

ALL VETUS ENGINE MOUNTINGS ABSORB THE PROPELLER THRUST

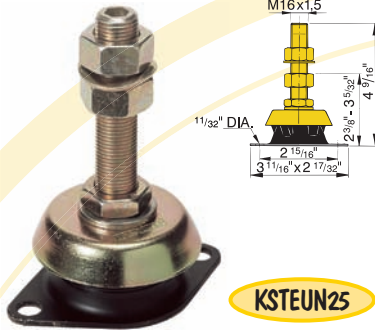
The torque of an engine is one of the deciding factors for determination of the load applied to the engine mounts. When more powerful engines are installed, it is important to use the following formula to define the load per support in kg (4 supporting points).

$$\frac{\text{engine weight in kg}}{\text{number of supports}} + \frac{\text{kW} \times 487 \times \text{reduction of gearbox}}{\text{engine revs/min} \times \text{centre to centre spacing in metres of the longitudinal engine bearers}} = \text{max. load per support in kg}$$

TYPE K 25

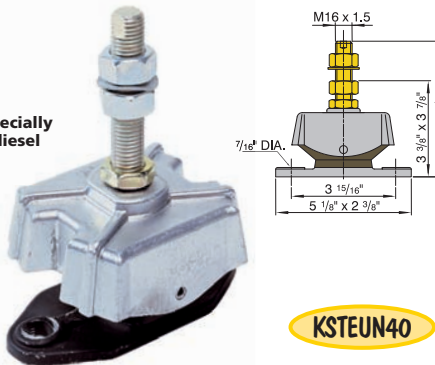
Application: small engines and generator sets with 1 or 2 cylinders. This flexible mounting contains a special rubber compound with excellent vibration damping properties.

These flexible engine mountings are suitable for marine diesel engines in the power range between 4 kW and 15 kW (6 HP - 20 HP).



Type	Stiffness ratio			Min. load lbs	Min. compression inch	Max. load lbs	Max. compression inch	Hardness in ° Shore
	vertical	athwartships	fore and aft					
K25	1	1.4	1.4	34	0.051	78	0.12	56

These engine mountings are especially designed for 3-cylinder marine diesel engines.



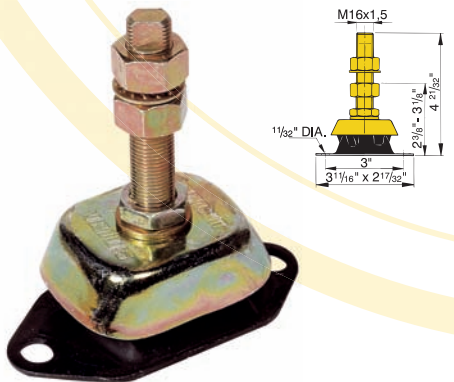
TYPE K 40

The relatively soft rubber compound of these flexible mountings fulfils precisely the requirements of light-weight vessels, equipped with a modern 3-cylinder marine diesel engine, with regard to the insulation of vibrations. The rubber elements are especially shaped to create the optimum in vibration dampening. The VETUS flexible engine mounting type K40 features internal buffers, which limit the engine movement when started or stopped and it is also secured against overload and shearing off.

Type	Stiffness ratio			Min. load lbs	Min. compression inch	Max. load lbs	Max. compression inch	Hardness in ° Shore
	vertical	athwartships	fore and aft					
K40	1	1	2.4	55	0.2	88	0.3	50

TYPE K

For smaller engines, up to appr. 60 kW (80 HP).



KSTEUN50

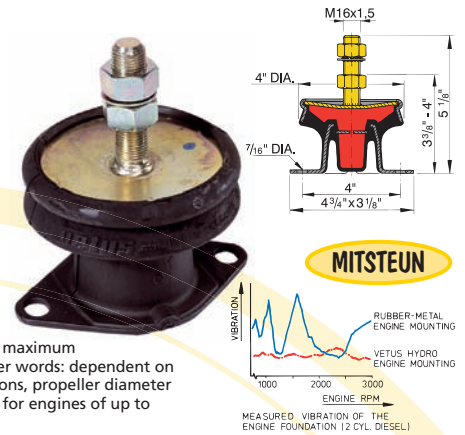
KSTEUN75

KSTEUN100

Type	Stiffness ratio			Min. load lbs	Min. compression inch	Max. load lbs	Max. compression inch	Hardness in ° Shore
	vertical	athwartships	fore and aft					
K50	1	0.75	2.5	56	0.079	112	0.16	45
K75	1	0.75	2.5	85	0.079	178	0.16	55
K100	1	0.75	2.5	112	0.079	224	0.16	65

TYPE MITSTEUN

This hydro-damper is a combination of a conventional rubber-metal damper and a hydraulic shock absorber. Especially for engines with 1, 2 or 3 cylinders, producing many horizontal and vertical movements, the VETUS hydro-damper is an absolute sensation: the reduction of vibration and noise is truly staggering. The maximum static load per support is 60 kg and the maximum thrust per support is 50 kg. In other words: dependent on gearbox ratio, number of revolutions, propeller diameter etc., these mountings are suitable for engines of up to 18 - 26 kW (25 - 35 HP).



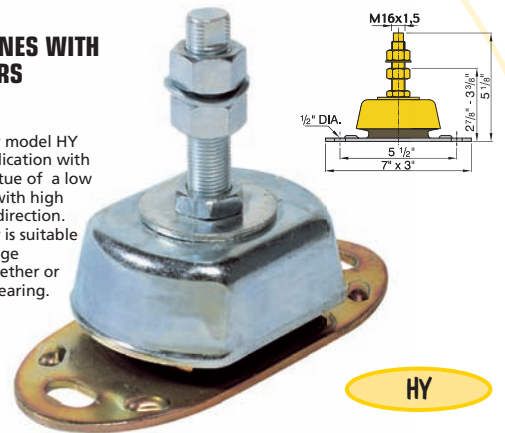
Type	Stiffness ratio			Min. load lbs	Min. compression inch	Max. load lbs	Max. compression inch	Hardness in ° Shore
	vertical	athwartships	fore and aft					
Mitsteun	1	1	1	56	0.051	150	0.18	45

MOUNTINGS FOR HEAVY-WEIGHT ENGINES WITH 4 OR MORE CYLINDERS

TYPE HY

The VETUS vibration damper model HY is extremely suitable for application with marine diesel engines, by virtue of a low vertical stiffness, combined with high stiffness in the longitudinal direction. This sturdy vibration damper is suitable for engines in the power range between 30 and 125 kW, whether or not provided with a thrust bearing.

These flexible engine mountings are suitable for marine diesel engines in the power range between 30 kW and 125 kW (40 HP - 170 HP).

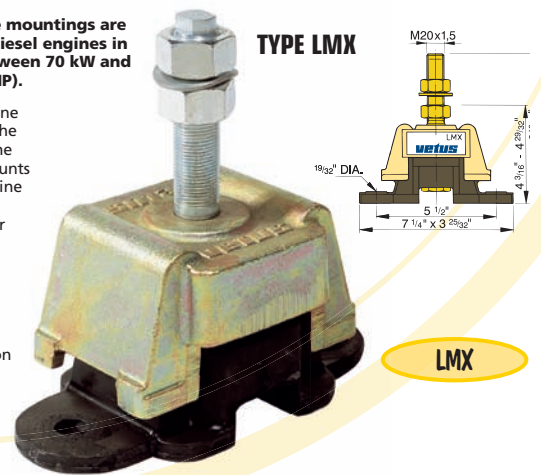


Type	Stiffness ratio			Min. load lbs	Min. compression inch	Max. load lbs	Max. compression inch	Hardness in ° Shore
	vertical	athwartships	fore and aft					
HY100	1	1.2	3.5	88	0.079	220	0.2	40
HY150	1	1.2	3.5	132	0.079	331	0.2	50
HY230	1	1.2	3.5	203	0.079	507	0.25	60

These flexible engine mountings are suitable for marine diesel engines in the power range between 70 kW and 350 kW (95 HP - 480 HP).

The VETUS flexible engine mounting type LMX is the "natural" successor of the well known flexible mounts L and LM. This new engine mounting has been designed with particular regard to the power to weight ratio of modern diesel engines, which is of ever-growing importance. In other words: the weight of an engine, in comparison to its thrust, has become lower and lower. For these engine types, the VETUS flexible engine mounting type LMX possesses the following ideal characteristics:

- The ample vertical compression guarantees optimum damping of vibrations, even at idling revs.
- The horizontal fore and aft stiffness is very high, which allows the acceptance of considerable thrust.
- The cushioning of vibrations in horizontal direction athwartships is of equal excellence.



Type	Stiffness ratio			Min. load lbs	Min. compression inch	Max. load lbs	Max. compression inch	Hardness in ° Shore
	vertical	athwartships	fore and aft					
LMX140	1	1	7	191	0.12	314	0.2	35
LMX210	1	1	7	281	0.12	472	0.2	45
LMX340	1	1	7	460	0.12	764	0.2	55
LMX500	1	1	7	674	0.12	1123	0.2	65