PRESS RELEASE

29/06/2020

**Sylomer bearings minimise vibrations on patrol boats**

**The high-tech material Sylomer helped to reduce the noise level to 79.2 dB in the wheelhouses of six patrol boats manufactured by the Singaporean shipbuilder Lita Ocean.**

**Buers (Austria), Singapore: Lita Ocean, a leading shipbuilding and marine services company in Singapore, recently built six patrol crafts ordered by the Maritime and Port Authority of Singapore. To efficiently minimise noise and vibrations in the wheelhouses of the 17 meters long vessels, the naval architects and engineers relied on the elastic polyurethane material Sylomer from Getzner Werkstoffe.**

When the Singaporean shipbuilding and marine services company Lita Ocean received an order from the Maritime and Port Authority of Singapore for six patrol boats with a length of 17 meters in the summer of 2019, the involved naval architects quickly recommended the use of the Getzner Werkstoffe anti-vibration materials for the wheelhouse bearings. “The decoupling of the wheelhouse with our in-house developed polyurethane material Sylomer lowers noise levels significantly and ensures standard-compliant working conditions”, explains Keith Wong, Area Sales Manager Asia Pacific at Getzner Werkstoffe. “Sylomer bearings help to decouple sources of vibration disturbances such as drive motors, HVAC equipment or pumps and therefore protect sensitive electronic components in the wheelhouse. That leads to a longer service life of the vessel’s structure and infrastructure.”

**Maximum noise level 79.2 dB**

After completing the installation works, the Lita Ocean experts, among them naval architect Mr. Win Lu and Assistant General Manager Mr. Mohamed Tamiri, measured the noise level in different areas of the vessel. The maximum level recorded in the wheelhouse was 79.2 dB – a very satisfying result, below the target level of 80 dB at maximum load set by Lita Ocean.

To determine an ideal anti-vibration solution for the patrol boats, the naval architects calculated all important parameters and decided to use two different types of Sylomer in order to achieve the best optimisation level: the soft Sylomer SR11, and the stiffer SR42. Experts from Getzner Werkstoffe accompanied the process with technical consulting, for example regarding the type of adhesive used or the installation of elastic washers.

**Proven long-term efficiency**

The polyurethanes from Getzner convince with proven long-term behaviour even when exposed to salt water. Sylomer performs in many different applications since decades – its excellent long-term behaviour has not only been proved in numerous reference projects, but also approved by notified research and test institutes such as the Technical University in Munich.

**Sylomer Marine**

For the shipbuilding sector, the company has introduced the specialised and fire-retardant anti-vibration product Sylomer Marine. The IMO/SOLAS certified product is mostly used for the bearing of ships hulls. Thanks to its resilience and outstanding vibration isolation and vibration dampening qualities, Sylomer Marine reduces wear and noise pollution and minimizes damage to the infrastructure.



**Image 1: Sylomer Wheelhouse**

**Image caption 1: Getzner Werkstoffe’s Sylomer efficiently minimises noise and vibrations in the wheelhouse.**



**Image 2: Patrol Boat**

**Image caption 2: Sylomer efficiently reduced the noise levels on the vessel, ensuring standard-compliant working conditions.**

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**Getzner Werkstoffe GmbH**

[Getzner Werkstoffe](https://www.getzner.com/en) is the leading specialist in the field of [vibration isolation and protection](https://www.youtube.com/watch?v=koMOxXcDZAw). Its solutions are based on the products [Sylomer®](https://www.getzner.com/en/products/sylomer), [Sylodyn®](https://www.getzner.com/en/products/sylodyn), [Sylodamp®](https://www.getzner.com/en/products/sylodamp) and [Isotop®](https://www.getzner.com/en/products/isotop), all of which were developed and manufactured at Getzner's own facility. They are used in the rail, construction and industry sectors to reduce vibrations and noise, improve the service life of bedded components and minimise the need for maintenance and repairs on tracks, vehicles, structures and machines. The company was founded in 1969 as a subsidiary of Getzner, Mutter & Cie.

Getzner markets its vibration protection solutions around the world. Alongside its locations in Buers and in Germany, Getzner also has offices in China, France, India, Japan, Jordan and the USA. Its tightly-knit distribution network in Europe is complemented by its distribution partners in the USA, South America and the Far East. Partners in a total of 40 countries around the world distribute Getzner Werkstoffe products to every location. By reducing noise and vibrations, Getzner is making a valuable contribution towards enhancing the quality of living and working conditions.

**Facts and figures – Getzner Werkstoffe GmbH**

Founded: 1969 (as a subsidiary of Getzner, Mutter & Cie)

Chief Executive Officer: Juergen Rainalter

Employees: 490 (360 in Buers)

2019 turnover: 114.1 million euros

Business areas: Railway, construction, industry

Headquarters: Buers (AT)  
Locations: Beijing, Kunshan (CN), Munich, Berlin, Stuttgart (DE), Lyon (FR),   
 Pune (IN), Amman (JO), Tokyo (JP), Charlotte (US), Melbourne (AU)

Ratio of exports: 93 percent

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