



PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 8:53 (UTC)

MOTION & CONTROL
NSK



HR30302J

Metric Series Tapered Roller Bearings

Dimension series

| ISO | 2FB | ISO355 dimension series approx. | |
|----------------------------|-------|---------------------------------|--|
| Boundary Dimensions | | | |
| d | 15 | mm | Bore diameter |
| D | 42 | mm | Outside diameter |
| T | 14.25 | mm | Total width |
| B | 13 | mm | Width of inner ring |
| C | 11 | 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 | 29000 | N | Basic dynamic load rating |
| C0r | 21100 | N | Basic static load rating |

Speeds

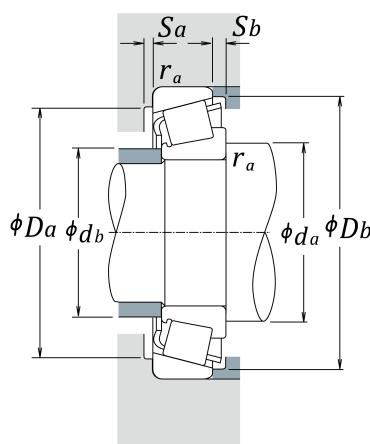
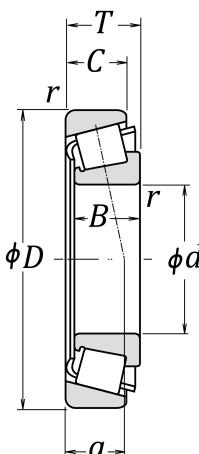
| | | | |
|----------------|-------|-------|----------------------|
| Grease | 9500 | min-1 | Grease lubrication |
| Oil (Oil-bath) | 13000 | min-1 | Oil-bath lubrication |

Dimensions

| | | | |
|---|-----|----|-----------------------|
| a | 9.5 | mm | Effective load center |
|---|-----|----|-----------------------|

Abutment and Fillet Dimensions

| | | | |
|-----------|------|----|---|
| da (min.) | 24 | mm | Diameter of shaft abutment |
| Db (min.) | 38.5 | mm | Diameter of housing abutment |
| Da (min.) | 36 | mm | Diameter of housing abutment |
| Da (max.) | 36 | mm | Diameter of housing abutment |
| Sa | 2 | mm | Minimum width of space required in housing on large side face |
| Sb | 3 | mm | Minimum width of space required in housing on small side face |
| db (max.) | 22 | 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 | 0.29 | Constant |
| Y0 | 1.2 | Axial load Factors |



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Y1

2.1

Axial load Factors

Mass

| | | | |
|--------------|-------|----|--------------|
| Mass approx. | 0.098 | kg | Mass approx. |
|--------------|-------|----|--------------|