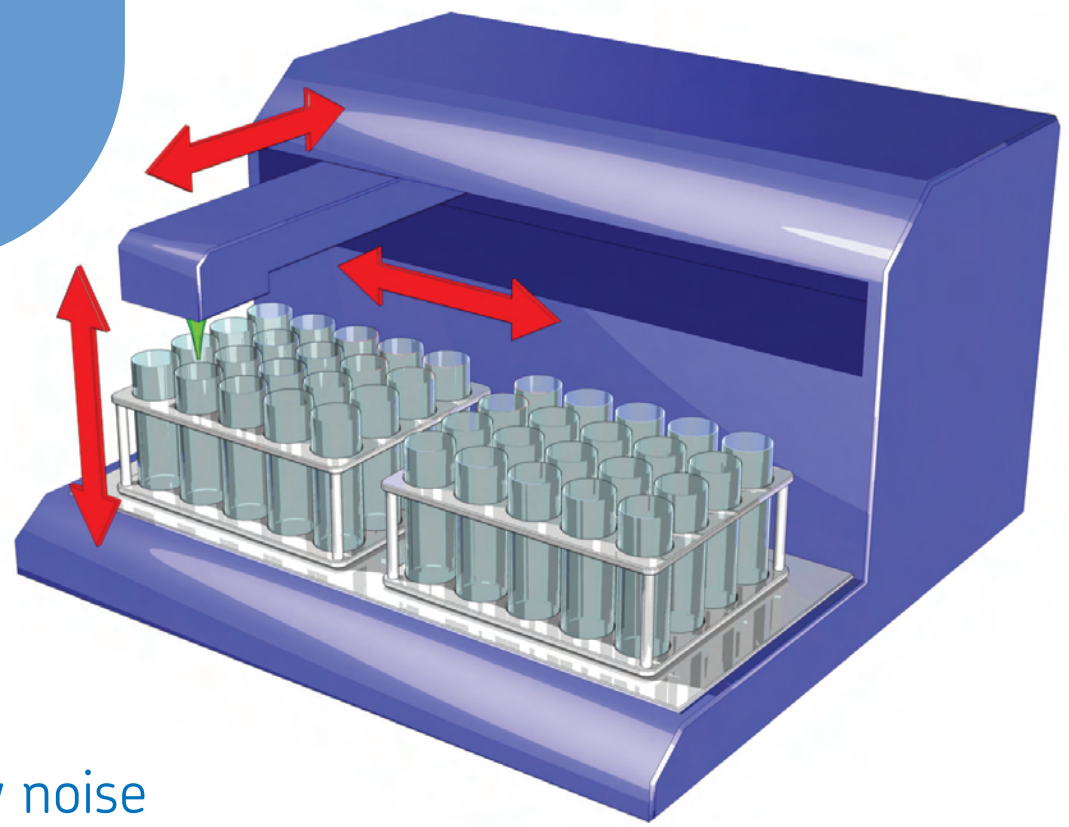
Laboratory instruments

Proven solutions

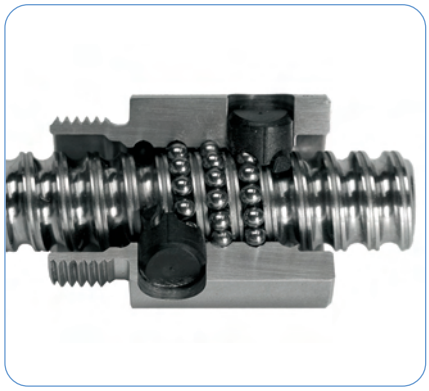


- Low noise
- Excellent repeatability
- High precision
- Compact design
- Integrated solutions

Solutions for laboratory instruments

SKF's products developed for medical laboratory instruments can operate at reduced noise levels compared to conventional products. They maintain consistent accuracy and are beneficial in the design of compact equipment.



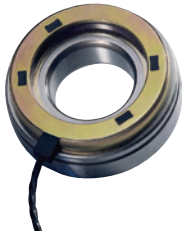










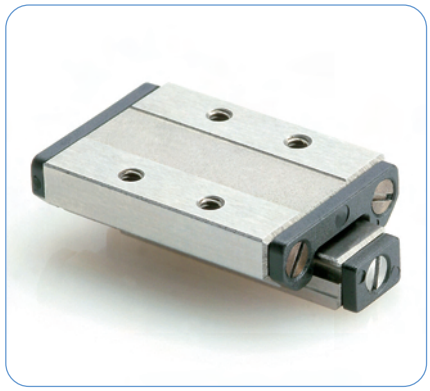


SD series ball screws
SKF introduced the SD series miniature ball screws to provide lower noise and smoother running to fill the needs of the laboratory instrument market. This series of ball screws is available in the size range 8mm to 16mm to facilitate compact designs.

By removing the external ball track and replacing it with an internal composite insert, we improved the internal/external concentricity, resulting in lower noise during operation. In addition, we enhanced the performance by making each of the ball circuits independent, rather than relying on the external tube to feed the back end of the nut. The new design also achieves higher load ratings, allowing smaller ball screws to be used in certain applications.

LZM slides
SKF's LZM linear slides provide compact, low noise linear motion for laboratory instruments. These slides provide short strokes quietly in limited space, and can be paired with the SD miniature ball screws to lower the overall linear drive system noise levels.

By integrating non-recirculating balls, we removed the noise associated with the balls going in and out of the ball tracks, the main reason for noise in linear slides. The non-recirculating balls also operate more smoothly since the balls remain in contact with the linear races throughout the length of travel. Depending on the application LZM slides are available in different preload and precision classes. Beside the "easy to mount feature" LZM slides offer a high potential for customized solutions.



SKF's wide range of linear, rotational, sealing and service solutions meet the demanding needs of the medical industry. SKF can assist you with its superior range of customized products and solutions to meet the medical market demands of today and the future.

Contact the SKF experts at:
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