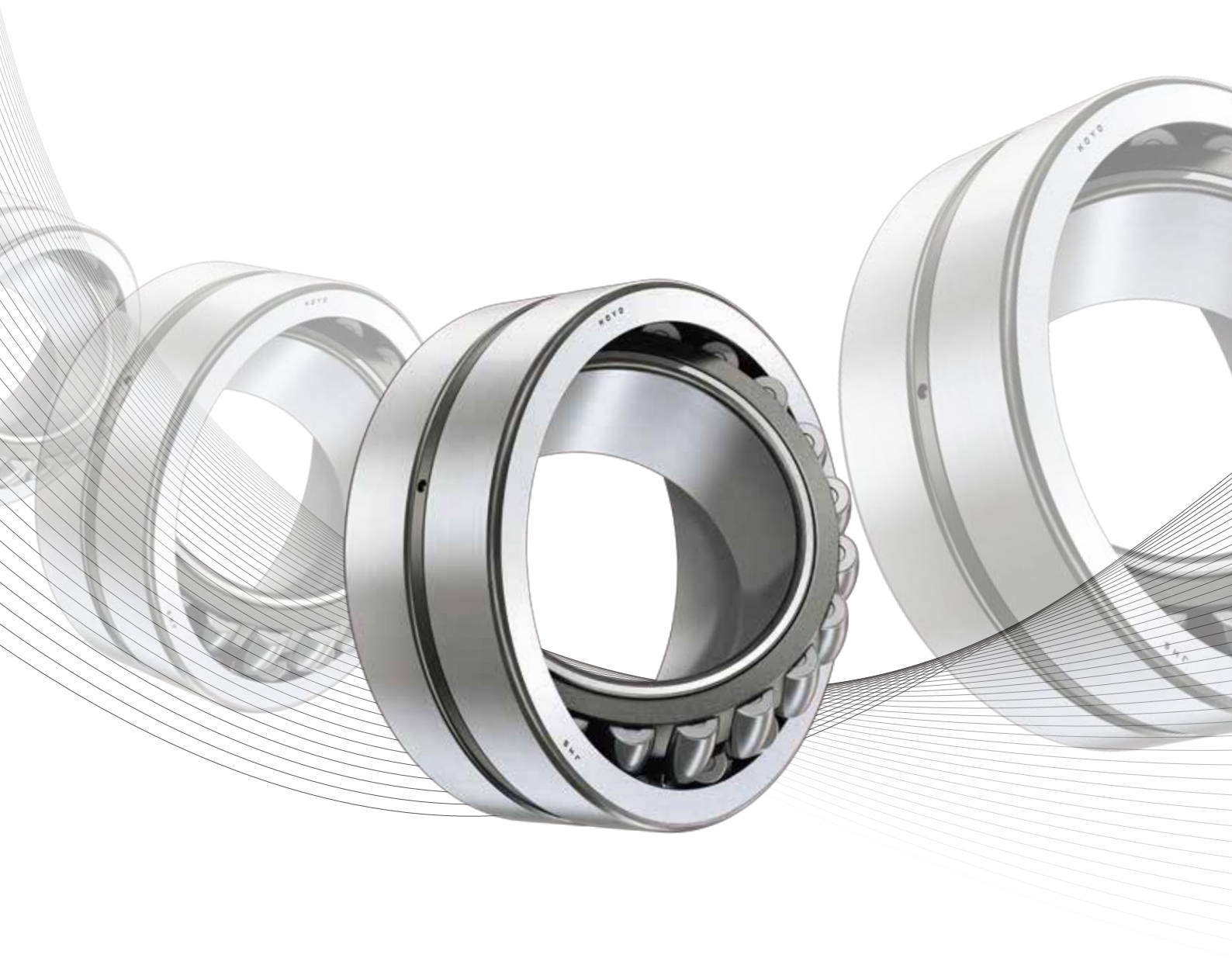


**Koyo**<sup>®</sup>

# JHS Series RZ-type Spherical Roller Bearings



**JTEKT**

JTEKT CORPORATION

**JTEKT**

**Koyo** | **TOYODA**

CAT.NO.B2023E-1



***Ultrahigh-functionality bearings  
for revolutionizing industrial  
machinery and equipment.  
This is the JHS Series.***

Aiming to ensure extremely high performance, we utilize advanced designs and processing technologies in the development of new materials.

Improved roller fatigue life. Superior toughness and corrosion resistance. Moreover, compared to other bearings, the JTEKT Hyper Strong (JHS) Series is a new-generation bearing providing unparalleled high capacity, abrasion resistance and high-speed performance.

JHS bearings support faster innovation, improvement and streamlining at manufacturing sites everywhere.





## Hyper functionality worthy of the JHS Series name. New RZ-type Spherical Roller Bearing Lineup Debuts

More compact, yet same capacity. Same size, but with high speed and long life. Additionally, the load on the cooling system has been reduced. We are also responding to a variety of needs such as improving quality and productivity onsite, streamlining and saving energy.



# JHS Series RZ-type Spherical Roller Bearings



RZ-type Spherical Roller Bearings are the newest in our line of JHS Series Spherical Roller Bearings, joining the popular R and RH types satisfying our customers' needs to date. The bearings have an optimal internal design, excellent roller position stability and a standardized dimension stabilizing treatment that enable high-speed rotation, enhanced axial load performance, a long life and the ability to be used in high-temperature applications.

## RZ-type

### Features

Developed bearings have not only maximized load ratings like the RH-type, but also high speed / high performance characteristics for the axial load, like the R-type.

### Structure

- Symmetrical roller
- Roller maximized / Number of rollers increased
- Roller position stabilized
- Without center guide rib (floating guide ring)



### R-type

**Features** High speed / High performance for axial load

**Structure**

- Asymmetrical roller
- With center guide rib

Roller load: Balanced using three-point support

### RH-type

**Features** High performance for radial load

**Structure**

- Symmetrical roller
- Without center guide rib (floating guide ring)

Roller load: Balanced using two-point support

### Optimal internal design

Dynamic load rating/static load rating increased through design optimization

RZ-type compared to existing products

Dynamic load rating

**Max. 1.15 times**  
(compared to our existing products)

Static load rating

**Max. 1.30 times**  
(compared to our existing products)

### Roller position stabilized

Controls roller behavior using optimized raceway curvature

### High temperature

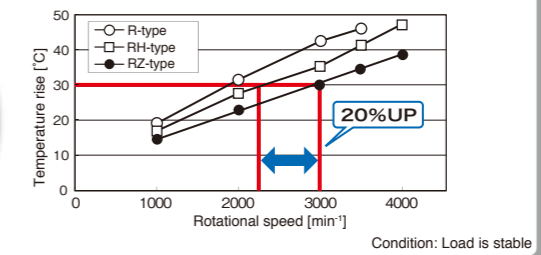
Dimension stabilizing adopted as standard treatment, realizing applicability in temperatures as high as 200°C and expanding use to a wider variety of environments.

### Long life

Max. **2 times**  
(compared to our existing products)

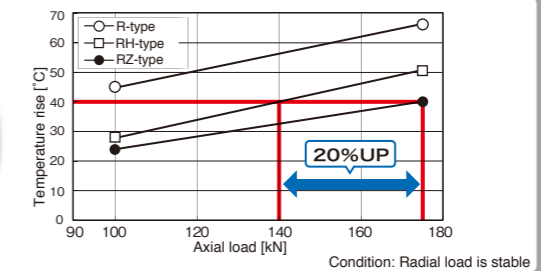
### High speed

Limiting speed  
Max. **25%UP**  
(compared to our existing products)



### High axial load performance

Max. **20%UP**  
(compared to our existing products)



### High temperature

up to **200°C**







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