



PRODUCT DATASHEET

Datasheet creation date: 2025/07/07 9:48 (UTC)



HR32009XJ

Metric Series Tapered Roller Bearings

Dimension series

| | | | |
|-----|-----|---------------------------------|--|
| ISO | 3CC | ISO355 dimension series approx. | |
|-----|-----|---------------------------------|--|

Boundary Dimensions

| | | | |
|---------------|------|----|--|
| d | 45 | mm | Bore diameter |
| D | 75 | mm | Outside diameter |
| T | 20 | mm | Total width |
| B | 20 | mm | Width of inner ring |
| C | 15.5 | mm | Width of outer ring |
| Cup r (min.) | 1 | mm | Chamfer dimension of outer ring (Cup) |
| Cone r (min.) | 1 | mm | Chamfer dimension of inner ring (Cone) |

Basic Load Ratings

| | | | |
|-----|-------|---|---------------------------|
| Cr | 74000 | N | Basic dynamic load rating |
| C0r | 83000 | N | Basic static load rating |

Speeds

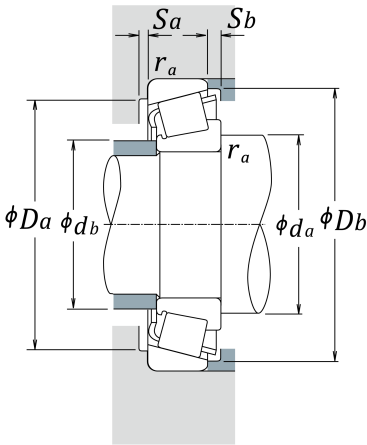
| | | | |
|----------------|------|-------|----------------------|
| Grease | 4500 | min-1 | Grease lubrication |
| Oil (Oil-bath) | 6300 | min-1 | Oil-bath lubrication |

Dimensions

| | | | |
|---|------|----|-----------------------|
| a | 16.6 | mm | Effective load center |
|---|------|----|-----------------------|

Abutment and Fillet Dimensions

| | | | |
|-----------|-----|----|---|
| da (min.) | 54 | mm | Diameter of shaft abutment |
| Db (min.) | 72 | mm | Diameter of housing abutment |
| Da (min.) | 67 | mm | Diameter of housing abutment |
| Da (max.) | 69 | mm | Diameter of housing abutment |
| Sa | 4 | mm | Minimum width of space required in housing on large side face |
| Sb | 4.5 | mm | Minimum width of space required in housing on small side face |
| db (max.) | 51 | mm | Diameter of shaft abutment |
| ra (max.) | 1 | mm | Radius of shaft or housing fillet of inner ring |
| ra (max.) | 1 | mm | Radius of shaft or housing fillet of outer ring |



Calculation factors

| | | |
|----|------|--------------------|
| e | 0.39 | Constant |
| Y0 | 0.84 | Axial load Factors |



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| | | |
|----|-----|--------------------|
| Y1 | 1.5 | Axial load Factors |
|----|-----|--------------------|

Mass

| | | | |
|--------------|-------|----|--------------|
| Mass approx. | 0.354 | kg | Mass approx. |
|--------------|-------|----|--------------|