PRESS RELEASE

#### 12.08.2024

Less vibration, less noise

**Isotope products increase comfort around HVAC systems**

**Bürs (AT), Nuremberg (DE). Getzner Werkstoffe is presenting its comprehensive range of isotope machine mounts at this year's Chillventa. These insulate vibrations in heating, air conditioning and ventilation systems, effectively preventing disruptive humming in buildings. In addition, the Isotop machine mounts reduce the noise level of HVAC equipment by up to 8 dBA. The brand new Isotop DZE 3D, an innovative vibration damper that fulfils even the strictest earthquake requirements, will be presented for the first time.**

Chillventa is the leading trade fair for refrigeration, air conditioning, ventilation and heat pumps. Getzner will also be represented with its own stand in Nuremberg from 8 to 10 October and will be shedding light on these key topics from the perspective of vibration insulation and noise protection. The isotope machine mounts combine the advantages of the proprietary polyurethane (PUR) elastomers Sylomer, Sylodyn and Sylodamp with those of steel springs and metal elements. Compared to rubber products, they show their strengths particularly in the operation of HVAC systems, as PUR becomes softer under dynamic loads and better insulates and reduces vibrations and noise. In addition, the material does not become brittle even under difficult environmental conditions and retains its elastic properties in the long term.

**Isotope DZE 3D - reliably absorbs forces from all spatial directions**

The latest member of the isotope family is the DZE 3D isotope. ‘What is unique about this product is that it can absorb accelerations from all spatial directions,’ explains Dominik Riedel, Technical Director of Getzner Spring Solutions. ‘This makes it suitable not only for use in or on means of transport, but generally in geographical regions with earthquake resistance requirements. High wind loads are also not a problem.’ A well thought-out chamber principle with optimally matched PUR materials is the basis for the performance of the Isotop DZE 3D. ‘A large deflection of the threaded rod is possible. If the horizontal load decreases, the Isotop DZE 3D returns to its original position. These properties were confirmed in tests in accordance with ICC ES AC156 (2020) at an independent testing institute,’ emphasises project manager Rico Link.

**EquipCalc: Proven online selection programme for Isotop**

The basis for optimum vibration isolation is the customised design of the required elastic mounts for the individual application. EquipCalc provides registered users with an online selection programme that determines the optimum solution after entering the weight and number of bearing points. ‘EquipCalc Moduleplanner can also be used to model the composition of HVAC systems with multiple elements. As a result, the user receives suitable products for vibration protection as well as the relevant characteristic values of the overall system,’ explains Rico Link.

**Vibration isolation for quieter appliances**

Optimally designed vibration protection prevents annoying humming and efficiently reduces the primary airborne noise of appliances. This can be proven by current measurements. ‘We will take the opportunity to present the special features of vibration isolation for HVAC equipment in a specialist lecture at Chillventa. In addition to the physical basics, application examples will be used to show how devices or individual components such as compressors can be optimally elastically mounted and what influence a customised design has on the overall effect,’ announces Simon Waldner.

Getzner at the Chillventa

Hall 4, Stand 4-330

Factbox technical presentation:

You can also find out more in our technical presentation by Simon Waldner

Engineering a quiet future: Addressing noise pollution of heat pumps

8.10.2024 - 14.40, Hall 4A, Stand 4A-419

Click here for the [press kit](https://www.getzner.com/en/press/chillventa-2024)

Ein Bild, das Zylinder, Silber enthält.

Automatisch generierte Beschreibung

**Image 1:** DZE 3D final.jpg

**Caption 1:** The DZE 3D expands the product family of isotope push-pull elements and can absorb forces from all spatial directions.

*Image source: Getzner Werkstoffe, publication free of charge*

Ein Bild, das Person, Computer, computer, Kleidung enthält.

Automatisch generierte Beschreibung

**Image 2:** Mockup EquipCalc.jpg

**Caption 2:** The EquipCalc online selection programme calculates the optimum elastic support - even for complex HVAC systems consisting of several modules.

*Image source: Getzner Werkstoffe, publication free of charge*

Ein Bild, das Haushaltsgerät, Elektronik, Maschine, Im Haus enthält.

Automatisch generierte Beschreibung

**Image 3:** Compressor Concept-Heat pump.jpg

**Caption 3:** An optimally designed bearing for the appliance, but also for critical components in the appliance, reduces the noise level of the appliance and prevents the spread of disruptive vibrations.

*Image source: Getzner Werkstoffe, publication free of charge*

**Getzner Werkstoffe GmbH**

[Getzner](https://www.getzner.com/en) is the leading specialist in [vibration isolation](https://www.getzner.com/en/about-us) in the [railway](https://www.getzner.com/en/applications/railway), [construction](https://www.getzner.com/en/applications/construction) and [industry](https://www.getzner.com/en/applications/industry) sectors. The innovative solutions are based on the materials [Sylomer®](https://www.getzner.com/en/products/sylomer), [Sylodyn®](https://www.getzner.com/en/products/sylodyn), [Sylodamp®](https://www.getzner.com/en/products/sylodamp), [Isotop](https://www.getzner.com/en/products/isotop) and [Sylocraft®](https://www.getzner.com/en/products/sylocraft), which the company has developed and produces itself. They reduce vibrations effectively, improve the service life of bedded components and thereby minimise the need for maintenance and repairs on transport routes, vehicles, buildings and machines. Through sustainable vibration isolation, Getzner is making a valuable contribution to improving quality of life and reducing noise pollution for people and the environment.

Getzner Werkstoffe was founded in 1969 in Buers, Austria, as a subsidiary of Getzner, Mutter & Cie., and sells products and customised solutions worldwide. Alongside its locations in Germany, Getzner also has offices in Australia, China, France, India, Japan and the USA. Its own international network is complemented by sales partners in 40 other countries around the world.

**Facts and figures – Getzner Werkstoffe GmbH**

Founded: 1969

Chief Executive Officer: Juergen Rainalter

Employees: 500

Turnover in 2022: EUR 150 million

Business areas: Railway, construction, industry

Headquarters: Buers (AT)  
Locations: Melbourne (AU), Beijing, Kunshan (CN), Munich, Berlin, Stuttgart (DE),

Lyon, Paris (FR), Pune (IN), Tokyo (JP), Charlotte (US)

Export rate: 90 %

**Further information:**

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