
■ TABLE OF CONTENTS:

- Replacing the YRT and RTC Rotary Table Bearing Series in the Inside Diameter Range of 580 mm to 1030 mm by the New YRTC Series

[Page 2](#)

- **40% greater tilting rigidity and 50% lower bearing frictional torque – replacing YRT and RTC rotary table bearing series in the inside diameter range of 580 mm to 1030 mm with the new YRTC series**



The gradual conversion of the individual design sizes began in September 2013.

Which Product Characteristics Change?

- The YRT and RTC full complement radial roller sets are being replaced by a radial roller set guided by a plastic cage
- The axial bearing cages are made of plastic and replace the steel (YRT) or brass (RTC) cage, and due to the design, they enclose the axial roller set and thus the entire bearing on the outside by means of a gap seal
- When the rolling element set was being designed, emphasis was placed on a high degree of tilting rigidity and low friction
- YRTC bearings provide an additional possibility for relubrication by means of an axial lubrication hole in the screw mounting surface of the outer ring
- Delivery with measurement report as standard
- Greased with FAG Arcanol Multitop lubricating grease (as with RTC and ZKLDF)
- Separate axial bearing preload calibration when mounted without a supported L-section ring (order designation: YRTC...) and with a supported L-section ring (order designation: YRTC...-VSP). You can find a more detailed description in the [HR1 catalog](#) in the chapter Precision Bearings for Combined Loads, Supported L-Section Ring
- The parameters remain unchanged.

What are the resulting advantages?

- Around 40% greater rigidity
- Bearing frictional torque reduced by about 50% and thus less bearing heating or greater speeds with the same amount of heating
- Suitable for nonstop operation (YRT and RTC bearings were only designed for oscillating operation or brief power-on times)
- Higher limiting speeds
- Longer lubricating grease operating life and relubrication intervals
- Unchanged high planning and true running accuracy.



Customer benefits:

- Higher machining capacity
- More precise processing results
- Cost reduction (TCO).

Interchangeable with YRT and RTC for existing series applications:

- YRTC bearings are completely interchangeable with previously supplied YRT and RTC bearings, both geometrically and with regard to their performance characteristics.
- When used with a supported L-section ring, the YRTC...VSP variety must be used instead due to the greater rigidities of YRTC bearings.

The precise technical performance data of the individual parameters can be gleaned from the respective offer and delivery drawings.

If you have any questions, please contact your Schaeffler sales team.