# Solid cone mounts

## Conical rubber-metal mounts offering symmetrical radial stiffness through 360°, robust construction and effective vibration isolation.




The **AMC-MECANOCAUCHO® Solid Cone mounts** are rubber-metal vibration isolators consisting of two concentric metal parts bonded by an elastomeric element.

Thanks to their **solid and symmetrical conical geometry**, they provide **the same radial stiffness in all directions through 360°**. This characteristic ensures consistent behaviour regardless of the direction of radial forces and makes them particularly suitable for applications subjected to **multidirectional loads**.

The elastomer works in **compression and shear**, combining **vibration isolation, stability and motion control** under static and dynamic loads.

The mounts are equipped with **two metal washers**, one acting as a **fail-safe rebound stop** and the other providing **mount centring**, ensuring a robust and reliable installation.

Thanks to their compact and robust design, Solid Cones are particularly suitable for **engines, generator sets, auxiliary machinery, industrial vehicles and mobile machinery**.

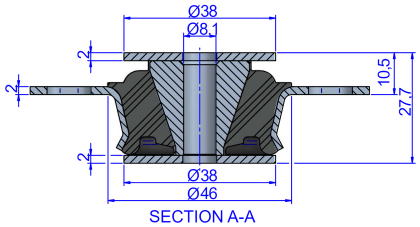
**AMC MECANOCAUCHO**
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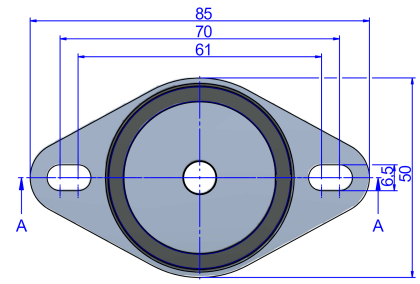
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# Drawings

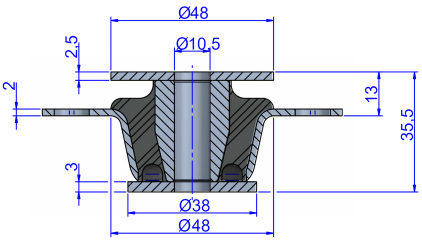
## 01 / 02 / 11

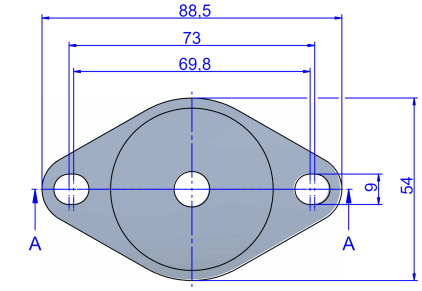
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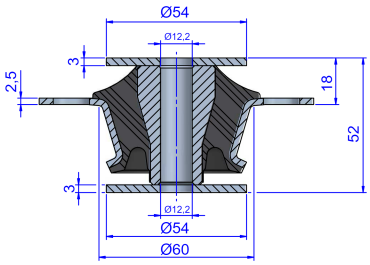



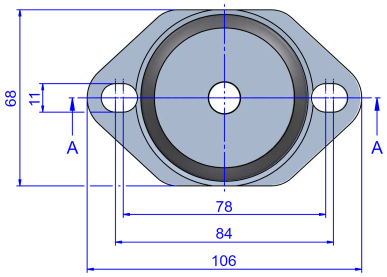

**02**




**11**



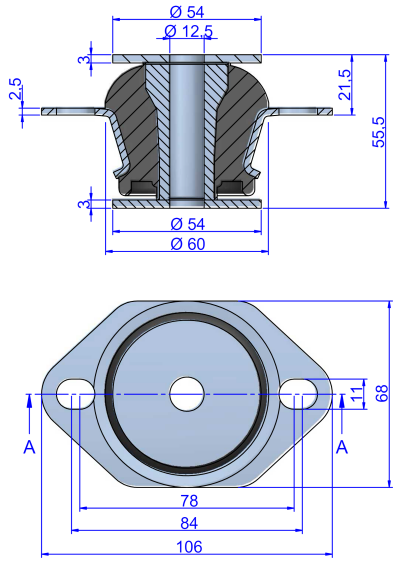

| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 01 | 20,5 | 128 | 137005 | 40 | 45 Sh |
| | | | 137006 | 70 | 60 Sh |
| | | | 137015 | 105 | 70 Sh |
| 02 | 71 | 132 | 137010 | 50 | 45 Sh |
| | | | 137011 | 90 | 60 Sh |
| 11 | 71 | 409 | 137021 | 100 | 45 Sh |
| | | | 137022 | 180 | 60 Sh |
| | | | 137023 | 270 | 70 Sh |

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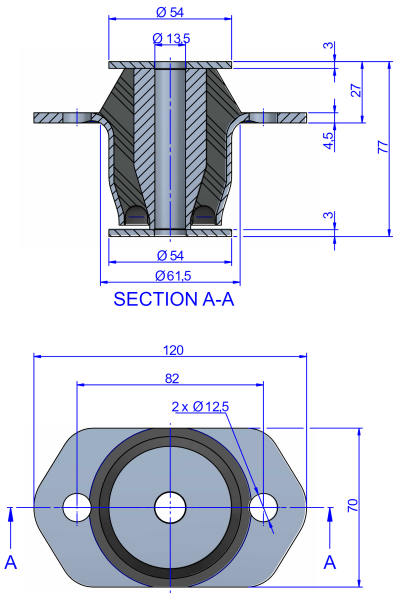
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## 13 / 14 - 2 holes / 14 - 4 holes

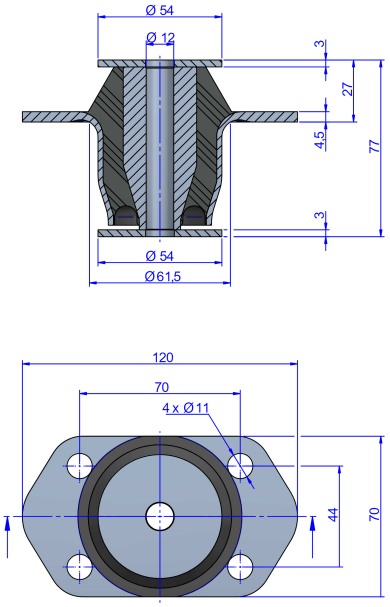
**13**




**14-2**




**14-4**



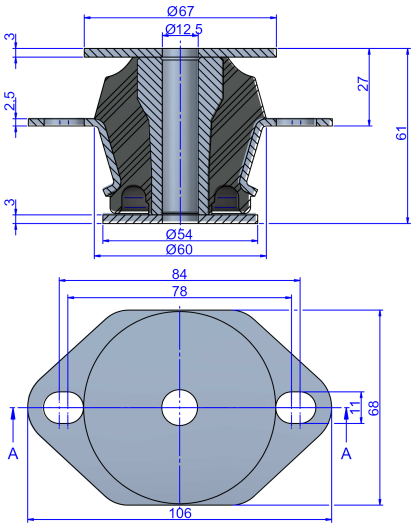

| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 13 | 71 | 450 | 137921 | 120 | 45 Sh |
| | | | 137922 | 170 | 55 Sh |
| | | | 137925 | 270 | 70 Sh |
| 14 - 2 holes | 71 | 643 | 137930 | 250 | 45 Sh |
| | | | 137628 | 500 | 65 Sh |
| 14 - 4 holes | 71 | 662 | 137935 | 250 | 45 Sh |
| | | | 137936 | 450 | 662 |
| | | | 137937 | 690 | 70 Sh |

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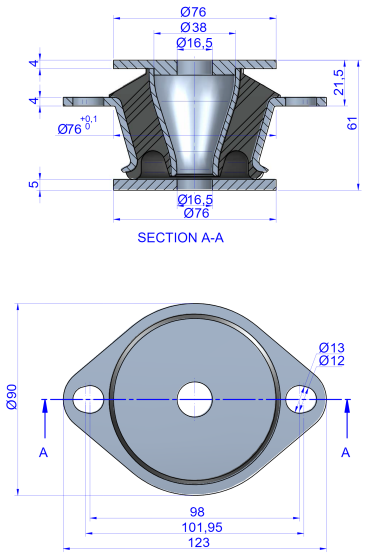
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## 17 / 21 - 2 holes / 21 - 4 holes

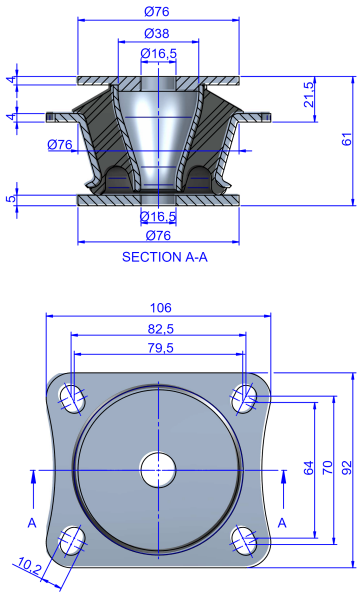
### 17




### 21-2




### 21-4



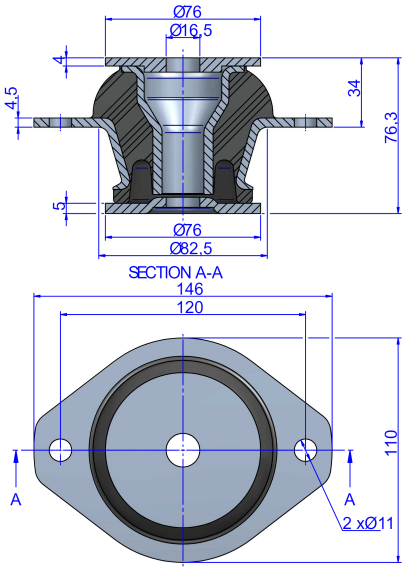

| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 17 | 71 | 410 | 137903 | 160 | 45 Sh |
| | | | 137904 | 250 | 60 Sh |
| | | | 137905 | 350 | 70 Sh |
| 21 - 2 holes | 113 | 787 | 137470 | 180 | 45 Sh |
| | | | 137472 | 300 | 60 Sh |
| | | | 137474 | 500 | 70 Sh |
| 21 - 4 holes | 113 | 560 | 137071 | 180 | 45 Sh |
| | | | 137074 | 300 | 60 Sh |
| | | | 137079 | 500 | 70 Sh |

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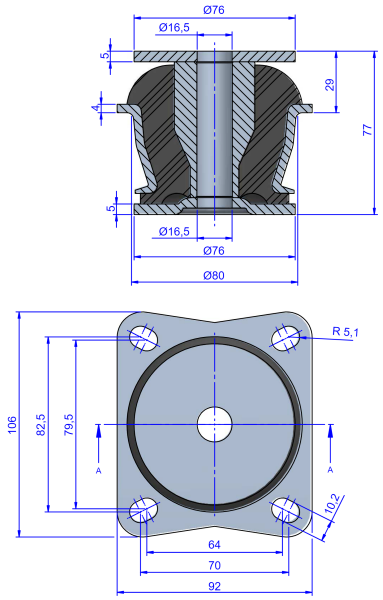
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## 27 / 31 / 33

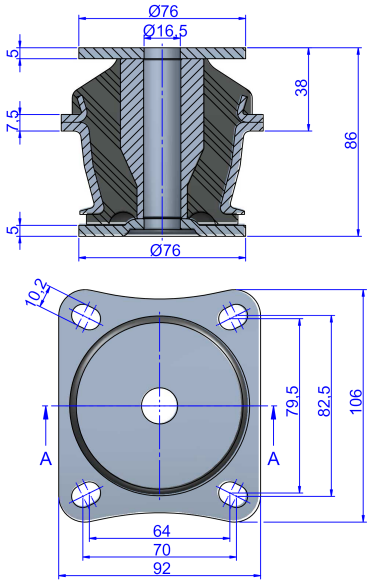
### 27




### 31




### 33



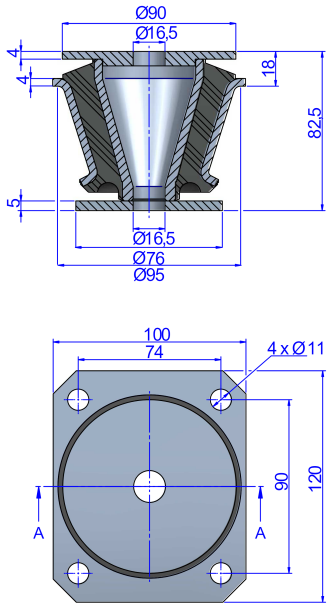

| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 27 | 170 | 1175 | 137142 | 245 | 40 Sh |
| | | | 137143 | 350 | 50 Sh |
| | | | 137144 | 500 | 60 Sh |
| 31 | 170 | 1188 | 137063 | 310 | 50 Sh |
| | | | 137061 | 500 | 60 Sh |
| | | | 137062 | 750 | 70 Sh |
| 33 | 170 | 1462 | 137075 | 300 | 45 Sh |
| | | | 137077 | 600 | 60 Sh |
| | | | 137078 | 900 | 70 Sh |

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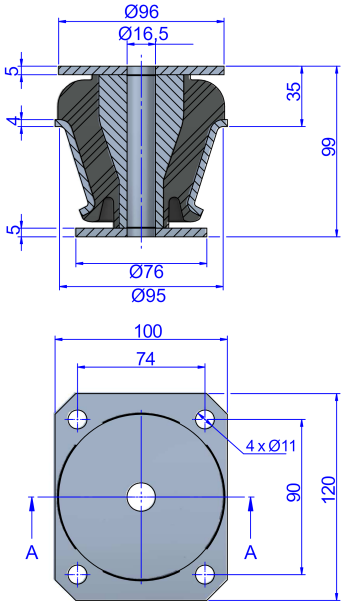
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## 36 / 39 / 40

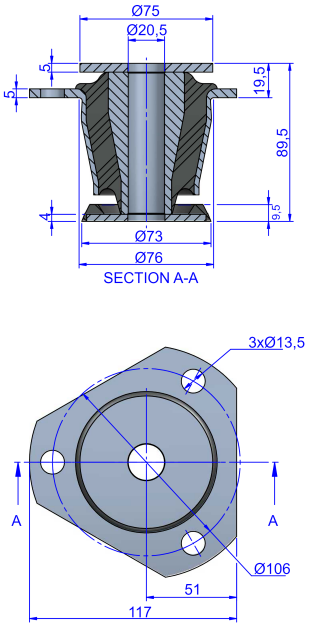
**36**




**39**




**40**



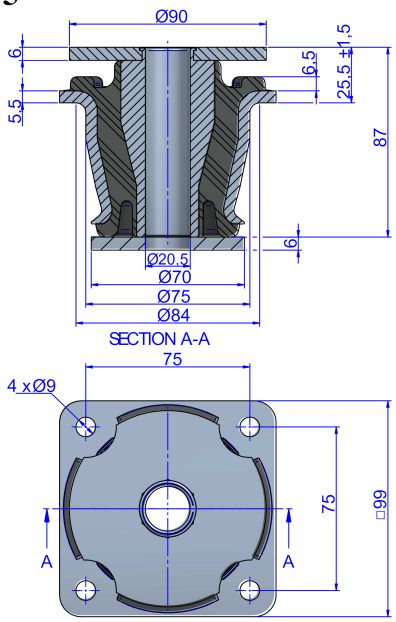

| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 36 | 170 | 1410 | 137171 | 400 | 45 Sh |
| | | | 137172 | 700 | 60 Sh |
| | | | 137173 | 1100 | 70 Sh |
| 39 | 170 | 1438 | 137981 | 400 | 40 Sh |
| | | | 137982 | 600 | 50 Sh |
| | | | 137983 | 900 | 60 Sh |
| | | | 137984 | 1100 | 70 Sh |
| 40 | 245 | 1216 | 137081 | 420 | 45 Sh |
| | | | 137082 | 690 | 60 Sh |
| | | | 137083 | 1080 | 70 Sh |

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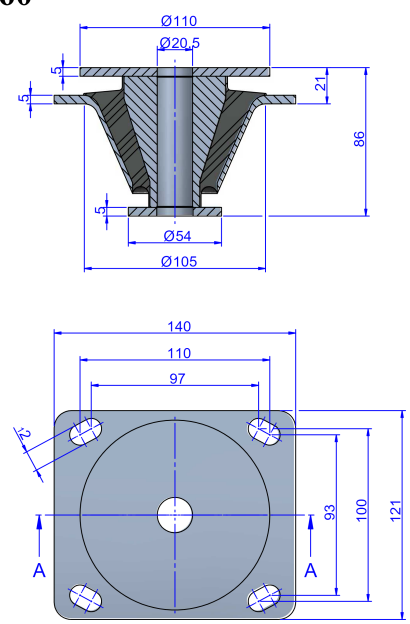
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## 45 / 60 / 62

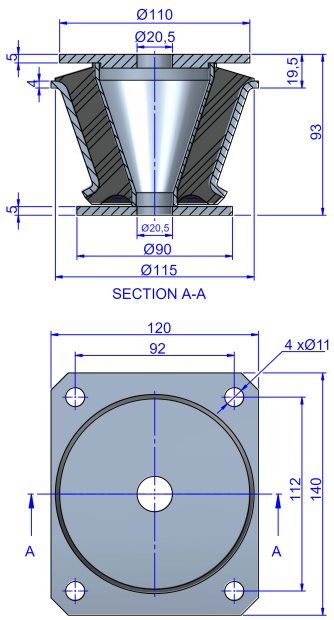
**45**




**60**




**62**




| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 45 | 245 | 1751 | 137595 | 420 | 45 Sh |
| | | | 137596 | 700 | 60 Sh |
| | | | 137597 | 1100 | 70 Sh |
| 60 | 350 | 1821 | 137091 | 900 | 45 Sh |
| | | | 137092 | 1250 | 60 Sh |
| | | | 137093 | 1560 | 70 Sh |
| 62 | 170 | 1946 | 137208 | 450 | 45 Sh |
| | | | 137226 | 1000 | 60 Sh |
| | | | 137232 | 1400 | 70 Sh |

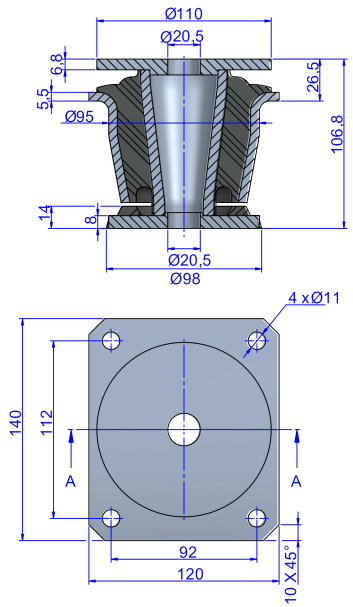

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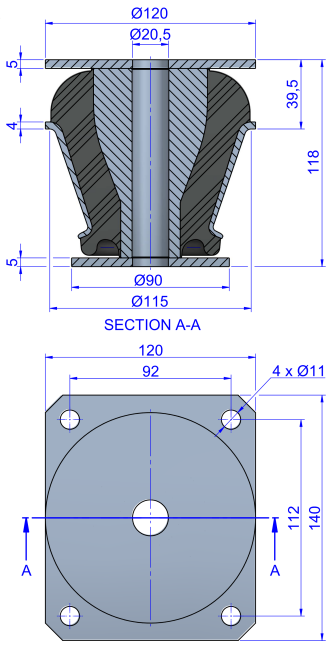
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## 65 / 68 / 70

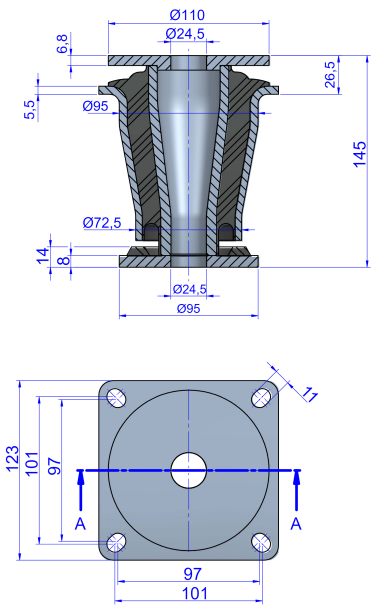
65




68




70



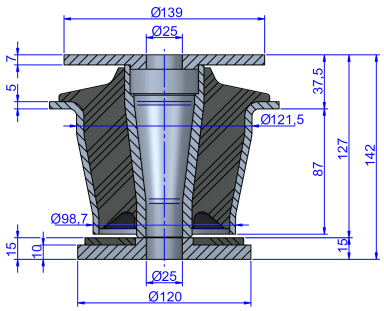

| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 65 | 350 | 2965 | 137176 | 500 | 50 Sh |
| | | | 137177 | 1100 | 65 Sh |
| | | | 137178 | 1560 | 75 Sh |
| 68 | 350 | 3267 | 137738 | 750 | 40 Sh |
| | | | 137739 | 1300 | 50 Sh |
| | | | 137740 | 1700 | 60 Sh |
| | | | 137741 | 2200 | 70 Sh |
| 70 | 600 | 3450 | 137101 | 1000 | 45 Sh |
| | | | 137102 | 2100 | 60 Sh |
| | | | 137103 | 2500 | 70 Sh |

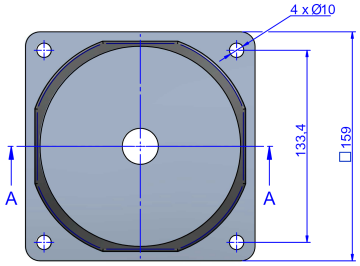
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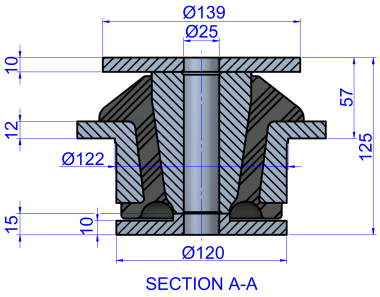
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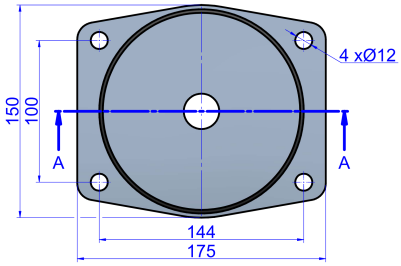
### 75



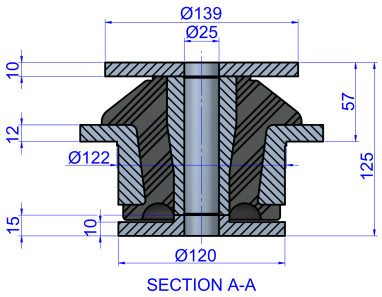



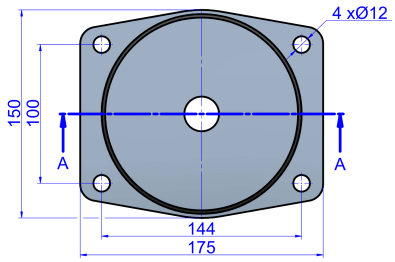

### 121 NG




### 121 NP



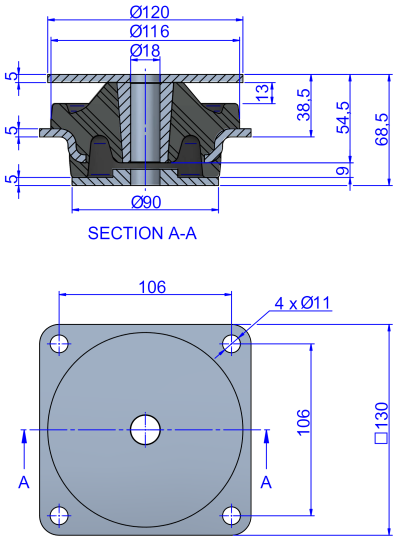




| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 75 | 600 | 4230 | 137786 | 850 | 45 Sh |
| | | | 137787 | 1600 | 60 Sh |
| 121 NG | 600 | 7840 | 137830 | 1750 | 55 Sh |
| | | | 137833 | 2000 | 65 Sh |
| 121 NP | 600 | 6940 | 137841 | 730 | 45 Sh |
| | | | 137829 | 1200 | 55 Sh |

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# 141

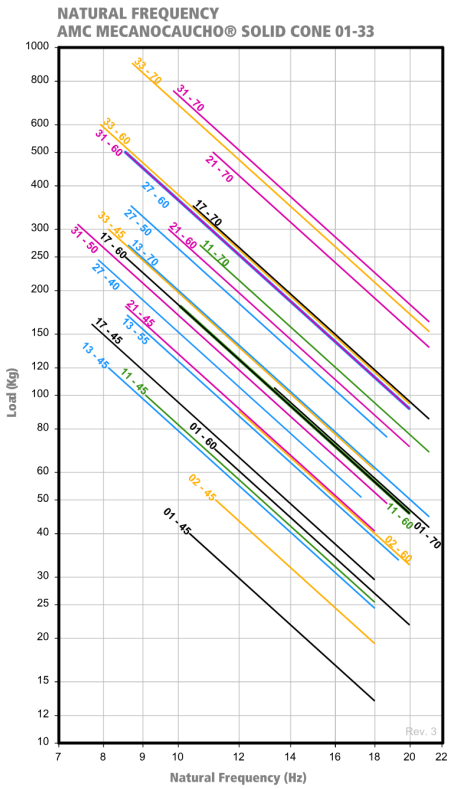


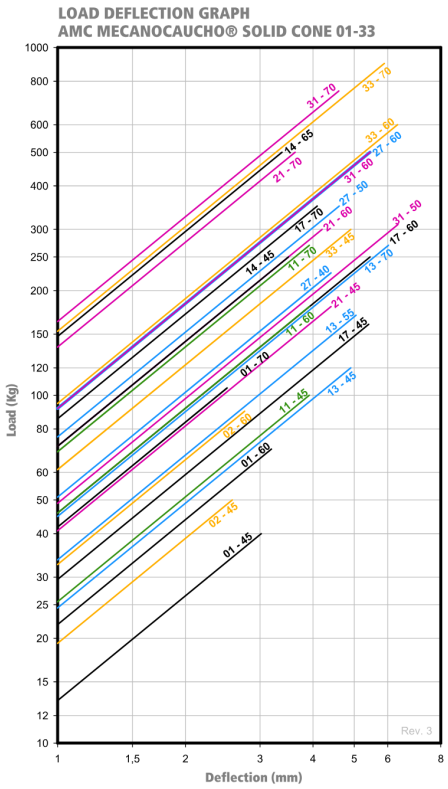

| Type | Tightening torque Max. (Nm) | Weight(gr) | Code | Max. Load(kg) | Shore |
|---|---|---|---|---|---|
| 141 | 245 | 1039 | 137891 | 175 | 50 Sh |
| | | | 137893 | 250 | 60 Sh |

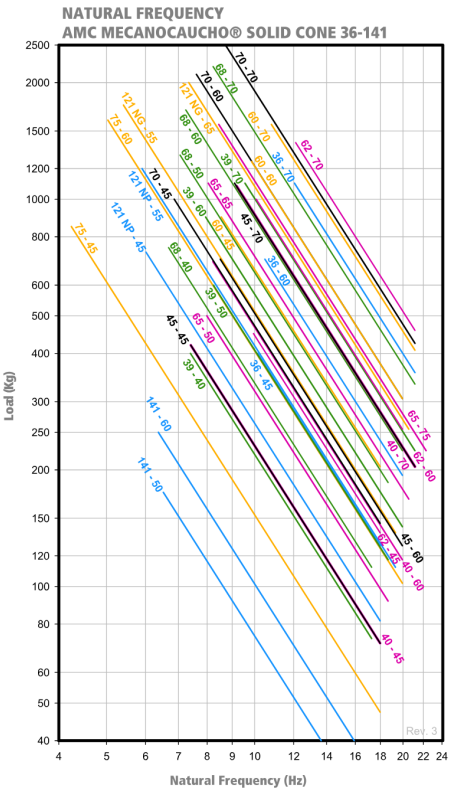
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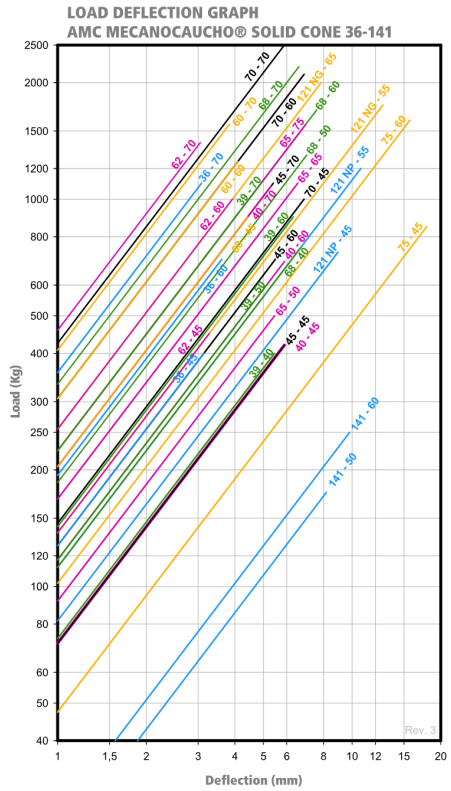
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# Elastic properties




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## Technical characteristics

The AMC-Mecanocaucho® Cone mounts are safe and stable elements. They do not allow the suspended elements to tilt, while being flexible enough to avoid the transmission of noise and vibration through the structure.

They are supplied with stop and centering washers. This renders deflection above the limits of the Mecanocaucho® Cones impossible, even at extreme loads.

The washers protect the natural rubber (which is highly elastic and highly resistant) from ozone and aging, as well as from metal knocks and dripping oil. The characteristic deflection curves of the AMC-Mecanocaucho® Cone mounts with centering washer are quite linear, increasing progressively as the load increases. Thanks to this they can safely dampen overloads of up to three times the maximum admissible load.

## Advantages

### Mount offering high stability

Suspensions built with this mount barely move, thanks to a geometry designed to control the movement of the suspended element.

### High robustness in dynamic applications for improved durability

These mounts offer enhanced robustness and are designed to withstand extreme load peaks. They are especially recommended where good durability is required in demanding applications.

### High protection against weathering and chemical contamination

The bell housing protects the rubber from ozone and UV radiation, while also preventing contact with diesel, oils or other chemicals that could damage it.

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