Mechanical engineering

picture: Wendt

The high-precision rotary stroke bearing is most popular in mechanical engineering applications. It is used for die-cutting and molds in tool building applications and in machine tools where it is used, for example, for center sleeve bearings. It is an indispensable component for packaging machines in a wide range of industries, in automatic assembly units, textile machines and high-quality special-purpose machines. These bearings exhibit high rigidity, excellent load-bearing capacity and absence of stick slip.

Medical technology

picture: Schick

Medical equipment is subject to particularly high standards. In dental technology, rotary stroke bearings are therefore used in freehand milling machines for machining soft materials (wax, plaster). The requirements on apparatus that come into contact with patients are even higher. In the case of ophthalmological instruments, the stick-slip-free rotary stroke bearing supports the doctor's touch and experience.

Precision engineering

picture: Dienes

The degree of miniaturization in these industries requires compact instruments. Rotary stroke bearings in the MINI series satisfy this need. Small ball diameters reduce the installation space required. The "Minis" come paired without play and are essential for a wide range of applications including small control elements for placer heads and laser welding technology as well as blade holders, jigs or fixtures. Stick-slip freedom, easy movement and maintenance-free operation are all-important.

Electronics, optics

picture: Zeiss

The production of electronic components requires machines that are able to approach positions with pinpoint accuracy at high speeds. High-precision rotary stroke bearings are crucial components in printed circuit board production and lithographic processing of wafers.This is also true of optical metrology, microscopy, spectrography and lens guides in different areas of application. Stick-slip-free movement and absolute cleanliness (clean-room production) are vital.