

Wear-resistant sliding movement in an extremely small space with iglidur tribo-polymer coating from igus

igidur coating technology with igus tribo-plastics makes surfaces of metal components resistant to abrasion

For lubrication-free sliding in a very small space, igus has now developed three new materials made of maintenance-free tribo-polymers as coating material for metal components such as metal sheets, valves or even shafts. This means that, for users who do not have enough space to install a plain bearing, a wear-resistant, compact and cost-effective solution is now available.

More and more compact, lighter and smaller: this is not only the slogan of electronics manufacturers; in industry as well, the demand for space-saving machines is growing unceasingly. As a consequence, technical design engineers are creating small machines and equipment for use where installation space is at a premium. As regards components, more solutions are called for in the area of plain bearing technology as every single millimetre counts. In order to meet the new requirements in the area of mechanical engineering, igus has made use of its decades-long experience in the development of tribologically optimised plastics and has now developed three new maintenance-free and lubrication-free tribo-polymers as coating materials specially for very small installation spaces. As a result, not only the lubrication-free iglidur plain bearings but also the iglidur coating service for metal surfaces with the material iglidur IC-01 and the new IC-02, IC-03 and IC-06 materials are now available to the user.

Less installation space due to coating

The installation space needed for a plain bearing can be reduced through the use of a coating: ideal for small and compact machines and equipment. Thanks to the polymer coating, the surface of moving components is extremely durable and wear-resistant. The surface is also corrosion-free and resistant to chemicals

thanks to the tribo-polymers. The coatings are used in valves, pumps, for guide plates and for guide systems.

Caption:



Picture PM4319-1

Wear-resistant sliding in extremely small spaces: new coating materials made of tribologically optimised iglidur plastics make metal surfaces abrasion-resistant. (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 around 4,150 people around the world. In 2018, igus generated a turnover of 748 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", "Apiro", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain-systems", "e-ketten", "e-kettensysteme", "e-skin", "e-spool", "flizz", "igear", "igidur", "igubal", "kineKIT", "manus", "motion plastics", "pikchain", "plastics for longer life", "readychain", "readycable", "ReBel", "speedigus", "triflex", "roboLink", "xirodu" and "xiros" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.