

## Anti Vibration Conical Mounts

Conical anti-vibration mounts are designed to absorb and dampen vibrations, shocks and mechanical stresses on industrial machinery, heavy vehicles, plants and transport systems. Their main function is to ensure structural stability, extend the useful life of equipment and improve operational safety.

### Composition and Structure of Conical Anti-Vibration Mounts

Conical Anti-Vibration Mounts consist of two conical bushings connected by an elastomeric rubber body. The structure is completed by two washers, one for stopping and one for centring. These elements serve to limit movement in the event of impact and ensure controlled behaviour during load peaks.

The rubber used in production can be of various compounds, typically NR/SBR, with a standard hardness of 60 Sh and a tolerance of  $\pm 5$  Sh. Versions with different hardnesses are available on request. The metal part is made of galvanised steel, but other metal alloys can be used depending on the application requirements. These components are used in numerous industrial sectors where vibration reduction is essential. Thanks to their special geometry and the quality of the materials used, Conical Anti-Vibration Mounts are ideal for applications that require high performance in terms of vibration isolation and mechanical resistance.

## Main features

Conical Anti Vibration Mounts are devices designed to reduce vibrations and noise, with a conical shape and a solid square base. Made of natural rubber and galvanised steel, they offer excellent strength and stability. Ideal for cabins, industrial machinery and heavy systems, they ensure secure and durable fastening. Available in different hardnesses, it adapts to various applications, ensuring optimal performance in a robust and compact design.

Anti-Vibration Mount for cabins is a device designed to effectively absorb vibrations and noise, thanks to its conical shape. Made of high-quality natural rubber with galvanised steel reinforcement, it offers superior stability and resistance. Ideal for industrial machinery, engines and mechanical applications, it ensures a secure and durable fastening. Available in different hardnesses, it adapts to various needs, combining optimal performance with a compact and functional design.

The conical anti-vibration mount is a component designed to attenuate vibrations and shocks in mechanical and industrial applications. Featuring a conical shape that combines high-resilience rubber and sturdy steel, this mount offers effective protection against dynamic stresses. Its compact structure makes it ideal for ensuring stability and reducing noise in machinery and vehicles subject to intense movement, such as heavy equipment and transport systems.

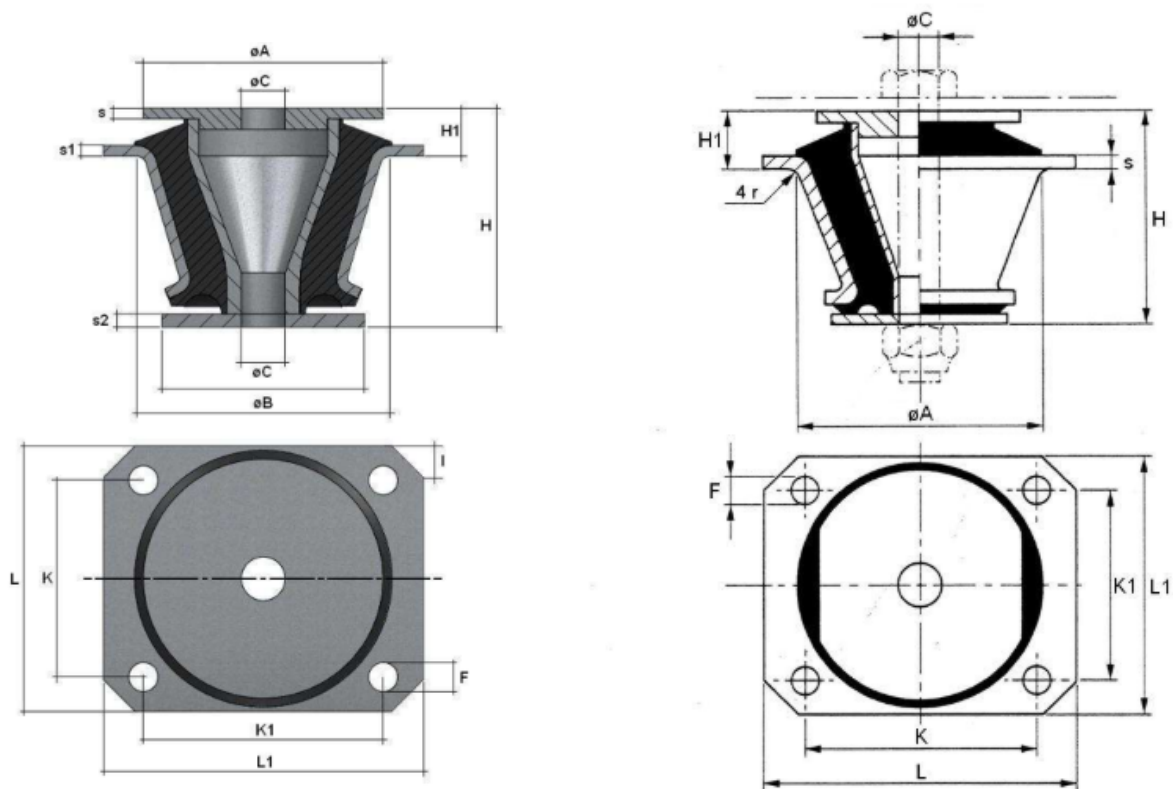


## **Anti Vibration Conical Mounts with square base**

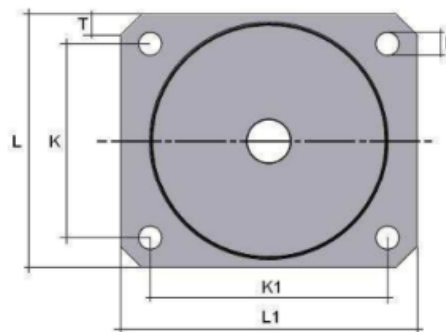
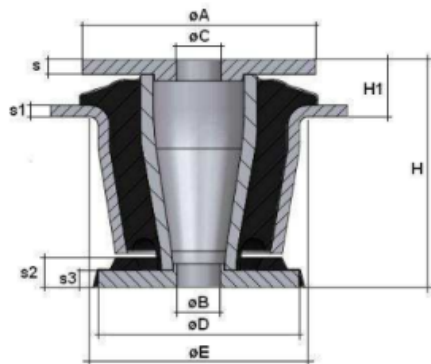


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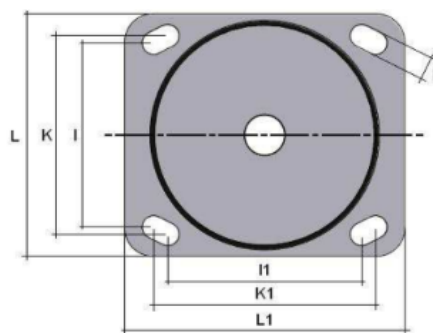
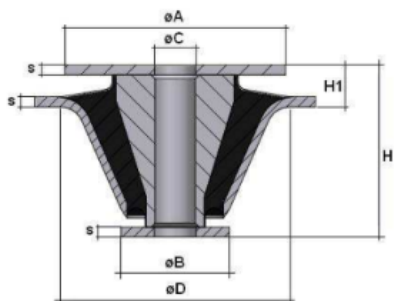
The conical anti-vibration cabin mount with square base is an advanced device designed to reduce vibrations and stresses in industrial and mechanical applications. Featuring a high-strength rubber conical structure and a square metal base, this mount ensures excellent stability and shock absorption capacity. The square base provides a solid anchorage, making it ideal for machinery and vehicles that require robust support in dynamic environments.



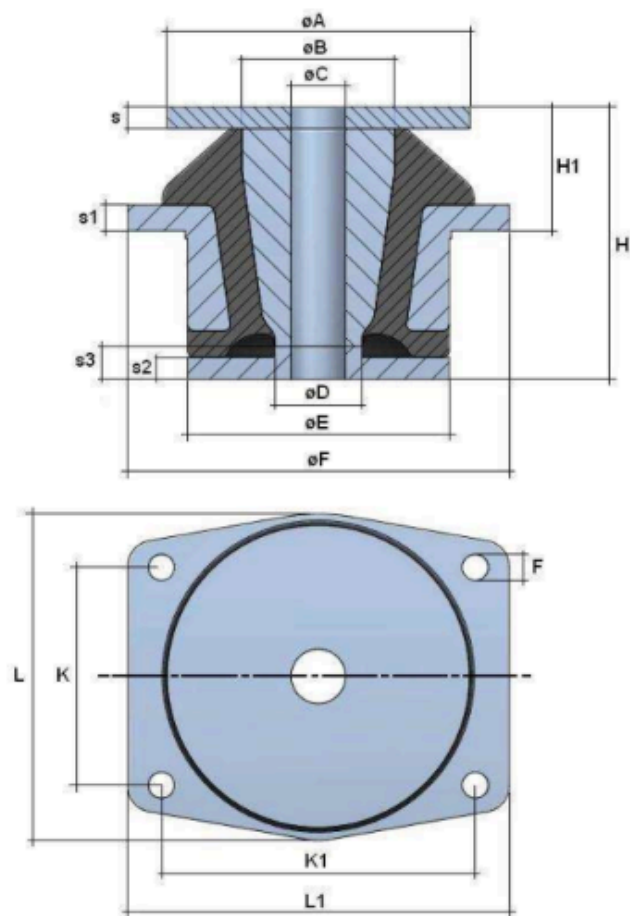
Article	K	L	K1	L1	I	$\phi A$	$\phi B$	$\phi C$	H	H1	F	s	s1	s2	Load (Kg)
76165/45	74	100	90	120	12	90	95	16,5	82	18	11	4	4	5	400
76165/60	74	100	90	120	12	90	95	16,5	82	18	11	4	4	5	700
76165/70	74	100	90	120	12	90	95	16,5	82	18	11	4	4	5	1100
94377	109	140	112	120	-	109	109	20	95	23	11	-	4,5	-	
93819	112±0,2	140	92±0,2	120		93		16	81	20±0,5	11	4,3			



Article	K	L	K1	L1	øA	øB	øC	øD	øE	H	H1	F	s	s1	s2	s3	T	Load (Kg)
68952/45	92	120	112	140	110	20.5	21	95	103	107.5	27	11	7	5.5	14	8	10	500
68952/60	92	120	112	140	110	20.5	21	95	103	107.5	27	11	7	5.5	14	8	10	1100
68952/70	92	120	112	140	110	20.5	21	95	103	107.5	27	11	7	5.5	14	8	10	1560



Article	K	I	L	K1	I1	L1	øA	øB	øC	øD	H	H1	s	Load (Kg)
68542/45	99	92	121	111	97	140	110	54	20.5	115	86	21	5	900
68542/60	99	92	121	111	97	140	110	54	20.5	115	86	21	5	1250
68542/70	99	92	121	111	97	140	110	54	20.5	115	86	21	5	/



Article	K	L	K1	L1	øA	øB	øC	øD	øE	øF	H	H1	s	s1	s2	s3	F	Load (Kg)
68057/55	100	150	144	175	139	70	25	40	120	175	125	57	10	12	10	15	12	1750
68057/65	100	150	144	175	139	70	25	40	120	175	125	57	10	12	10	15	12	2000
68047/45	100±0.2	150±0.2	144±0.3	175±0.2	143	139	25	40	120	175	47	58	10	12	10	15	12±0.2	730
68047/55	100±0.2	150±0.2	144±0.3	175±0.2	143	139	25	40	120	175	47	58	10	12	10	15	12±0.2	120

## **Cone-shaped Anti-Vibration Cab Mount with star-shaped base**



Conical anti-vibration mounts for cabins with star-shaped bases are specialised devices designed to reduce vibrations and noise in vehicle cabins, industrial machinery and other structures. The star-shaped base, with its radial projections, is a design feature that offers several advantages over traditional circular or square bases. Below, we analyse the main benefits and characteristics of this configuration.

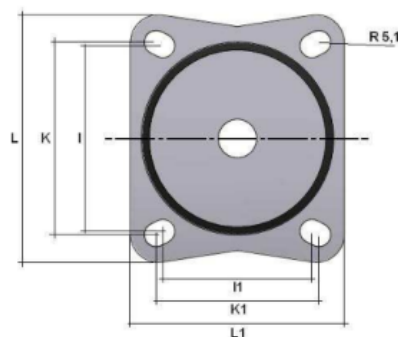
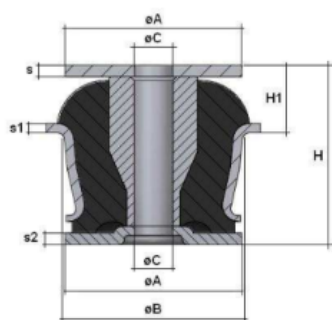
### **Main features**

The star-shaped base is used in anti-vibration mounts for vehicle cabins (tractors, excavators, trucks), railway machinery, cooling systems and industrial installations. It is particularly effective in contexts that require high resistance to dynamic loads and shocks, such as in the cabins of construction or agricultural machinery. The structure combines high elasticity (thanks to the rubber layer) with mechanical strength (provided by the metal base), ensuring durability and safety, even in rollover resistance tests (ROPS).

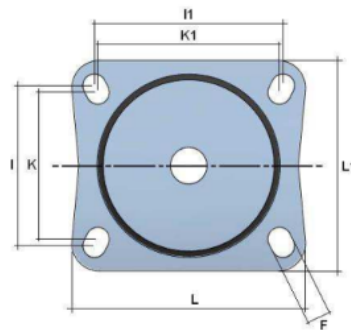
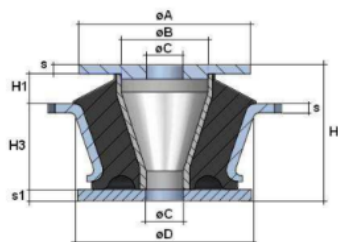
In summary, the star base in conical anti-vibration mounts for cabins represents an advanced engineering solution that improves stability, fastening reliability and vibration absorption efficiency, making these mounts ideal for complex operating conditions in mobile and industrial applications.

## Advantages of the star-shaped base:

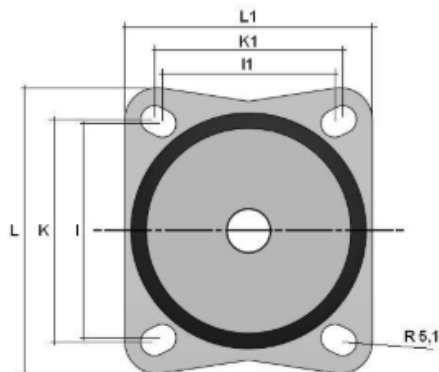
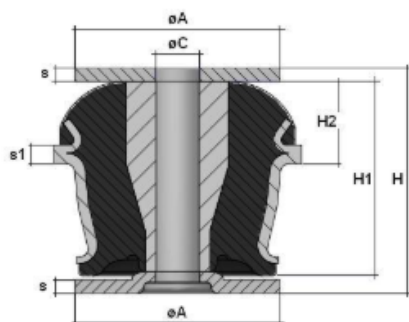
1. Greater stability and load distribution. The star shape, with its radial projections, ensures greater contact surface with the support base, improving the stability of the structure, especially in the presence of high dynamic loads, such as vibrations or shocks, typical of mobile applications (e.g. tractor cabs, trucks or construction machinery). The radial projections distribute the load evenly, reducing the risk of deformation or displacement of the support.
2. Better grip and fastening. The star shape often includes holes or recesses for fasteners, simplifying assembly and increasing the reliability of the anchorage. This configuration minimises the possibility of the support slipping or rotating under the effect of vibrations. In addition, the star base adapts better to uneven surfaces, a crucial aspect in difficult operating environments, such as rough terrain or industrial settings.
3. Optimisation of vibration absorption. The star geometry facilitates more effective dissipation of vibration energy. Thanks to its structure, the mount is better able to handle multidirectional loads (axial and radial), making it ideal for applications in cabins where vibrations come from different directions (e.g., from the engine, suspension or uneven terrain).



Article	K	I	K1	I1	L	L1	H	H1	øA	øB	øC	s	s1	s2	Load (Kg)
80165/50	82,5	79,5	70	64	106	92	77	29	76	80	16,5	5	4	5	310
80165/60	82,5	79,5	70	64	106	92	77	29	76	80	16,5	5	4	5	500
80165/70	82,5	79,5	70	64	106	92	77	29	76	80	16,5	5	4	5	750

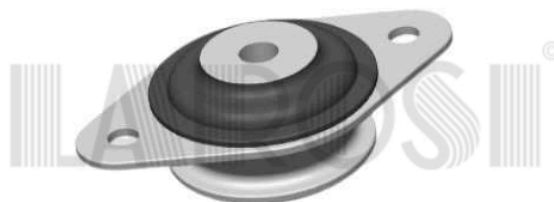


Article	K	I	L	K1	I1	L1	$\phi A$	$\phi B$	$\phi C$	$\phi D$	H	H1	H2	s	s1	F	Load (Kg)
78561/45	64	70	102	79,5	82,5	92	75	38	16	78	59,5	13	37,5	4	5	10,2	180
78561/60	64	70	102	79,5	82,5	92	75	38	16	78	59,5	13	37,5	4	5	10,2	300
78561/70	64	70	102	79,5	82,5	92	75	38	16	78	59,5	13	37,5	4	5	10,2	500



Article	K	I	K1	I1	L	L1	H	H1	H2	$\phi A$	$\phi C$	s	s1	Load (Kg)
76016/45	82,5	79,5	70	64	106	92	83,5	72	30,5	76	16	5	7	300
76016/60	82,5	79,5	70	64	106	92	83,5	72	30,5	76	16	5	7	600
76016/70	82,5	79,5	70	64	106	92	83,5	72	30,5	76	16	5	7	900

## Cone bearing for vehicle cabins

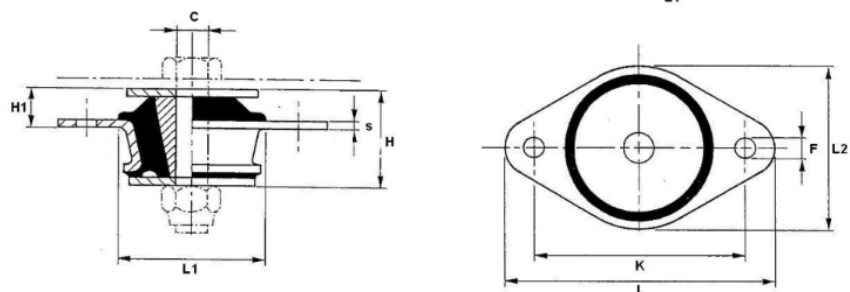


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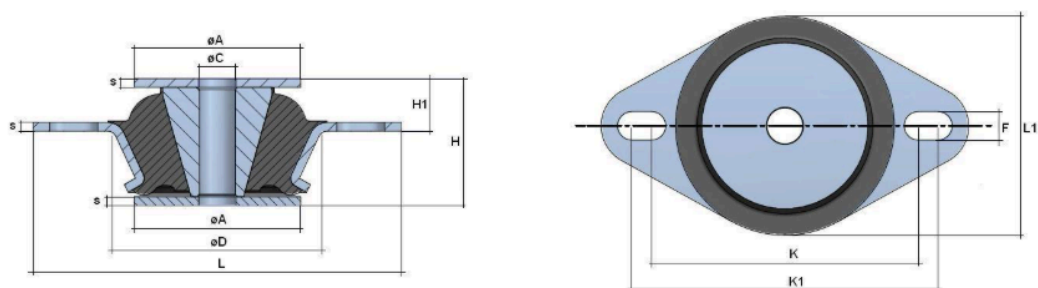
### Main features

The **Cone bearing for vehicle cabins** is a conical device designed to effectively dampen vibrations and noise. Made of natural rubber and galvanised steel, it offers optimal stability and resistance. Ideal for cabins, industrial machinery and mechanical applications, it ensures secure and durable fastening. Available in different hardnesses, it adapts to specific needs, ensuring reliable performance in a compact and functional design.

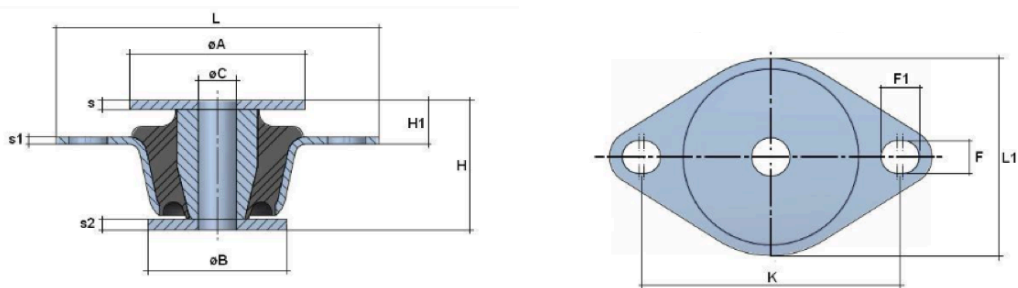
The cone-shaped anti-vibration mount is an essential component designed to minimise vibrations and noise in mechanical and industrial applications. Made from high-quality materials, such as natural or synthetic rubber and resistant steel, this cone-shaped mount offers effective protection against dynamic stresses. Its compact and robust structure makes it perfect for ensuring stability and comfort in environments subject to intense movement, such as industrial machinery and heavy vehicles.



Article	H	K	L	F	L2	s	C	H1
90930	27,5	64	84	6,5	50	2	8	12,5
90930A	30,5	64	84	6,5	46	2	8	12,5



Article	K	K1	L	L1	øA	øC	øD	H	H1	s	F	Load (Kg)
46288/45	61	70	84	50	38	8,2	46	29	12	2	6,5	40
46288/60	61	70	84	50	38	8,2	46	29	12	2	6,5	70
46288/70	61	70	84	50	38	8,2	46	29	12	2	6,5	105



Article	K	øC	øA	øB	L	L1	H	H1	F	F1	s	s1	s2	Load(Kg)
46289/45	70,9	10,5	48	38	88,4	54	35,5	12	9	11	2,5	2	3	50
46289/60	70,9	10,5	48	38	88,4	54	35,5	12	9	11	2,5	2	3	90
46289/70	70,9	10,5	48	38	88,4	54	35,5	12	9	11	2,5	2	3	/

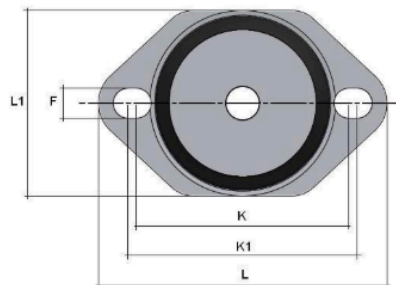
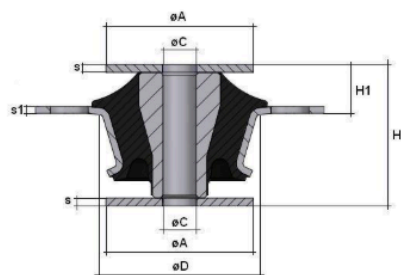
## **Cone bearing for vehicle cabins with slots**

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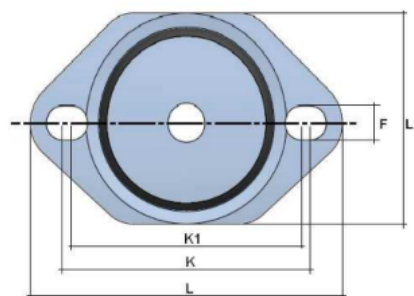
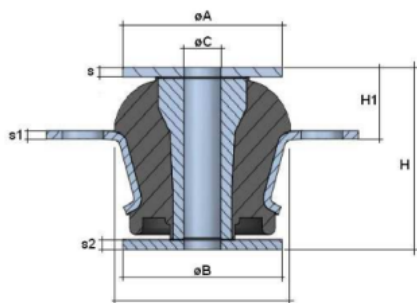
### **Main features**

Anti-vibration mounts with slots are used in vehicle cabins, industrial plants and other systems that require effective vibration damping with a certain degree of mounting flexibility. The elongated holes make these mounts ideal for applications where positioning accuracy may vary or in structures subject to dynamic loads. For example, they are used in tractor, excavator or truck cabins, where vibrations from the engine or uneven ground require a robust but adaptable mounting. In addition, these mounts help to extend the life of the structure by reducing stress at the mounting points.

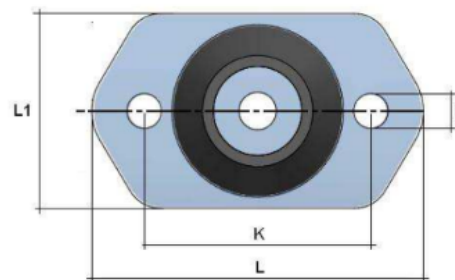
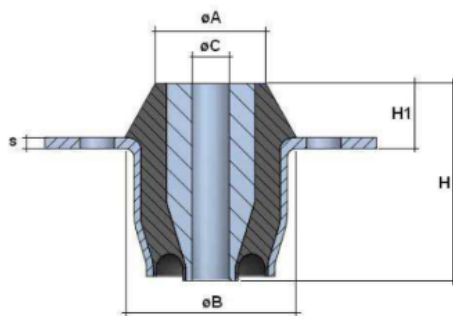
In summary, the elongated holes in conical anti-vibration mounts for cabins offer ease of installation, flexibility of adjustment and compensation for dynamic loads, making them particularly sought after in complex operating conditions that require reliability and adaptability.



Article	K	K1	L	L1	øA	øC	øD	H	H1	s	s1	F	Load (Kg)
60511/45	78	84	106	68	54	12,2	60	52	18	3	2,5	11	100
60511/60	78	84	106	68	54	12,2	60	52	18	3	2,5	11	180
60511/70	78	84	106	68	54	12,2	60	52	18	3	2,5	11	270



Article	K	K1	øC	øA	øB	L	L1	H	H1	F	s	s1	s2	Load (Kg)
60512/45	84	78	12,5	54	54	106	68	55,5	21,5	11	3	2,5	3	120
60512/55	84	78	12,5	54	54	106	68	55,5	21,5	11	3	2,5	3	170
60512/70	84	78	12,5	54	54	106	68	55,5	21,5	11	3	2,5	3	270



Article	K	K1	$\phi C$	$\phi A$	$\phi B$	L	L1	H	H1	F	s	Load (Kg)
61134/45	70	44	12	40	61,5	120	70	71	23,5	11	4	250
61134/60	70	44	12	40	61,5	120	70	71	23,5	11	4	450
61134/70	70	44	12	40	61,5	120	70	71	23,5	11	4	690
61132/45	82		13,5	40	61,5	120	70	71	23,5	12,5	4	250
61132/60	82		13,5	40	61,5	120	70	71	23,5	12,5	4	450
61132/70	82		13,5	40	61,5	120	70	71	23,5	12,5	4	690

## **Cone bearing with star-shaped base and slots**



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The Conical Anti-Vibration Mount with hollow slots in the elastomer is a conical anti-vibration device featuring hollow holes (hollow slots) in the elastomer part, which guarantee a certain degree of freedom of movement in a specific direction. This design feature offers unique advantages, making these mounts particularly suitable for certain operating conditions. Let's take a closer look at the benefits and unique features of this configuration.

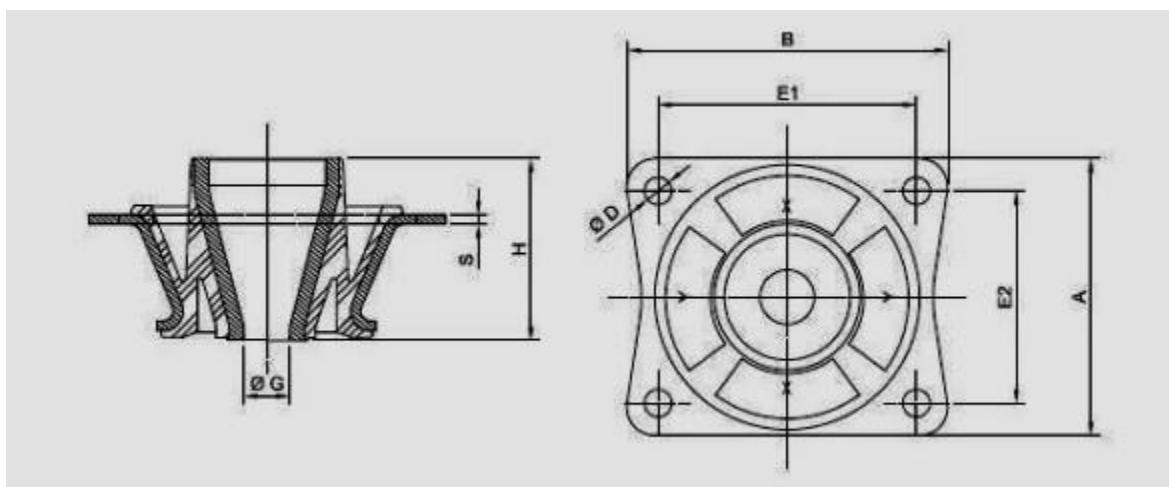
### **Advantages of hollow slots in the elastomer:**

1. **Controlled freedom of movement.** The hollow slots in the elastomer (the rubber or polymer part of the mount) allow the mount to be more flexible in a specific direction, usually horizontal or radial, while maintaining rigidity in other directions (e.g., axial). This ensures effective vibration damping in situations where loads are predominantly unidirectional, such as in the lateral movements of vehicle cabins (tractors, excavators, trucks) or when driving on uneven surfaces. This configuration minimises the transmission of vibrations to the cabin, improving operator comfort.
2. **Greater adaptability and durability.** The cavities in the elastomer reduce internal stresses in the material during deformation, increasing the longevity of the support. These allow the elastomer to better absorb the energy of vibrations and shocks, preventing premature deterioration. In addition, this structure ensures a softer response to dynamic loads, which is crucial in environments subject to intense and frequent vibrations, such as in agricultural or construction machinery.

## Features and areas of application:

Anti-vibration mounts with hollow slots in the elastomer are used in contexts that require a balance between effective vibration damping and controlled freedom of movement in a specific direction. These mounts are ideal for vehicle cabins, where it is necessary to compensate for lateral or horizontal vibrations caused by uneven ground or engine operation. They are also used in industrial plants, such as ventilation systems or compressors, where flexibility in one direction is required while maintaining the overall stability of the structure. The hollow slot design makes these mounts versatile for applications where comfort and protection of equipment from wear are essential.

In summary, hollow slots in the elastomer ensure controlled mobility, better vibration absorption and longer life, making these mounts an optimal choice for complex operating conditions that require a balance between flexibility and stability.



Article	A	B	H	G	D	E1	E2	K	S1
MET-A26AY	92	105	56	16,3	10,5	82,7	69,5	75	4
MET-A26AX	92	105	56	16,3	10,5	82,7	69,5	75	4