

PRODUCT DATASHEET

ES-BR-C29-S003-V007

300 mm Precision Transmission Component

Rotary Table Bearings | ES-BR-RT01 Rotary Table Bearing Series

Product Overview

300 mm Precision Transmission Component with body Outer Diameter 300 mm, axial Dynamic Load Rating 120 kN and radial Dynamic Load Rating 81.5 kN.

Key Specifications

| PARAMETER                       | VALUE | UNIT |
|---------------------------------|-------|------|
| Body Outer Diameter             | 300   | mm   |
| Axial Dynamic Load Rating       | 120   | kN   |
| Radial Dynamic Load Rating      | 81.5  | kN   |
| Mass                            | 9.7   | kg   |
| Axial Static Load Rating        | 765   | kN   |
| Extraction Thread               | M8    |      |
| Extraction Thread Hole Count    | 3     |      |
| Friction Torque                 | 14    | N·m  |
| Inner Ring Counterbore Diameter | 11    | mm   |

## Technical Specifications

| PARAMETER                  | SPECIFICATION | UNIT  |
|----------------------------|---------------|-------|
| PERFORMANCE                |               |       |
| Axial Dynamic Load Rating  | 120           | kN    |
| Radial Dynamic Load Rating | 81.5          | kN    |
| Friction Torque            | 14            | N·m   |
| Limiting Speed             | 260           | r/min |
| Rotation Accuracy P2       | 2             | μm    |
| Axial Static Load Rating   | 765           | kN    |
| Radial Static Load Rating  | 220           | kN    |
| Rotation Accuracy P4       | 4             | μm    |
| MECHANICAL                 |               |       |
| Body Outer Diameter        | 300           | mm    |
| Mass                       | 9.7           | kg    |
| Inner Ring Height H        | 30            | mm    |
| Inner Ring Diameter        | 200           | mm    |

## Technical Specifications

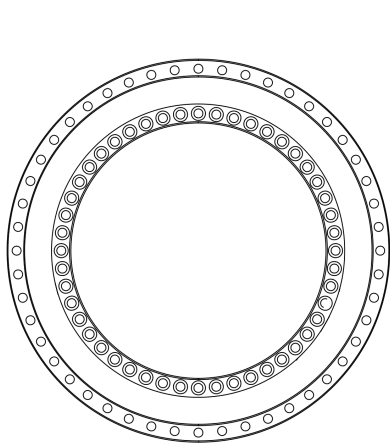
| PARAMETER                         | SPECIFICATION | UNIT |
|-----------------------------------|---------------|------|
| INTEGRATION                       |               |      |
| Extraction Thread Hole Count      | 3             |      |
| Inner Ring Mounting Hole Count    | 46            |      |
| Inner Ring Mounting Hole Diameter | 7             | mm   |
| Mounting Screw Specification      | 48×7.5°       |      |
| Tightening Torque                 | 14            | Nm   |
| Inner Ring Counterbore Diameter   | 11            | mm   |
| Outer Ring Mounting Hole Diameter | 7             | mm   |
| Inner Ring Hole Pitch             | 6.2           | mm   |
| Extraction Thread                 | M8            |      |
| Outer Ring Mounting Hole Count    | 45            |      |
| Inner Ring Lifting Hole Count     | 2             |      |

# Dimensional & Integration Overview

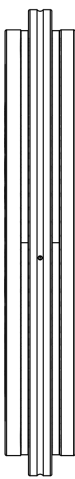
## Mechanical Overview

| PARAMETER                         | VALUE | UNIT |
|-----------------------------------|-------|------|
| Body Outer Diameter               | 300   | mm   |
| Mass                              | 9.7   | kg   |
| Inner Ring Height H               | 30    | mm   |
| Inner Ring Diameter               | 200   | mm   |
| Inner Ring Mounting Hole Count    | 46    |      |
| Inner Ring Mounting Hole Diameter | 7     | mm   |

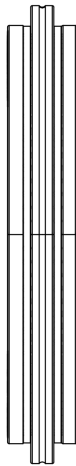
## Dimensional Drawings



Mechanical View 1



Mechanical View 2



Mechanical View 3

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.