

New solutions from the modular range of systems



Schaeffler offers a highly-specialized modular system that allows customers to select exactly the right components for their rotary tables and rotary axes – that includes high-speed, high-performance, and high-precision designs.

Three standard torque motor series and three series of rotary table and rotary axis bearings can be combined in any way desired. This means that the best solution can be assembled for every possible machine used for machining processes.

This optimum combination of components is adjusted by Schaeffler's engineers to perfectly match each individual customer's cutting process and deliver exactly the required precision and dynamics.

Rotary table bearing series YRTC-XL, YRTS, and ZKLDF

Schaeffler has an extraordinarily large selection of rotary table bearings for a wide range of machining processes, axis types, sizes, cutting forces, and speed ranges. The YRTC (now also available in X-life quality) and YRTS (S = Speed) series of axial-radial cylindrical roller bearings and the ZKLDF series of double-row axial angular contact ball bearings represent the broadest range of products for rotary tables and rotary axes on the market. These bearings are geometrically interchangeable. The integrated measuring system can be selected as an option for all rotary table bearings.



- YRTC-XL**
 - X-life quality
 - For applications in positioning and swivel-type axes that are subjected to high loads and in plane milling machines
- YRTS**
 - Suitable for bearing supports in high-speed rotary axes and rotary tables
 - For applications in ultra-precision milling, grinding, and gear cutting machines
- ZKLDF**
 - For bearing supports with long operating durations, such as rotary tables with a main spindle function
 - For applications in combined milling and turning operation as well as milling, grinding, and honing operations

Torque motor series SRV, RKI, and RIB

Our three torque motor series together with the matching rotary table bearings mean we can deliver the perfect solution for every one of your machining processes. This includes combined soft turning and milling, plane milling, gear grinding, grinding, and hard turning as well spindle applications, positioning tables, and swivel-type axes for ultra-precise machining.



SRV motors

SRV – the new series of torque motors

- Outstandingly smooth running
- For excellent surface quality without optical defects
- For workpieces with extremely high form and dimensional accuracy

RKI motors

- 30% more force than RIB motors, as well as higher torques and higher speeds
- Favorable combination of a higher power yield, very good uniform running characteristics, and low power loss

RIB motors

- For outstandingly dynamic movements and precise positioning

UNBEATABLE VARIETY

Your combination options

Rotary table bearings	YRTC-XL	YRTS	ZKLDL
	Frictional torque ++ Speed + Rigidity +++ Axial/radial runout +++	Frictional torque ++ Speed ++ Rigidity ++ Axial/radial runout ++	Frictional torque +++ Speed +++ Rigidity + Axial/radial runout ++
Torque motor			
RIB	Positioning axes, simultaneous machining	Positioning axes, simultaneous machining	Positioning axes, simultaneous machining
Torque density +++ Speed + Accuracy ++			
RKI	Gear machining (plane milling)	Combined machining (turn-milling), gear machining (plane milling)	Combined machining (turning/milling)
Torque density +++ Speed ++ Accuracy +(+)			
SRV	Ultra-precision machining, positioning table and swivel-type axes	Combined machining (turning/milling), gear grinding	Turning, combined machining (turning/milling, grinding/hard turning), spindle applications
Torque density + Speed +++ Accuracy +++			

Legend

+ Suitable
 ++ Very suitable
 +++ Extremely suitable

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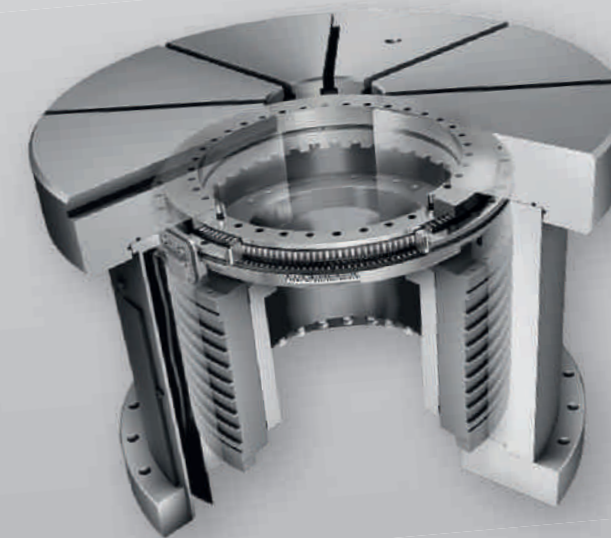
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Rolling bearings
 Plain bearings
 Linear technology
System Solution

MODULAR SYSTEM FOR ROTARY TABLES



SCHAEFFLER