

Metal out, plastic in: igus® presents new tribological plain bearings for medium load range

iglide® M210 and M260 make bearing points on construction and agricultural machinery free of lubrication and maintenance

EAST PROVIDENCE, RHODE ISLAND, UNITED STATES, March 1, 2022 /EINPresswire.com/ -- igus®, the Germany-based manufacturer of motion plastics, announced it has extended its range of <u>iglide</u>® tribological plain bearings for applications with special loads. The materials iglide® M210 and M260 are new to the range. They enable a quick changeover from thick-walled metal bearings to plastic bearings without any structural modifications. The advantage of a change is that the bearing points require no lubrication and are almost maintenance-free. They offer a significant time and cost advantage, especially in harsh environments in the daily operation of construction, agricultural, and municipal machines.

The new polymer plain bearings iglide® M210 and M260 offer wall thicknesses of up to 5mm and inner diameters of 20, 25, 30, 40, 50, and 60mm. They are





iglide® M210 and M260: with the two highperformance plastics for the medium load range, users make bearing points on their vehicles for construction, agricultural or municipal purposes free of lubrication and maintenance. (Source: igus® GmbH)

particularly suitable for applications with pivoting movements in the medium load range from 20N/mm2, where a quick replacement of thick-walled metal bushings is required without

structural modifications. The materials differ slightly but display their different strengths when in interaction with various shafts. For example, the M260 variant achieves excellent wear results in combination with shafts made of St37 steel.

Less maintenance and cleaning effort, more environmental protection

The switch from metal to polymer bearings means significant cost and time savings, especially for machines and vehicles with many bearing points as lubrication is no longer required. The self-lubricating properties of iglide® bearings ensure low friction and dry operation. This prevents dirt from adhering to the bearing points and significantly reduces cleaning. Another advantage is there are no lubricants entering the environment. Additionally, the energy consumption of machines and systems is reduced because the plastic bearings are lighter than metal bearings.

Robust and lightweight at the same time

To guarantee sufficient robustness of the iglide® M210 and M260 plain bearings, the material experts at igus® work with compound fibers and fillers. These components strengthen the materials so that they withstand high surface pressures of up to 40MPa and continuous edge loads - even at extreme temperatures between -100°C and +140°C. Tests in the igus® in-house laboratory prove that the polymer bearings show limited visible wear in pivoting movements at medium loads, even after several thousand cycles.

"For this purpose, the front loader test stand on the outdoor premises is used. In addition to the standard tests, application tests are vital in material development," says Stefan Loockmann-Rittich, Head of the iglide® plain bearings business unit at igus®. "All test results then flow into the iglide online experts, with which the service life of M210 and M260 can be precisely calculated under specific specifications."

To learn more about self-lubricating and maintenance-free igus® bearings, please visit: iglide® 17 Standard Bearing Materials

ABOUT IGUS:

igus GmbH develops and produces motion plastics. These self-lubricating, high-performance polymers improve technology and reduce costs wherever things move. In energy supplies, highly flexible cables, plain and linear bearings as well as lead screw technology made of tribopolymers, igus is the worldwide market leader. The family-run company based in Cologne, Germany, is represented in 35 countries and employs 4,150 people across the globe. In 2020, igus generated a turnover of €764 million. Research in the industry's largest test laboratories constantly yields innovations and more security for users. 234,000 articles are available from stock and the service life can be calculated online. In recent years, the company has expanded by creating internal startups, for example, ball bearings, robot drives, 3D printing, the RBTX platform for Lean Robotics and intelligent "smart plastics" for Industry 4.0. Among the most important environmental investments are the "chainge" program – recycling of used e-chains - and the participation in an enterprise that produces oil from plastic waste (Plastic2Oil).

Michael Rielly PO Box 14349 East Providence, RI, 02914 +1 800-521-2747 mrielly@igus.net

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