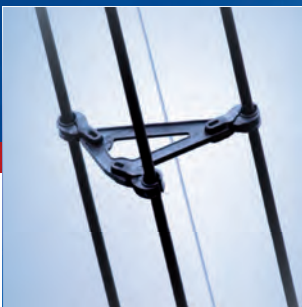


GLOBAL QUALITY

Supplying Damping Systems for Over 40 Years



Specialists in Overhead Transmission Line
Vibration Control



D A M P
KNILL GRUPPE

YOUR SPECIALIST IN VIBRATION CONTROL SYSTEMS

**for more than
40 years!**

Do you face any vibration control challenges on your overhead transmission line project? Then Damp is your reliable partner – offering experience, technical competency and a high quality service that provides innovative design solutions.

As a leading worldwide supplier of spacers, spacer dampers and vibration dampers for high voltage overhead transmission lines, Damp today is recognized as a strategic partner within the worldwide energy industry.

Damp vibration control products enable safe, reliable and trouble free OHL energy supply, protecting system conductors from fatigue failure caused by natural wind induced energy motions.

Damp was established in 1974 by a group of companies and that has continued working within the energy industry since 1907. The acquisition of Damp in 2008 by Mosdorfer – a worldwide leading manufacturer of transmission line hardware, was an important step towards strengthening its worldwide market position. The acquisition combined additional resources and technological know-how, including production capacities benefitting flexibility and speed in support of challenging projects.



With a skilled team of engineers and advanced instrumentation, Damp has gained a highly regarded world-wide reputation in the field of "wind induced conductor motions", and gained an excellent reputation for the quality of its solutions, both as a manufacturer and as a consultant.

More than 4.5 million installed spacer dampers world-wide continue to offer system protection, and a key sign of Damp's global competence. However, there are many more reasons for choosing Damp as your damping solutions partner ...

WHY CHOOSE DAMP SPACER DAMPERS?

long-term global experience
professional and technical competency

Experience

With more than forty years of experience Damp is fully equipped to provide spacer dampers and vibration dampers tailored to your needs for vibration control protection. Our spacer damper products are regularly and systematically submitted for extensive laboratory and field tests that offers a comprehensive data base of HV R.I.V. & corona tests from 1974, short circuit testing from 1978, and field vibration tests from 1979.

Distinct Designs

All products are characterized by their unique and original design. The boltless hinge, achieved through an original swaging operation, is one important feature of Damp products. Its durable design, removes the need for fixing bolts. In addition, special rubber damping elements are used that withstand Ozone attacks, UHV radiations, grease and oil contamination, salt fog and other atmospheric pollution. This ensures that Damp products have excellent damping performance over many decades of installed operation.

Technical Competence

Damp is fully dedicated and focused on technological advancements to reduce wind induced conductor vibrations. Our key focuses are developments and manufacturing for customized spacer damper applications, and specialized vibration control systems.

Quality and Testing

Damp is certified according to ISO 9001:2008. With a dedicated and fully equipped specialist laboratory, Damp

provides full quality control of all components manufactured. Type tests according to IEC 61854, IEC 61897 and many other internationally recognized standards can be offered at our facilities.

Versatility

Products are designed to meet the application requirements of each transmission line including special bundle configurations e.g. asymmetrical expanded spacing's. Protection against conductor bundle galloping due to ice and wind loading can also be offered by Damp's products and systems. Rubber elastomers are developed to meet environmental conditions:

- Standard type from - 5 to 100° C incl. GTACSR up to 150° C
- Low temperature to -50° C
- High Temperature Conductors e.g. GZTASCR up to 210° C (more than 65,000 quad and twin spacer dampers in operation since 2009)

Clamps are designed to suit any requirement:

- bolted cantilever types
- nut-cracker type, with and without elastomer liners
- helical rod fixation
- fastening latch type etc.

Innovation

To provide the most technically advanced products, Damp continually cooperates with experts, consultants, reputable engineering companies and renowned universities e.g. Polytechnic University of Milan Italy & University of Technology in Graz Austria. This ensures Damp technologies

from analytical analysis to innovative designs!

are at the forefront of new technologies, offering solutions to increasing energy demands and the challenges ahead.

Synergies

Operating as a global presence with our mother company Mosdorfer within the Knill Gruppe, Damp offers many product quality and cost advantages to our customers within a highly professional organization. For example, Damp's products are approved with appointed licensees in both Brazil and South Africa (SAE Towers and Babcock).

High Production Capacity

Up to 1,000,000 spacer dampers can be manufactured within 1 year, within multiple manufacturing facilities. Production capability utilizes manufacturing sites at Damp and Mosdorfer companies within Europe, in addition to significant production at Mosdorfer India Pvt. supplying home markets, and our licensees in Brazil and South Africa.

Analytical and Experimental Analysis

All damping systems for single and bundle conductors are designed using the latest computer vibration analysis to simulate the conductor/bundle behaviour under wind induced vibrations. Field tests can be carried out by Damp or MOVE (Mosdorfer Versatile Engineering) using suitable vibration recorders.

Your vibration challenge is our project - we provide the right vibration control and damping solutions!



Diagram of sub-span oscillations

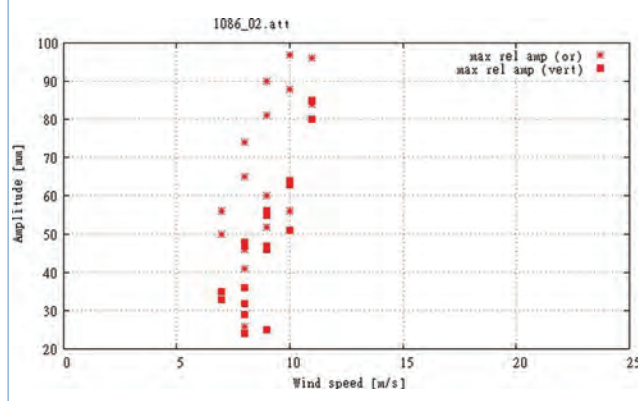
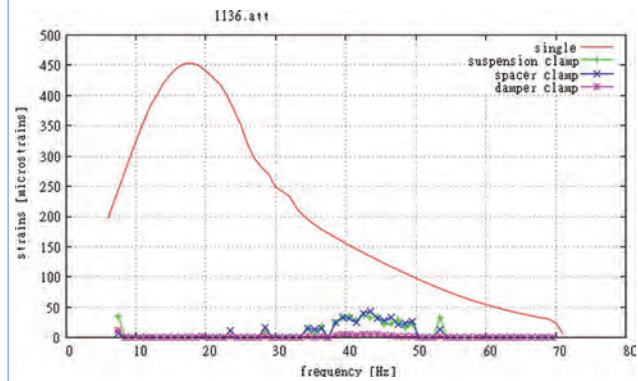
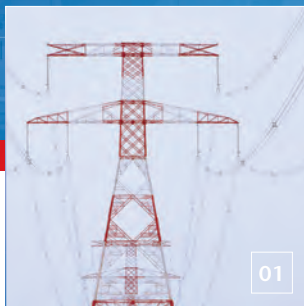


Diagram of aeolian vibrations



YOUR 10 KEY ADVANTAGES OUR STANDARD SERVICE



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02



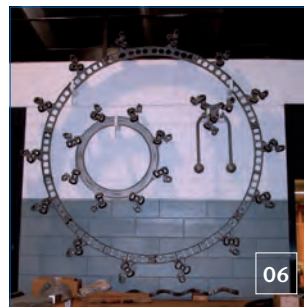
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04



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09

- 01 Long-term experience
- 02 Distinctive product designs
- 03 High quality
- 04 Technical competences
- 05 Versatility of its damping systems
- 06 Innovative solutions
- 07 High production capacities
- 08 Latest analytical and experimental analyses
- 09 Synergies within the group
- 10 Worldwide experience



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