Hydraulic Conical Vibration Isolator

Conical vibration isolator with hydraulic damping, combining low vertical stiffness, high radial stiffness, and movement control for demanding dynamic applications.



The **AMC-MECANOCAUCHO® Hydraulic Conical Vibration Isolator** combines the characteristics of a **conical vibration isolator** with those of a **hydraulic vibration isolator**, providing **effective vibration isolation, high lateral stability, and excellent movement control**.

Its conical design provides **low vertical stiffness**, which improves vibration isolation, while maintaining **high radial stiffness** to enhance the stability of suspended equipment and limit lateral movement.

The isolator also incorporates an **internal hydraulic fluid** that provides additional damping when subjected to dynamic movement. This damping helps to **control high-amplitude movements and reduce vibration amplification when passing through resonance**.

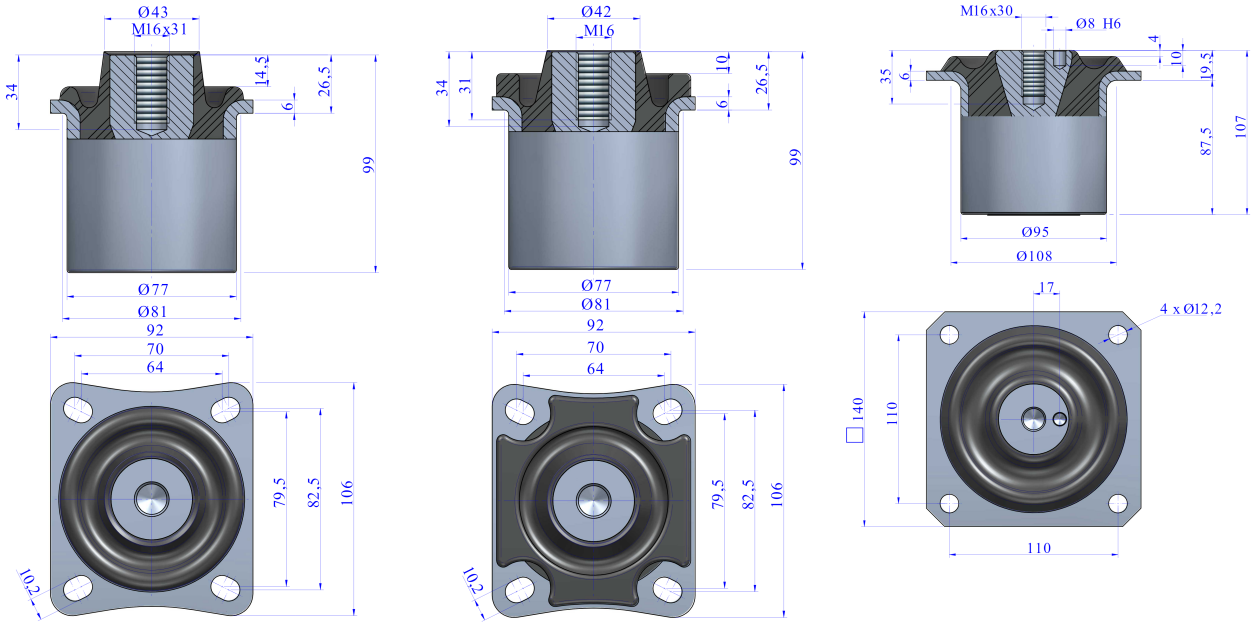
By combining **low vertical stiffness, high radial stiffness, and hydraulic damping**, the Hydraulic Conical Vibration Isolator can provide improved vibration isolation compared with a conventional conical vibration isolator while maintaining excellent movement control.

AMC MECANOCAUCHO
Industrialdea Zona A - Pab. 35.
Asteasu E-20159, Gipuzkoa
Spain
Tel.: +34 843 74 00 13
sales@amcsa.es
www.mecanocaucho.com

In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.

Drawings

HYDRAULIC CONE MOUNTS 31 / HYDRAULIC CONE MOUNTS 32 / HYDRAULIC CONE MOUNTS 70

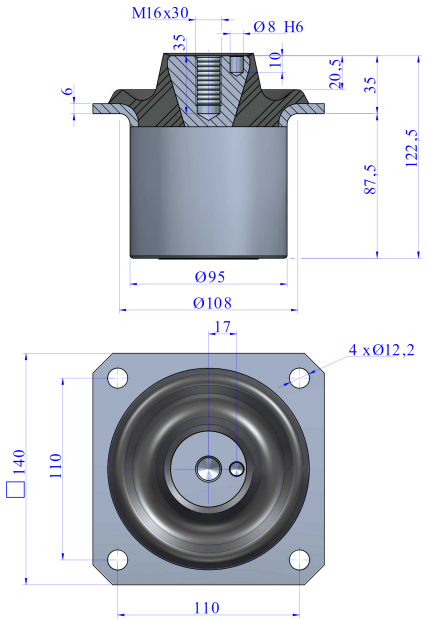


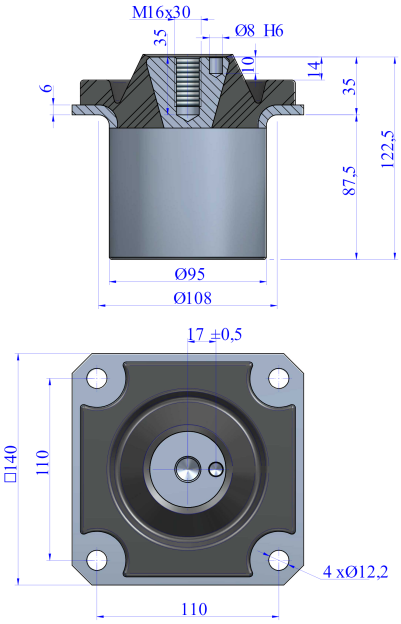
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
HYDRAULIC CONE MOUNTS 31	6.69	4	177081	551	40 Sh
			177085	683	45 Sh
			177082	815	50 Sh
			177083	1102	60 Sh
			177084	1433	70 Sh
HYDRAULIC CONE MOUNTS 32	6.69	4	177104	551	40 Sh
			177105	815	50 Sh
			177106	1102	60 Sh
			177107	1212	70 Sh
HYDRAULIC CONE MOUNTS 70	6.69	6	177051	661	40 Sh
			177052	1102	50 Sh
			177053	1543	60 Sh
			177054	1984	70 Sh

AMC MECANOCAUCHO
Industrialdea Zona A - Pab. 35.
Asteasu E-20159, Gipuzkoa
Spain
Tel.: +34 843 74 00 13
sales@amcsa.es
www.mecanocaucho.com

In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.

HYDRAULIC CONE MOUNTS 71 / HYDRAULIC CONE MOUNTS 72



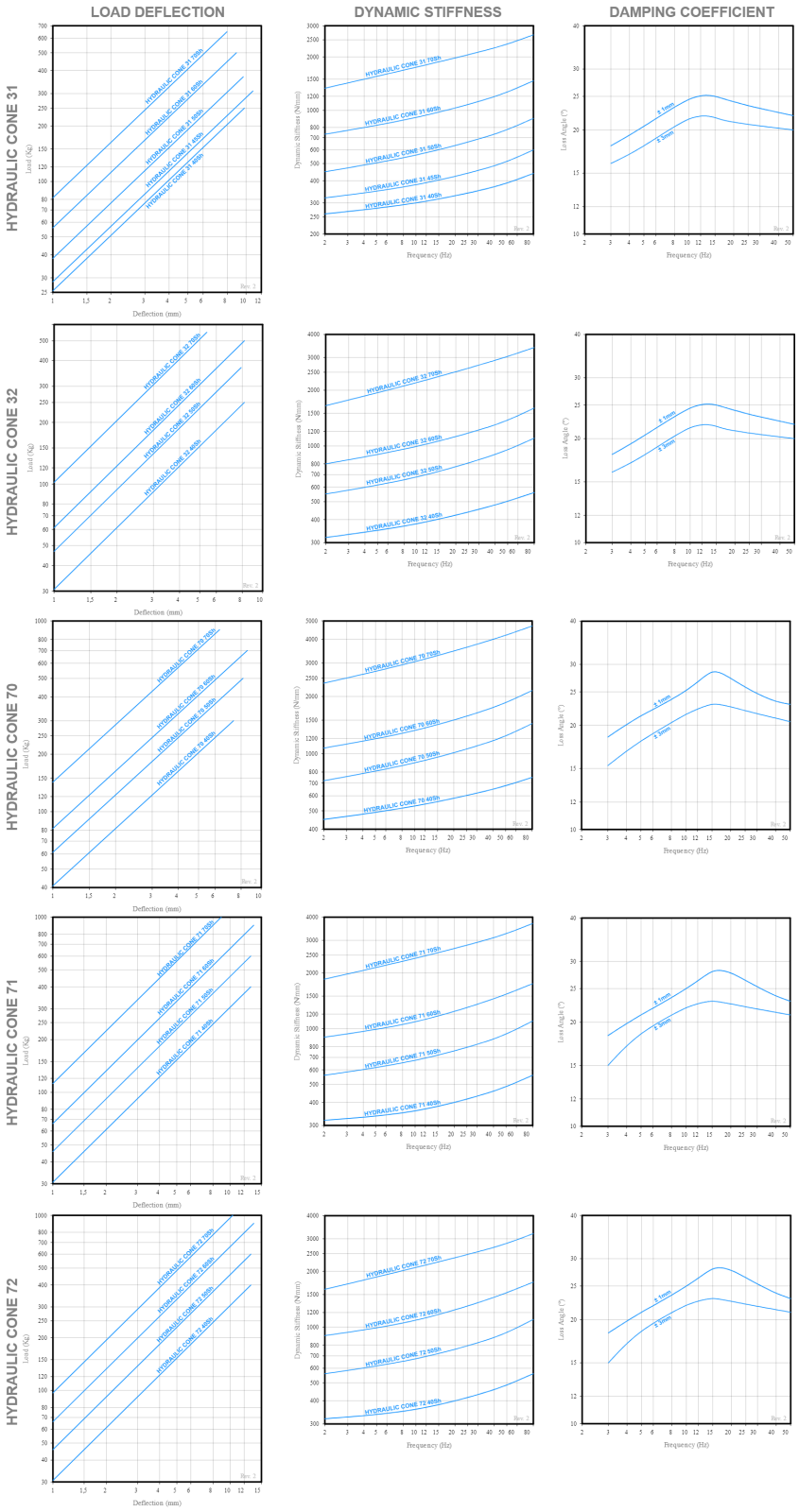


Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
HYDRAULIC CONE MOUNTS 71	6.69	7	177055	882	40 Sh
			177056	1322	50 Sh
			177057	1984	60 Sh
			177058	2204	70 Sh
HYDRAULIC CONE MOUNTS 72	6.69	7	177294	882	40Sh
			177295	1322	50Sh
			177296	1984	60Sh
			177297	2204	70Sh

AMC MECANOCAUCHO
Industrialdea Zona A - Pab. 35.
Asteasu E-20159, Gipuzkoa
Spain
Tel.: +34 843 74 00 13
sales@amcsa.es
www.mecanocaucho.com

In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.

Elastic properties



AMC MECANOCAUCHO
Industrialdea Zona A - Pab. 35.
Asteasu E-20159, Gipuzkoa
Spain
Tel.: +34 843 74 00 13
sales@amcsa.es
www.mecanocaucho.com

In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.

Technical characteristics

AMC MECANOCAUCHO® hydraulic shock absorbers have an advanced breakaway device inside the bearing that prevents tensile forces on the elastomer by limiting its upward vibration stoke. The newly-developed internal structure of the vibration dampener consists of a metal part system. The elastomer is vulcanised to the whole of this. This prevents a loss of hydraulic fluid should the vibration dampener be subject to great dynamic overloads.

The thickness of the metal parts ensures that the dampener is strong enough for mobile applications. The metal parts are treated with a resistant corrosion protection for outdoor use.

TECHNICAL ADVICE FOR FOPS ROPS APPROVAL

AMC-MECANOCAUCHO's technical department will be pleased to offer you advice on correct installation procedures to achieve FOPS/ROPS tests approvals.

These pictures show a typical traction test on rectangular hydraulic medium mount subjected to loads up to 4 Tons without destruction of the part. For more information on this topic, please contact our technical department.

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 when good durability is required in demanding applications.

Superior damping that reduces amplification and controls movement

The superior damping enhances equipment stability: when passing through resonance during startup and shutdown, energy is absorbed, resulting in reduced amplitude.

In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.