Hydraulic Cone Mount

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



The **AMC-MECANOCAUCHO® Hydraulic Cone Mount** combines the characteristics of a **conical mount** with those of a **hydraulic mount**, 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 mount 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 Mount can provide improved vibration isolation compared with a conventional conical mount while maintaining excellent movement control.

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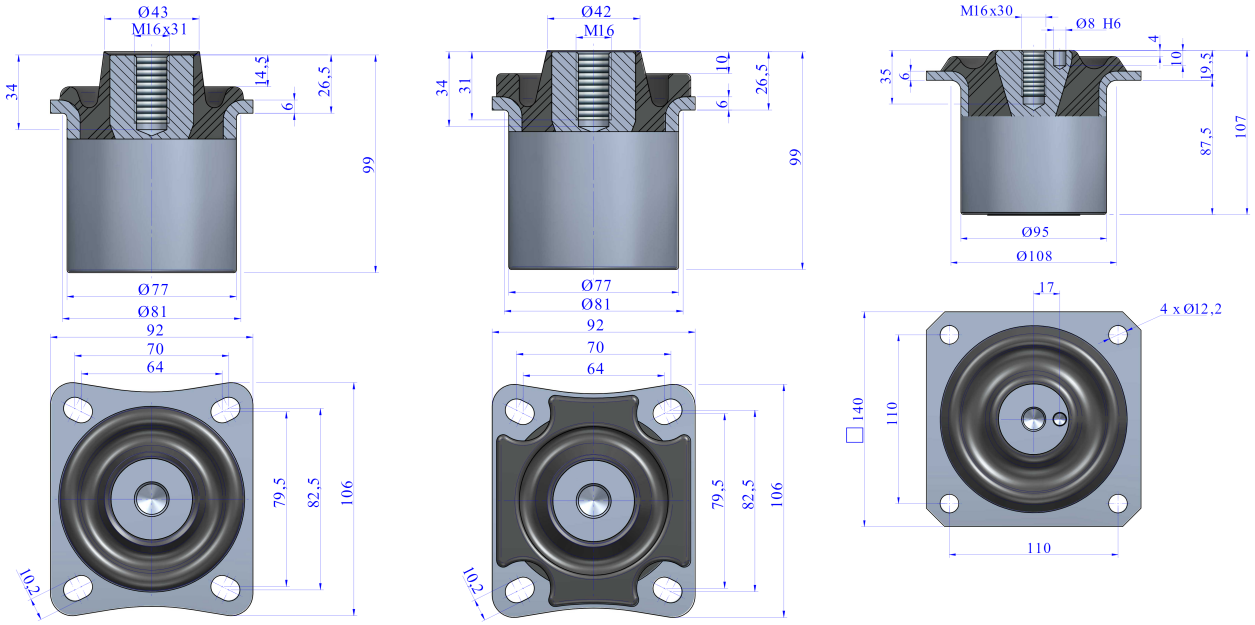
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Drawings

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

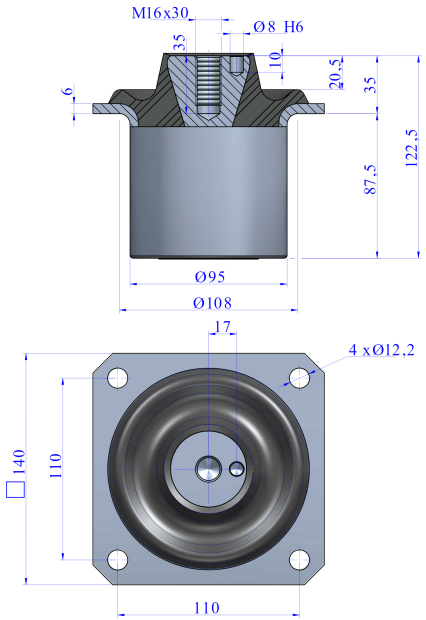


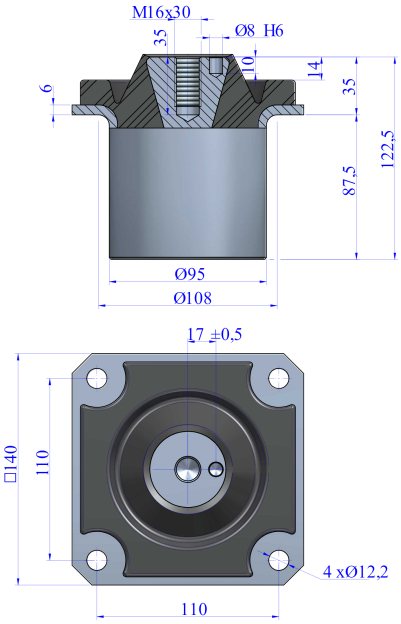
Type	Tightening torque Max. (Nm)	Weight(gr)	Code	Max. Load(kg)	Shore
HYDRAULIC CONE MOUNTS 31	170	1845	177081	250	40 Sh
			177085	310	45 Sh
			177082	370	50 Sh
			177083	500	60 Sh
			177084	650	70 Sh
HYDRAULIC CONE MOUNTS 32	170	1914	177104	250	40 Sh
			177105	370	50 Sh
			177106	500	60 Sh
			177107	550	70 Sh
HYDRAULIC CONE MOUNTS 70	170	2862	177051	300	40 Sh
			177052	500	50 Sh
			177053	700	60 Sh
			177054	900	70 Sh

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HYDRAULIC CONE MOUNTS 71 / HYDRAULIC CONE MOUNTS 72



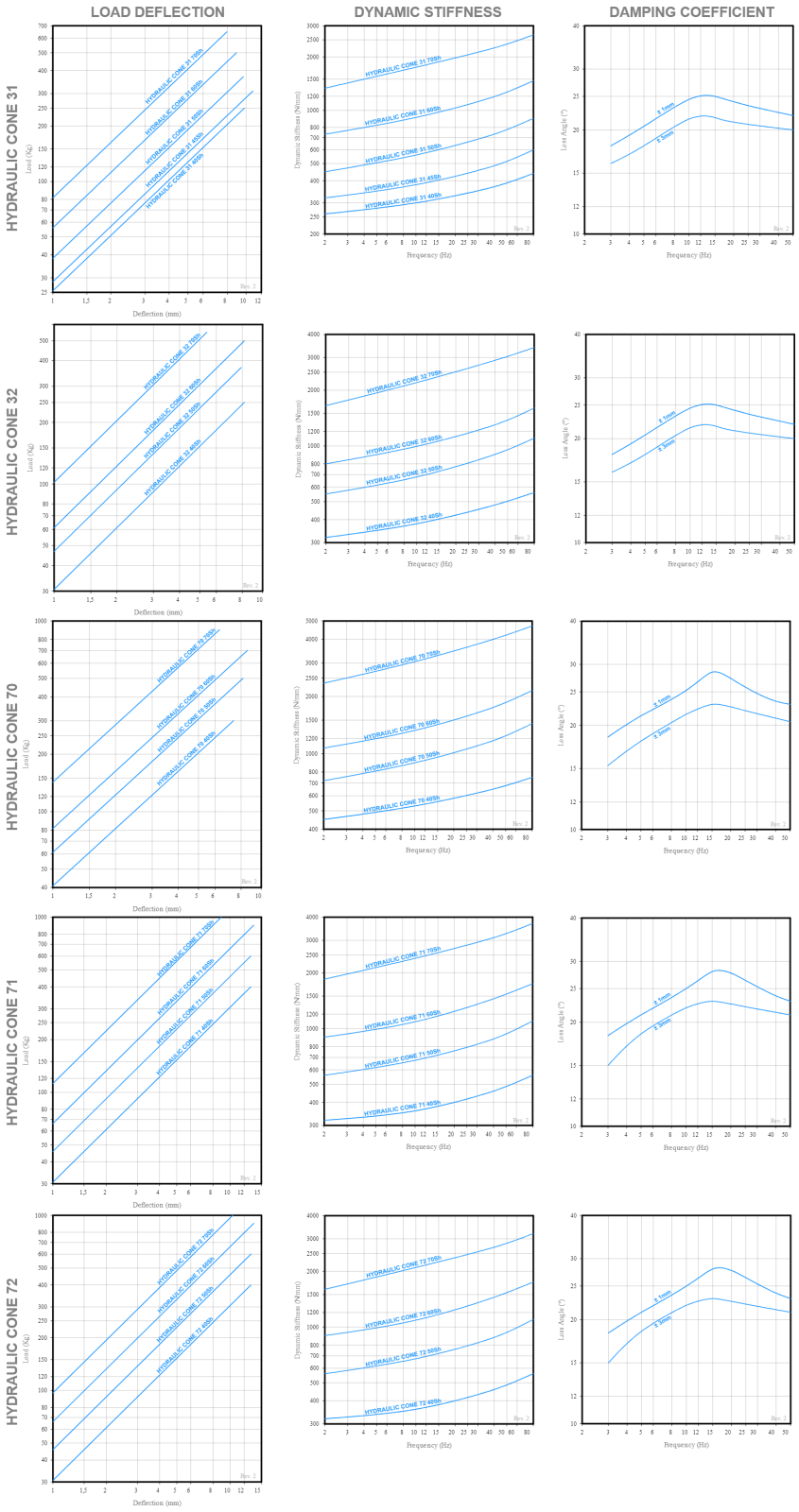


Type	Tightening torque Max. (Nm)	Weight(gr)	Code	Max. Load(kg)	Shore
HYDRAULIC CONE MOUNTS 71	170	2951	177055	400	40 Sh
			177056	600	50 Sh
			177057	900	60 Sh
			177058	1000	70 Sh
HYDRAULIC CONE MOUNTS 72	170	3003	177294	400	40Sh
			177295	600	50Sh
			177296	900	60Sh
			177297	1000	70Sh

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Elastic properties



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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 where 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 start-up and shutdown, energy is absorbed, resulting in reduced amplitude.

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