

## **Plastic pillow block bearings from igus replace metallic solutions and eliminate grease**

### **New xiros pillow block bearings are 100 percent self-lubricating, making them hygienic and ideal for the food and packaging industry**

Pillow block bearings play a central role in the food industry. They are used in the continuously-operating roller conveyors and conveyor belts to ensure that the shafts rotate smoothly under heavy loads. Metallic pillow block bearings require external lubrication, which considerably increases the likelihood of contamination. The process of lubricating metal bearings requires additional time and money, and, more importantly, the combination of external lubricants and corrodible metal does not meet the hygienic requirements of the food industry. Metal bearings also have high friction rates due to their shield and grease filling, which cause the rollers of the conveyor belt to stop rotating and the conveyor to completely wear out. This results in machine shutdown and high downtime costs.

igus has developed a self-lubricating solution with FDA-compliant and high-performance plastic components: the xirodur B180 pillow block bearing. Due to its special material and built-in stainless-steel balls, the bearing is smooth-running and corrosion-resistant. The self-lubricating and wear-resistant properties also eliminate potential contamination and save huge costs.

### **Reduce weight by 83 percent with xirodur B180 pillow block bearings**

Due to the identical hole spacing dimensions, metal bearings can be easily replaced with xirodur B180. When metal solutions are replaced, 83 percent weight is reduced since the design of xirodur is very compact. The ball-mounted xiros pillow block bearing is flushable and suitable for application environments of up to 176 degrees Fahrenheit. The bearing can also withstand with up to 110 pounds and 850 revolutions per minute. xirodur B180 is currently being used for shafts with a diameter of 2.5 centimeters, but other sizes are available upon request.

**Caption:**



**Picture PM6817-1**

The self-lubricating pillow block bearing made of xirodur B180 replaces metallic solutions in the food and packaging industry. (Source: igus GmbH)

## About igus®

igus® develops industry-leading energy chain® cable carriers, chainflex® continuous-flex cables, drylin® linear bearings and linear guides, iglide® plastic bushings, and igubal® spherical bearings. These seemingly unrelated products are linked together through a belief in making functionally advanced, yet affordable plastic components and assemblies. With plastic bearing experience since 1964, cable carrier experience since 1971 and continuous-flex cables since 1989, igus provides the right solution from over 100,000 products available from stock. No minimum order required. For more information, contact igus at 1-800-521-2747 or visit [www.igus.com](http://www.igus.com).

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