

A lot of performance in a little space: the new igus® slewing ring bearings are incredibly compact

The high-performing product line from igus is being expanded further with the self-lubricating and maintenance-free iglide® PRT-04 slewing ring bearing

EAST PROVIDENCE, RI, UNITED STATES, May 3, 2022 /EINPresswire.com/ -- igus, a leading global manufacturer of engineered components to increase the service life of customers' machines, has expanded its [PRT slewing ring bearing series](#) with an incredibly compact slewing ring for even more space savings.

Installing drives and allowing movements in even the smallest of installation spaces is a challenge companies face in many areas. Requirements for machine components are becoming increasingly stringent. To meet these requirements, igus has introduced the PRT-04 – a highly compact slewing ring bearing. The igus PRT-04 slewing ring bearing is small, robust, 60% lighter, and has 50% more space savings than the PRT-01 series.

The PRT-04 has an outer diameter of 60mm, the smallest installation size among igus PRT slewing ring bearings. It consists of three aluminum rings and a newly developed sliding element made of the proven iglide J high-performance plastic, which operates exceptionally well on aluminum, ensuring good coefficients



Small but mighty: the PRT-04 can be integrated into very small customer applications with absolutely no lubrication while still accommodating high loads. (Source: igus® GmbH)



of wear and long service life. It also has low moisture absorption and good chemical resistance.

Other materials can also be used, depending on individual customer requirements. Like all igus bearings, the PRT-04 is 100% self-lubricating and insensitive to dirt, dust, and moisture.

A lightweight solution for moving applications

"Aluminum with plastic offers two decisive design advantages: lightweight yet stable," says Fabian Wieking, PRT Slewing Ring Bearing Product Manager at igus. "Thus, despite its small size, the PRT-04 can hold its own against comparable products on the market and accommodate high loads (up to 3,500N) in the axial direction, even though it is much more compact."

The PRT-04 allows for smooth rotary and swivel movements in even smaller installation spaces, giving rise to a number of possible applications. Possible applications are small, movable lighting installations - so-called moving head applications - or swiveling tables in trains and airplanes, but also automotive applications. The low weight is also highly relevant in all industries.

The low weight also pays off here in terms of fuel consumption. Less weight means less consumption - and thus, another way to reach the goal of greater sustainability. After all, eliminating lubricants adds value: maintaining equipment costs time and money. The solid lubricants in the iglide material mean that the slewing ring bearing works without greases and oils, eliminating the need for maintenance while making the slewing ring bearing remarkably durable.

Another advantage is that the PRT-04 is a ready-to-install part that can be integrated directly into an application, reducing design costs and DIY bearing points.

Ready to install or individually configurable: the best advice from PRT experts

Since 2019, igus has offered users the PRT slewing ring bearing series, an extensive and constantly growing modular system explicitly developed for movements in confined spaces. It consists of a variety of combinable variants.

The [iglide PRT expert](#) aids in selecting the slewing ring bearing suitable for any application and calculates the expected service life. Users enter the installation space, load, speed, and environmental parameters.

The service life is checked thoroughly in igus's 3,800m² test laboratory. The data collected is integrated into the PRT configurator, allowing a reliable statement about slewing ring bearing service life.

To learn more about igus self-lubricating PRT slewing ring systems, click [here](#).

ABOUT IGUS:

igus GmbH develops and produces motion plastics. These self-lubricating, high-performance polymers improve technology and reduce costs wherever things move. In energy supplies, highly flexible cables, plain and linear bearings as well as lead screw technology made of tribo-polymers, igus is the worldwide market leader. The family-run company based in Cologne, Germany, is represented in 35 countries and employs 4,900 people across the globe. In 2021, igus generated a turnover of €961 million. Research in the industry's largest test laboratories constantly yields innovations and more security for users. 234,000 articles are available from stock and the service life can be calculated online. In recent years, the company has expanded by creating internal startups, for example ball bearings, robot drives, 3D printing, the RBTX platform for Lean Robotics and intelligent "smart plastics" for Industry 4.0. Among the most important environmental investments are the "chainge" program – recycling of used e-chains and the participation in an enterprise that produces oil from plastic waste.

Michael Rielly
PO Box 14349 East Providence, RI, 02914
+1 800-521-2747
mrielly@igus.net

This press release can be viewed online at: <https://www.einpresswire.com/article/570519538>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2022 Newsmatics Inc. All Right Reserved.