

# SMM 2006:

## Press Release

Hall A2, Stand 172

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## **New lubricating, anti-heeling and fire extinguishing pumps from Allweiler**

**(Radolfzell/Germany) Allweiler AG, the oldest German pump manufacturer, will present three new pumps at this year's SMM in Hamburg (Hall A2, Stand 172). These include a lubricating centrifugal pump for diesel engines with a large lubricating oil requirement, a high-performance anti-heeling trimming pump and a newly developed fire extinguishing pump.**

The MELO series ("Main Engine Lube Oil") is a useful alternative to the previously conventional screw pumps for applications with large quantities of lubricating oil. As soon as capacities exceed 500 to 600 m<sup>3</sup>/h, the new centrifugal pump proves its worth. It conveys quietly and with an excellent suction capability, as it is vertically installed in the oil tank. Available in different sizes, the pump achieves a capacity of up to 1600 m<sup>3</sup>/h and is suitable for oil temperatures up to 100 °C. A two-stage design enables a pressure of up to 10 bar. An intermediate bearing enables flexible immersion depths of up to 3700 mm.

Allweiler AG has expanded the range of application for its ALLTRIMM anti-heeling pump. The improved pump has the same dimensions, but the maximum capacity is now one third higher than before, at 1300 m<sup>3</sup>/h. The pump will also be available in an explosion-protected version in future. The integrated drive and reversible hydraulics eliminate the need for costly installation of valve controllers on the ALLTRIMM. In addition, the unit has a very small space requirement and is very easy to install. The pump is extremely economical, since its maintenance intervals are long and maintenance tasks are easy to complete. The reason for this is that the pump operates without costly wearing parts such as coupling or gearbox.

The NAM-F series finally presents a high-performance centrifugal pump that is specifically optimised and designed for short-term use in fire extinguishing equipment. The bearings are designed for a minimum of 1000 hours of no-maintenance operation. The pump achieves up to 440 m<sup>3</sup>/h and a pump head of up to 145 m with a maximum pressure of 16 bar. As with all Allweiler marine pumps, high quality seawater-resistant materials from the company's own foundry guarantee a long service life.

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**Caption:**

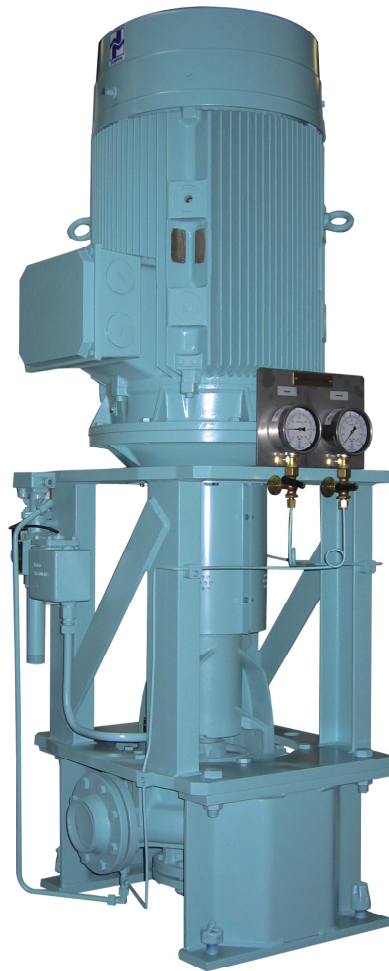
Allweiler's new series of MELO centrifugal pumps are particularly suitable for applications with large lubricating oil capacities. They operate with a lower TCO (Total Cost of Ownership) than the conventionally used two-spindle screw pumps.

(Photo: Allweiler AG)

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**Caption:**

The high-performance centrifugal pumps of the ALLMARINE NAM-F series are specially optimised and designed for short-term deployment in fire-fighting systems. Due to process design the pumps are easy to maintain. The replacement of the insert unit is possible without further dismantling of the motor or the casing.

(Photo: Allweiler AG)

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## **Anti-heeling pump now with higher performance and explosion protection**

**(Radolfzell/Germany) Allweiler AG has expanded the range of applications for its ALLTRIMM anti-heeling pump. The improved pump has the same dimensions but maximum flow rate is one-third higher at 1300 m<sup>3</sup>/hour. It is also available in an explosion-protected version. The pump is especially well suited for use in container ships, cruise ships, and roll-on/roll-off vessels.**

ALLTRIMM is a fully redesigned inline propeller pump with reversible hydraulics. One of its innovative features is inclusion of the drive in the pump. The drive itself is constructed with standard parts from a respected German manufacturer of electric motors. The integrated drive and reversible hydraulics on ALLTRIMM eliminate the need for costly installation of valve controllers required by conventional trim systems. In addition, the unit has only a small space requirement and is very easy to install. The pump is extraordinarily economical since its maintenance intervals are long and maintenance tasks are easy to complete. The key to the design: the pump operates without costly wearing parts like a coupling or gearbox.

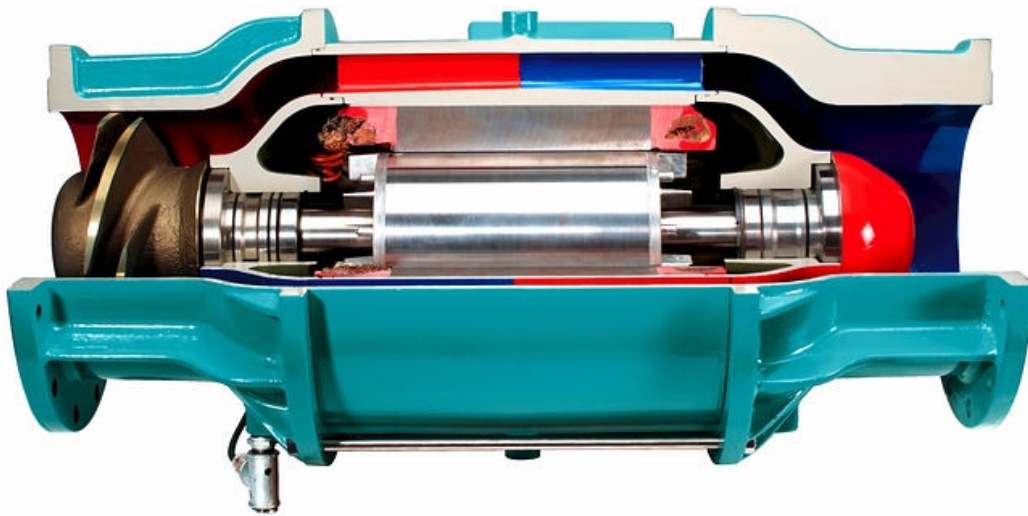
Another advantage of the new design is its low mass moment of inertia, thanks to the small number of rotating parts. This permits short start-up times as well as rapid changes in the pumping direction without high mechanical stress. Finally, the seal design with integrated leak monitoring and three radial-shaft sealing rings working in series make the pump very safe in operation. It is not necessary to continually monitor this pump visually, since the pump assembly will automatically register wear on the seals early enough for the operator to plan a convenient time for maintenance. When the time has come for maintenance, complete repair kits make the job very easy. Dr. Michael Matros, general manager and member of the management board: "ALLTRIMM concept is according to Allweiler strategy to serve our customers with products that reduce the total cost of ownership (TCO)."

New propeller geometries and optimized hydraulics on the new versions push flow rate to as high as 1300 m<sup>3</sup>/hour. Maximum delivery head is 20 meters. Two motor sizes cover this performance range. ALLTRIMM will in future also be available in explosion-proof versions suitable for use in potentially explosive areas such as the cargo holds of container ships. Installation dimensions and the most important components are completely identical in every version, so ship owners who employ several different versions of ALLTRIMM in their fleet will find it easy to maintain an economical stock of replacement parts.

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**Caption:**

(Radolfzell/Germany) Allweiler AG manufactures its ALLTRIMM anti-heeling propeller pump in seawater-resistant aluminum bronze (CC333G). This inline propeller pump has reversible hydraulics and a uniform pumping capacity. Three radial-shaft sealing rings contain an integrated leak sensor. The electric motor is constructed with standard parts from a German manufacturer and conveniently integrated into the pump lobe. As a result, the pump forgoes components required in conventional designs such as a valve controller, coupling, and gearbox. The pump is available in one and two-stage versions that deliver a flow rate up to 1300 m<sup>3</sup>/hour and delivery heads up to 10 meters (single-stage) or 20 meters (two-stage). Two motor sizes cover this performance range with the same external dimensions. The pump is also available in future in an explosion-protected version.

The cut-away drawing depicts the single-stage version.

(Photo: Allweiler AG)

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## **A portrait of Allweiler AG**

Founded in 1860, Allweiler AG is the oldest German pump manufacturer and the European market and technology leader for centrifugal, propeller, screw, eccentric spiral, macerator, and peristaltic pumps. Allweiler AG owns a foundry and produces ready-to-use fuel skids. Since 1998, Allweiler AG has been part of the Colfax Corp., a global leader among pump manufacturers. In 2005, Allweiler's 1000 employees achieved sales of 156 million euros. In Germany, Allweiler AG produces their products at three different locations: at their headquarters in Radolfzell, in Gottmadingen near Singen, and in Bottrop. The company has subsidiaries in many European countries, Egypt, and South Africa. Around the world, the company has a total of 100 subsidiaries and partner companies.

Allweiler's products are designed to meet the requirements of the most important applications, including: marine and offshore, energy generation, water and wastewater, process engineering and chemistry, domestic and commercial engineering, food and beverages, tool machines, pulp and paper, oil and gas, biomass and heat transfer.

Each year, the company delivers more than 100,000 pumps, with the majority going to users involved in shipbuilding and offshore engineering, energy and process engineering, and wastewater technology.

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## **Allweiler AG is a leading supplier for marine and offshore users**

Allweiler AG is the European market leader in the marine and offshore segment, especially for cargo ships and naval applications.

Internationally, the company is one of the three largest pump manufacturers and has earned leading positions in the commercial shipbuilding market in China and in the American naval segment. Approximately one third of Allweiler's total sales comes from the "marine and offshore" area. Since 2004, the level of incoming orders for pumps used in the construction of new ships rose continuously. Major reasons for this growth are: Allweiler's decades of experience, their ability to continuously improve their pump units, and their use of the most advanced tools for designing and developing innovative new products. Besides European shipyards, the growing market in Asia for new and renovated ships is also playing an increasingly important role.

The company produces and sells pump units for virtually every field of application, ranging from small 2000-ton fishing trawlers to tankers of 380,000 tons. Global service and support centers ensure that customers have access to qualified maintenance for any pump unit whenever necessary.

Allweiler's line of specialty shipbuilding products includes: ALLMARINE centrifugal pumps (series MA, MI, NISM) in block and inline versions, centrifugal pumps for high-temperature applications (ALLHEAT series) and as lube oil circulation pump (MELO series), double spindle screw pumps (211 series), triple-spindle screw pumps (SPF, SNH, TRILUB, ZASV series), propeller pumps (ALLTRIMM series), progressing cavity pumps (TECFLOW series), and fire-fighting pumps (NAM-F series). Areas where these products are used include: bilge and ballast, fire extinguishing, anti-heeling, and the movement of cooling water, fresh water, saltwater, and wastewater.

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