



PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 9:02 (UTC)

MOTION & CONTROL
NSK



HR33118J

Metric Series Tapered Roller Bearings

Dimension series

ISO	3DE	ISO355 dimension series approx.	
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Boundary Dimensions

d	90	mm	Bore diameter
D	150	mm	Outside diameter
T	45	mm	Total width
B	45	mm	Width of inner ring
C	35	mm	Width of outer ring
Cup r (min.)	2	mm	Chamfer dimension of outer ring (Cup)
Cone r (min.)	2.5	mm	Chamfer dimension of inner ring (Cone)

Basic Load Ratings

Cr	320000	N	Basic dynamic load rating
C0r	405000	N	Basic static load rating

Speeds

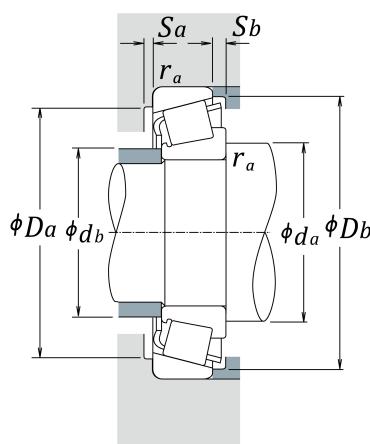
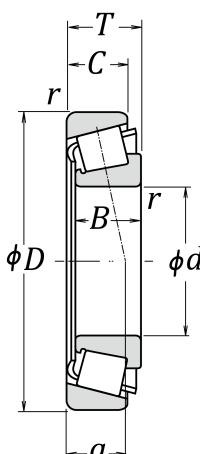
Grease	2400	min-1	Grease lubrication
Oil (Oil-bath)	3200	min-1	Oil-bath lubrication

Dimensions

a	35.2	mm	Effective load center
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Abutment and Fillet Dimensions

da (min.)	105	mm	Diameter of shaft abutment
Db (min.)	144	mm	Diameter of housing abutment
Da (min.)	132	mm	Diameter of housing abutment
Da (max.)	140	mm	Diameter of housing abutment
Sa	7	mm	Minimum width of space required in housing on large side face
Sb	10	mm	Minimum width of space required in housing on small side face
db (max.)	100	mm	Diameter of shaft abutment
ra (max.)	2	mm	Radius of shaft or housing fillet of inner ring
ra (max.)	2	mm	Radius of shaft or housing fillet of outer ring



Calculation factors

e	0.4	Constant
Y0	0.83	Axial load Factors



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Y1

1.5

Axial load Factors

Mass

Mass approx.

3.14

kg

Mass approx.