Hydraulic Vibration Isolators

Hydraulic vibration isolators combining elastomeric elasticity and hydraulic damping to optimize vibration isolation and equipment movement control.



The **AMC-MECANOCAUCHO® hydraulic vibration isolators** combine the function of an **elastomeric spring and a hydraulic damper** in a single unit, providing both **effective vibration isolation and improved control of equipment movement**.

Their design incorporates a **hydraulic fluid** whose movement within the isolator generates additional damping. This technology allows the **stiffness and damping characteristics** to be adapted to the dynamic requirements of the application and helps reduce excessive movement, particularly during **transient conditions and when passing through resonance**.

The internal construction combines **metal components bonded to the elastomer**, ensuring the integrity of the hydraulic system while providing resistance to **high dynamic loads and shocks** and maintaining excellent durability.

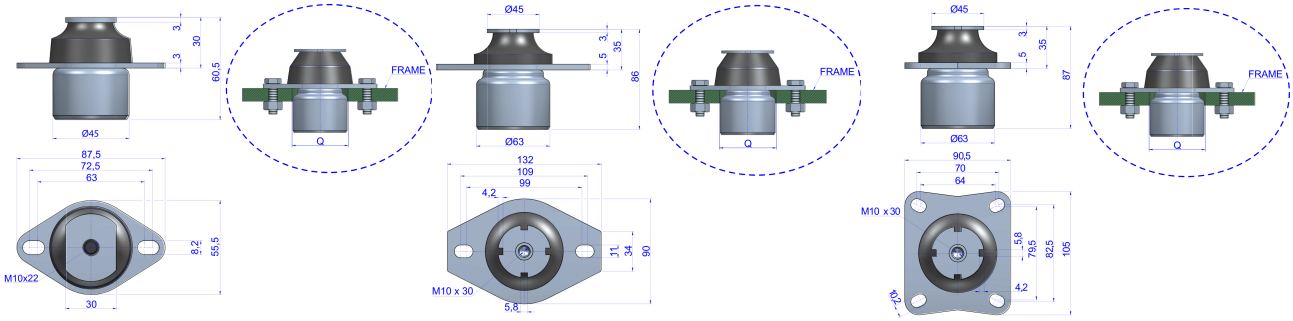
These vibration isolators are particularly suitable for **engines, mobile machinery, generator sets, and equipment subjected to vibration, shocks, or load variations**, where a combination of **effective vibration isolation and high damping** is required.

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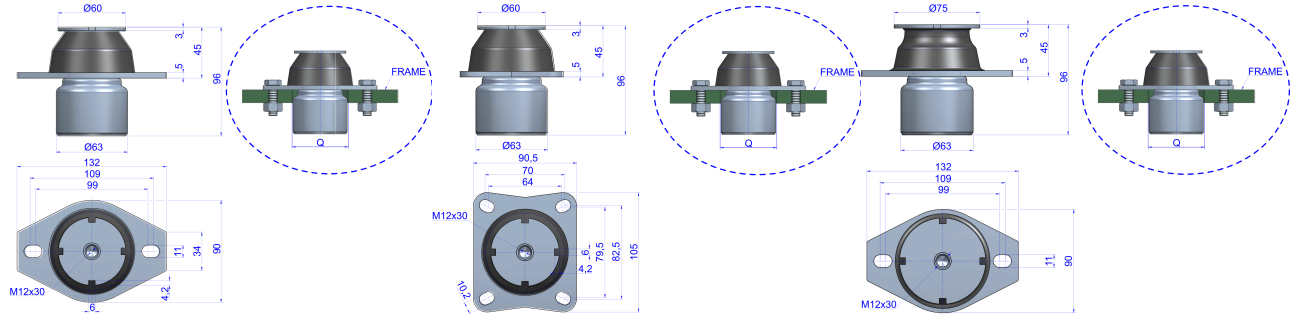
Drawings

MINI / SMALL / SMALL RECT.



Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
MINI	1.61	1	177031	44	40 Sh
			177032	66	50 Sh
			177033	110	60 Sh
			177034	154	70 Sh
SMALL	1.61	2	177001	132	40 Sh
			177002	220	50 Sh
			177003	320	60 Sh
			177013	397	70 Sh
SMALL RECT.	1.61	2	177015	132	40 Sh
			177016	220	50 Sh
			177017	320	60 Sh
			177018	397	70 Sh

MEDIUM / MEDIUM RECT. / MEDIUM HS 2



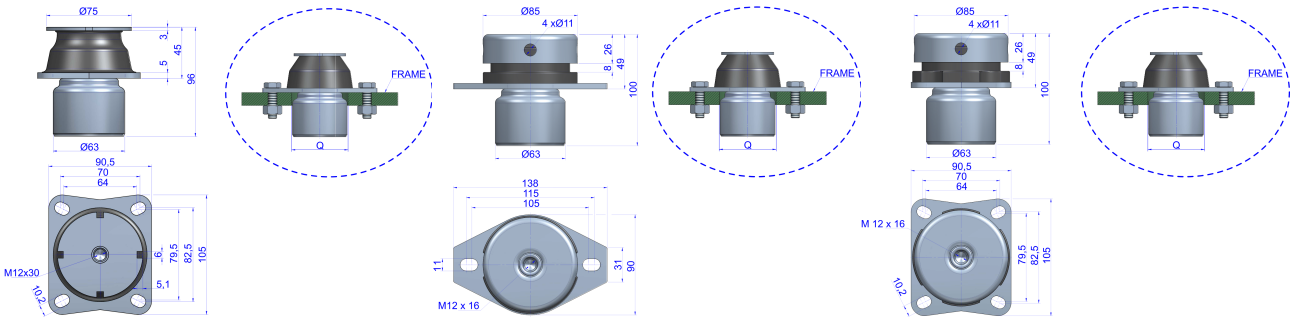
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
MEDIUM	2.8	2	177004	220	40 Sh
			177005	331	50 Sh
			177006	441	60 Sh
			177011	551	70 Sh
MEDIUM RECT.	2.8	2	177022	220	40 Sh
			177021	331	50 Sh
			177023	441	60 Sh
			177024	551	70 Sh

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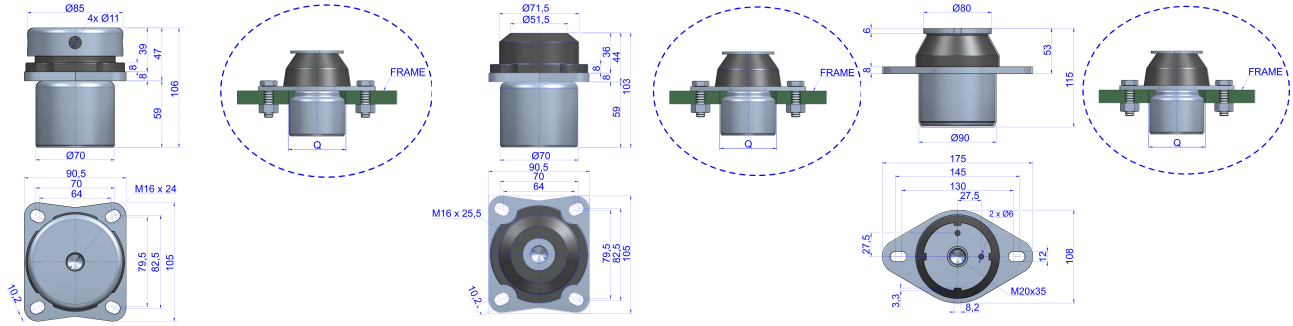
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
MEDIUM HS 2	2.8	2	177045	276	40 Sh
			177046	441	50 Sh
			177047	551	60 Sh
			177048	771	70 Sh

MEDIUM HS 4 / HSR / HSR RECT



Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
MEDIUM HS 4	2.8	2	177035	276	40 Sh
			177036	441	50 Sh
			177037	551	60 Sh
			177038	771	70 Sh
HSR	2.8	3	177306	276	40 Sh
			177307	397	50 Sh
			177308	551	60 Sh
			177309	661	70 Sh
HSR RECT	2.8	3	177388	276	40 Sh
			177389	397	50 Sh
			177390	551	60 Sh
			177391	661	70 Sh

XR C / XR / LARGE



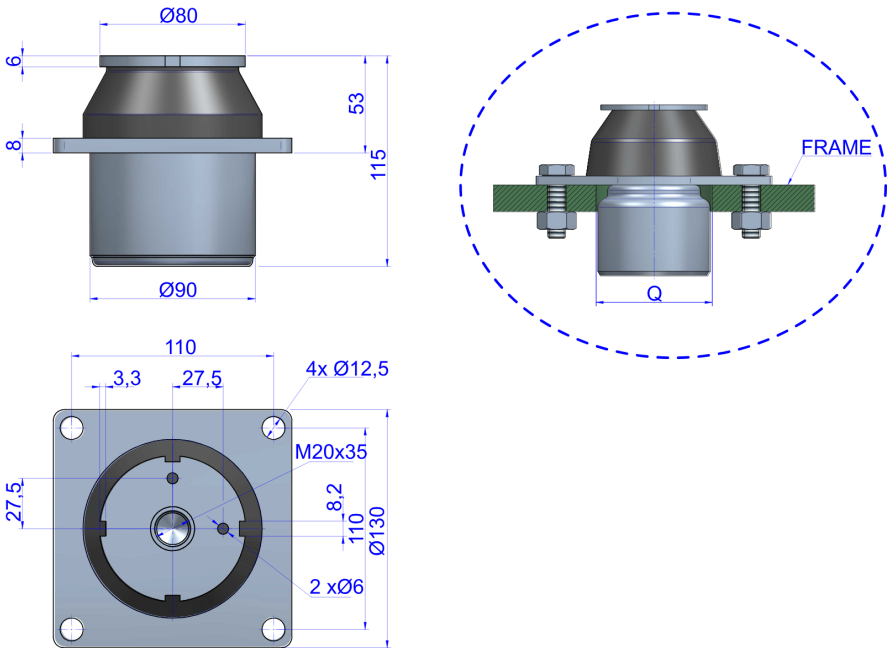
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
XR C	6.89	4	177396	276	40 Sh
			177397	441	50 Sh
			177398	639	60 Sh
			177399	838	70 Sh

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Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
XR	6.69	3	177392	276	40 Sh
			177393	441	50 Sh
			177358	639	60 Sh
			177395	838	70 Sh
LARGE	13.78	5	177007	518	40 Sh
			177008	650	50 Sh
			177009	760	60 Sh
			177014	904	70 Sh

LARGE RECT.

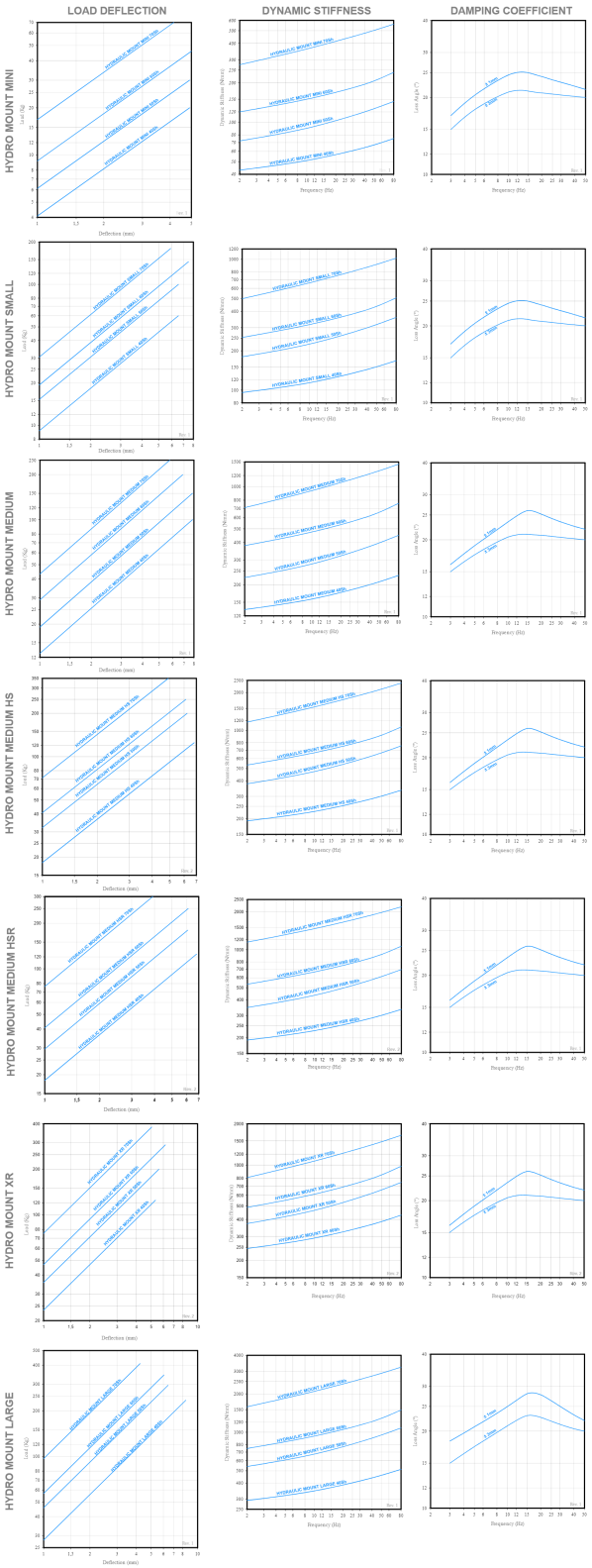


Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
LARGE RECT.	13.78	6	177041	518	40 Sh
			177042	650	50 Sh
			177043	760	60 Sh
			177044	904	70 Sh

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Elastic properties



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Technical characteristics

• The AMC-MECANOCAUCHO® Hydraulic mounts have an interlocking metal component that provides fail-safe protection for mobile applications. This device limits excessive vertical movement when the mountings are subjected to shocks inputs.• The metal parts are suitably thick and robust to withstand Off Road vehicle application shock inputs and also have an outdoor anti-corrosive treatment fully compliant with RoHs

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

Improved isolation

It offers improved isolation compared to conventional anti-vibration mounts of similar geometry.

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.

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.

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