

Joachim Uhing GmbH & Co. KG
Kieler Straße 23
24247 Mielkendorf
Contact person: Wolfgang Weber

Phone: +49 (0) 4347 – 906 – 0
Fax: +49 (0) 4347 – 906 – 40

Phone: +49 (0) 4347 – 906 – 22
e-mail: weber@uhing.com



The Uhing linear drive nut RS meets the highest demands on hygiene

Industrial production involves contamination next to always. This fact is a great challenge for the food industries. On one hand, lubricating greases could reach the goods to produce. On the other hand, there is a risk of processed material particles remaining and decomposing inside the machine. The non-positive linear drive nut RS offered by Joachim Uhing GmbH & Co. KG is a solution virtually predestined for this sector.

"Not only the food processing machine as such, but also all of its components have to meet the highest hygiene demands," says Jörg Wadehn, Uhing's Technical Director. "For our linear drive nut RS - mostly used in production machines of various sectors - we developed features that make it ideally suited for applications in the food industries."

What are these features? For one thing, there is the compact design of the linear drive and its smooth surfaces. To meet particularly high hygiene demands, we offer housings made of stainless steel or specially coated aluminium. The material of the smooth shaft on which the drive nut reciprocates is also well suited for application in the food processing sector.

Comparing this with commonly used threaded spindles, the following holds true: much less food can deposit on the smooth shaft. And what is more: the shaft can be cleaned residue-free.

Another feature particularly useful in the food processing sector is the wiper. It is fitted between housing and end plate and prevents food particles from entering the housing while the shaft moves. This special sealing system also safely prevents liquids and spray water from entering the linear drive nut RS. Consequently, even aggressive cleansers can be used without restrictions.

Neither can lubricants reach the goods to process. Ex works, the linear drive nut RS is lubricated via a grease nipple; an appropriate food grade lubricant for food industry applications is used. The housing is then sealed tightly. The linear drive nut lubricates the part of the shaft it uses for propulsion.

Press Release

1501-e RS and foodstuffs

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All these features of the linear drive nut RS, one of the tried and tested classics made by Uhing, the internationally renowned engineering company headquartered in Schleswig-Holstein, give food manufacturers the certainty that foods are neither contaminated with lubricating grease nor that they stick on the linear drive and decompose.

“The features making the linear drive nut RS ideal for food processing equally apply to all available sizes of the product,” stresses Wolfgang Weber, Uhing's Marketing Director. “Of course, the linear drive nut RS is also a recommended component in machines of other sectors with particular demands of purity for the product to process or where the machine components as such have to be protected against the ingress of dirt or moisture.”