

Similar price, double the performance: New plain bearing all-rounder from igus

At Hannover Messe 2017, igus is showing the improved version of iglide G300, the world's most successful material for plastic bearings

igus has improved its best-seller, the all-round bearing material iglide G300, and will be presenting iglide G1 at Hannover Messe 2017. What makes the new self-lubricating and maintenance-free triboplastic material so convincing is its higher temperature resistance and low moisture absorption as well as its improved friction and wear behavior. And all of this at almost the same price.

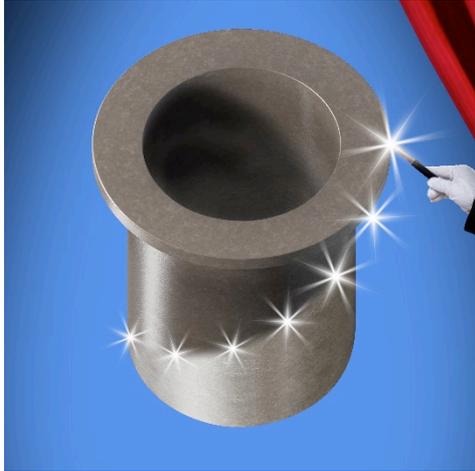
When it comes to the minimization of friction and wear without the need for any lubrication or maintenance, customers can now choose from a catalogue that contains a wide range of bearings made of 53 triboplastics with special material properties. In the igus product range, customers can find plastics especially suited for construction and agricultural machines as well as for use in the food or chemicals industry. The most frequently used iglide bearing, however, is iglide G300. Presented for the first time in 1983, it can now be supplied worldwide from stock in 650 metric catalogue dimensions with diameters ranging from 1.5 to 195 millimeters. It combines a favorable price with many attractive technical properties: a long service life across the entire load spectrum on a wide variety of rotating or pivoting shafts, even in very different ambient conditions, for example when applications are exposed to dirt, dust or impacts. At Hannover Messe 2017, igus will now be showing an upgraded version of this successful universalist: iglide G1.

"The new G300": service life doubled

The new all-rounder achieves the stated goals for these igus products, namely enhancement of technical performance and reduction of costs, and does so in an exemplary manner. This is because the material of "the new G300" has considerably improved properties at almost the same price. The igus developers have reduced the wear rates at low loads (up to to 5 MPa) down to levels up to a quarter of what they were before. The service life under heavy

loads has almost been doubled, depending on the application parameters. At the same time, the all-rounder can now be used continuously at temperatures up to 180°C (iglide G300: 130°C). In addition, the temperature above which an additional means of axially securing the bearing apart from the press fit is recommended has been increased by half to 120 °C In conjunction with the more than 50 per cent reduction of moisture absorption, this means that the material is suitable for an even wider range of ambient conditions. "The new material is an improved alternative in moving applications where metal solutions have been used up to now", says René Achnitz, Head of Business Unit iglide bearings at igus. "With this new material, customers can reduce costs by around 40 per cent, increase the service life of bearings and, at the same time, profit from the special material properties of iglide such as the absence of a need for lubrication, lower weight and corrosion resistance. "Initially, iglide G1 will be made available in 113 standard dimensions in the form of cylindrical bearings and flange bearings. Moreover, the range of dimensions will now be expanded continually in response to customer enquiries. Thanks to extensive tests in the 2,750 square-meter laboratory, it will soon be possible to calculate and configure iglide G1 online like all the materials contained in the igus catalog.

Captions:



Picture PM1917-1

The plastic arts: At Hannover Messe, igus will be presenting iglide G1, the new self-lubricating and maintenance-free plastic bearing. Compared to iglide G300, the new all-rounder offers double the service life for almost the same price. (Source: igus GmbH)

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ABOUT IGUS:

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs 3.180 people around the world. In 2016, igus generated a turnover of 592 million euros with motion plastics, plastic components for moving applications. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

The terms "igus", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain systems", "e-ketten", "e-kettensysteme", "e-skin", "energy chain", "energy chain systems", "flizz", "iglide", "iglidur", "igubal", "invis", "manus", "motion plastics", "pikchain", "readychain", "readycable", "speedigus", "triflex", "twisterchain", "plastics for longer life", "roboLink", "xiros", "xirodur" und "vector" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.