

Variable Tuned Mass Damper (VTMD)

Adaptive Vibration Control for Enhanced Equipment Protection

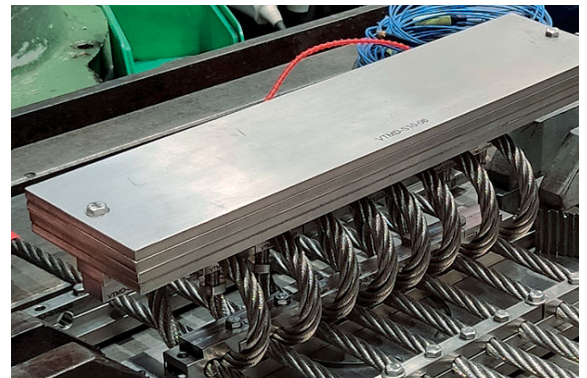
Framatome's Variable Tuned Mass Damper (VTMD) provides instant, adaptive vibration control with in-situ frequency tuning. Its plug & play design enables quick installation on various structures, ensuring optimal damping without time-consuming pre-work, even if conditions change.

Challenge

Operational vibrations and seismic events can shorten the lifespan of pipes, motors, and structures, leading to damage or failure. Traditional tuned mass dampers (TMD) require precise pre-installation tuning to match structural frequencies. Any frequency shifts post-installation can compromise performance, requiring costly recalibrations. Conventional TMDs lack adaptability, making them inefficient when dynamic conditions change.

Solution

Framatome's Variable Tuned Mass Damper (VTMD) features variable-stiffness steel wire springs, allowing on-site frequency adjustments without pre-work. This plug & play system ensures optimal damping even if structural frequencies change over time. Covering a broad 1-50 Hz range, the VTMD adapts dynamically and installs easily on pipes, motors, and steel structures with no complex modifications, maximizing efficiency and reliability.



Customer benefits

- **Instant Vibration Reduction:** Ad-hoc solution for mitigating high vibrations.
- **Seamless Integration:** Easy installation on various structures without extensive modifications.
- **On-Site Frequency Tuning:** Adjustable frequency for optimal damping performance at all times.
- **Future-Proof Design:** Remains effective even if structural frequencies change over time.
- **Time & Cost Efficiency:** Eliminates the need for extensive pre-adjustments, reducing downtime.

Key parameters

2-3x reduction in response acceleration for superior vibration damping.

Quick installation: No time-consuming pre-work required

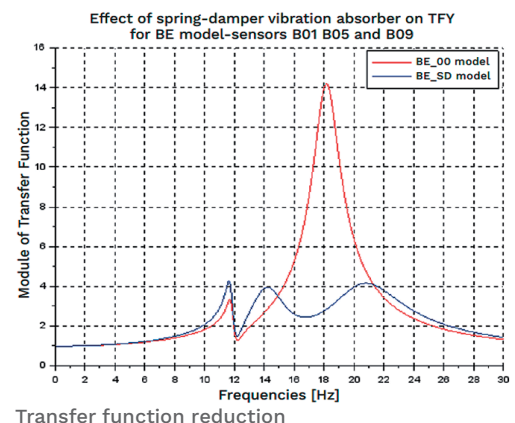
Broad frequency range: Covers 1-50 Hz for versatile applications

Adjustable after installation: Ensures optimal performance even if conditions change

Your performance
is **our** everyday **commitment**

Technical information

- **Broadband damping:** Covers a frequency range of 1-50 Hz.
- **Plug & play concept:** No time-consuming pre-work required.
- **Flexible mounting:** Easily attaches to pipes, motors, and structural components.



Contact: integrated-systems@framatome.com
www.framatome.com

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