

Maintenance-free and extremely light ball bearings from igus specifically designed for confined spaces

xiros thin ring bearings enable smooth feel in control systems

The motion plastics specialist igus has developed thin ring bearings in accordance with DIN 625 for small installation spaces and where very low weight is crucial. The xiros plastic ball bearings are, for example, suitable for a wide range of control systems in vehicles due to the freedom from lubrication and maintenance as well as very low friction.

Temperature, ventilation or suspension dynamics - a lot can be adjusted in the car by means of various rotary controls. Here, the new xiros type 67 and 68 thin ring bearings are particularly suitable since an extremely low weight is crucial and usually only a small space is available. The motion plastics specialist igus offers this in two different materials (xirodur B180 and xirodur S180) in inner diameters between four and 30 millimetres. Special dimensions or customer-specific integrated solutions are also possible on request. For both xirodur materials, users can choose between balls made of stainless steel 1.4401 or glass, whereby the use of glass balls guarantees a completely non-magnetic version of the ball bearings. In addition, the use of plastic balls is possible on request for a further weight reduction.

Maintenance-free and light-weight

The xiros thin ring bearings from igus are suitable for application temperatures between -40 degrees Celsius and +80 degrees Celsius. They do not require lubrication and are corrosion free. In the largest test laboratory for plastics in motion at igus with a floor area of 2750 square metres, various rotating and pivoting tests have proved that the bearings are suitable for several 100 million cycles within permissible loads. "As in all xiros ball bearings, the frictional torque of our thin ring bearings is also very low," says Marcus Semsroth, head of the xiros ball bearings division at igus. "Thus, no breakaways can be felt when they are moved, which, for example, ensures very good haptics when used on rotary controls." For the correct selection, configuration and ordering, igus has

developed easy-to-use online tools. The best xiros ball bearing can be configured with just a few clicks here: www.igus.eu/xiros.

Captions:



Picture PM5516-1

Lubrication-free and maintenance-free xiros thin ring bearings are used in small installation spaces, for example, in rotary controls in vehicles. (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 2,950 people around the world. In 2015, igus generated a turnover of 552 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.