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35 million manufactured

Pumps from Saxony help turbos keep their cool

With its 35 millionth water recirculation pump, Pierburg Pump Technology GmbH recently set up a new production record. Since the rollout in 1996 of this electric water recirculation pump built at Hartha, Saxony, Germany, the product developed at the location itself, has become a true multi-million seller. Extra capacities for this small high-efficiency pump are currently being set up in China and Mexico by KSPG, indirect owner of the Hartha plant not far from Döblin.

Together, all of the water recirculation pumps made in Hartha could within some five hours empty the contents of Lake Bärwald which, covering an area of 13 km² and with a maximum depth of 58 meters, is Saxon's biggest.

The electrically commutated pump was developed at the Saxony plant and has meanwhile been shipped out to auto makers and their suppliers worldwide. The pump is remarkable for its very small footprint; the electric motor (no brushes or gaskets) is highly wear resistant. The smooth-running pump is also very quiet in operation.

The pump can be used wherever cooling or heating functions independently of or additionally to those performed by the vehicle's main circuit, are required. Examples include the cooling of turbochargers, power electronics, exhaust-gas recirculation systems, also auxiliary heating functions, utilizing residual heat or for engine-independent heating.

The pumping mechanism and the electric actuation are hermetically separated from each other. The compact design is achieved by combining the impeller, mechanical mounting and magnetic rotor. The small footprint allows the pump to be installed at any angle and in any position.

Since 2011 in its third generation, the latest version permits diagnosis of its operating state and speed control. There is also a more powerful option with up to 20 percent higher pressure.

About KSPG

With annual sales in the region of €2.3 billion, the KSPG Group ranks among the world's 100 biggest first-tier auto industry suppliers. A workforce of around 12,000 is employed at 36 production locations in Europe, the Americas, Japan, India, and China. As a well-established development partner of the global OEMs, the Group has for over a century been working on sustainable engine refinements in terms of

reduced emissions, lower fuel consumption and CO₂ savings along with less weight and more output. These efforts are directed equally at truck and large engines. The lineup includes components and assemblies for emission reduction and fuel savings; coolant, oil and vacuum pumps plus pistons, plain bearings, engines blocks, and cylinder heads. The Group also operates a global aftermarket business.

Press contact:

Folke Heyer

Head of Press & PR

KSPG AG

Email: folke.heyer@de.kspg.com

Phone: (+49-7132) 33 3140