

## EQUIPMENT SUSPENSION

Noise, shock and vibration isolation of small and large equipment, from under 1 kg up to several tons, with a typical natural frequency of 5 to 10 Hz.

Paulstradyn® mounts provide low noise and vibration transmission. Our VIBHD mounts and Vibcable® offer additional shock protection.

This suspension system is particularly suitable for mounting exhaust pipes from generator sets on board ship or permanently mounted in buildings. They are unaffected by aggressive chemicals, oil, grease and corrosion and withstand extreme temperatures from - 70°C to + 300°C.

### Vibration and shock isolators

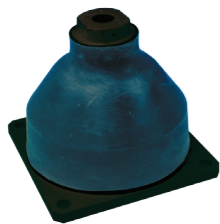
### Active systems

### Cable mounts

### Pipe hangers - Strafix®



Paulstrafloat



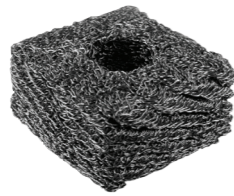
VIB HD 75  
(High deflection)



VIB HD 45



VIB HD 56



VI786



Paulstradyn



Cable Mount



Vibration and shock isolator

## ASK FOR OUR CATALOGS :



## OUR ENGINEERING AND MANUFACTURING CAPABILITIES :

- Modern Research Center
- Project management and engineering
- System analysis (Abaqus,ARC3D, Sysnoise, Paulstrasoft...)
- Dedicated technical assistance
- Integrated electronic, acoustics, mechanical and material engineering skills
- Dynamic testing facilities (multi-axes test rigs, electrodynamic and hydraulic shakers...)
- Wire mesh production and assembly lines.
- Actuators, sensors and controllers for active systems.
- Mixing of specialty elastomers
- Wide range of molding presses up to 4000 ton capacity
- In house manufacturing of cable mounts.
- Field assistance (testing, installation, survey)
- Expertise in acoustics

## WORLDWIDE LOCATIONS

### Paulstra - France

Phone : +33 1 40 89 53 31  
Fax : +33 1 47 57 28 96  
marine.paulstra@hutchinson.com (France)  
www.paulstra-industry.com

### Stop-choc / Barry Controls - UK

Phone : +44 1753 533223  
Fax : +44 1753 693724  
sales@stop-choc.co.uk  
www.stop-choc.co.uk

### Barry Controls - North America

Phone : +1 508 417 7014  
Fax : +1 508 417 7320  
www.barrycontrols.com

### Hutchinson - China

Phone : +86 512 85188298  
Fax : +86 512 85188292  
marine@hutchinson-suzhou.cn  
www.hutchinson-suzhou.cn

### Vibrachoc - Spain

Phone: +34 91 690 16 58  
Fax: +34 91 690 40 63  
comercial@vibrachoc.es  
www.vibrachoc.es

### Hutchinson Stop-Choc

Phone : +49 7159 9219 0  
Fax : +49 7159 9219 19  
info@stop-choc.de  
www.stop-choc.de

### Techlam - France

Phone : +33 3 89 75 66 67  
Fax : +33 3 89 39 89 62  
info@techlam.org



photo © Nicolas Claris

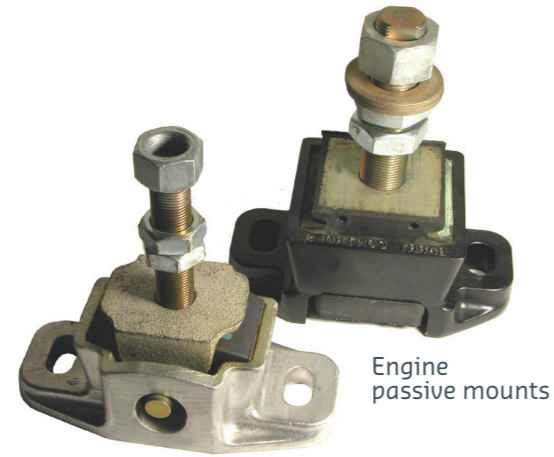


# MARINE

Noise and Vibration Management

## PROPULSION

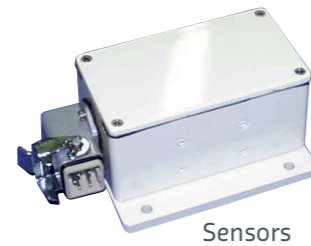
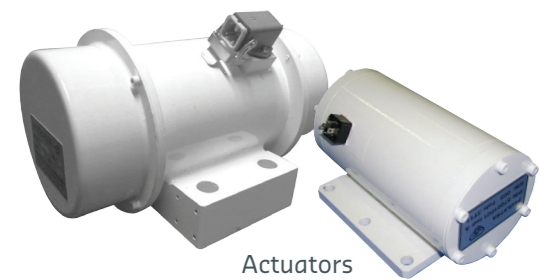
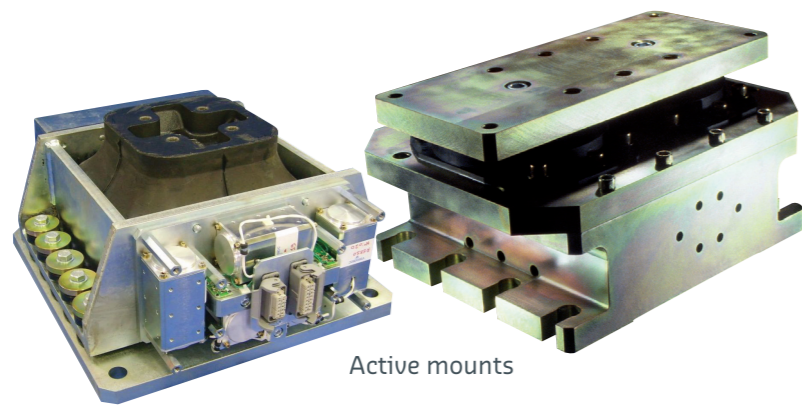
Anti-Vibration systems for propulsion and gensets. Our engine mounts rate from 200kg to 7 ton load and cover the needs of small and large size engines, gearboxes and electrical motors. The marine series are well suited to high thrust load small diesel engines. We engineer solutions for the entire propulsion line : engine, gearbox and motor mounts, couplings, high temperature applications. Active technology's outstanding performance in noise and vibration is available for gensets and propulsion systems. It outperforms passive mounts and offers a compact and low weight alternative to skid systems.



### Passive mounts

### Active mounts

### Couplings



## EXHAUST LINES

Complete exhaust line package, including silencers, expansion bellows, stabilizers, mounts, deck penetration. We design and manufacture high efficiency silencers for marine exhaust systems. Wire mesh cushions are a reliable and long lasting alternative to rubber mounts in severe environment conditions. Fire proof blankets, developed for the aerospace industry, offer high performance thermal barriers.

### Active mounts

### Elastomer mounts

### Metal mounts

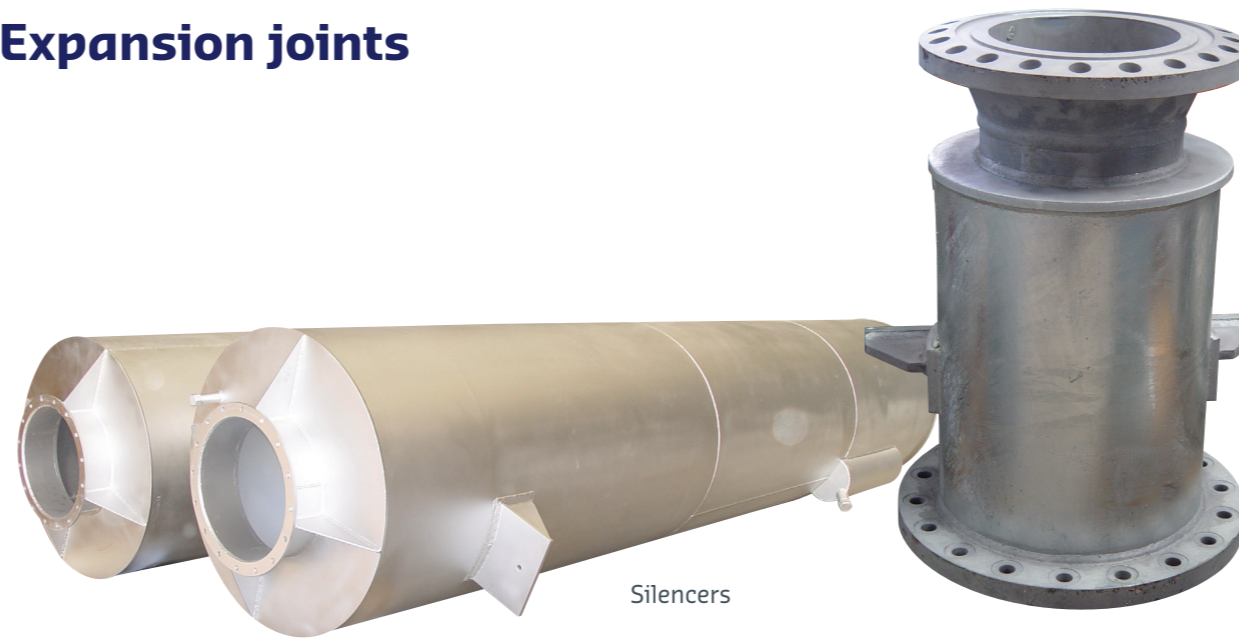
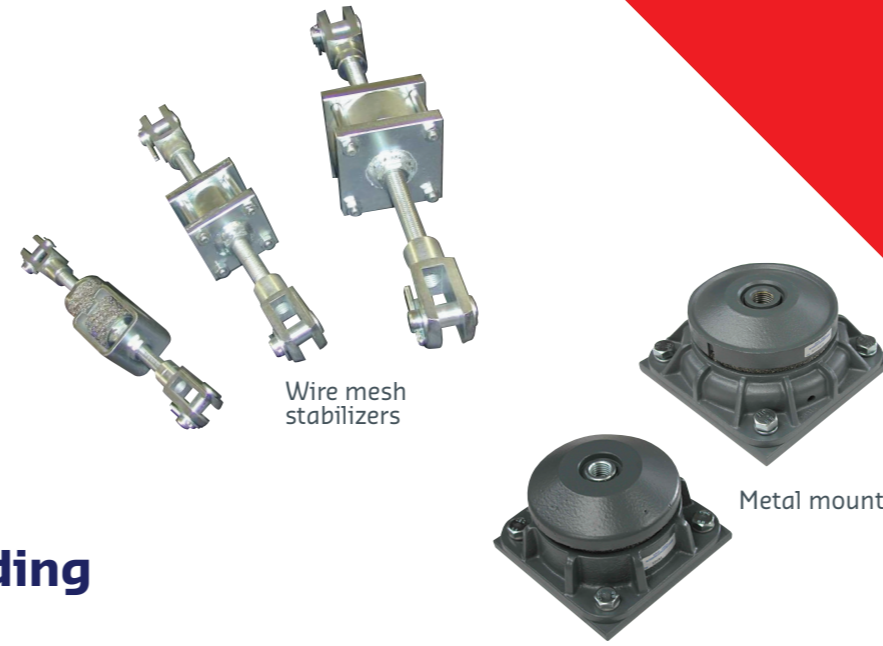
### Stabilizers

### Silencers

### Deck penetration

### Wire mesh gliding points

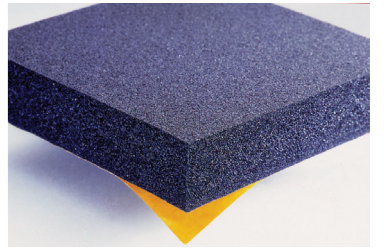
### Expansion joints



## SOUND PROOFING AND FIRE PROTECTION

**STRASONIC® is a range of complex materials designed to provide the best acoustic isolation. Their structure is based on polyurethane foams or cellular rubber.**

We can help the shipyards analyse the ship's global acoustic performance, define the needs and propose the best material arrangement and composition. Our materials are also fire resistant and comply with the most stringent fire and toxicity regulations. Hutchinson also offers active noise and vibration cancellation techniques to reduce the cabin noise.



### Acoustic foam - Strasonic®

### Acoustic and thermic silicone foam - Paulstrane®

### Ceiling and floor suspensions

