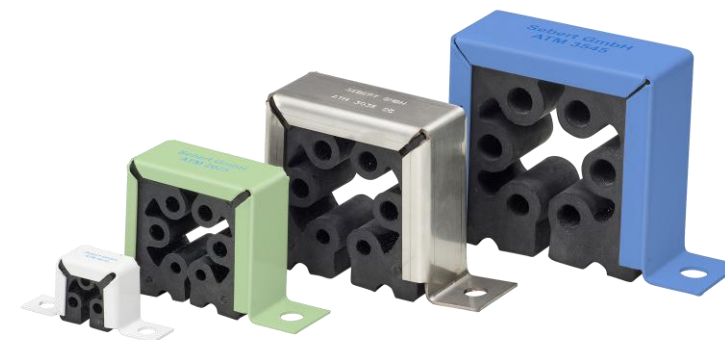
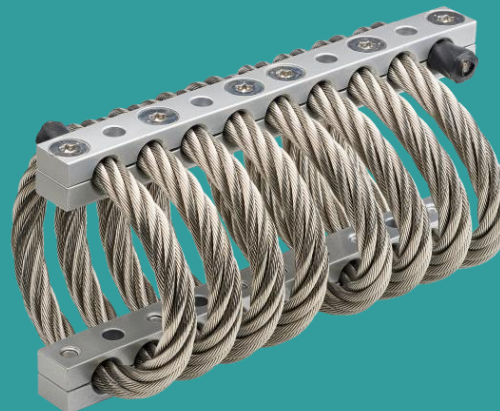
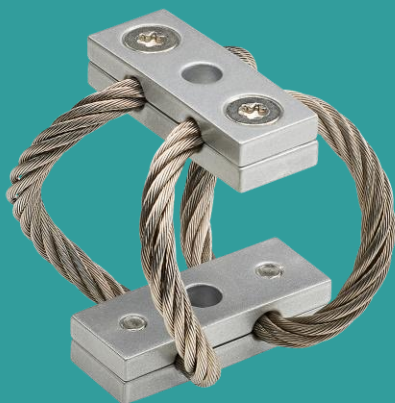
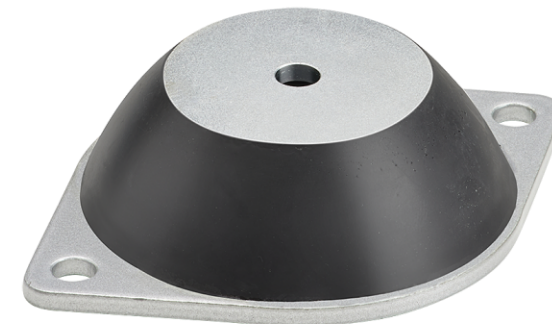
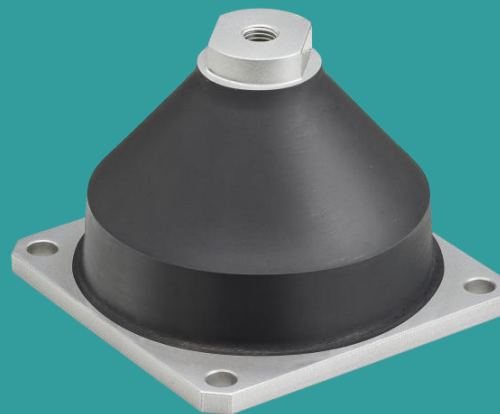




# Damping Solutions is a part of Sebert Romania



## A New Brand with Proven Manufacturing Heritage

Damping Solutions represents the next step in the evolution of Sebert Romania. As a newly positioned brand within the Sebert organization, it builds on decades of engineering expertise, product knowledge and manufacturing excellence.

The foundation of Damping Solutions lies within the Sebert Group. Since 2006, **Laszlo Kopacz** has developed extensive expertise in the design and production of reliable, high-performance shock and vibration solutions for a wide range of industries.

Following the passing of the company's founder, Karl Sebert, a new chapter began. Laszlo Kopacz assumed full ownership of Sebert Romania, including its modern 3,600 m<sup>2</sup> production facility. From that moment, Damping Solutions emerged as a distinct and focused brand, combining Sebert's proven technical heritage with an independent strategic direction.

## Modern Production. Full Control

The Romanian production facility is equipped with advanced manufacturing technologies, including:

- High-precision waterjet cutting systems
- State-of-the-art laser technology
- Modern rubber injection moulding machines

Full ownership ensures complete control over quality, production capacity, lead times, and continuous product development.

## Certified Quality and Sustainability

Quality and reliability are fundamental to Damping Solutions.

The production facility is:

- **ISO 9001 certified** – guaranteeing consistent and controlled quality management
- **ISO 14001 certified** – demonstrating commitment to sustainable and environmentally responsible manufacturing. This includes efficient resource usage, reduced waste and emissions, and strict compliance with environmental regulations.

## Independent Brand. Strong Heritage

While operating independently as Damping Solutions, the company maintains a close and trusted relationship with the Sebert Group and continues to supply Sebert companies as a manufacturing partner.

At the same time, Damping Solutions is positioned for international growth. The ambition is clear: to bring the proven engineering quality of Sebert Romania to customers worldwide under a strong, focused, and globally recognizable brand.

## Engineering the Future of Shock & Vibration Control

With deep engineering expertise, certified quality systems, and a modern production platform, Damping Solutions is ready to expand as a global player in shock and vibration control.



# Our own Software to select the correct damper

## Advanced Shock & Vibration Analysis Software

### Calculation & Simulation Software [CSS]

Our proprietary in-house developed software is used to analyse and dimension spring and damper systems under severe shock and vibration loads. It supports compliance with international military, naval, and environmental standards.

Dynamic behaviour is evaluated in both time and frequency domains, including non-linear spring characteristics, damping behaviour, repeated shock events, and direction-dependent loading.

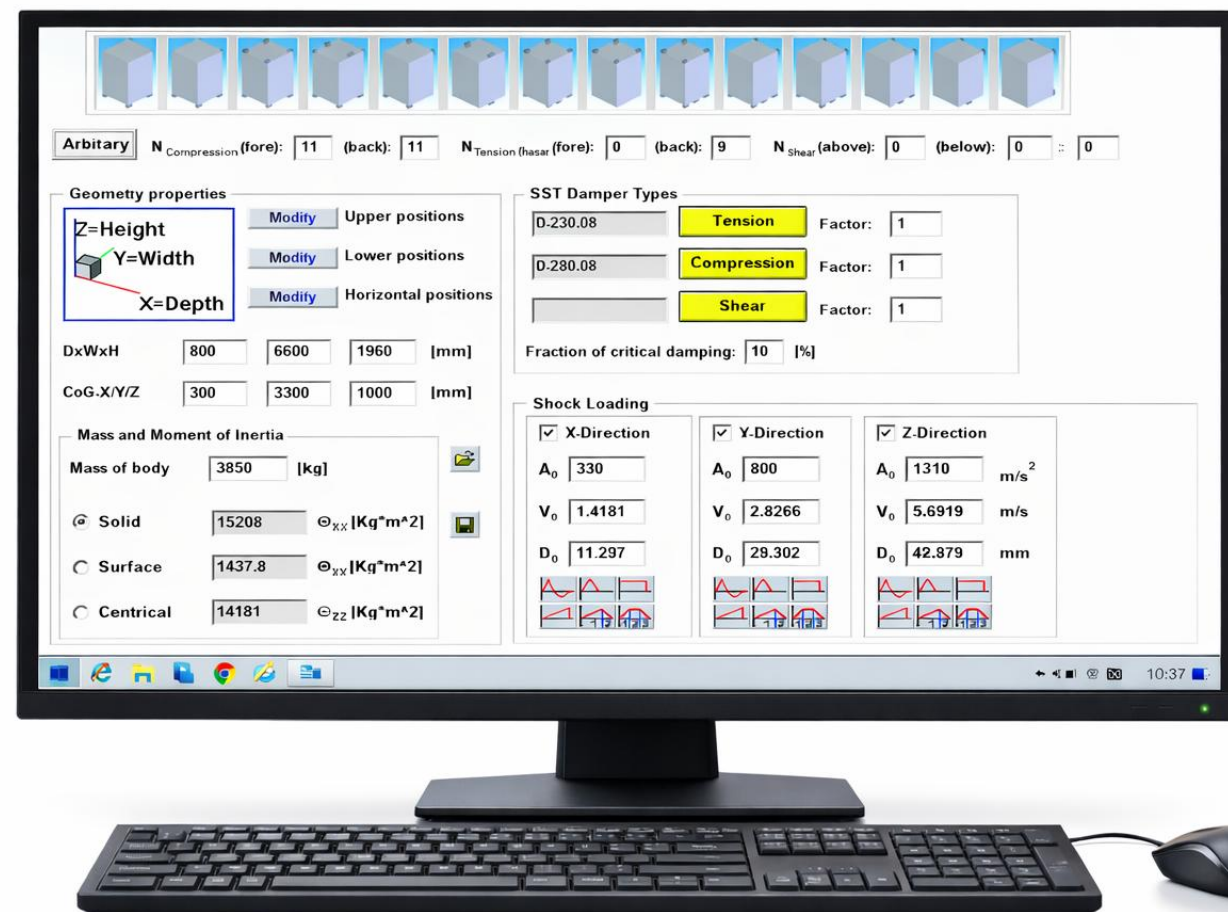
#### Choose Calculation & Simulation Software when:

- ✓ Compliance with MIL, AECTP, DEF STAN or naval standards is required
- ✓ Shock Response Spectra (SRS) evaluation is needed
- ✓ Controlled stresses and displacements must be verified
- ✓ Certification support is required

#### Typical standards

- MIL-STD-810 / MIL-STD-167
- MIL-STD-901
- AECTP-400
- DEF STAN 00-035
- BV 0430 / BR 8470
- Project-specific specifications

Need validated engineering? ✓ Start with calculation



Send us your load and frequency data to [info@dampingsolutions.com](mailto:info@dampingsolutions.com) for a technical advice

# Input unknown? We will help you!

## Engineering Support Field Measurement & Data Logging

### For real-world shock and vibration measurement [FMD]

When operational data is unavailable or uncertain, we perform on-site measurements using standalone data loggers. Shock and vibration levels are recorded directly in the field to provide accurate input for system design and verification.

Measured data can be converted into SRS curves and load cases for precise dimensioning.

#### Choose Field Measurement & Data Logging when:

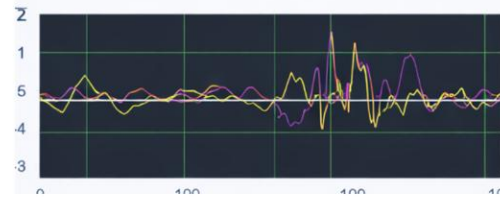
- ✓ Real operational loads are unknown
- ✓ Existing systems show unexpected vibration behavior
- ✓ Verification testing is required
- ✓ Reliable input data is critical for compliance

#### Typical applications

- Military vehicles and naval platforms
- Offshore structures
- Industrial machinery
- Transport and logistics environments

No data available? ✓ Measure first. Engineer with certainty.

### Piet Mondriaan



- Peak acceleration: 5.89 g
- Shock duration: +23.6 ms
- Impact vector: bottom right back
- Temperature: 31 °C

### Transport Measurements for Stedelijk Museum Amsterdam



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# Extreme Environmental & Acoustic Control

## From Extreme Shock Protection to Efficient Vibration and Noise Control

### Wire Rope Mounts [WRM]

For heavy shock, vibration and extreme environments

Wire Rope Mounts use stainless steel wire rope loops as a resilient spring element. They are designed for maximum durability under severe conditions.

#### Choose Wire Rope Mounts when:

- ✓ Shock loads are high
- ✓ Vibration levels are extreme
- ✓ The environment is harsh (salt water, dirt, temperature, UV)
- ✓ Long service life is critical

#### Typical applications

- Military equipment
- Offshore installations
- Transport & logistics (drops, impacts, handling shocks)
- Industrial machines in rough conditions

Tough environments? ✓ Choose Wire Rope Mounts



### Rubber Isolation Mounts [RIM]

For vibration, shock and noise reduction

Rubber Mounts provide efficient and economical vibration isolation. The rubber element combines elasticity and damping in one compact solution.

#### Choose Rubber Mounts when:

- ✓ Machine vibration must be reduced
- ✓ Structure-borne noise needs to be limited
- ✓ A compact and stable mounting is required
- ✓ A cost-effective standard solution is preferred

#### Typical applications

- Tools and industrial machinery
- Pumps, compressors and fans
- Pipework and support structures
- General mechanical equipment

Noise control? ✓ Choose Rubber Isolation Mounts



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# Cleanroom & Precision Application



## Engineered for Cleanrooms and Museum Transport

### Cleanroom Steel Damper [CSD]

#### For contamination-controlled vibration isolation in high-tech environments

Cleanroom Steel Dampers are engineered for applications where strict cleanliness standards, mechanical reliability, and stable vibration isolation are required. They minimize contamination risks while maintaining consistent damping performance under operational load.

#### Choose Cleanroom Steel Dampers when:

- ✓ Outgassing must be eliminated
- ✓ Strict cleanliness classifications apply
- ✓ Frequent cleaning procedures are required
- ✓ Long-term mechanical stability under load is essential

#### Typical applications

- Semiconductor manufacturing equipment
- High-tech assembly systems
- Precision positioning equipment
- Pharmaceutical cleanrooms

Strict cleanliness requirements? ✓ Choose Cleanroom Steel Dampers



### Packaging Foam Damper [PFD]

#### For precision vibration control in sensitive environments

The Foam is engineered for applications where even the smallest vibration can affect performance, preservation, or reliability. The unique open-cell structure allows controlled airflow during motion.

#### Choose Damping Solution Foam when:

- ✓ Micro-vibration control is critical
- ✓ Shock energy must be significantly reduced
- ✓ Passive, maintenance-free damping is required
- ✓ Long-term performance stability is essential

#### Typical applications

- Museums and cultural heritage preservation
- Precision equipment and sensitive installations
- High-value structural components
- Laboratory and research environments

Minimal vibration tolerance? ✓ Choose Damping Solution Foam



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## From Submarine Survivability to Yacht Silence

### Shock Mounting Brackets [SMB]

**For secure and precise shock integration**

Steel Shock Mounting Brackets provide a robust interface between shock mounts or dampers and the surrounding structure. They ensure reliable load transfer and consistent performance under demanding operating conditions.

**Choose Shock Mounting Brackets when:**

- ✓ High static or dynamic loads must be supported
- ✓ Precise alignment of the shock element is critical
- ✓ Structural integrity and long service life are required
- ✓ Installation accuracy and repeatable fit are essential

**Typical applications**

- Heavy machinery
- Off-road vehicles
- Military platforms (with specific use in submarines)
- Industrial equipment exposed to impact and vibration

Harsh operating conditions? ✓ Choose Steel Shock Mounting Brackets



### Acoustic Piping Systems [APS]

**For superior onboard comfort and noise control**

Acoustic Piping Systems (APS) are designed to significantly reduce vibration, structure-borne sound, and low-frequency noise in luxury yachts where silence, comfort, and reliability are critical. APS technology uses specially engineered acoustic tubes to isolate dynamic loads across a wide frequency range, ensuring effective vibration control of marine equipment.

**Choose Acoustic Piping Systems when:**

- ✓ Low-frequency noise must be controlled
- ✓ Guest comfort and acoustic performance are priorities
- ✓ Engines, generators, or pumps generate dynamic excitation
- ✓ Precise tuning to equipment mass and frequency is required

**Typical applications**

- Luxury yacht engine rooms
- Generators and auxiliary systems
- High-end marine installations requiring acoustic optimization

Demand silence and comfort onboard? ✓ Choose Acoustic Piping Systems



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## Built to Withstand the Severe Shock and Vibration Profiles of Military Ground Vehicles

### Military Communication Damper [MCB]

**For reliable shock and vibration protection of mission-critical communication systems**

Communication Dampers provide controlled mechanical isolation between vehicle structures and sensitive communication equipment. They reduce the transmission of high-shock events and continuous vibration, ensuring stable load transfer and consistent performance under demanding operational conditions.

**Choose Communication Dampers when:**

- ✓ Sensitive electronic equipment must be protected against shock and vibration
- ✓ High acceleration levels occur during weapon firing or rough terrain operation
- ✓ Long service life of communication hardware is required
- ✓ Installation space is limited but secure mounting is essential

**Typical applications**

- Tracked and wheeled military vehicles
- Tactical communication shelters
- Armoured platforms

Harsh operating conditions? ✓ Choose Communication Dampers



### Hydraulic End-Stop Damper [HED]

**For extreme impact absorption and controlled end-of-travel damping**

Hydraulic End Stop Dampers are designed to absorb high kinetic energy at suspension end-of-travel positions. The hydraulic system dissipates impact energy in a controlled manner, preventing structural overload and protecting suspension and chassis components under severe operating conditions.

**Choose Hydraulic End Stop Dampers when:**

- ✓ Extreme impact loads occur at end-of-travel
- ✓ Controlled energy dissipation is critical
- ✓ Suspension components must be protected from peak forces
- ✓ High repeatability under successive shock events is required
- ✓ Operation takes place in harsh environments

**Typical applications**

- Armoured tracked vehicles (e.g. Leopard 2 platforms)
- Heavy military suspension systems
- Off-road and tracked machinery
- High-mass systems with end-stop energy management requirements

End-of-travel impact control required? ✓ Choose Hydraulic End Stop Dampers



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# Our ISO-Certified Production Facility

## Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 1331933**

Certificate Holder: **SEBERT TEHNOLOGIE S.R.L.**  
Str. Eprestet5 nr. 3  
520077 Sfântu Gheorghe, jud. Covasna  
Romania

Scope: Production of wire rope mounts and elastomer or rubber vibration isolators. Mechanical processing.

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from **2024-08-19** until **2027-08-18**.  
First certification 2009

2024-08-19

TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

www.tuv.com



## Certificate

Standard **ISO 14001:2015**

Certificate Registr. No. **01 104 1331933**

Certificate Holder: **SEBERT TEHNOLOGIE S.R.L.**  
Str. Eprestet5 nr. 3  
520077 Sfântu Gheorghe, jud. Covasna  
Romania

Scope: Production of wire rope mounts and elastomer or rubber vibration isolators. Mechanical processing.

Proof has been furnished by means of an audit that the requirements of ISO 14001:2015 are met.

Validity: The certificate is valid from **2024-08-22** until **2027-08-21**.  
First certification 2016

2024-08-19

TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

www.tuv.com



## Damping Solutions facts

- Established in Romania in 2006.
- Independent brand within the Sebert Group with strong engineering and industrial backing.
- 60+ specialized engineers and technicians in noise, shock and vibration control.
- 3,600 m<sup>2</sup> production facility dedicated to vibration control technologies.
- Advanced manufacturing: waterjet cutting, laser processing and CNC machining.
- In-house rubber injection molding for elastomer vibration isolators.
- All products manufactured in the European Union.
- Worldwide delivery within two á three weeks.
- Products validated to AECTP 400, DEF STAN 00-35 and MIL-STD-810, tested in an accredited ISO/IEC 17025 laboratory.

Send us your load and frequency data to [info@dampingsolutions.com](mailto:info@dampingsolutions.com) for a technical advice

# Project Information Questionnaire

## Damping Solutions – Engineering Input

To design an optimal damping solution, the following info is typically required:

### First Calculation for Free

Our engineering team can perform a preliminary damping analysis and recommend an appropriate isolation concept.

#### 1. Application

- What equipment or system requires vibration or shock isolation?
- What is the main purpose of the damping system (vibration isolation, shock protection, noise reduction)?
- Is the application stationary, mobile, marine, transport, or military?

#### 2. Equipment Data

- Total weight of the equipment
- Dimensions (L × W × H)
- Center of gravity location
- Mounting points or mounting layout

#### 3. Operating Conditions

- Expected vibration frequencies
- Maximum shock loads (g-levels if available)
- Operating environment (temperature, humidity, salt, dust, etc.)
- Continuous operation or intermittent use

#### 4. Installation Conditions

- Available space for the isolators
- Orientation (vertical, horizontal, multi-directional loads)
- Number of mounting points required
- Structural material of the base frame

#### 5. Transport Conditions (if applicable)

- Transport method (road, rail, sea, air)
- Expected transport shocks or vibrations
- Packaging or mounting configuration during transport

#### 6. Standards and Requirements

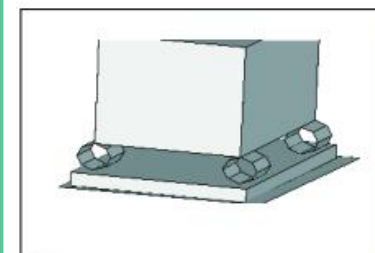
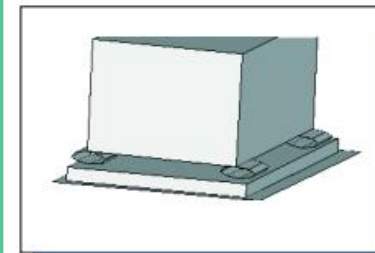
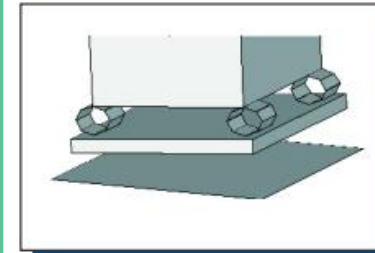
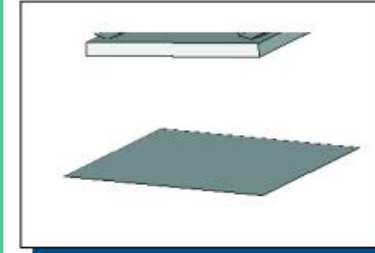
- Required standards or certifications (e.g. MIL-STD-810, AECTP-400, DEF STAN or ASTM)
- Safety factors or reliability requirements
- Target lifetime of the system

#### 7. Project Information

- Project timeline
- Prototype or serial production
- Estimated production volume

#### Additional documents (recommended)

- Technical drawings (PDF or CAD)
- Equipment weight distribution
- Existing vibration or shock measurements
- Photos of the installation environment





# Damping Solutions

Shock & Vibration Specialist



## CONTACT

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