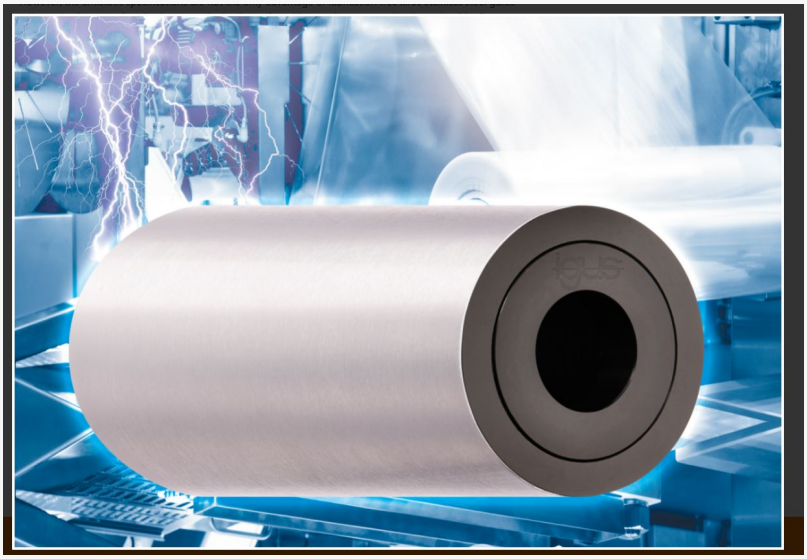
New Igus Guide Roller Protects Against Sparks

Self-lubricating, maintenance-free xiros® stainless steel guide roller ensures safe operation

STAMFORD, CONNECTICUT, UNITED STATES, January 28, 2022 /EINPresswire.com/ -- igus®, a global leading manufacturer of engineered components with the purpose to increase the service life of customers' machines, has expanded the range of self-lubricating and maintenance-free xiros® guide rollers to include a dissipative variant made of stainless steel.



Antistatic: the absence of lubricants in the xiros® stainless steel guide roller gives users a clear advantage in terms of safety. (Source: igus® GmbH)

When you are in a department store with rubber soled shoes and you grab the banister of the escalator, you get an electric shock: unpleasant, but not a major problem. On the other hand, the situation is different in many industrial production and processing operations, such as machines and systems for film production or food packaging. Uncontrolled electrostatic discharges and sparks can lead to machine damage, high downtime and repair costs, and worst case scenario, can even trigger fires and explosions.

To guard against discharges and prevent damage, igus® has developed the xiros® stainless steel guide roller - a kind of rotating lightning conductor that ensures a controlled electrostatic discharge. These rollers are a cost-effective alternative to antistatic brushes and expensive proprietary designs. The ready-to-install guide rollers are available in stock sizes 608, 6000, and 6001 with a stainless steel tube length of 100 to 1,000 millimeters.

The freedom from lubrication enables barrier-free electrostatic discharge

The new xiros® stainless steel guide roller is suitable as a deflection roller for films in packaging machines. It is made of a stainless steel and plastic material mix that provides electrostatic dissipation: the tube and balls of the rolling bearing are made of stainless steel. The inner and outer rings are made of the company's own antistatic high-performance plastic xiros® F180.

They can be used in temperature ranges between -40°C and +80°C. Unlike traditional metal bearings, there is no need for lubricants that have an insulating effect and could prevent conduction. The absence of lubricants ensures the electrostatic dissipation is possible via the outer surface of the tube, onto the outer ring, then to the balls in the bearing, and finally via the inner ring to the shaft.

Individual components suitable for contact with food

However, the antistatic specifications are not the only advantage of xiros® stainless steel guide rollers. The dry operation also improves the hygiene of machines and systems and reduces the risk of contamination.

All individual components are also suitable for contact with food. Users benefit from the long service life and reduced maintenance costs, as there are no inserts for relubricating the rolling bearings.

For the quick selection of the right guide roller, igus® has developed the guide roller expert. The online tool allows users to specify the outer and inner diameter as well as the length of the roller, the load, the load case and the ambient temperature. By entering the force and the degree of wrap, the online expert tool calculates the resulting force on the roller and displays the best solutions. In the second step, the user can select their guide roller based on the data for deflection, weight and price, can download the CAD data for the configuration and order the roller online.

To learn more about xiros® guide rollers, click here. To browse and shop stainless steel guide rollers, click here.

Thomas Renner
Mercury Marketing Communications
email us here

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.