



PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 9:00 (UTC)

MOTION & CONTROL
NSK



HR32224J

Metric Series Tapered Roller Bearings

Dimension series

ISO	4FD	ISO355 dimension series approx.	
Boundary Dimensions			
d	120	mm	Bore diameter
D	215	mm	Outside diameter
T	61.5	mm	Total width
B	58	mm	Width of inner ring
C	50	mm	Width of outer ring
Cup r (min.)	2.5	mm	Chamfer dimension of outer ring (Cup)
Cone r (min.)	3	mm	Chamfer dimension of inner ring (Cone)

Basic Load Ratings

Cr	540000	N	Basic dynamic load rating
C0r	635000	N	Basic static load rating

Speeds

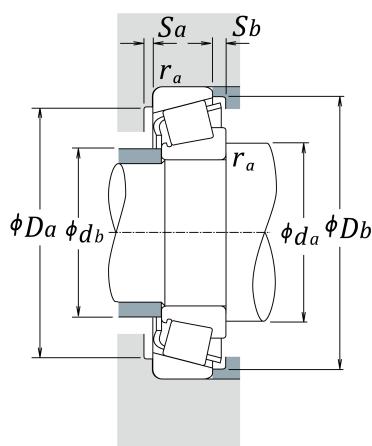
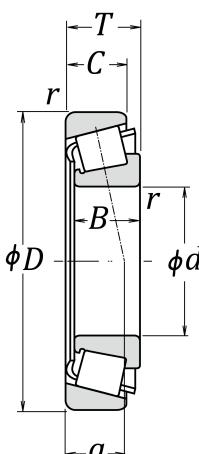
Grease	1600	min-1	Grease lubrication
Oil (Oil-bath)	2200	min-1	Oil-bath lubrication

Dimensions

a	52	mm	Effective load center
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Abutment and Fillet Dimensions

da (min.)	138	mm	Diameter of shaft abutment
Db (min.)	204	mm	Diameter of housing abutment
Da (min.)	181	mm	Diameter of housing abutment
Da (max.)	203	mm	Diameter of housing abutment
Sa	6	mm	Minimum width of space required in housing on large side face
Sb	11.5	mm	Minimum width of space required in housing on small side face
db (max.)	137	mm	Diameter of shaft abutment
ra (max.)	2.5	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	0.44	Constant
Y0	0.76	Axial load Factors



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Y1

1.4

Axial load Factors

Mass

Mass approx.

9

kg

Mass approx.