



PRODUCT DATASHEET

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



HR30309J

Metric Series Tapered Roller Bearings

Dimension series

ISO	2FB	ISO355 dimension series approx.	
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Boundary Dimensions

d	45	mm	Bore diameter
D	100	mm	Outside diameter
T	27.25	mm	Total width
B	25	mm	Width of inner ring
C	22	mm	Width of outer ring
Cup r (min.)	1.5	mm	Chamfer dimension of outer ring (Cup)
Cone r (min.)	2	mm	Chamfer dimension of inner ring (Cone)

Basic Load Ratings

Cr	138000	N	Basic dynamic load rating
C0r	127000	N	Basic static load rating

Speeds

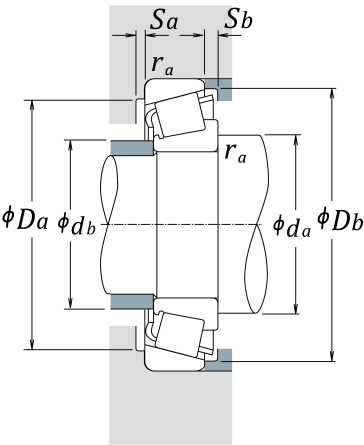
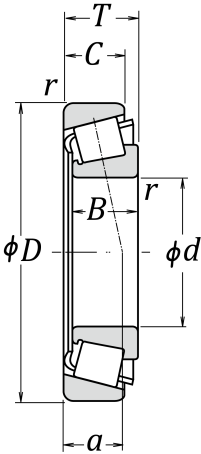
Grease	3800	min-1	Grease lubrication
Oil (Oil-bath)	5300	min-1	Oil-bath lubrication

Dimensions

a	21.1	mm	Effective load center
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Abutment and Fillet Dimensions

da (min.)	57	mm	Diameter of shaft abutment
Db (min.)	93	mm	Diameter of housing abutment
Da (min.)	86	mm	Diameter of housing abutment
Da (max.)	91	mm	Diameter of housing abutment
Sa	3	mm	Minimum width of space required in housing on large side face
Sb	5	mm	Minimum width of space required in housing on small side face
db (max.)	58	mm	Diameter of shaft abutment
ra (max.)	2	mm	Radius of shaft or housing fillet of inner ring
ra (max.)	1.5	mm	Radius of shaft or housing fillet of outer ring



Calculation factors

e	0.35	Constant
Y0	0.96	Axial load Factors



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Y1	1.7	Axial load Factors
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Mass

Mass approx.	1.01	kg	Mass approx.
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