

We pioneer motion

SCHAEFFLER

Schaeffler Solutions for Machine Tools



Innovation across every axis

Innovation drives us forward, precision makes us strong.

With a passion for precision and innovation, Schaeffler develops and manufactures solutions that make machine tools more powerful, efficient and flexible. Whether spindle and rotary table bearings, linear technology or direct drives – our portfolio opens up new horizons in design and cost-effectiveness. This not only gives our customers a competitive edge, but also opens up new technical and economic possibilities and sustainable progress.



Click or scan it



Increase in machine availability and productivity



Reduced operating and maintenance costs



Improvement in process stability and quality



Improvement in product quality

Solutions for workpiece axis



Rotary table bearings

The rotary table bearings YRTC, YRTS and ZKLDF offer application-specific solutions for a wide range of requirements in terms of precision, rigidity and speed. Absolute as well as incremental measuring systems and gearings can be integrated as an option.



Torque motors

RIB and RKIB torque motors are characterised by their energy efficiency and torque density. SRV motors are highly precise and suitable for workpiece grinding. Depending on the application, they can be perfectly combined with rotary table bearings.



Solutions for tool axis



Spindle ball bearings

Schaeffler's high precision bearings for main spindles are synonymous with maximum speeds, absolute precision and absolute operational reliability. Due to the very tight tolerances, high

precision bearings are particularly suitable for applications with the highest accuracy demands, such as those required for bearings of main spindles in machine tools.





Solutions for feed axis



Monorail guidance systems

Roller (RUE) and recirculating ball guidance systems (KUVE and KUSE) provide numerous application-specific features, such as improved running characteristics and increase customer benefits while maintaining process stability.



Linear motors

Efficient and powerful linear motors of the L7 series, optionally available with cooling, enable shorter cycle times, greater dimensional accuracy of the workpiece and less heat generation in the machine bed.



Threaded spindle bearings

Threaded spindle bearings are required when using screw drives (KGT and RGT). Depending on the load, angular contact ball bearing (BSB, ZKLN, ZKLF, DKLFA) or cylindrical roller bearing design (ZARF) are used.

The multi-row bearing design reduces assembly effort, while single-row bearings allow for flexible use. Ceramic rolling elements are optionally available for short stroke applications (ZKLF, ZKLN and DKLFA).



Solutions for automation



YRTA

The YRTA bearing offers high precision and tilting rigidity and is ideal for low dynamic applications. It significantly reduces the total cost of ownership and machine footprint. Gearing and encoder options make it extremely flexible.



KLLT

The four-row KLLT profile rail guidance systems compensate for inaccuracies in the surrounding structure thanks to their X arrangement. Cost-effective options and the optimised lubrication/sealing system perfect the use in automation.



Schaeffler Technologies AG & Co. KG

Georg-Schäfer-Strasse 30
97421 Schweinfurt
Germany

medias.schaeffler.de/en
CR-SWE-machine-tools@schaeffler.com
Phone +49 9721 91-0

Every care has been taken to ensure the correctness of the information contained in this publication but no liability can be accepted for any errors or omissions. We reserve the right to make technical changes.

© Schaeffler Technologies AG & Co. KG
Issued: 2026, February
This publication or parts thereof may not be reproduced without our permission.