

Easy clip with K230: New iglidur material for smart plain bearing designs

The company igus introduces tribo-plastic especially for lubrication-free and maintenance-free clip and flanged bearing

If the user is looking for a safe lubrication-free bearing, then igus offers a wide range of solutions: In addition to the extensive catalogue product range for cylindrical standard plain bearings, these also include the so-called clip and flanged bearings. These are used because of their ease of installation and design, especially in sheet metal feedthroughs. In order to withstand high edge loads even under extreme conditions, igus has now developed a new material. The wear-resistant material iglidur K230 is highly elastic, chemical resistant and withstands moisture influences.

Sheet metal structures usually do not offer an option to press a plain bearing in a mounting hole or in a housing and fix it. Instead, a bearing must line the punched hole, which is usually quite rough and thus guide the shaft safely. Fast assembly, manual and automated, as well as self-retention are further requirements. For such cases, igus has the "clip bearing" in its range. The name derives from the simple assembly, in which the slotted plain bearing is guided through the hole using the smaller of the two flanges and then "clipped". In addition to the standard range of clip bearings, there are numerous customised solutions. There are also bearings in which the second flange is formed by flanging after inserting into the hole. These solutions have proven themselves millions of times over the years. For example, reducing friction and noise in car seats. All designs have the common requirement of high flexibility and toughness. For quick installation and to withstand the high edge loads in the sheet metal feed throughs. The new igus material iglidur K230 has exactly these properties.

High elastic material for easy installation

The lubrication-free material iglidur K230 is highly elastic and flexible, making it ideal for flange and clip bearings. Extensive tests in the in-house igus laboratory also show that the high-performance plastic newly developed by igus fits

seamlessly into the best iglidur standard materials in terms of wear resistance. It absorbs moisture only in extremely small quantities and has a very good universal media resistance. A use even in applications with a humid environment is possible. The new material can also demonstrate its advantages in applications with high temperatures of up to 130 degrees Celsius. Initially, igus offers the material iglidur K230 especially for clip and flanged bearings in customised designs. On request, the flexible material is also available as plain bearings in standard sizes.

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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 3,800 people around the world. In 2017, igus generated a turnover of 690 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", "flizz", "iglide", "igidur", "igubal", "manus", "motion plastics", "pikchain", "readychain", "readycable", "speedigus", "triflex", "plastics for longer life", "robolink", and "xiros" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.

Caption:



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Sheet metal feedthroughs are safely mounted even under extreme conditions with the quickly installed iglidur K230 lubrication-free clip and flanged bearings.

(Source: igus GmbH)