

Maximum precision: new drylin linear bearings for round shafts

New bearings made of iglidur W360 high-performance plastic ensure precise and easy linear movements

The new iglidur W360CM series linear bearings are designed to slide on round shafts with high precision. The linear bearing consists of an aluminium housing and a polymer liner, which ensures high accuracy. The design allows precise movement. By using iglidur W360 high-performance polymers, no external lubrication is needed. The dimensions of the new bearings are interchangeable with metallic linear ball bearings, so that they can be easily converted to a 1:1 ratio providing the correct technical considerations are observed.

Linear bearings are used everywhere where goods or objects are moved from A to B, or in adjusting devices or machines. An important reason why motion plastics specialist igus developed the W360CM linear plain bearing series is that high precision motion is a key requirement in, for example, microscopes and X-ray machines. These bearings ensure maximum precision and reliability on drylin R-series round shaft guides.

The long-lasting sliding elements of the bearing are characterised by a thin wall and high strength. They are manufactured using injection moulding from the high-performance polymer, iglidur W360. The bearing can operate in a temperature range between 0°C-50°C. Due to the thinner wall design, higher material strength and reduced elasticity, the linear bearings ensure a low operating bearing clearance. These new bearings, like all igus plain bearings and linear bearings, are free of lubrication and thus free from contamination and maintenance.

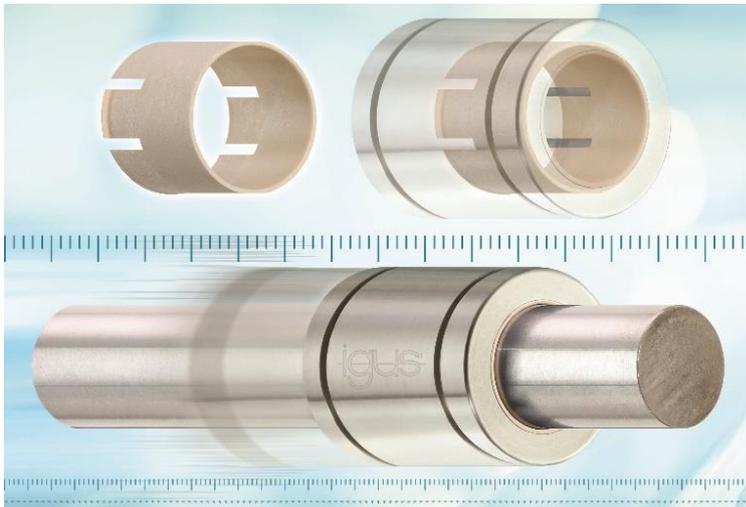
New polymers pass the test

The W360CM linear bearings can be easily mounted in all drylin housings as well as in all standard designs for linear ball bushings. For example, ball-based solutions can be converted 1:1 with the maintenance-free solution

without the design wall. The construction of the new linear bearings is simple: the sliding inserts are pressed into the housing until a pre-tensioned snap hook fits into a groove, so the liners are secured and do not come free even under high loads and temperatures. The new drylin R-series was also convincing in tests at igus's 3,800 square metre laboratory in Cologne, Germany. Using mandrel measurements to check the bearing clearance and precision, it was shown that the bearings of the W360CM series perform much better than coated linear bearings.

Learn more about the new warehouse at:

<https://www.igus.co.uk/info/n21-drylin-linear-liners>



Bearings made of iglidur W360 high-performance plastic ensure maximum precision and stiffness on round shafts.

igus resources:

-  LiveChat with our technical team at [igus.co.uk](https://www.igus.co.uk)
-  Follow us at twitter.com/igusUK
-  Watch our videos at [igus.co.uk/YouTube](https://www.igus.co.uk/YouTube)
-  Connect to us at [igus.co.uk/Facebook](https://www.igus.co.uk/Facebook)
-  Read our blog at [blog.igus.co.uk](https://www.igus.co.uk/blog)

About igus:

Based in Northampton in the UK and with global headquarters in Cologne, Germany, igus is a leading international manufacturer of energy chain systems and polymer plain bearings. The family-run company is represented in 31 countries and employs over 4000 people around the world. In 2019, igus generated a turnover of 764 million euros with motion plastics, plastic components for moving applications.

With plastic bearing experience since 1964, cable carrier experience since 1971 and continuous-flex cable experience since 1989, igus provides the right solution based on 100,000 products available from stock, with between 1,500 and 2,500 new product introductions each year. 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.

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