

Press Release

August 2016

VULKAN Couplings presents new acoustic concepts at the international Shipbuilding, Machinery, Marine Technology trade fair (SMM)

(Herne, August 2016) In addition to innovations and further developments in the product area, coupling specialist VULKAN will introduce new concepts in the area of acoustics at the SMM. Thus VULKAN Couplings is supplementing its system competence in the analysis and configuration of propulsion systems and responding to the increasing significance of acoustics in satisfying the requirements imposed on comfort and statutory emissions control.

VULKAN Couplings customers and interested persons will learn about the influence that VULKAN products have on noise and vibration reduction on ships. A VULKAN-designed vibro-acoustic demonstrator makes it possible to bodily feel in four stages how ship propulsion systems become quieter through VULKAN mounts and couplings. Thus the customer initially hears and feels how loud and bumpy a ship's propulsion system is without any damping. In stage 4 the propulsion system is then equipped with VULKAN Couplings T-Series engine mounts, the new highly-flexible VULKARDAN F coupling, the CV 2000 transmission mount, and the highly-flexible Propflex T coupling, including thrust mounts, and offers the highest possible level of comfort.

The main cause of noise and vibration on ships are the primary propulsion systems, the transmission and the propellers. The structure-borne sound reaction chain, consisting of excitation of the ship's structure, transmission through the ship construction, and sound radiation into the reception rooms, result in undesired noise development in the crew and passenger cabins, or even underwater. "The most effective approach to reduce the structure-borne and air-borne noise on the ship is to minimize the excitation of the ship's structure in the engine room," explains Robin Seiler, Acoustic Engineer at VULKAN Couplings.

In addition, VULKAN Couplings not only offers an extensive package of services, such as analysis, selection, optimization and on-site services, but also a product portfolio with a variety of options for optimally satisfying the requirements imposed on acoustics, vibration and force transmission within the drive-train. Thus VULKAN supports its customers in complying with the statutory regulations for protection of health and safety and at the same time satisfies the desires of shipyards, ship owners and passengers relative to acoustic comfort.

Über das Unternehmen: VULKAN Kupplungs- und Getriebebau Bernhard Hackforth GmbH & Co. KG mit Hauptsitz in Herne, Deutschland, ist Teil der VULKAN Gruppe und ein mittelständisches Familienunternehmen, das hochelastische Kupplungen, Bremssysteme, elastische Lagerungen und Wellensysteme für Schiffsantriebe, Generatoranwendungen und industrielle Antriebe herstellt. VULKAN Kupplungen finden sich weltweit seit vielen Jahrzehnten in Kreuzfahrtschiffen, Arbeits- und Containerschiffen ebenso wie in der Öl- und Gasindustrie, dem Bergbau oder der Fördertechnik. Das 125-jährige Unternehmen ist in alleinigem Besitz der Familie Hackforth und beschäftigt rund 1.300 Mitarbeiter an 20 Standorten weltweit. Dazu gehören fünf Produktionsstätten in Deutschland, Brasilien, USA, China und Indien. VULKAN Lokring Rohrverbindungen GmbH & Co. KG ist als Spezialist für lötfreie Rohrverbindungen im Bereich der Kälte-/Klimatechnik ebenfalls Teil der Unternehmensgruppe.