersunk 90°	TCM	CM2	not standard
2 x M5	TIM	CIM	IM2

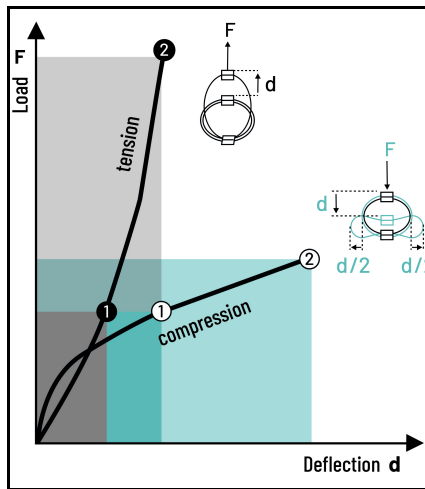
H	H	3	-	3	0	4	C	I	M
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SERIE: HH3
'Half-Helical' mount
from the HH3 series

MODEL: -304
height: 23mm
width: 28mm
weight: 0,03kg
loops: serie standard is 04
loops

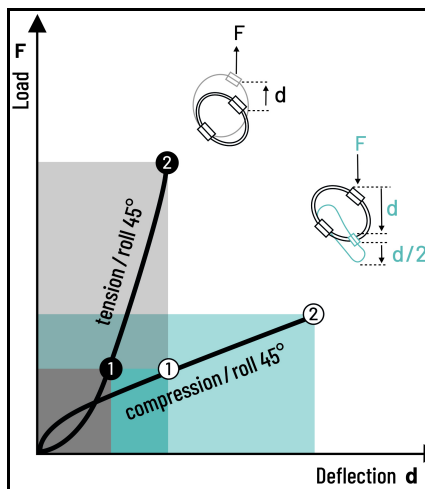
INTERFACE: CIM
2 through holes ø5.8mm
countersunk 90° in bar 1,
2 x M5 in bar 2





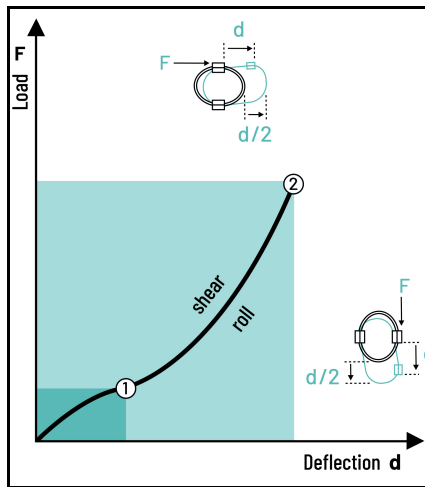
COMPRESSION AND TENSION

HH3 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004
1.Max Static	F daN	6	5	4	2,8	2,4	2,2	1,9	1,6
	d mm	1,4	1,7	2,1	2,8	3,2	3,5	4	4,4
2.Max Shock	F daN	18	15	11,9	8,5	7,1	6,4	5,6	4,8
	d mm	9	10	13	18	20	22	24	28
3.Max Vibration	2a mm	1	1,2	1,5	2	2,3	2,5	2,7	3,1
	f Hz	10,7	9,8	8,8	7,7	7,2	7	6,9	6,3
1.Max Static	F daN	6	5	4	2,8	2,4	2,2	1,9	1,6
	d mm	0,9	1,1	1,4	1,8	2,1	2,3	2,6	2,9
2.Max Shock	F daN	47,2	39,9	31,6	22,8	19,2	17,3	15,6	13,1
	d mm	3	3	4	6	7	8	9	10
3.Max Vibration	2a mm	0,4	0,4	0,5	0,7	0,8	0,9	1,1	1,2
	f Hz	21,4	19,5	17,4	15	13,9	13,3	12,5	11,9



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH3 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004
1.Max Static	F daN	4,5	3,8	3	2,1	1,8	1,6	1,4	1,2
	d mm	2	2,4	3	4	4,7	5,1	5,7	6,3
2.Max Shock	F daN	11,2	9,4	7,4	5,3	4,5	4	3,5	3
	d mm	13	16	20	27	31	34	36	42
3.Max Vibration	2a mm	1,5	1,8	2,3	3	3,4	3,7	4	4,6
	f Hz	9,2	8,5	7,7	6,7	6,3	6	5,9	5,4
1.Max Static	F daN	4,5	3,8	3	2,1	1,8	1,6	1,4	1,2
	d mm	1,2	1,4	1,8	2,4	2,8	3,1	3,5	3,9
2.Max Shock	F daN	23,2	19,5	15,5	11,2	9,4	8,5	7,7	6,4
	d mm	3	4	5	7	8	9	11	12
3.Max Vibration	2a mm	0,4	0,5	0,6	0,8	1	1	1,2	1,3
	f Hz	19	17,3	15,4	13,3	12,4	11,9	11,1	10,6



SHEAR OR ROLL

HH3 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004
1.Max Static	F daN	3	2,5	2	1,4	1,2	1,1	0,9	0,8
	d mm	2,4	2,9	3,6	5	5,8	6,3	6,8	7,9
2.Max Shock	F daN	11,9	9,8	7,6	5,3	4,4	4	3,6	3
	d mm	6	8	10	13	15	17	19	21
3.Max Vibration	2a mm	0,8	0,9	1,1	1,5	1,8	1,9	2,1	2,4
	f Hz	13,7	12,5	11,2	9,7	9	8,7	8,3	7,8

1. Max static load (F) with corresponding deflection (d)
2. Max shock load (F) with corresponding deflection (d)
3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)

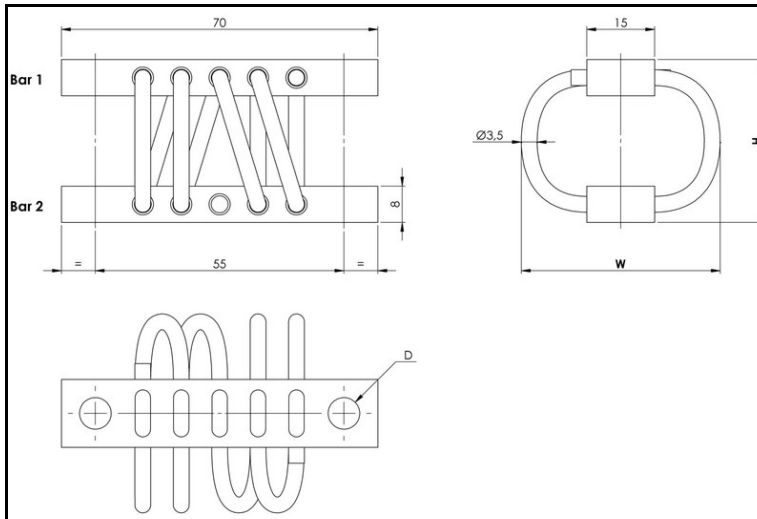
***IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C

WIRE ROPE ISOLATOR

DEFINITION
series HH4



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH4
Cable: stainless steel
Retainer bars: aluminium alloy/ SurTec
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-304	28	37	0,05
-404	30	39	0,05
-504	33	42	0,06
-604	36	44	0,06
-704	38	47	0,06
-804	41	49	0,06
-904	44	52	0,06
-1004	51	61	0,07
-1104	53	63	0,07
-1204	54	71	0,07
-1304	57	80	0,07

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes Ø7mm	2 through holes Ø7mm countersunk 90°	2 x M6
Bar 2			
2 through holes Ø7mm	TM2	not standard	not standard
2 through holes Ø7mm countersunk 90°	TCM	CM2	not standard
2 x M6	TIM	CIM	IM2

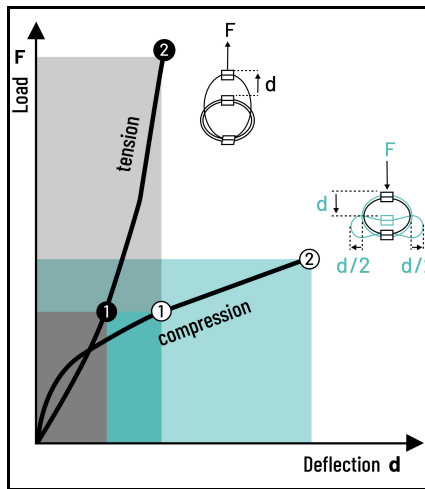
H	H	4	-	3	0	4	C	I	M
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SERIE: HH4
'Half-Helical' mount
from the HH4 series

MODEL: -304
height: 28mm
width: 37mm
weight: 0,05kg
loops: serie standard is 04
loops

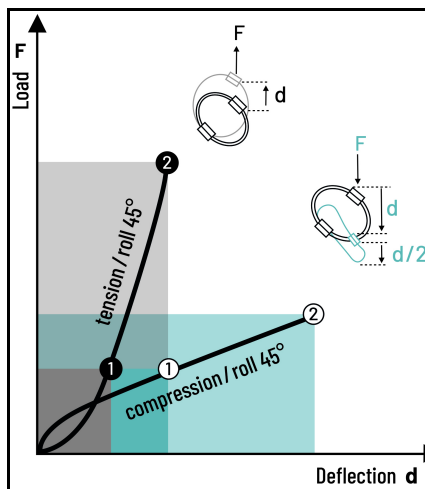
INTERFACE: CIM
2 through holes Ø7mm
countersunk 90° in bar 1,
2 x M6 in bar 2





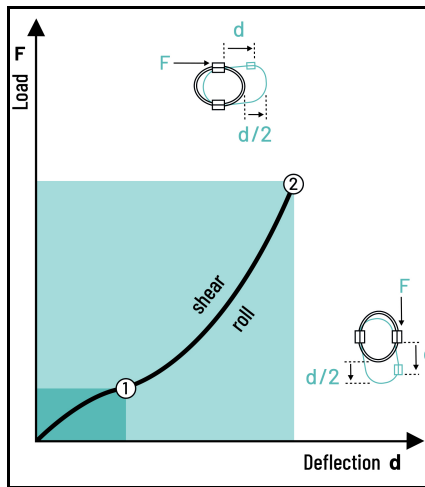
COMPRESSION AND TENSION

HH4 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	11,4	10,2	8,6	7,7	6,7	6	5,3	3,8	3,5	2,7	2,1
	d mm	1,8	2,2	2,7	3,2	3,5	3,9	4,3	5,6	6	6,1	6,6
2.Max Shock	F daN	34,2	30,4	25,8	23	20	18,1	15,9	11,4	10,6	8,1	6,2
	d mm	9	11	14	17	18	21	24	30	32	33	36
3.Max Vibration	2a mm	1,1	1,3	1,6	1,9	2,1	2,4	2,7	3,4	3,7	3,7	4
	f Hz	12,2	11,1	9,9	8,7	8,4	7,7	7,2	6,6	6,4	6,7	6,6
1.Max Static	F daN	11,4	10,2	8,6	7,7	6,7	6	5,3	3,8	3,5	2,7	2,1
	d mm	1,5	1,7	2	2,2	2,5	2,7	3	3,9	4,1	5,1	6,1
2.Max Shock	F daN	121	104	85,2	71,2	63,6	54,8	47,6	35,4	32,9	29,3	25,2
	d mm	6	7	8	8	10	10	11	15	16	23	31
3.Max Vibration	2a mm	0,8	0,8	0,9	1	1,1	1,2	1,3	1,8	1,8	2,6	3,4
	f Hz	16,7	15,7	14,4	13,8	12,9	12,5	11,8	10,3	10,1	9	8,2



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH4 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	8,6	7,6	6,4	5,8	5	4,5	4	2,8	2,6	2	1,6
	d mm	2,8	3,2	3,9	4,4	5	5,4	6,1	7,9	8,3	9,5	10,9
2.Max Shock	F daN	22,6	20	16,8	14,8	13	11,6	10,2	7,3	6,8	5,4	4,2
	d mm	14	17	21	25	28	32	36	45	48	49	54
3.Max Vibration	2a mm	1,6	1,9	2,4	2,8	3,1	3,6	4	5	5,4	5,5	5,9
	f Hz	10,3	9,4	8,4	7,5	7,2	6,6	6,2	5,6	5,4	5,6	5,6
1.Max Static	F daN	8,6	7,6	6,4	5,8	5	4,5	4	2,8	2,6	2	1,6
	d mm	2	2,2	2,6	2,9	3,3	3,5	3,9	5,5	5,4	6,7	8
2.Max Shock	F daN	60,4	52	42,4	35,3	31,6	27,1	23,6	17,5	16,2	14,6	12,7
	d mm	7	8	9	10	11	12	13	18	19	27	35
3.Max Vibration	2a mm	0,8	0,9	1,1	1,1	1,3	1,3	1,5	2	2,1	3	3,9
	f Hz	14,9	14	12,9	12,3	11,5	11,1	10,6	9,2	9	8	7,3



SHEAR OR ROLL

HH4 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	5,7	5,1	4,3	3,8	3,3	3	2,6	1,9	1,8	1,4	1
	d mm	2,4	2,8	3,6	4,4	4,9	5,7	6,5	8,3	8,8	9,1	10
2.Max Shock	F daN	34,1	28,4	22,4	18,1	16,1	13,5	11,6	8,4	7,8	7	6
	d mm	7	8	9	10	11	12	13	18	19	27	35
3.Max Vibration	2a mm	0,8	0,9	1,1	1,1	1,3	1,3	1,5	2	2,1	3	3,9
	f Hz	14,9	14	12,9	12,3	11,5	11,1	10,6	9,2	9	8	7,3

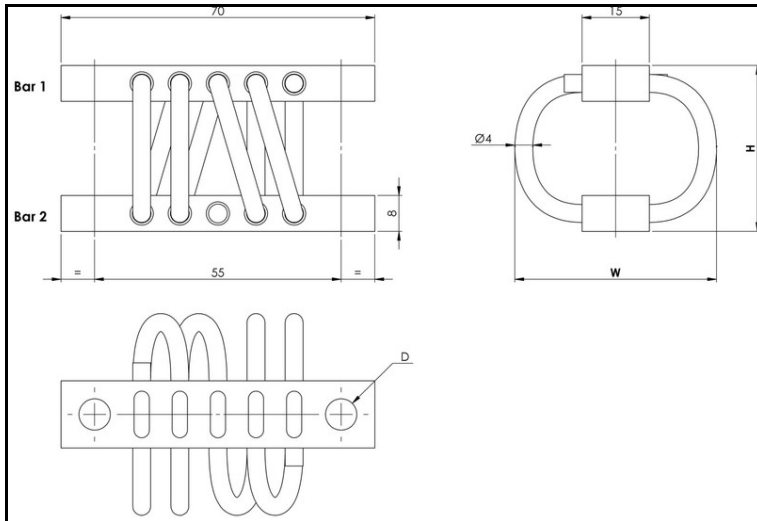
1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C

WIRE ROPE ISOLATOR

DEFINITION
series HH5



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH5
Cable: stainless steel
Retainer bars: aluminium alloy/ SurTec
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-304	29	38	0,06
-404	31	40	0,06
-504	34	43	0,06
-604	37	45	0,06
-704	39	48	0,07
-804	42	50	0,07
-904	45	53	0,07
-1004	52	62	0,08
-1104	54	64	0,08
-1204	54	72	0,08
-1304	58	81	0,08

INTERFACES	Bar 1		
fixtures holes D	2 through holes ø7mm	2 through holes ø7mm countersunk 90°	2 x M6
Bar 2			
2 through holes ø7mm	TM2	not standard	not standard
2 through holes ø7mm countersunk 90°	TCM	CM2	not standard
2 x M6	TIM	CIM	IM2

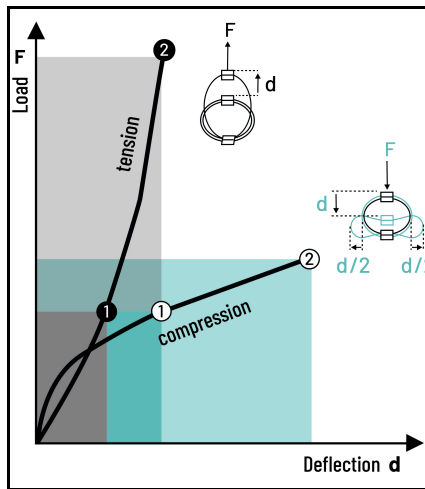
H	H	5	-	3	0	4	C	I	M
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SERIE: HH5
'Half-Helical' mount
from the HH5 series

MODEL: -304
height: 29mm
width: 38mm
weight: 0,06kg
loops: serie standard is 04
loops

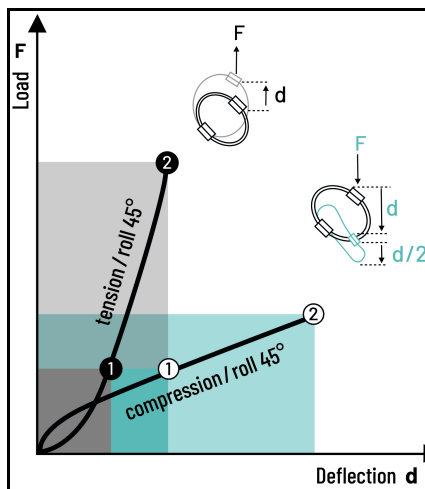
INTERFACE: CIM
2 through holes ø7mm
countersunk 90° in bar 1,
2 x M6 in bar 2





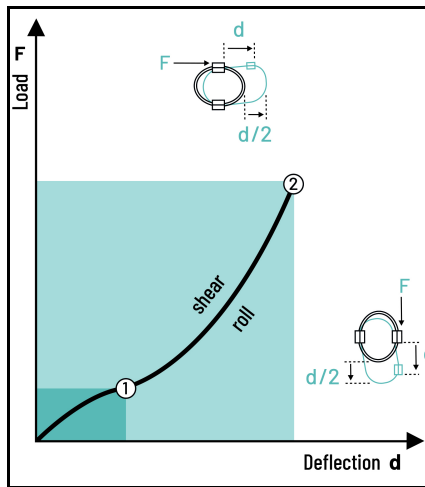
COMPRESSION AND TENSION

HH5 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	19,8	17,6	14,9	13,3	11,6	10,5	9,2	6,7	6,2	4,8	3,7
	d mm	2	2,3	2,8	3,2	3,6	4	4,4	5,7	6	6,1	6,8
2.Max Shock	F daN	59,2	52,8	44,4	39,9	34,8	31,4	27,6	20	18,7	14,2	11
	d mm	10	12	15	18	19	22	25	31	33	33	36
3.Max Vibration	2a mm	1,2	1,4	1,7	2	2,2	2,5	2,8	3,5	3,7	3,7	4,1
	f Hz	11,5	10,5	9,4	8,4	8,1	7,5	7	6,4	6,2	6,7	6,5
1.Max Static	F daN	19,8	17,6	14,9	13,3	11,6	10,5	9,2	6,7	6,2	4,8	3,7
	d mm	1,5	1,7	2	2,2	2,5	2,7	3	3,9	4,1	6,1	6,1
2.Max Shock	F daN	200	173	142	120	107	93,2	81,2	61,2	56,8	14,2	43,6
	d mm	6	7	8	8	10	10	11	15	16	33	30
3.Max Vibration	2a mm	0,7	0,8	0,9	1	1,1	1,2	1,3	1,7	1,8	3,7	3,4
	f Hz	16,5	15,5	14,3	13,8	12,8	12,4	11,8	10,3	10	6,7	8,2



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH5 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	14,9	13,2	11,2	10	8,7	7,9	6,9	5	4,7	4,8	2,8
	d mm	3	3,4	4	4,5	5,1	5,6	6,2	8	8,4	5,1	11
2.Max Shock	F daN	39	34,4	29	25,6	22,4	20,1	17,6	12,8	12	52	7,4
	d mm	16	18	22	27	29	33	37	47	49	24	55
3.Max Vibration	2a mm	1,8	2,1	2,5	3	3,3	3,7	4,2	5,2	5,5	2,6	6,1
	f Hz	9,7	8,9	8	7,2	7	6,4	6	5,5	5,3	9	5,5
1.Max Static	F daN	14,9	13,2	11,2	10	8,7	7,9	6,9	5	4,7	3,6	2,8
	d mm	2	2,3	2,7	2,9	3,3	3,6	4	5,2	5,5	9,4	8
2.Max Shock	F daN	99,6	86	70,8	59,2	53,2	46	40	30,2	28,2	9,4	22
	d mm	7	8	9	9	11	12	13	18	18	49	35
3.Max Vibration	2a mm	0,8	0,9	1,1	1,1	1,3	1,3	1,5	2	2,1	5,5	3,9
	f Hz	14,8	13,8	12,8	12,3	11,4	11,1	10,5	9,2	9	5,7	7,3



SHEAR OR ROLL

HH5 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	9,9	8,8	7,4	6,6	5,8	5,2	4,6	3,3	3,1	2,4	1,8
	d mm	2,6	3,1	3,9	4,7	5,2	6	6,8	8,6	9,1	9,1	10,2
2.Max Shock	F daN	54,8	46,4	37	30,2	26,9	22,7	19,6	14,6	13,4	12,4	10,3
	d mm	10	11	13	15	17	18	20	27	28	33	40
3.Max Vibration	2a mm	1,1	1,3	1,5	1,7	1,9	2,1	2,3	3	3,4	3,7	4,4
	f Hz	11,8	11	10,1	9,4	8,9	8,5	8	7,1	6,9	6,6	6,1

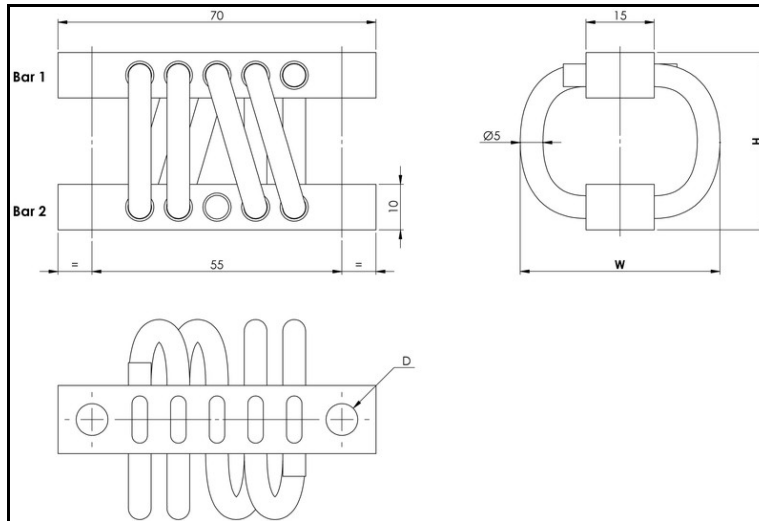
1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C

WIRE ROPE ISOLATOR

DEFINITION
series HH6



Dimensions are in millimeters. For reference only

- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

SERIES
Materials and finishes (meets RoHS requirements)
HH6
Cable: stainless steel
Retainer bars: aluminium alloy/ SurTec
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-304	31	37	0,07
-404	34	39	0,08
-504	37	42	0,08
-604	39	44	0,08
-704	42	47	0,09
-804	44	49	0,09
-904	51	58	0,10
-1004	52	63	0,10
-1104	55	74	0,11
-1204	57	80	0,11
-1304	81	107	0,14

INTERFACES	Bar 1	Bar 2
fixtures holes D	2 through holes ø7mm	2 through holes ø7mm countersunk 90°
Bar 2	2 through holes ø7mm	2 inserts M6
2 through holes ø7mm	TM2	not standard
2 through holes ø7mm countersunk 90°	TCM	CM2
2 inserts M6	TIM	CIM

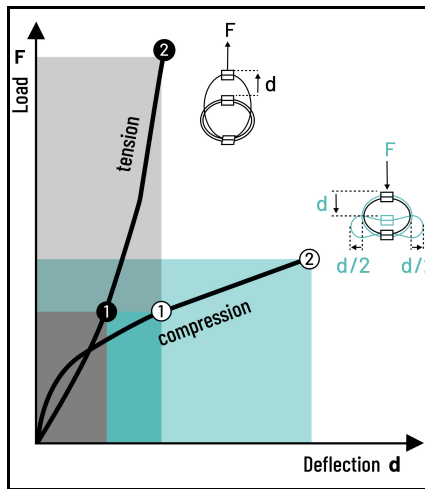
H	H	6	-	3	0	4	C	I	M
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SERIE: HH6
'Half-Helical' mount
from the HH6 series

MODEL: -304
height: 31mm
width: 37mm
weight: 0,07kg
loops: serie standard is 04
loops

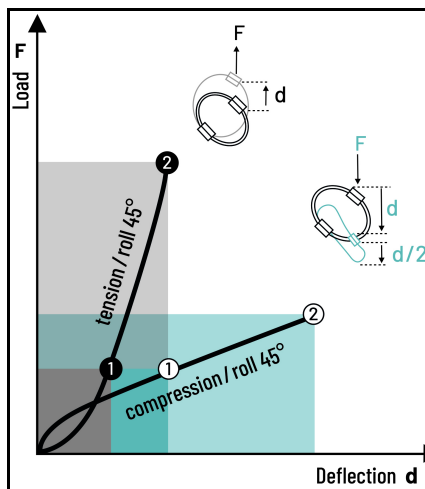
INTERFACE: CIM
2 through holes ø7mm
countersunk 90° in bar 1,
2 inserts M6 in bar 2





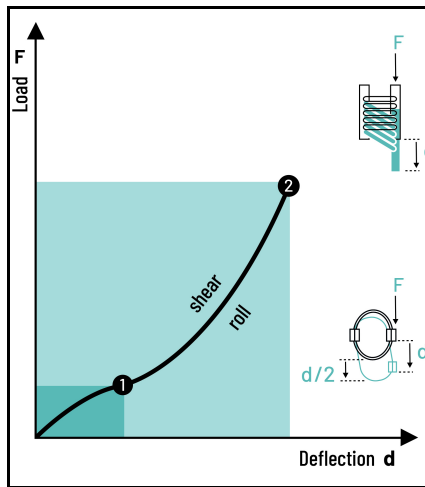
COMPRESSION AND TENSION

HH6 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	40,4	38,3	30,8	27,8	24	21,9	15,5	13,1	9	7,6	4,4
	d mm	1,7	2,1	2,5	2,8	3,2	3,5	4,8	5,3	5,6	6	10
2.Max Shock	F daN	121	108	92,4	83,2	72	65,6	46,4	39,4	27,1	22,9	13,4
	d mm	9	11	14	16	18	20	27	28	30	32	54
3.Max Vibration	2a mm	1	1,3	1,6	1,8	2,1	2,3	3	3,2	3,4	3,6	5,9
	f Hz	12,4	10,4	9,3	8,7	8	7,6	6,9	6,9	7,2	7	5,3
1.Max Static	F daN	40,4	36,3	30,8	27,8	24	21,9	15,5	13,1	9	7,6	4,4
	d mm	1,2	1,4	1,7	1,9	2,2	2,4	3,3	3,9	5,1	5,8	8,7
2.Max Shock	F daN	397	324	271	243	208	189	140	127	108	98	50,8
	d mm	5	5	6	7	8	9	13	16	25	31	42
3.Max Vibration	2a mm	0,6	0,6	0,7	0,8	0,9	1	1,4	1,8	2,9	3,4	4,6
	f Hz	18,4	17,2	15,6	14,8	13,8	13,2	11,2	10,4	8,9	8,4	6,9



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH6 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	30,5	27,2	23,1	20,8	18	16,4	11,6	9,8	6,8	5,7	3,3
	d mm	2,4	2,9	3,5	3,9	4,6	5	6,8	7,6	9,2	10	15,9
2.Max Shock	F daN	79,2	69,6	58,8	52,8	45,6	41,6	29,8	25,6	18,3	15,6	8,9
	d mm	13	17	21	24	28	31	40	43	45	48	81
3.Max Vibration	2a mm	1,5	1,9	2,4	2,7	3,1	3,4	4,5	4,8	5	5,4	8,9
	f Hz	10,5	8,9	8	7,5	6,9	6,6	5,9	5,9	6	5,9	4,5
1.Max Static	F daN	30,5	27,2	23,1	20,8	18	16,4	11,6	9,8	6,8	5,7	3,3
	d mm	1,6	1,9	2,2	2,5	2,9	3,1	4,4	5,1	6,7	7,5	11,4
2.Max Shock	F daN	197	160	133	119	102	93,2	69,2	63,2	54,4	49,2	25,5
	d mm	5	6	7	8	9	10	14	18	29	35	48
3.Max Vibration	2a mm	0,6	0,7	0,8	0,9	1	1,1	1,6	2,1	3,3	3,9	5,3
	f Hz	16,5	15,3	13,9	13,2	12,3	11,8	10	9,2	8	7,5	6,1



SHEAR OR ROLL

HH6 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	-1104	-1204	-1304
1.Max Static	F daN	20,3	18,2	15,4	13,9	12	11	7,8	6,6	4,5	3,8	2,2
	d mm	2	2,8	3,6	4,1	1,8	5,4	7,1	7,6	8,2	8,8	15
2.Max Shock	F daN	117	89,2	71,6	62,8	52,8	47,2	34,4	31,5	26,5	23,6	11,9
	d mm	8	9	11	13	15	16	22	26	33	38	57
3.Max Vibration	2a mm	0,9	1,1	1,3	1,5	1,7	1,8	2,5	2,9	3,7	4,2	6,3
	f Hz	13	11,7	10,6	10	9,3	8,9	7,7	7,3	6,7	6,4	5,1

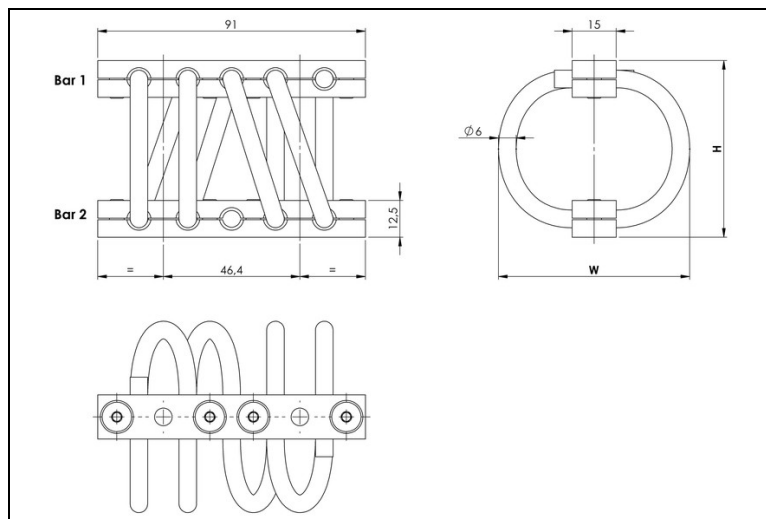
1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C

WIRE ROPE ISOLATOR

DEFINITION
series HH8



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH8
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL			
	height H (mm)	width W (mm)	weight (kg)
-10	45	54	0,16
-20	51	61	0,17
-25	56	69	0,18
-30	60	78	0,20
-35	60	87	0,21
-38	64	93	0,21
-40	64	98	0,22
-50	79	106	0,24
-60	95	127	0,28

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø7mm	2 through holes ø7mm countersunk 90°	2 inserts M6
Bar 2			
2 through holes ø7mm	TM2	not standard	not standard
2 through holes ø7mm countersunk 90°	TCM	CM2	not standard
2 inserts M6	TIM	CIM	IM2

H	H	8	-	1	0	C	I	M
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SERIE: HH8

'Half-Helical' mount
from the HH8 series

MODEL: -10

height: 45mm

width: 54mm

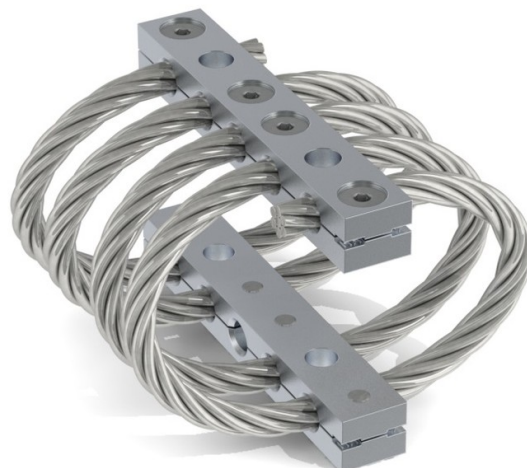
weight: 0,16kg

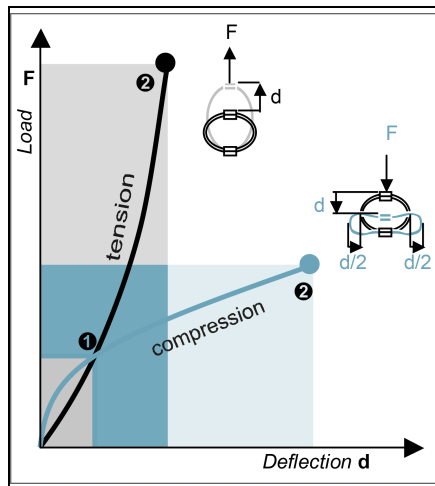
loops: serie

standard is 04 loops

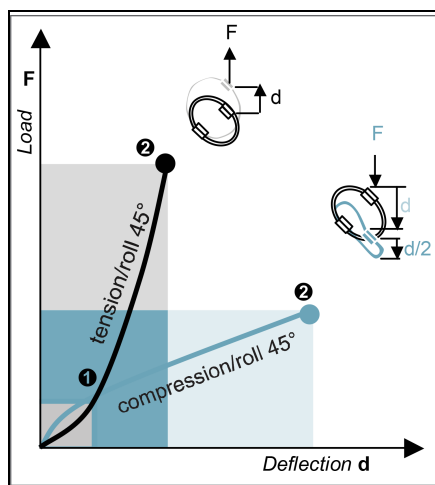
INTERFACE: CIM

2 through holes ø7mm
countersunk 90° in bar 1,
2 inserts M6 in bar 2

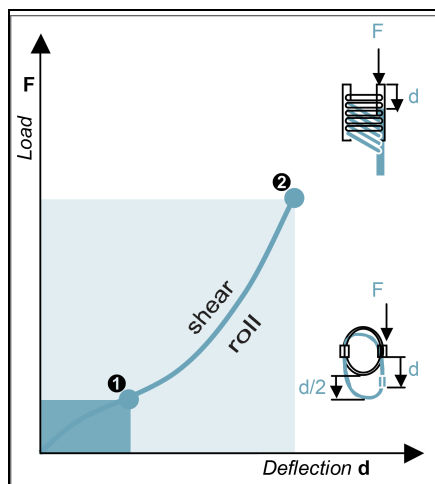




COMPRESSION AND TENSION										
HH8 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	36,7	28,8	22,3	17,2	14,0	11,7	10,9	9,6	7,1
	d mm	3,3	4,3	5,2	5,8	5,8	6,5	6,5	9,0	11,6
2. Max Shock	F daN	110	86,5	66,9	51,5	42,1	35,2	32,7	28,7	21,3
	d mm	18	23	27	31	31	35	35	48	63
3. Max Vibration	2a mm	2,0	2,6	3,1	3,5	3,5	3,9	3,9	5,4	6,9
	f Hz	9,2	8,0	7,4	7,1	7,3	6,9	7,0	5,7	5,0
1. Max Static	F daN	36,7	28,8	22,3	17,2	14,0	11,7	10,9	9,6	7,1
	d mm	2,9	3,6	4,4	5,4	5,8	6,5	6,5	8,4	10,5
2. Max Shock	F daN	415	315	253	212	202	175	126	119	84,8
	d mm	13	16	21	28	36	42	40	44	52
3. Max Vibration	2a mm	1,5	1,8	2,4	3,1	4,0	4,7	4,5	4,9	5,8
	f Hz	12,0	10,7	9,6	8,6	8,0	7,5	7,5	6,9	6,2



COMPRESSION/ROLL 45° - TENSION/ROLL 45°										
HH8 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	27,6	21,6	16,7	12,9	10,5	8,8	8,2	7,2	5,3
	d mm	5,3	6,7	8,2	9,6	10,2	11,5	11,7	14,9	18,9
2. Max Shock	F daN	73,7	57,5	44,7	34,9	29,2	24,5	22,9	19,5	14,4
	d mm	27	35	41	47	47	52	52	72	94
3. Max Vibration	2a mm	3,0	3,9	4,6	5,2	5,2	5,8	5,8	8,0	10,4
	f Hz	7,8	6,8	6,2	6,0	6,1	5,8	5,8	4,8	4,2
1. Max Static	F daN	27,6	21,6	16,7	12,9	10,5	8,8	8,2	7,2	5,3
	d mm	3,7	4,7	5,8	7,1	7,9	8,9	9,2	11,0	13,7
2. Max Shock	F daN	208	157	126	106	102	88,9	66,2	60,2	42,6
	d mm	15	19	24	32	41	48	46	50	60
3. Max Vibration	2a mm	1,7	2,1	2,7	3,5	4,6	5,3	5,2	5,6	6,7
	f Hz	10,7	9,6	8,6	7,7	7,2	6,7	6,8	6,2	5,6



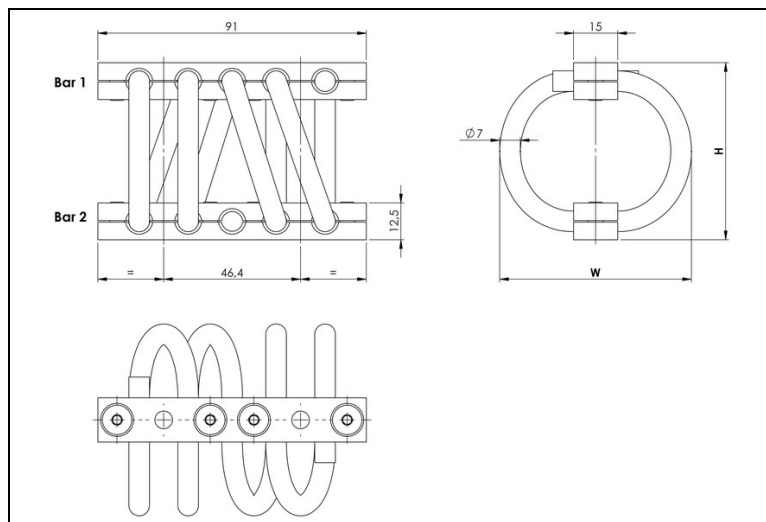
SHEAR OR ROLL										
HH8 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	18,4	14,4	11,1	8,6	7,0	5,9	5,4	4,8	3,6
	d mm	4,4	5,9	7,2	8,4	8,6	9,8	9,9	13,5	17,6
2. Max Shock	F daN	112	81,9	64,1	52,5	48,8	41,4	34,7	28,3	19,8
	d mm	18	23	29	35	41	47	46	56	69
3. Max Vibration	2a mm	2,1	2,6	3,2	3,9	4,6	5,3	5,2	6,2	7,6
	f Hz	8,8	7,8	7,1	6,5	6,2	5,9	5,9	5,2	4,7
1. Max static load (F) with corresponding deflection (d) 2. Max shock load (F) with corresponding deflection (d) 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)										
*IMPORTANT: Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us										

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C

WIRE ROPE ISOLATOR

DEFINITION
series HH9



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH9
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL			
	height H (mm)	width W (mm)	weight (kg)
-10	45	56	0,18
-20	51	63	0,19
-25	56	71	0,21
-30	60	80	0,22
-35	60	89	0,23
-38	64	95	0,25
-40	64	100	0,25
-50	79	108	0,28
-60	95	128	0,32

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø7mm	2 through holes ø7mm counter-sunk 90°	2 inserts M6
Bar 2			
2 through holes ø7mm	TM2	not standard	not standard
2 through holes ø7mm counter-sunk 90°	TCM	CM2	not standard
2 inserts M6	TIM	CIM	IM2

H	H	9	-	1	0	C	I	M
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SERIE: HH9

'Half-Helical' mount
from the HH9 series

MODEL: -10

height: 45mm

width: 56mm

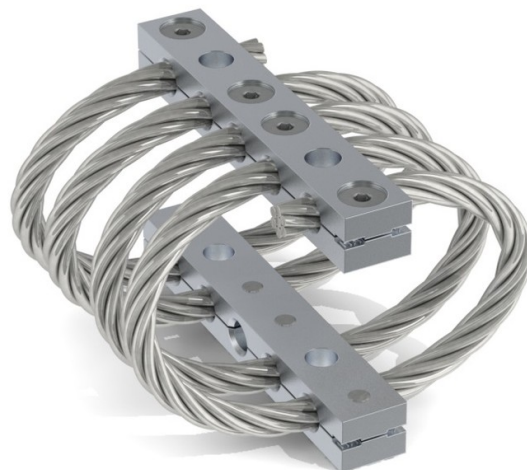
weight: 0,18kg

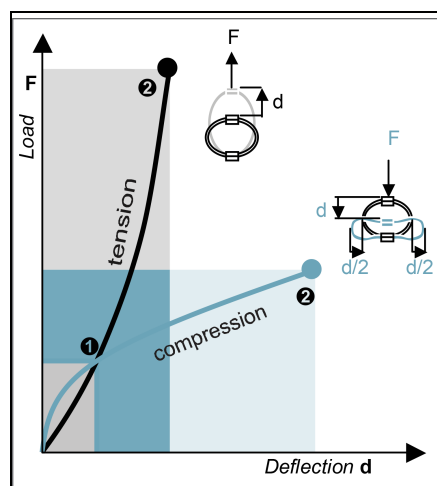
loops: serie

standard is 04 loops

INTERFACE: CIM

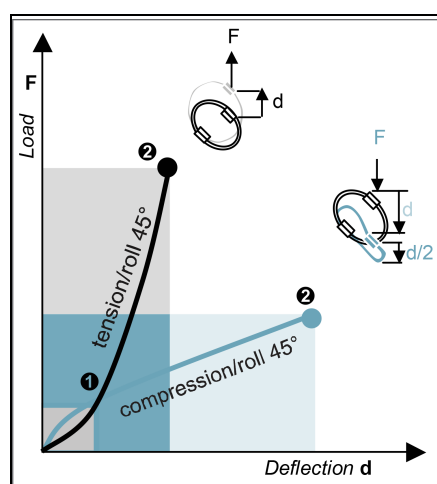
2 through holes Ø7mm
counter-sunk 90° in bar 1,
2 inserts M6 in bar 2





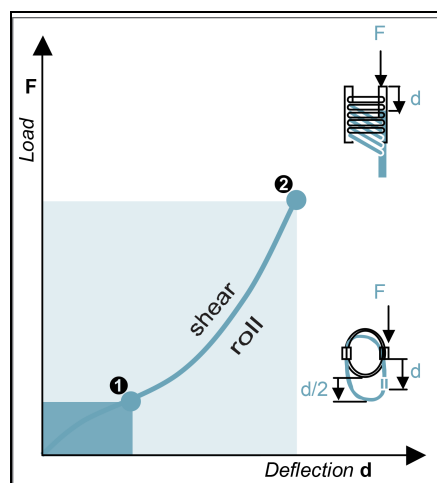
COMPRESSION AND TENSION

HH9 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	56,2	43,8	33,7	25,9	20,0	17,6	15,6	14,3	10,4
	d mm	3,3	4,3	5,2	5,8	5,8	6,5	6,5	9,0	11,6
2. Max Shock	F daN	168	131	101	77,8	60,0	53,0	46,8	43,0	31,4
	d mm	18	23	27	31	31	35	35	48	63
3. Max Vibration	2a mm	2,0	2,6	3,1	3,5	3,5	3,9	3,9	5,4	6,9
	f Hz	9,2	8,0	7,4	7,1	7,3	6,9	7,0	5,7	5,0
1. Max Static	F daN	56,2	43,8	33,7	25,9	20,0	17,6	15,6	14,3	10,4
	d mm	2,8	3,5	4,4	5,3	5,8	6,5	6,5	8,4	10,5
2. Max Shock	F daN	619	470	376	315	297	259	171	177	125
	d mm	13	16	20	27	37	41	40	43	53
3. Max Vibration	2a mm	1,4	1,8	2,3	3,0	4,2	4,6	4,5	4,8	5,9
	f Hz	12,2	10,8	9,7	8,7	7,9	7,5	7,4	7,0	6,2



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH9 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	42,1	32,9	25,3	19,4	15,0	13,2	11,7	10,7	7,8
	d mm	5,2	6,6	8,1	9,5	10,3	11,4	11,7	14,8	18,9
2. Max Shock	F daN	112	87,0	67,5	52,6	41,8	36,8	32,9	29,2	21,2
	d mm	27	35	41	47	47	52	52	72	94
3. Max Vibration	2a mm	3,0	3,9	4,6	5,2	5,2	5,8	5,8	8,0	10,4
	f Hz	7,7	6,7	6,2	5,9	6,1	5,8	5,8	4,8	4,2
1. Max Static	F daN	42,1	32,9	25,3	19,4	15,0	13,2	11,7	10,7	7,8
	d mm	3,6	4,6	5,7	7,0	8,0	8,8	9,3	10,9	13,8
2. Max Shock	F daN	309	234	188	158	150	131	90,1	89,3	62,9
	d mm	15	18	23	31	43	47	46	49	60
3. Max Vibration	2a mm	1,6	2,0	2,6	3,4	4,8	5,2	5,2	5,5	6,7
	f Hz	10,9	9,7	8,7	7,8	7,1	6,8	6,7	6,2	5,6



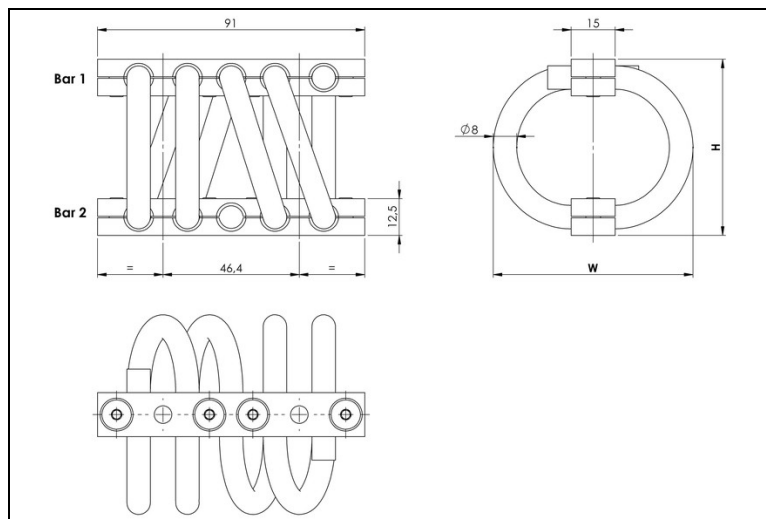
SHEAR OR ROLL

HH9 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	28,1	21,9	16,9	13,0	10,0	8,8	7,8	7,2	5,2
	d mm	4,4	5,9	7,2	8,4	8,7	9,8	10,0	13,4	17,6
2. Max Shock	F daN	167	121	95,5	78,2	71,2	61,6	48,6	42,1	29,2
	d mm	18	23	28	35	42	47	46	55	69
3. Max Vibration	2a mm	2,0	2,6	3,2	3,9	4,7	5,2	5,2	6,1	7,7
	f Hz	8,9	7,9	7,1	6,6	6,2	5,9	5,9	5,3	4,7

1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH10
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL			
	height H (mm)	width W (mm)	weight (kg)
-10	45	58	0,21
-20	51	65	0,23
-25	56	73	0,25
-30	60	82	0,27
-35	60	91	0,29
-38	64	97	0,30
-40	64	102	0,31
-50	79	110	0,35
-60	95	129	0,40

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø7mm	2 through holes ø7mm countersunk 90°	2 inserts M6
Bar 2			
2 through holes ø7mm	TM2	not standard	not standard
2 through holes ø7mm countersunk 90°	TCM	CM2	not standard
2 inserts M6	TIM	CIM	IM2

H	H	1	0	-	1	0	C	I	M
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SERIE: HH10

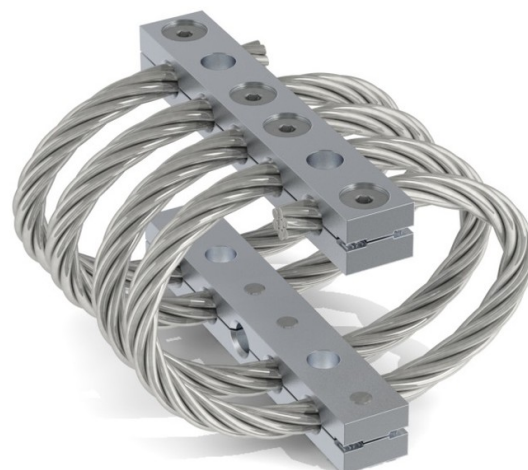
'Half-Helical' mount from
the HH10 series

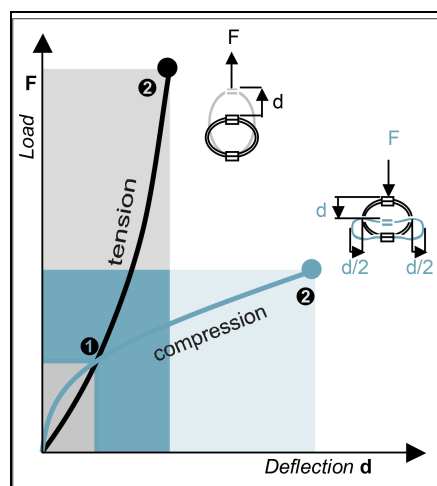
MODEL: -10

height: 45mm
width: 58mm
weight: 0,21kg
loops: serie
standard is 04 loops

INTERFACE: CIM

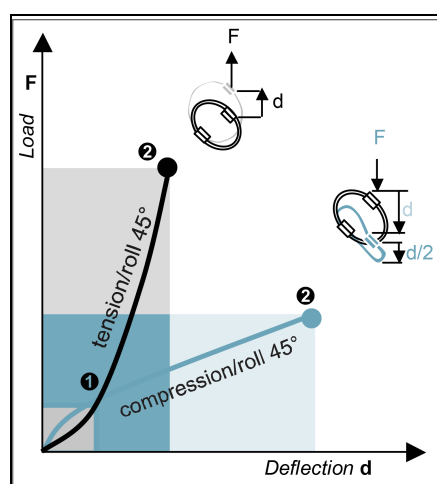
2 through holes Ø7mm
countersunk 90° in bar 1,
2 inserts M6 in bar 2





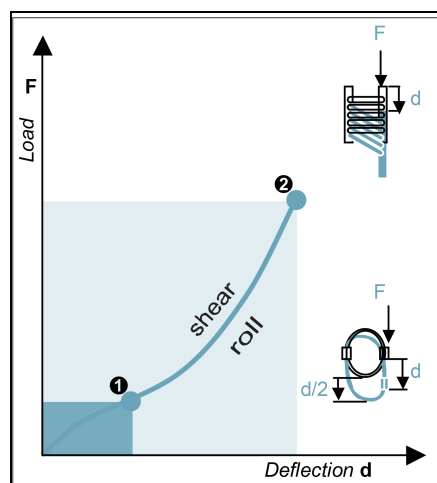
COMPRESSION AND TENSION

HH10 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	92,1	71,8	55,3	42,5	31,9	28,9	25,0	23,5	17,1
	d mm	3,3	4,3	5,2	5,8	5,8	6,5	6,5	9,0	11,6
2. Max Shock	F daN	276	215	165	127	95,6	86,8	74,9	70,4	51,4
	d mm	18	23	27	31	31	35	35	48	63
3. Max Vibration	2a mm	2,0	2,6	3,1	3,5	3,5	3,9	3,9	5,4	6,9
	f Hz	9,2	8,0	7,4	7,1	7,3	6,9	7,0	5,7	5,0
1. Max Static	F daN	92,1	71,8	55,3	42,5	31,9	28,9	25,0	23,5	17,1
	d mm	2,8	3,5	4,4	5,3	5,8	6,5	6,5	8,4	10,5
2. Max Shock	F daN	1015	770	617	516	484	425	263	290	205
	d mm	13	16	20	27	39	41	40	43	53
3. Max Vibration	2a mm	1,4	1,8	2,3	3,0	4,3	4,6	4,5	4,8	5,9
	f Hz	12,2	10,8	9,7	8,7	7,8	7,5	7,4	7,0	6,2



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH10 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	69,0	53,9	41,5	31,9	23,9	21,7	18,7	17,6	12,8
	d mm	5,2	6,6	8,1	9,5	10,3	11,4	11,8	14,8	18,9
2. Max Shock	F daN	183	142	110	86,2	66,8	60,3	52,8	47,8	34,7
	d mm	27	35	41	47	47	52	52	72	94
3. Max Vibration	2a mm	3,0	3,9	4,6	5,2	5,2	5,8	5,8	8,0	10,4
	f Hz	7,7	6,7	6,2	5,9	6,1	5,8	5,8	4,8	4,2
1. Max Static	F daN	69,0	53,9	41,5	31,9	23,9	21,7	18,7	17,6	12,8
	d mm	3,6	4,6	5,7	7,0	8,1	8,8	9,4	10,9	13,8
2. Max Shock	F daN	507	384	309	259	246	215	139	146	103
	d mm	15	18	23	31	44	47	46	49	60
3. Max Vibration	2a mm	1,6	2,0	2,6	3,4	4,9	5,2	5,2	5,5	6,7
	f Hz	10,9	9,7	8,7	7,8	7,0	6,8	6,7	6,2	5,6



SHEAR OR ROLL

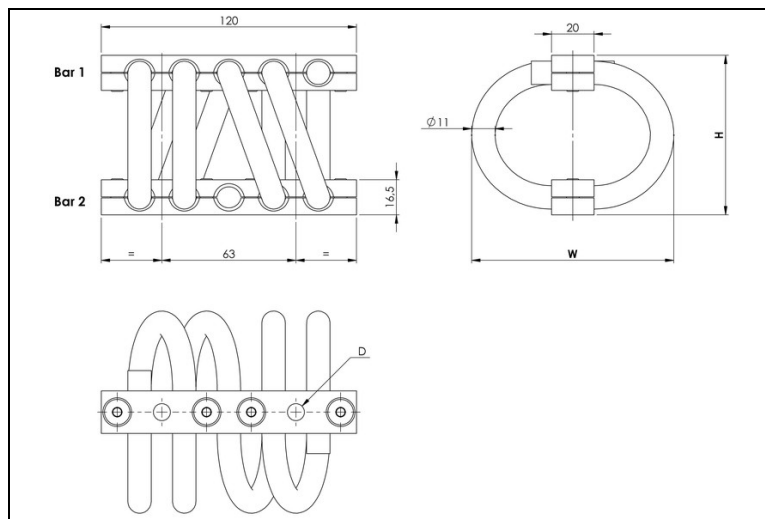
HH10 Series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
1. Max Static	F daN	46,0	35,9	27,6	21,2	15,9	14,5	12,5	11,7	8,6
	d mm	4,4	5,9	7,2	8,4	8,7	9,8	10,1	13,4	17,6
2. Max Shock	F daN	273	199	156	128	115	100	76,4	69,0	47,9
	d mm	18	23	28	35	43	47	46	55	69
3. Max Vibration	2a mm	2,0	2,6	3,2	3,9	4,8	5,2	5,2	6,1	7,7
	f Hz	8,9	7,9	7,1	6,6	6,2	5,9	5,9	5,3	4,7

1. Max static load (F) with corresponding deflection (d)
2. Max shock load (F) with corresponding deflection (d)
3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)

***IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH11
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL			
	height H (mm)	width W (mm)	weight (kg)
-12	68	83	0,53
-15	71	87	0,55
-20	74	93	0,58
-30	77	107	0,62
-35	89	111	0,67
-40	105	124	0,76
-50	108	143	0,82
-60	124	146	0,88
-70	134	156	0,94
-80	155	183	1,1

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø8,5mm	2 through holes ø8,5mm countersunk 90°	2 inserts M8
Bar 2			
2 through holes ø8,5mm	TM2	not standard	not standard
2 through holes ø8,5mm countersunk 90°	TCM	CM2	not standard
2 inserts M8	TIM	CIM	IM2

H	H	1	1	-	1	2	C	I	M
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SERIE: HH11

'Half-Helical' mount from
the HH11 series

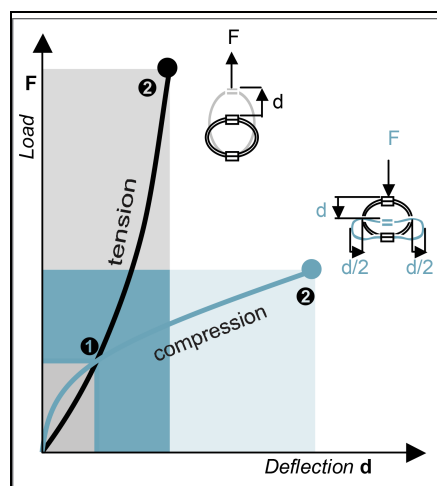
MODEL: -12

height: 68mm
width: 83mm
weight: 0,53kg
loops: serie
standard is 04 loops

INTERFACE: CIM

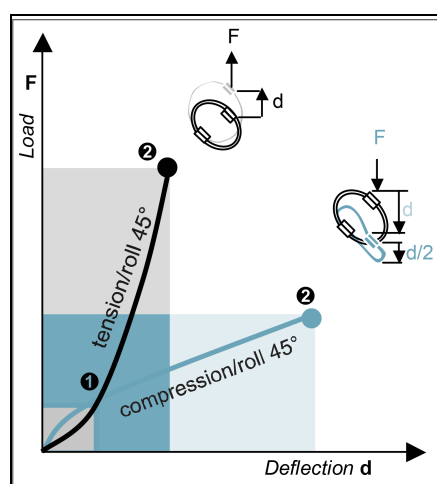
2 through holes ø8,5mm
countersunk 90° in bar 1,
2 inserts M8 in bar 2





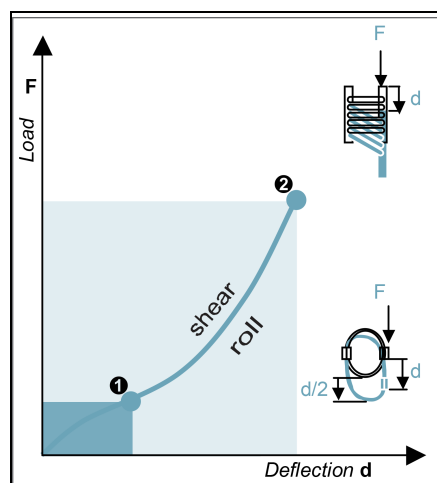
COMPRESSION AND TENSION

HH11 Series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70	-80
1. Max Static	F daN	176	158	135	96,8	93,6	75,6	55,3	54,6	48,1	35,3
	d mm	5,8	6,3	6,8	7,3	9,3	12,0	12,4	15,1	16,8	20,3
2. Max Shock	F daN	528	475	407	290	280	226	165	163	144	105
	d mm	31	34	36	39	50	64	67	81	90	109
3. Max Vibration	2a mm	3,5	3,8	4,1	4,4	5,5	7,1	7,4	9,0	10,0	12,1
	f Hz	6,7	6,4	6,3	6,4	5,4	4,6	4,8	4,1	3,8	3,5
1. Max Static	F daN	176	158	135	96,8	93,6	75,6	55,3	54,6	48,1	35,3
	d mm	4,4	4,8	5,4	6,9	7,3	8,6	10,8	10,8	11,8	14,7
2. Max Shock	F daN	1755	1591	1426	1225	972	724	632	523	455	342
	d mm	18	20	24	36	32	35	52	45	48	62
3. Max Vibration	2a mm	2,1	2,3	2,7	4,0	3,6	3,9	5,8	5,0	5,4	6,8
	f Hz	9,8	9,3	8,7	7,6	7,5	7,0	6,2	6,2	5,9	5,3



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH11 Series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70	-80
1. Max Static	F daN	132	118	101	72,6	70,2	56,7	41,5	41,0	36,0	26,5
	d mm	8,5	9,3	10,3	12,2	14,0	17,0	19,8	21,6	23,6	29,1
2. Max Shock	F daN	345	310	268	197	184	147	111	106	93,2	68,8
	d mm	47	51	55	59	75	97	101	122	136	164
3. Max Vibration	2a mm	5,2	5,6	6,1	6,5	8,3	10,7	11,1	13,5	15,0	18,1
	f Hz	5,7	5,5	5,3	5,3	4,5	3,9	4,0	3,5	3,3	3,0
1. Max Static	F daN	132	118	101	72,6	70,2	56,7	41,5	41,0	36,0	26,5
	d mm	5,8	6,3	7,2	9,0	9,7	11,3	14,2	14,4	15,7	19,5
2. Max Shock	F daN	872	791	711	617	484	359	316	259	225	169
	d mm	21	23	28	42	37	40	60	51	55	70
3. Max Vibration	2a mm	2,4	2,6	3,1	4,6	4,1	4,5	6,6	5,7	6,2	7,8
	f Hz	8,7	8,3	7,8	6,8	6,7	6,2	5,5	5,5	5,3	4,7



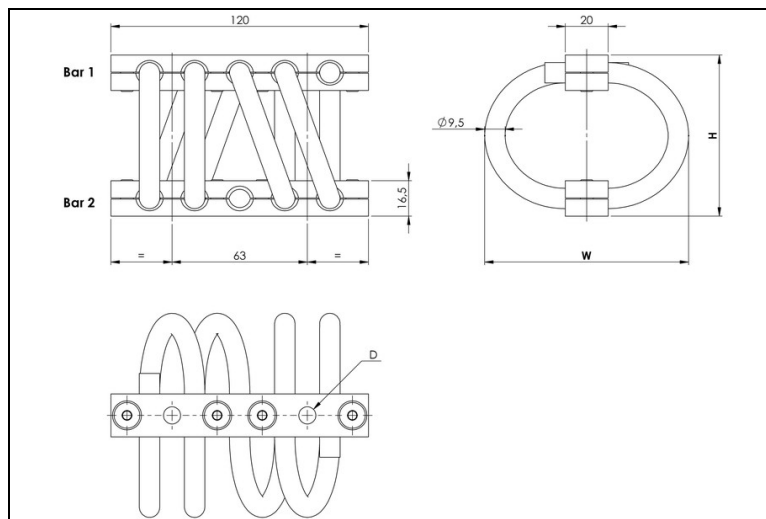
SHEAR OR ROLL

HH11 Series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70	-80
1. Max Static	F daN	88,1	79,2	67,8	48,4	46,8	37,8	27,6	27,3	24,0	17,6
	d mm	8,0	8,8	9,6	10,5	13,4	17,6	18,5	22,6	25,2	30,7
2. Max Shock	F daN	452	406	361	304	238	172	150	122	105	78,8
	d mm	29	31	36	46	48	57	71	73	80	99
3. Max Vibration	2a mm	3,2	3,5	4,0	5,1	5,4	6,4	7,8	8,1	8,8	10,9
	f Hz	6,9	6,6	6,3	5,8	5,4	4,9	4,6	4,4	4,1	3,8

1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH13
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL				
	height H (mm)	width W (mm)	weight (kg)	
-12	68	80	0,45	
-15	71	84	0,46	
-20	74	90	0,48	
-30	77	104	0,52	
-35	89	108	0,55	
-40	105	121	0,62	
-50	108	140	0,66	
-60	124	143	0,70	
-70	134	153	0,75	
-80	155	180	0,85	
-90	166	186	0,89	

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø8,5mm	2 through holes ø8,5mm countersunk 90°	2 inserts M8
Bar 2			
2 through holes ø8,5mm	TM2	not standard	not standard
2 through holes ø8,5mm countersunk 90°	TCM	CM2	not standard
2 inserts M8	TIM	CIM	IM2

H	H	1	3	-	1	2	C	I	M
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SERIE: HH13

'Half-Helical' mount from
the HH13 series

MODEL: -12

height: 68mm

width: 80mm

weight: 0,45kg

loops: serie

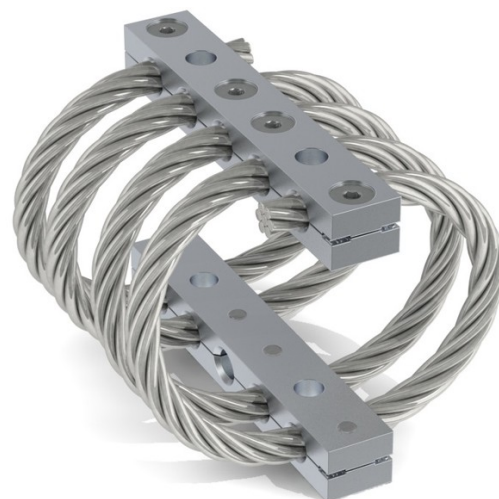
standard is 04 loops

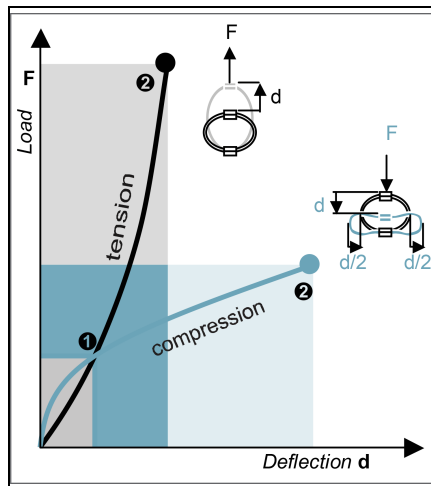
INTERFACE: CIM

2 through holes ø8,5mm

countersunk 90° in bar 1,

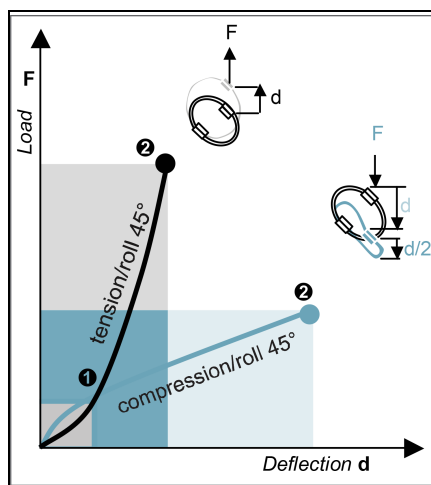
2 inserts M8 in bar 2





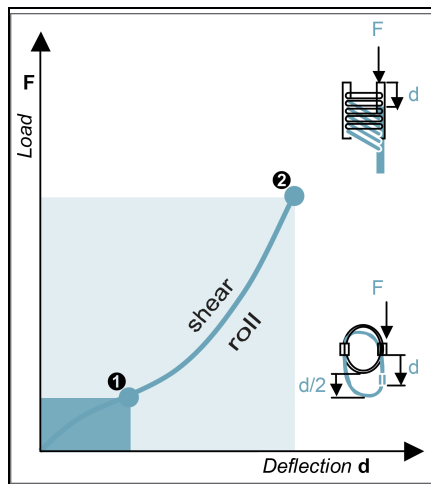
COMPRESSION AND TENSION

HH13 Series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70	-80	-90
1. Max Static	F daN	95,8	86,7	74,0	52,6	50,7	40,8	29,7	29,3	25,8	18,9	17,8
	d mm	5,8	6,3	6,8	7,3	9,3	12,0	12,4	15,1	16,8	20,3	21,7
2. Max Shock	F daN	287	260	221	157	152	122	89,2	88,0	77,3	56,6	53,5
	d mm	31	34	36	39	50	64	67	81	90	109	119
3. Max Vibration	2a mm	3,5	3,8	4,1	4,4	5,5	7,1	7,4	9,0	10,0	12,1	13,2
	f Hz	6,6	6,4	6,2	6,3	5,3	4,5	4,8	4,0	3,8	3,5	3,3
1. Max Static	F daN	95,8	86,7	74,0	52,6	50,7	40,8	29,7	29,3	25,8	18,9	17,8
	d mm	4,2	4,6	5,3	6,8	7,2	8,4	10,7	10,7	11,7	14,6	14,9
2. Max Shock	F daN	928	848	759	651	517	385	335	278	241	181	163
	d mm	17	19	23	35	31	34	51	44	47	60	60
3. Max Vibration	2a mm	2,0	2,2	2,6	3,9	3,5	3,8	5,6	4,9	5,3	6,7	6,6
	f Hz	9,9	9,4	8,8	7,7	7,6	7,0	6,2	6,2	6,0	5,3	5,3



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH13 Series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70	-80	-90
1. Max Static	F daN	71,8	65,0	55,5	39,4	38,0	30,6	22,3	22,0	19,3	14,2	13,4
	d mm	8,4	9,1	10,2	12,1	13,8	16,8	19,7	21,4	23,5	28,9	30,4
2. Max Shock	F daN	186	169	145	106	99,8	79,1	59,6	56,9	49,9	36,7	34,4
	d mm	47	51	55	59	75	97	101	122	136	164	179
3. Max Vibration	2a mm	5,2	5,6	6,1	6,5	8,3	10,7	11,1	13,5	15,0	18,1	19,8
	f Hz	5,6	5,4	5,3	5,3	4,5	3,9	4,0	3,5	3,3	3,0	2,8
1. Max Static	F daN	71,8	65,0	55,5	39,4	38,0	30,6	22,3	22,0	19,3	14,2	13,4
	d mm	5,6	6,1	7,0	8,9	9,5	11,1	14,0	14,2	15,5	19,3	19,8
2. Max Shock	F daN	460	421	378	327	257	190	167	137	119	89,9	81,0
	d mm	20	22	26	40	36	39	58	50	54	69	68
3. Max Vibration	2a mm	2,2	2,5	3,0	4,5	4,0	4,4	6,5	5,6	6,0	7,6	7,6
	f Hz	8,8	8,4	7,9	6,9	6,8	6,3	5,5	5,6	5,3	4,8	4,7



SHEAR OR ROLL

HH13 Series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70	-80	-90
1. Max Static	F daN	479	43,3	370	26,3	25,3	20,4	14,9	14,7	12,9	9,4	8,9
	d mm	8,0	8,8	9,5	10,5	13,4	17,6	18,5	22,6	25,3	30,7	33,7
2. Max Shock	F daN	238	216	192	161	126	91,6	79,9	65,0	56,0	41,7	37,3
	d mm	28	31	35	45	47	57	70	72	79	98	102
3. Max Vibration	2a mm	3,1	3,4	3,9	5,0	5,3	6,3	7,8	8,0	8,8	10,8	11,3
	f Hz	7,0	6,7	6,3	5,8	5,4	4,9	4,6	4,4	4,2	3,8	3,6

1. Max static load (F) with corresponding deflection (d)
2. Max shock load (F) with corresponding deflection (d)
3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)

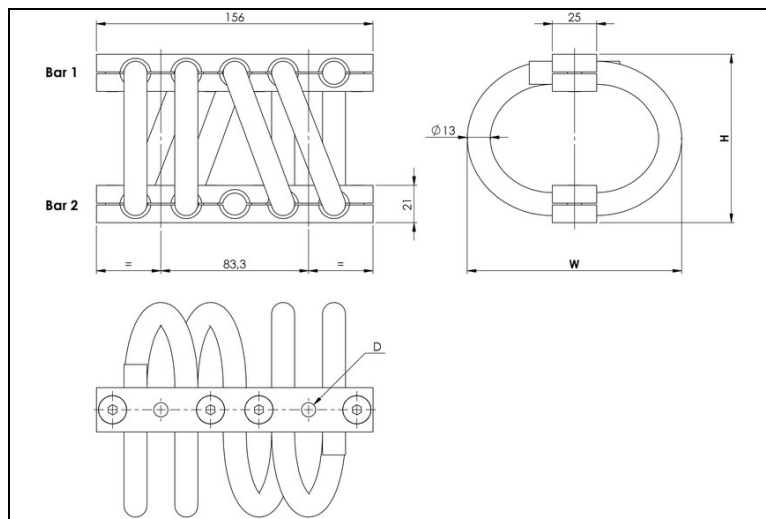
***IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C

WIRE ROPE ISOLATOR

DEFINITION
series HH14



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH14
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL				
	height H (mm)	width W (mm)	weight (kg)	
-12	76	92	0,95	
-15	83	102	1,0	
-17	89	105	1,1	
-20	95	121	1,2	
-30	108	133	1,3	
-40	124	143	1,4	
-50	137	156	1,5	
-60	155	180	1,7	
-70	166	186	1,7	
-80	175	210	1,9	

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø8,8mm	2 through holes ø8,8mm countersunk k 90°	2 inserts M8
Bar 2			
2 through holes ø8,8mm	TM2	not standard	not standard
2 through holes ø8,8mm countersunk 90°	TCM	CM2	not standard
2 inserts M8	TIM	CIM	IM2

H	H	1	4	-	1	2	C	I	M
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SERIE: HH14

'Half-Helical' mount from
the HH14 series

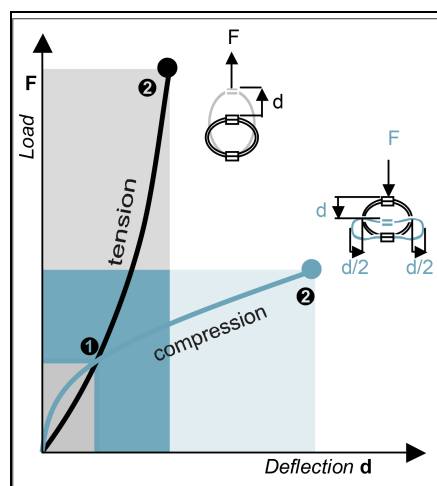
MODEL: -12

height: 76mm
width: 92mm
weight: 0,95kg
loops: serie
standard is 04 loops

INTERFACE: CIM

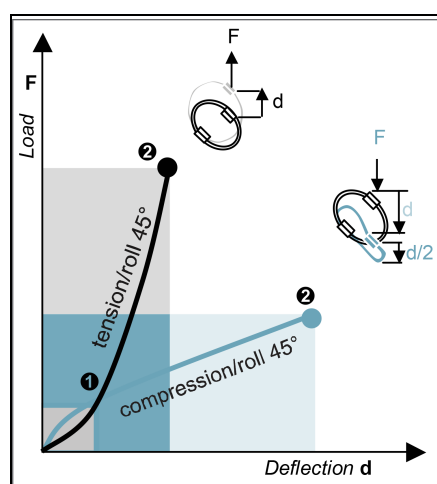
2 through holes ø8,8mm
countersunk 90° in bar 1,
2 inserts M8 in bar 2





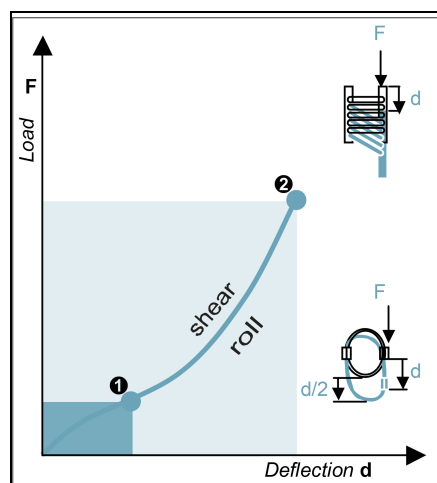
COMPRESSION AND TENSION

HH14 Series	Model	-12	-15	-17	-20	-30	-40	-50	-60	-70	-80
1. Max Static	F daN	258	206	194	140	116	102	85,9	64,4	60,7	476
	d mm	5,8	70	8,0	9,0	11,1	13,8	15,7	18,9	20,1	22,2
2. Max Shock	F daN	775	618	583	421	350	306	257	193	182	142
	d mm	31	37	43	48	60	74	86	102	112	120
3. Max Vibration	2a mm	3,5	4,2	4,8	5,4	6,6	8,2	9,5	11,3	12,4	13,3
	f Hz	6,7	6,2	5,6	5,6	4,9	4,2	3,9	3,6	3,4	3,4
1. Max Static	F daN	258	206	194	140	116	102	85,9	64,4	60,7	476
	d mm	4,4	5,4	5,7	7,4	8,7	9,5	10,8	13,4	13,8	16,7
2. Max Shock	F daN	2573	2112	1852	1533	1200	952	788	610	550	472
	d mm	18	23	23	34	38	38	43	55	54	71
3. Max Vibration	2a mm	2,1	2,6	2,6	3,8	4,2	4,3	4,8	6,1	6,0	7,9
	f Hz	9,7	8,7	8,6	7,4	6,9	6,6	6,2	5,6	5,5	5,0



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH14 Series	Model	-12	-15	-17	-20	-30	-40	-50	-60	-70	-80
1. Max Static	F daN	193	154	145	105	87,6	76,7	64,4	48,3	45,6	35,7
	d mm	8,5	10,4	11,3	13,9	16,7	19,2	22,0	26,7	28,2	32,6
2. Max Shock	F daN	506	406	377	280	230	197	165	124	116	93,1
	d mm	47	56	64	72	90	112	129	153	168	180
3. Max Vibration	2a mm	5,2	6,2	7,1	8,0	10,0	12,3	14,3	16,9	18,6	19,9
	f Hz	5,7	5,2	4,8	4,7	4,1	3,6	3,3	3,1	2,9	2,9
1. Max Static	F daN	193	154	145	105	87,6	76,7	64,4	48,3	45,6	35,7
	d mm	5,8	7,1	7,5	9,8	11,4	12,6	14,3	17,7	18,3	22,0
2. Max Shock	F daN	1278	1051	917	766	597	471	389	302	271	234
	d mm	21	27	26	39	43	44	49	63	62	82
3. Max Vibration	2a mm	2,4	3,0	3,0	4,4	4,8	4,9	5,5	7,0	6,9	9,0
	f Hz	8,7	7,8	7,6	6,6	6,2	5,9	5,5	5,0	4,9	4,4



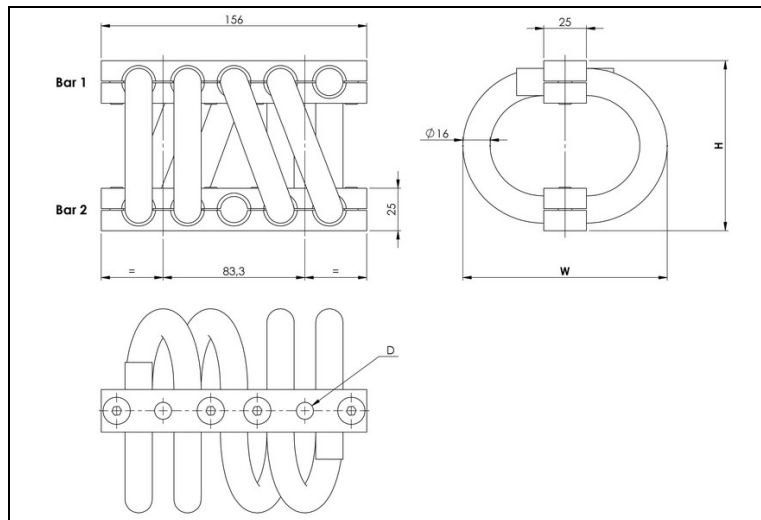
SHEAR OR ROLL

HH14 Series	Model	-12	-15	-17	-20	-30	-40	-50	-60	-70	-80
1. Max Static	F daN	129	103	97,2	70,3	58,4	51,1	42,9	32,2	30,4	23,8
	d mm	7,8	9,6	11,1	12,7	16,0	20,2	23,7	28,3	31,3	33,6
2. Max Shock	F daN	685	548	469	385	294	227	185	142	126	109
	d mm	29	36	38	49	57	65	74	90	95	111
3. Max Vibration	2a mm	3,2	4,0	4,2	5,4	6,3	7,2	8,2	10,0	10,5	12,3
	f Hz	6,9	6,3	6,0	5,4	5,0	4,6	4,3	3,9	3,8	3,5

1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH15
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-12	87	102	1,4
-15	94	112	1,5
-17	98	120	1,6
-20	107	135	1,7
-30	117	152	1,9
-40	125	165	2,1
-50	135	178	2,3
-60	146	185	2,3

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø10,8mm	2 through holes ø10,8mm countersunk k 90°	2 inserts M10
Bar 2			
2 through holes ø10,8mm	TM2	not standard	not standard
2 through holes ø10,8mm countersunk 90°	TCM	CM2	not standard
2 inserts M10	TIM	CIM	IM2

H	H	1	5	-	1	2	C	I	M
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SERIE: HH15

'Half-Helical' mount from
the HH15 series

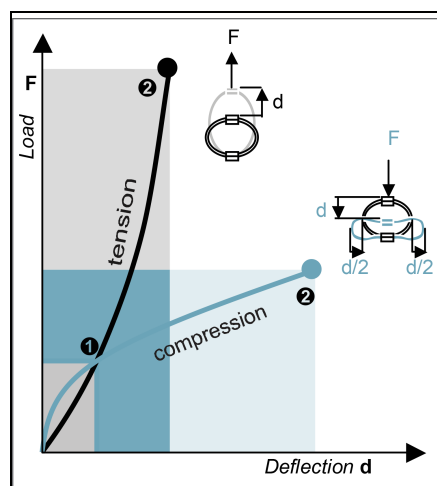
MODEL: -12

height: 87mm
width: 102mm
weight: 1,4kg
loops: serie
standard is 04 loops

INTERFACE: CIM

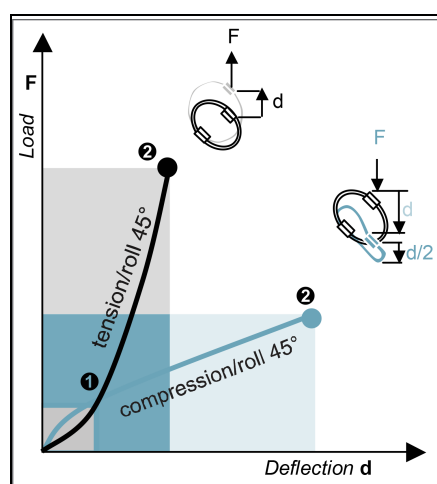
2 through holes ø10,8mm
countersunk 90° in bar 1,
2 inserts M10 in bar 2





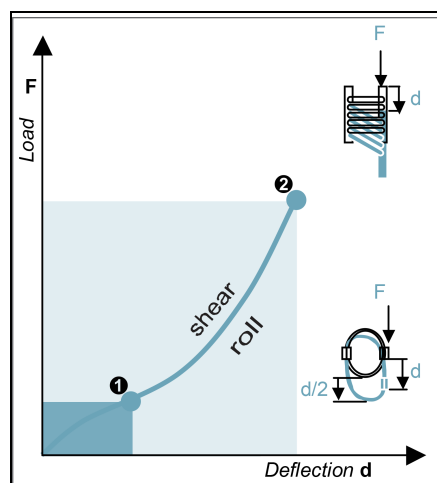
COMPRESSION AND TENSION

HH15 Series	Model	-12	-15	-17	-20	-30	-40	-50	-60
1. Max Static	F daN	439	360	307	238	186	157	136	128
	d mm	6,1	7,3	8,0	9,5	11,1	12,4	14,1	15,9
2. Max Shock	F daN	1319	1080	923	716	558	472	408	384
	d mm	33	39	43	51	60	67	76	86
3. Max Vibration	2a mm	3,7	4,4	4,8	5,6	6,6	7,4	8,4	9,5
	f Hz	6,6	6,1	5,9	5,5	5,1	4,8	4,5	4,2
1. Max Static	F daN	439	360	307	238	186	157	136	128
	d mm	4,8	5,9	6,7	8,3	10,1	11,5	12,9	13,7
2. Max Shock	F daN	4562	3811	3409	2760	2240	1933	1652	1446
	d mm	21	26	31	40	51	59	66	65
3. Max Vibration	2a mm	2,4	2,9	3,5	4,5	5,7	6,6	7,3	7,2
	f Hz	9,2	8,4	7,8	7,0	6,3	5,9	5,6	5,5



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH15 Series	Model	-12	-15	-17	-20	-30	-40	-50	-60
1. Max Static	F daN	329	270	230	179	139	118	102	96,2
	d mm	9,2	11,1	12,5	15,2	18,1	20,5	23,1	25,2
2. Max Shock	F daN	868	713	614	480	377	320	276	257
	d mm	49	59	64	76	90	101	114	129
3. Max Vibration	2a mm	5,5	6,5	7,1	8,5	10,0	11,1	12,6	14,3
	f Hz	5,6	5,1	5,0	4,6	4,3	4,1	3,8	3,5
1. Max Static	F daN	329	270	230	179	139	118	102	96,2
	d mm	6,4	7,7	8,8	10,9	13,2	15,0	16,9	17,9
2. Max Shock	F daN	2272	1901	1705	1383	1125	972	830	723
	d mm	24	30	36	46	58	68	75	75
3. Max Vibration	2a mm	2,7	3,4	4,0	5,1	6,5	7,5	8,3	8,2
	f Hz	8,3	7,5	7,0	6,3	5,7	5,3	5,0	4,9



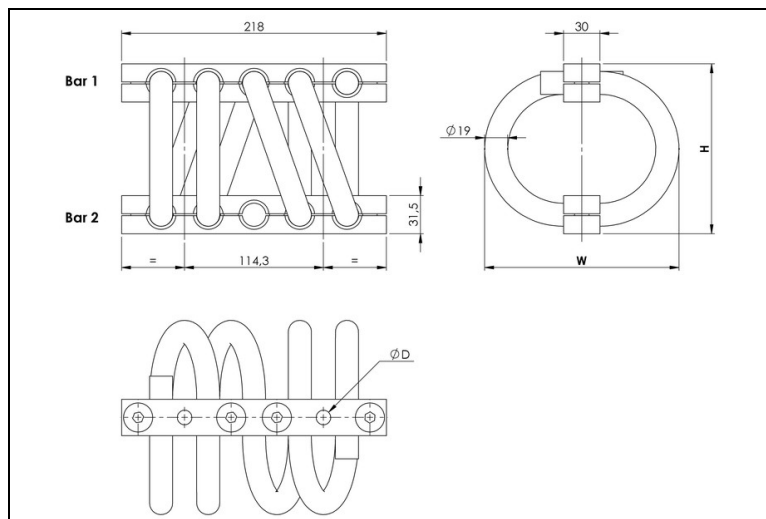
SHEAR OR ROLL

HH15 Series	Model	-12	-15	-17	-20	-30	-40	-50	-60
1. Max Static	F daN	219	180	153	119	93,1	78,8	68,1	64,2
	d mm	8,1	9,8	10,9	13,2	15,9	18,1	20,7	23,4
2. Max Shock	F daN	1246	1013	894	705	559	475	401	349
	d mm	32	38	44	54	66	76	85	90
3. Max Vibration	2a mm	3,5	4,3	4,9	6,0	7,4	8,4	9,4	9,9
	f Hz	6,7	6,1	5,7	5,2	4,8	4,5	4,2	4,0

1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH16
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-15	98	115	2,5
-17	104	125	2,6
-20	110	135	2,8
-25	117	145	2,9
-30	125	160	3,1
-40	135	175	3,4
-50	145	185	3,6
-60	160	200	3,8
-70	175	215	4,1

INTERFACES	Bar 1	Bar 2
fixtures holes D	2 through holes ø13,5mm	2 through holes ø13,5mm countersunk 90°
Bar 2	2 through holes ø13,5mm	2 through holes ø13,5 mm countersunk 90°
2 through holes ø13,5mm	TM2	not standard
2 through holes ø13,5 mm countersunk 90°	TCM	CM2
2 inserts M12	TIM	CIM

H	H	1	6	-	1	5	C	I	M
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SERIE: HH16

'Half-Helical' mount from
the HH16 series

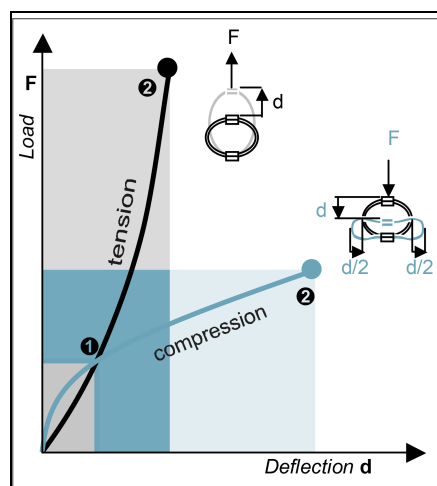
MODEL: -15

height: 98mm
width: 115mm
weight: 2,5kg
loops: serie
standard is 04 loops

INTERFACE: CIM

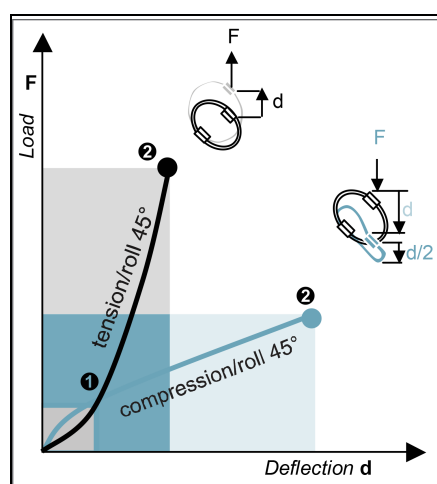
2 through holes ø13,5mm
countersunk 90° in bar 1,
2 inserts M12 in bar 2





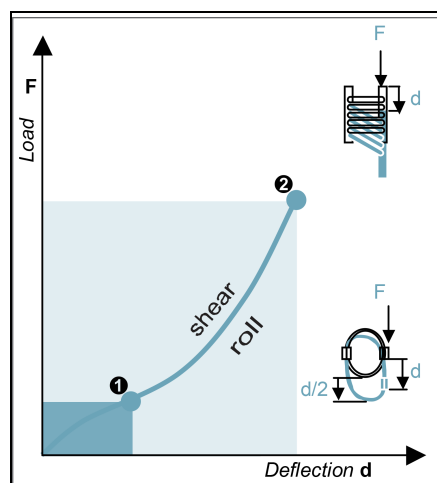
COMPRESSION AND TENSION

HH16 Series	Model	-15	-17	-20	-25	-30	-40	-50	-60	-70
1. Max Static	F daN	617	512	433	374	303	253	229	199	174
	d mm	5,8	6,8	7,8	9,0	10,3	12,0	13,6	16,1	18,6
2. Max Shock	F daN	1851	1538	1301	1123	909	759	687	597	522
	d mm	31	36	42	48	55	64	73	87	100
3. Max Vibration	2a mm	3,5	4,1	4,6	5,4	6,1	7,1	8,1	9,6	11,1
	f Hz	7,0	6,5	6,1	5,7	5,3	5,0	4,6	4,2	3,9
1. Max Static	F daN	617	512	433	374	303	253	229	199	174
	d mm	5,0	6,0	7,1	8,1	9,7	11,3	12,4	14,0	15,6
2. Max Shock	F daN	6967	5967	5175	4472	3788	3180	2757	2275	1918
	d mm	24	29	35	40	50	59	62	68	73
3. Max Vibration	2a mm	2,6	3,3	3,9	4,5	5,6	6,6	6,9	7,5	8,1
	f Hz	9,1	8,2	7,6	7,1	6,5	6,0	5,7	5,4	5,1



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH16 Series	Model	-15	-17	-20	-25	-30	-40	-50	-60	-70
1. Max Static	F daN	462	384	325	280	227	189	171	149	130
	d mm	9,2	10,9	12,7	14,6	17,1	19,9	22,2	25,6	29,0
2. Max Shock	F daN	1237	1033	877	757	617	516	464	399	347
	d mm	47	55	63	72	83	97	110	130	151
3. Max Vibration	2a mm	5,2	6,1	7,0	8,0	9,2	10,7	12,2	14,4	16,6
	f Hz	5,9	5,4	5,1	4,8	4,5	4,2	3,9	3,5	3,2
1. Max Static	F daN	462	384	325	280	227	189	171	149	130
	d mm	6,5	7,9	9,2	10,6	12,6	14,7	16,2	18,4	20,5
2. Max Shock	F daN	3488	2992	2598	2245	1907	1601	1385	1140	959
	d mm	27	33	40	46	58	68	71	77	83
3. Max Vibration	2a mm	3,0	3,7	4,5	5,2	6,4	7,5	7,9	8,6	9,2
	f Hz	8,1	7,4	6,8	6,3	5,8	5,4	5,1	4,8	4,6



SHEAR OR ROLL

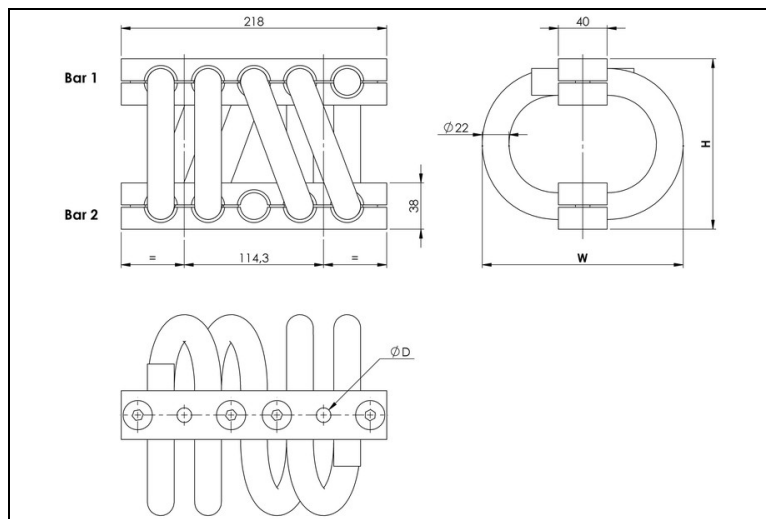
HH16 Series	Model	-15	-17	-20	-25	-30	-40	-50	-60	-70
1. Max Static	F daN	308	256	216	187	151	126	114	99,5	87,2
	d mm	7,3	8,8	10,3	12,1	14,3	16,9	19,4	23,2	27,1
2. Max Shock	F daN	2007	1665	1406	1187	980	805	690	561	467
	d mm	32	39	46	53	64	74	81	92	102
3. Max Vibration	2a mm	3,6	4,4	5,1	5,9	7,1	8,2	9,0	10,2	11,3
	f Hz	6,7	6,1	5,7	5,3	4,9	4,5	4,3	4,0	3,8

1. Max static load (F) with corresponding deflection (d)
2. Max shock load (F) with corresponding deflection (d)
3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)

***IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH17
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-15	133	140	4,1
-17	152	165	4,7
-20	159	178	4,9
-25	175	195	5,4
-30	190	210	5,7
-40	216	235	6,4

INTERFACES	Bar 1		
fixtures holes D	2 through holes Ø13,5mm	2 through holes Ø13,5mm countersunk 90°	2 inserts M12
Bar 2	2 through holes Ø13,5mm	TM2	not standard
2 through holes Ø13,5mm countersunk 90°	TCM	CM2	not standard
2 inserts M12	TIM	CIM	IM2

H	H	1	7	-	1	5	C	I	M
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SERIE: HH17

'Half-Helical' mount from
the HH17 series

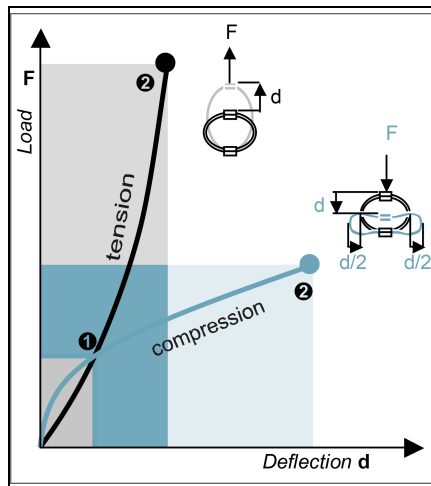
MODEL: -15

height: 133mm
width: 140mm
weight: 4,1kg
loops: serie
standard is 04 loops

INTERFACE: CIM

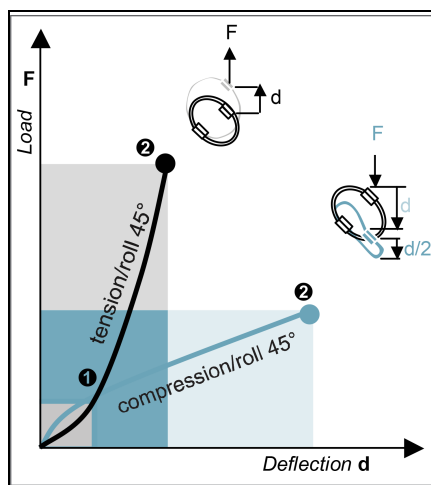
2 through holes Ø13,5mm
countersunk 90° in bar 1,
2 inserts M12 in bar 2





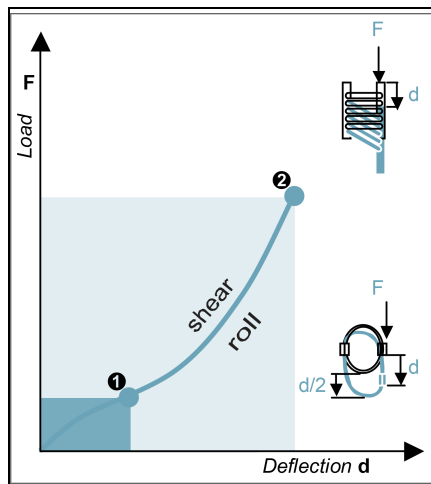
COMPRESSION AND TENSION

HH17 Series	Model	-15	-17	-20	-25	-30	-40
1. Max Static	F daN	745	575	493	410	353	281
	d mm	9,2	11,8	13,8	16,4	18,7	22,4
2. Max Shock	F daN	2236	1727	1480	1230	1059	844
	d mm	51	63	74	89	102	126
3. Max Vibration	2a mm	5,6	7,0	8,2	9,8	11,3	13,9
	f Hz	5,0	4,6	4,2	3,8	3,6	3,2
1. Max Static	F daN	745	575	493	410	353	281
	d mm	6,3	8,4	9,7	11,4	12,9	15,3
2. Max Shock	F daN	6769	5482	4658	3831	3251	2531
	d mm	25	34	39	46	51	60
3. Max Vibration	2a mm	2,8	3,8	4,4	5,1	5,7	6,6
	f Hz	8,1	7,0	6,6	6,0	5,7	5,2



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH17 Series	Model	-15	-17	-20	-25	-30	-40
1. Max Static	F daN	559	431	370	307	264	211
	d mm	12,9	16,7	19,4	23,0	26,1	31,4
2. Max Shock	F daN	1433	1118	956	793	680	539
	d mm	76	95	112	133	153	189
3. Max Vibration	2a mm	8,5	10,5	12,3	14,7	16,9	20,8
	f Hz	4,3	3,9	3,6	3,3	3,0	2,7
1. Max Static	F daN	559	431	370	307	264	211
	d mm	8,4	11,1	12,8	15,1	17,1	20,3
2. Max Shock	F daN	3343	2716	2306	1896	1607	1249
	d mm	28	39	45	53	59	69
3. Max Vibration	2a mm	3,2	4,4	5,0	5,8	6,5	7,6
	f Hz	7,2	6,3	5,8	5,4	5,1	4,6



SHEAR OR ROLL

HH17 Series	Model	-15	-17	-20	-25	-30	-40
1. Max Static	F daN	372	287	246	205	176	140
	d mm	12,6	16,0	19,1	23,3	27,2	34,0
2. Max Shock	F daN	1812	1432	1189	955	796	604
	d mm	43	56	65	77	88	106
3. Max Vibration	2a mm	4,8	6,2	7,2	8,6	9,7	11,7
	f Hz	5,6	4,9	4,6	4,2	3,9	3,6

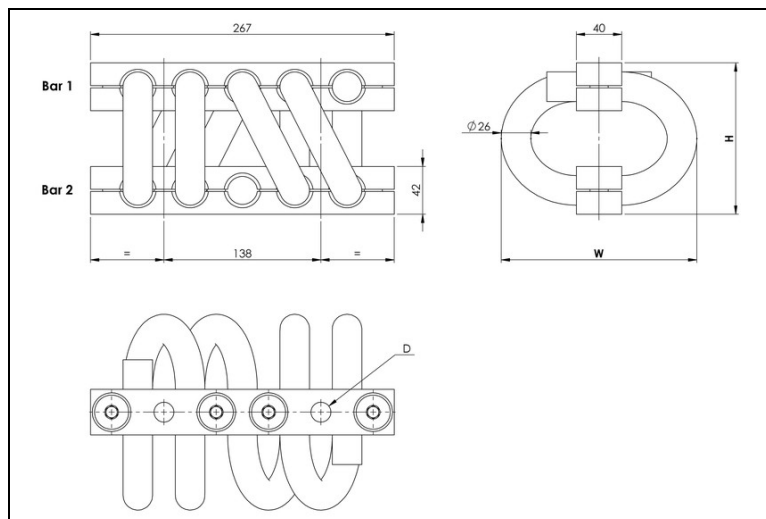
1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C

WIRE ROPE ISOLATOR

DEFINITION
series HH18



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH18
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-12	133	172	6,3
-15	147	187	6,8
-17	163	205	7,4
-20	182	225	8,1
-30	203	249	8,9
-40	228	276	9,8
-50	256	308	10,9

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø17,5mm	2 through holes ø17,5mm countersunk 90°	2 inserts M16
Bar 2			
2 through holes ø17,5mm	TM2	not standard	not standard
2 through holes ø17,5mm countersunk 90°	TCM	CM2	not standard
2 inserts M16	TIM	CIM	IM2

H	H	1	8	-	1	2	C	I	M
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SERIE: HH18

'Half-Helical' mount from
the HH18 series

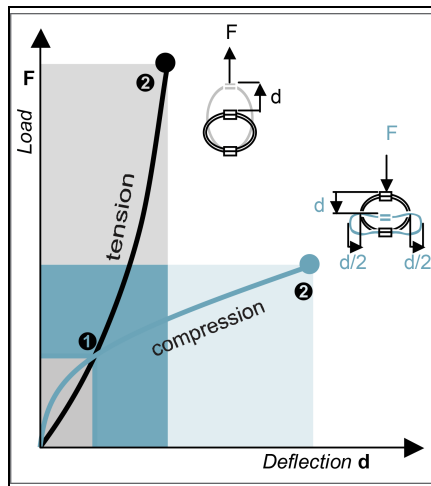
MODEL: -12

height: 133mm
width: 172mm
weight: 6,3kg
loops: serie
standard is 04 loops

INTERFACE: CIM

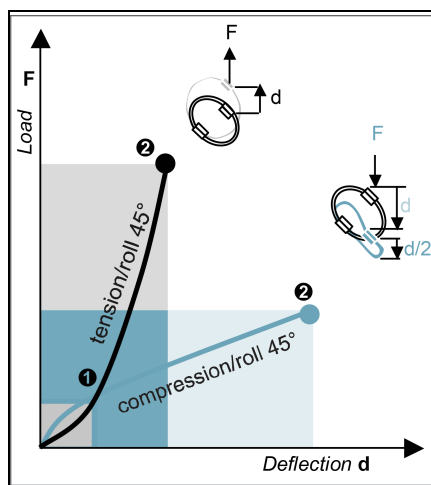
2 through holes ø17,5mm
countersunk 90° in bar 1,
2 inserts M16 in bar 2





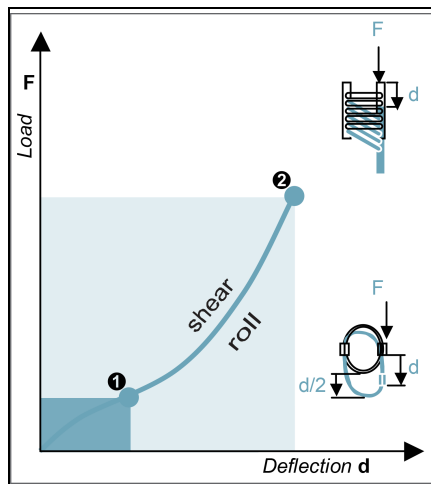
COMPRESSION AND TENSION

HH18 Series	Model	-12	-15	-17	-20	-30	-40	-50
1. Max Static	F daN	983	848	713	598	491	404	327
	d mm	8,1	10,5	13,1	16,3	19,8	23,9	28,6
2. Max Shock	F daN	2949	2546	2140	1796	1475	1212	983
	d mm	44	56	71	88	107	129	154
3. Max Vibration	2a mm	4,8	6,2	7,8	9,7	11,8	14,3	17,0
	f Hz	6,1	5,3	4,7	4,2	3,8	3,4	3,1
1. Max Static	F daN	983	848	713	598	491	404	327
	d mm	8,1	10,0	11,9	14,1	16,6	19,5	22,8
2. Max Shock	F daN	13520	10757	8569	6810	5437	4323	3444
	d mm	47	52	60	68	78	89	103
3. Max Vibration	2a mm	5,2	5,8	6,7	7,5	8,6	9,8	11,4
	f Hz	6,9	6,4	5,8	5,4	5,0	4,6	4,3



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH18 Series	Model	-12	-15	-17	-20	-30	-40	-50
1. Max Static	F daN	737	636	535	449	368	303	245
	d mm	14,0	17,5	21,4	25,8	30,9	36,7	43,3
2. Max Shock	F daN	2031	1733	1444	1201	982	802	648
	d mm	66	85	106	132	160	194	232
3. Max Vibration	2a mm	7,3	9,4	11,7	14,6	17,7	21,4	25,5
	f Hz	5,1	4,4	3,9	3,5	3,2	2,8	2,6
1. Max Static	F daN	737	636	535	449	368	303	245
	d mm	10,7	13,0	15,6	18,5	21,8	25,6	30,1
2. Max Shock	F daN	6836	5418	4304	3411	2719	2158	1717
	d mm	53	60	69	77	89	102	117
3. Max Vibration	2a mm	5,9	6,6	7,6	8,6	9,9	11,2	13,0
	f Hz	6,2	5,7	5,2	4,8	4,4	4,1	3,8



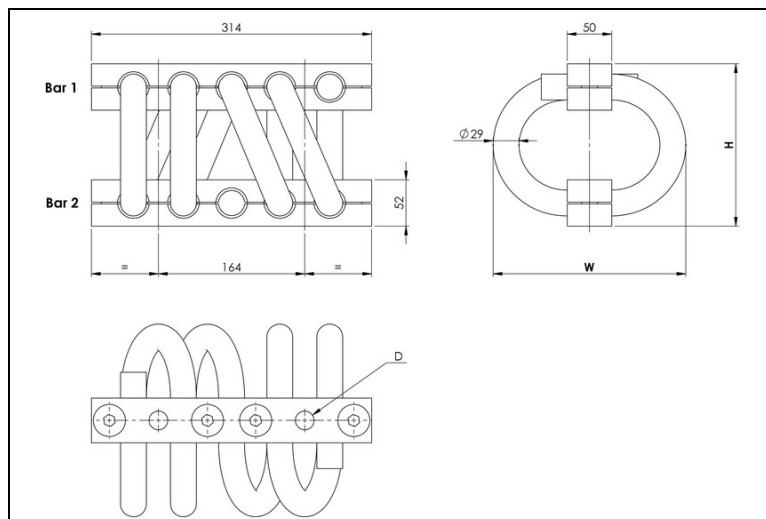
SHEAR OR ROLL

HH18 Series	Model	-12	-15	-17	-20	-30	-40	-50
1. Max Static	F daN	491	424	356	299	245	202	163
	d mm	10,6	14,0	18,0	22,8	28,2	34,6	41,9
2. Max Shock	F daN	3774	2901	2242	1736	1356	1057	829
	d mm	55	66	78	92	109	128	151
3. Max Vibration	2a mm	6,1	7,3	8,7	10,2	12,1	14,2	16,6
	f Hz	5,4	4,8	4,4	4,0	3,6	3,4	3,1

1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH19
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-10	182	216	10,8
-12	216	245	12,2
-15	235	264	13,0

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø20mm	2 through holes ø20mm countersunk 90°	2 inserts M18
Bar 2			
2 through holes ø20mm	TM2	not standard	not standard
2 through holes ø20mm countersunk 90°	TCM	CM2	not standard
2 inserts M18	TIM	CIM	IM2

H	H	1	9	-	1	0	C	I	M
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SERIE: HH19

'Half-Helical' mount from
the HH19 series

MODEL: -10

height: 182mm

width: 216mm

weight: 10,8kg

loops: serie

standard is 04 loops

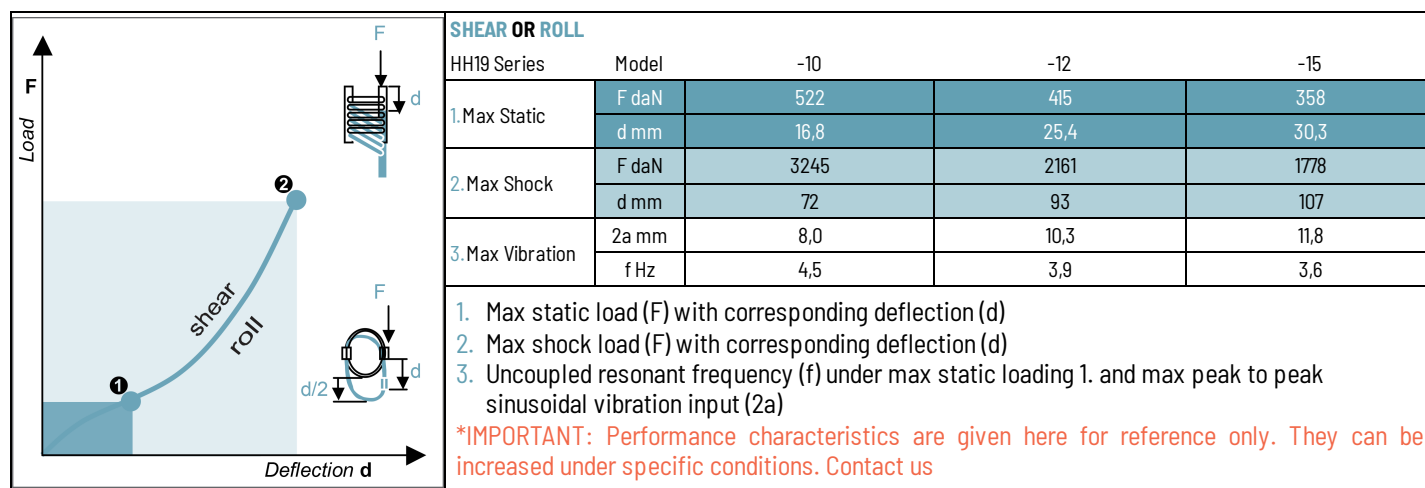
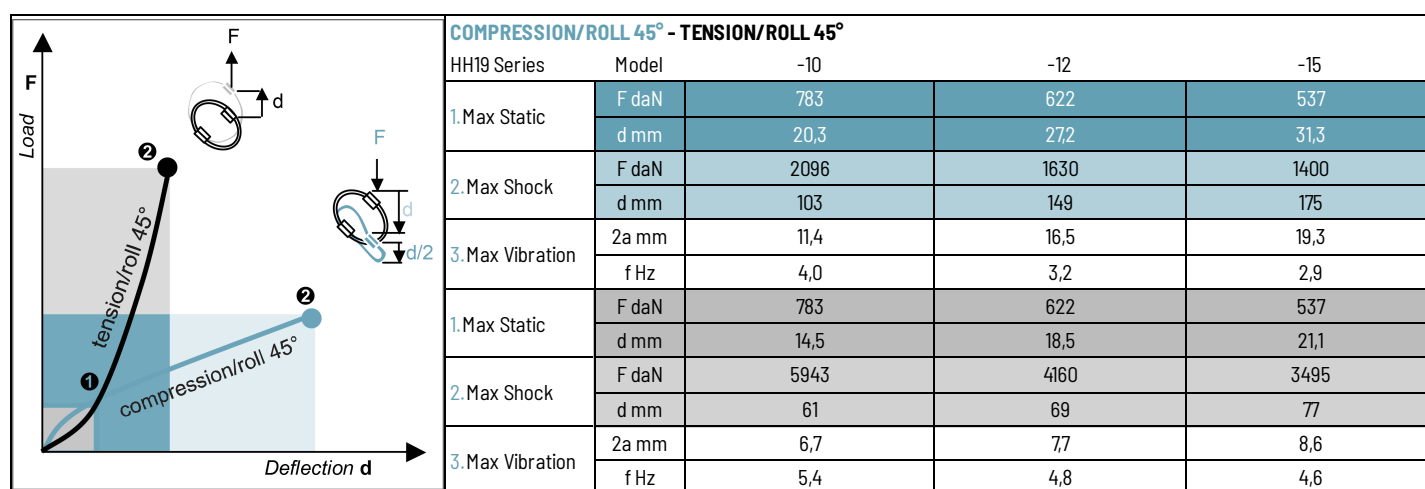
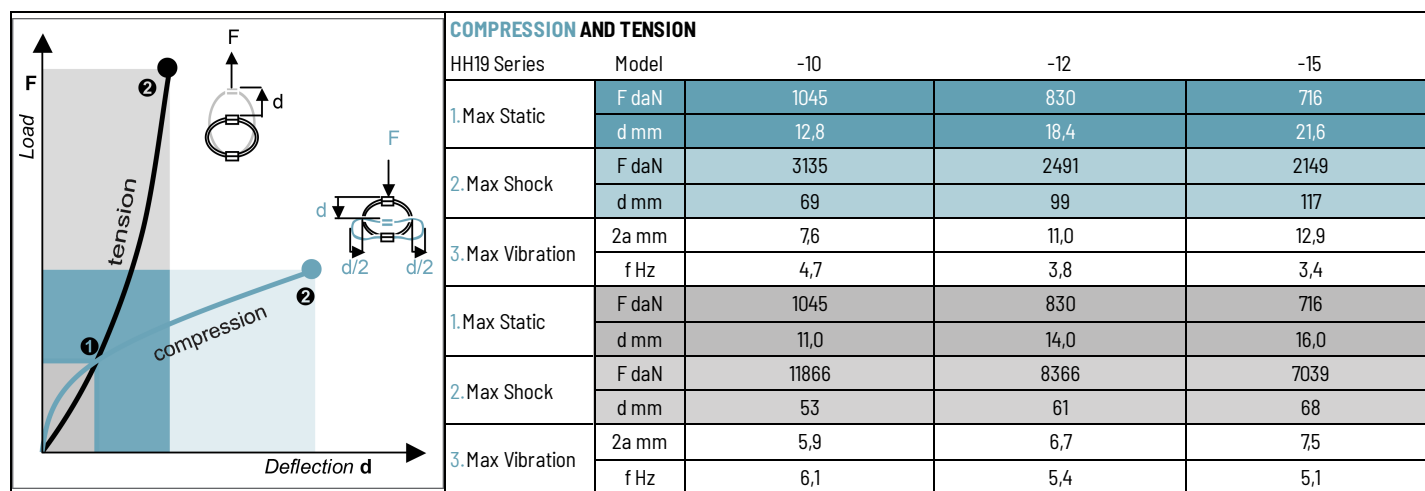
INTERFACE: CIM

2 through holes ø20mm

countersunk 90° in bar 1,

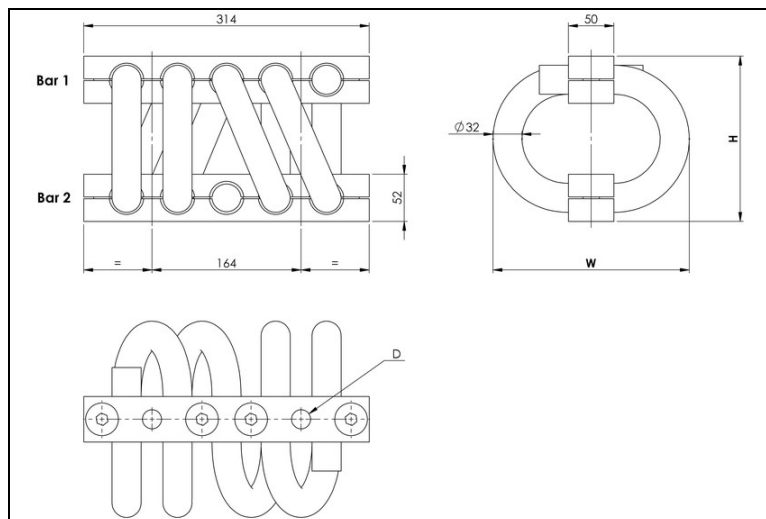
2 inserts M18 in bar 2





TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH20
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel.
All stainless steel: HHSS
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-10	182	210	12,0
-12	216	251	14,0
-15	235	270	15,0

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes Ø20mm	2 through holes Ø20mm countersunk 90°	2 inserts M18
Bar 2			
2 through holes Ø20mm	TM2	not standard	not standard
2 through holes Ø20mm countersunk 90°	TCM	CM2	not standard
2 inserts M18	TIM	CIM	IM2

H	H	2	0	-	1	0	C	I	M
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SERIE: HH20

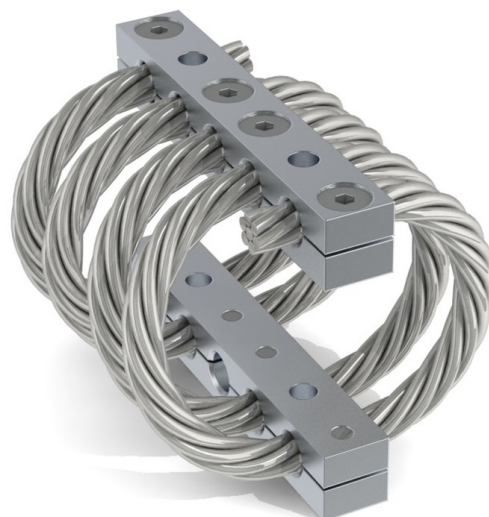
'Half-Helical' mount from
the HH20 series

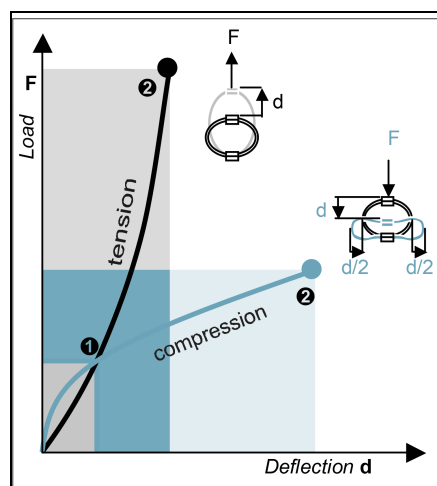
MODEL: -10

height: 182mm
width: 210mm
weight: 12,0kg
loops: serie
standard is 04 loops

INTERFACE: CIM

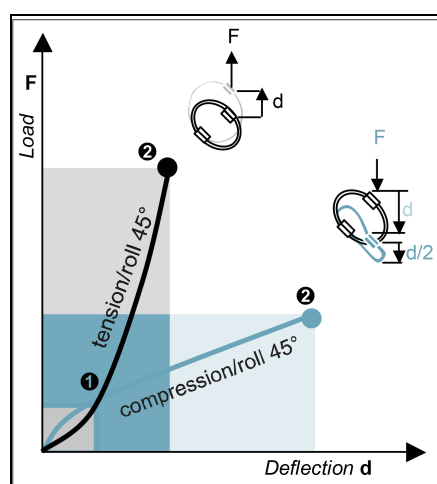
2 through holes Ø20mm
countersunk 90° in bar 1,
2 inserts M18 in bar 2





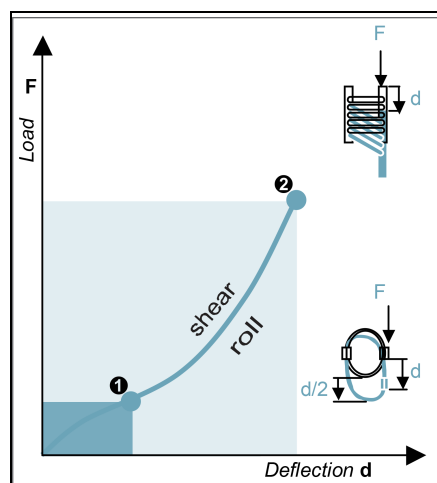
COMPRESSION AND TENSION

HH20 Series	Model	-10	-12	-15
1. Max Static	F daN	1222	938	793
	d mm	12,6	17,9	21,4
2. Max Shock	F daN	3667	2814	2380
	d mm	68	97	116
3. Max Vibration	2a mm	7,5	10,7	12,8
	f Hz	4,7	3,9	3,5
1. Max Static	F daN	1222	938	793
	d mm	10,9	14,2	16,5
2. Max Shock	F daN	13860	9808	8074
	d mm	52	64	72
3. Max Vibration	2a mm	5,8	7,0	8,0
	f Hz	6,1	5,4	5,0



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH20 Series	Model	-10	-12	-15
1. Max Static	F daN	916	703	595
	d mm	20,0	27,1	31,8
2. Max Shock	F daN	2451	1854	1560
	d mm	102	145	174
3. Max Vibration	2a mm	11,3	16,0	19,2
	f Hz	4,0	3,3	3,0
1. Max Static	F daN	916	703	595
	d mm	14,3	18,8	21,8
2. Max Shock	F daN	6941	4889	4017
	d mm	60	73	82
3. Max Vibration	2a mm	6,6	8,1	9,1
	f Hz	5,5	4,8	4,5



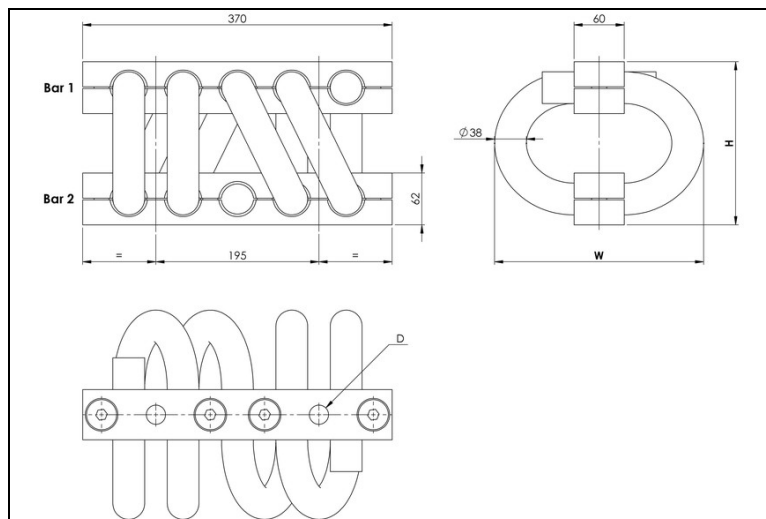
SHEAR OR ROLL

HH20 Series	Model	-10	-12	-15
1. Max Static	F daN	611	469	396
	d mm	16,5	24,6	30,0
2. Max Shock	F daN	3806	2551	2049
	d mm	71	94	109
3. Max Vibration	2a mm	7,9	10,4	12,1
	f Hz	4,5	3,9	3,6

1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH21
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-10	195	250	19,0
-12	230	280	21,5
-15	260	320	24,2

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø21,5mm	2 through holes ø21,5mm countersunk 90°	2 inserts M20
Bar 2			
2 through holes ø21,5mm	TM2	not standard	not standard
2 through holes ø21,5mm countersunk 90°	TCM	CM2	not standard
2 inserts M20	TIM	CIM	IM2

H	H	2	1	-	1	0	C	I	M
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SERIE: HH21

'Half-Helical' mount from
the HH21 series

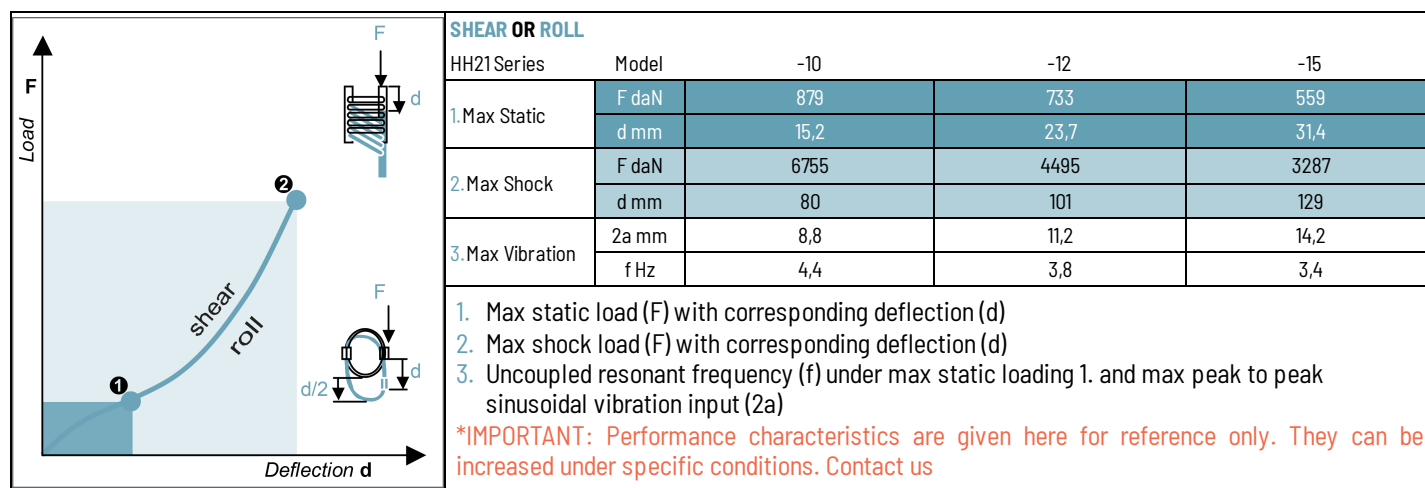
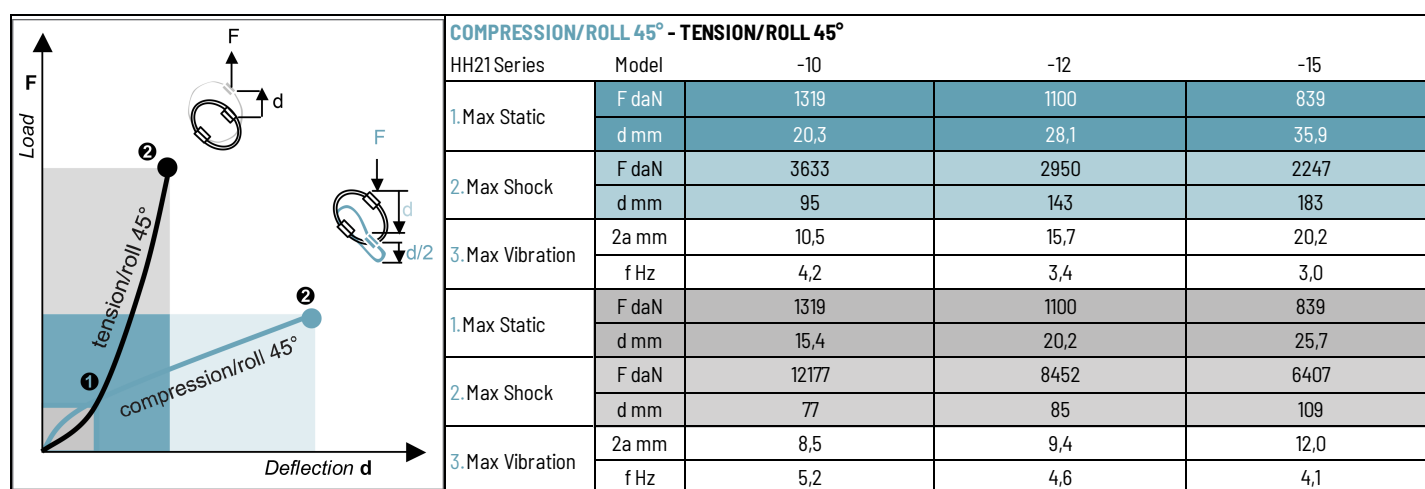
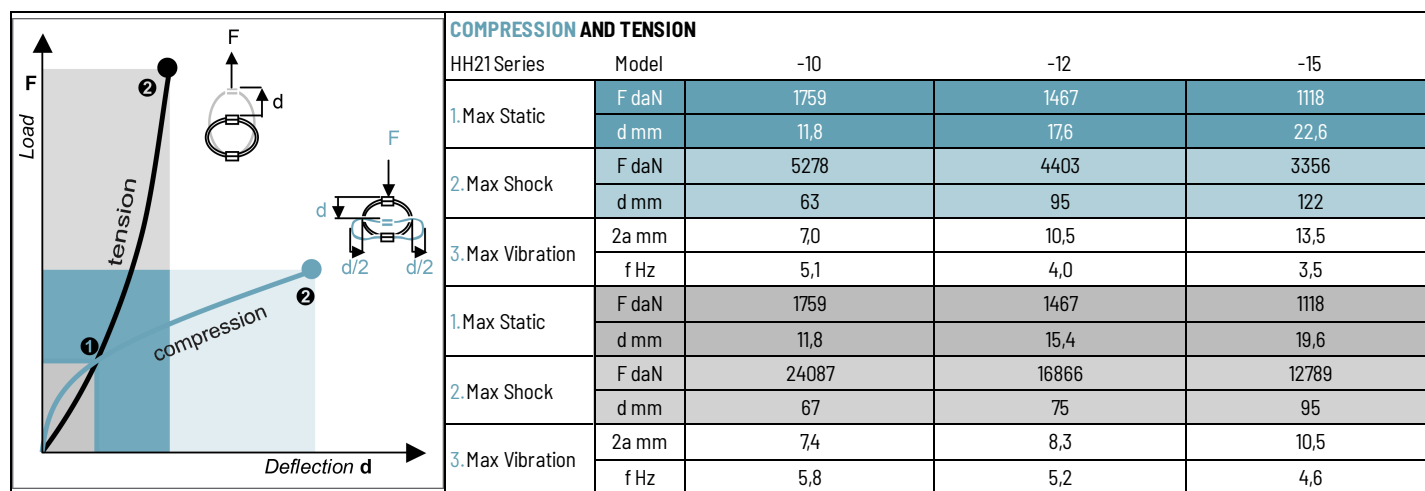
MODEL: -10

height: 195mm
width: 250mm
weight: 19,0kg
loops: serie
standard is 04 loops

INTERFACE: CIM

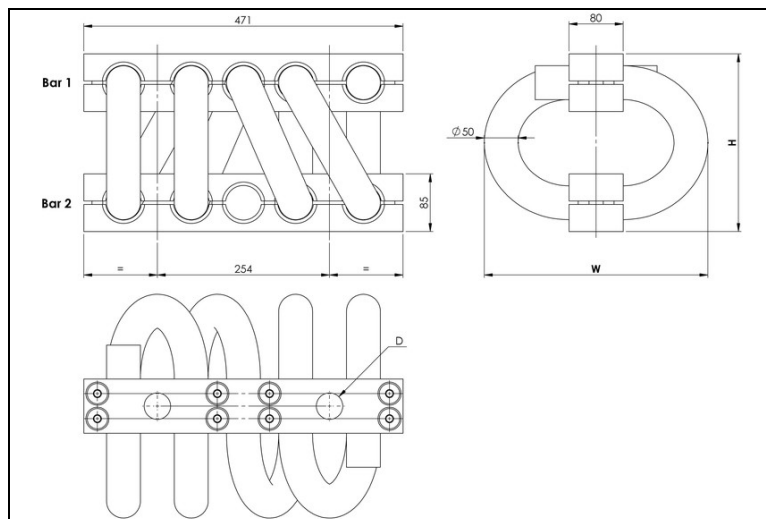
2 through holes ø21,5mm
countersunk 90° in bar 1,
2 inserts M20 in bar 2





TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range : - 180°C to 300°C (-290°F to 570°F)
- Great adaptability/versatility

Specials on request

(material size and number of loops, etc.)

Dimensions are in millimeters. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH23
Cable: stainless steel galvanized available: HHG
Retainer bars: aluminium alloy/ SurTec
Screws: alloy steel/zinc plate
Inserts: stainless steel
All stainless steel: HHSS
Other materials on request

MODEL	height H (mm)	width W (mm)	weight (kg)
-12	262	330	42,1
-15	289	360	45,9
-17	320	395	50,1
-20	356	434	55,0
-30	397	480	60,6

INTERFACES			
fixtures holes D	Bar 1		
	2 through holes ø39mm	2 through holes ø39mm counter-sunk 60°	2 inserts M36
Bar 2			
2 through holes ø39mm	TM2	not standard	not standard
2 through holes ø39mm counter-sunk 60°	TCM	CM2	not standard
2 inserts M36	TIM	CIM	IM2

H	H	2	3	-	1	2	C	I	M
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SERIE: HH23

'Half-Helical' mount from the HH23 series

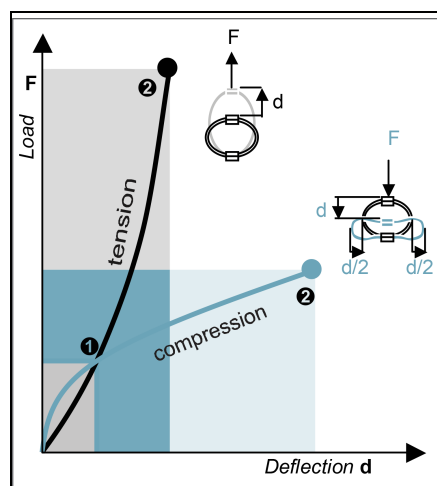
MODEL: -12

height: 262mm
width: 330mm
weight: 42,1kg
loops: serie
standard is 04 loops

INTERFACE: CIM

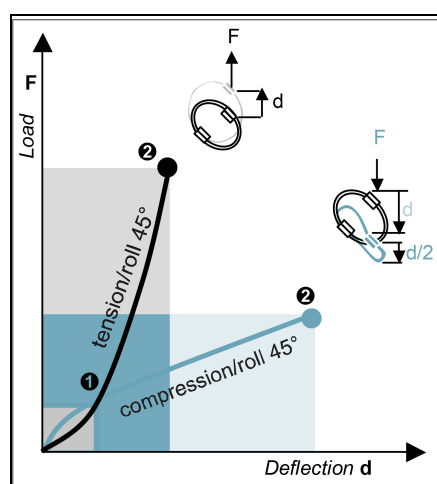
2 through holes ø39mm counter-sunk 60° in bar 1,
2 inserts M36 in bar 2





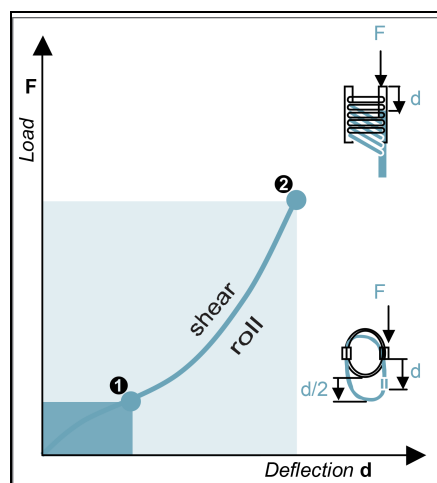
COMPRESSION AND TENSION

HH23 Series	Model	-12	-15	-17	-20	-30
1. Max Static	F daN	3733	3195	2682	2242	1846
	d mm	15,3	19,8	24,9	30,9	37,7
2. Max Shock	F daN	11200	9587	8046	6727	5538
	d mm	82	107	135	167	204
3. Max Vibration	2a mm	9,1	11,8	14,8	18,4	22,5
	f Hz	4,4	3,9	3,4	3,0	2,7
1. Max Static	F daN	3733	3195	2682	2242	1846
	d mm	15,2	18,6	22,4	26,6	31,5
2. Max Shock	F daN	50171	39925	31811	25367	20233
	d mm	85	97	112	128	147
3. Max Vibration	2a mm	9,4	10,7	12,4	14,1	16,2
	f Hz	5,1	4,7	4,3	3,9	3,6



COMPRESSION/ROLL 45° - TENSION/ROLL 45°

HH23 Series	Model	-12	-15	-17	-20	-30
1. Max Static	F daN	2800	2396	2011	1681	1384
	d mm	26,1	32,8	40,4	48,9	58,6
2. Max Shock	F daN	7689	6511	5419	4495	3680
	d mm	124	160	202	251	306
3. Max Vibration	2a mm	13,7	17,7	22,3	27,6	33,7
	f Hz	3,7	3,2	2,8	2,5	2,3
1. Max Static	F daN	2800	2396	2011	1681	1384
	d mm	19,7	24,2	29,3	34,9	41,3
2. Max Shock	F daN	25343	20097	15969	12702	10113
	d mm	97	111	128	146	168
3. Max Vibration	2a mm	10,7	12,3	14,1	16,1	18,5
	f Hz	4,6	4,2	3,8	3,5	3,2



SHEAR OR ROLL

HH23 Series	Model	-12	-15	-17	-20	-30
1. Max Static	F daN	1866	1597	1341	1121	923
	d mm	19,5	26,0	33,8	42,9	53,4
2. Max Shock	F daN	14277	10921	8415	6526	5082
	d mm	102	123	147	175	207
3. Max Vibration	2a mm	11,2	13,6	16,3	19,3	22,8
	f Hz	3,9	3,5	3,2	2,9	2,7

1. Max static load (F) with corresponding deflection (d)
 2. Max shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)
- *IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact us

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

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Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C