



PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 8:57 (UTC)



HR32036XJ

Metric Series Tapered Roller Bearings

Dimension series

ISO	3FD	ISO355 dimension series approx.	
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Boundary Dimensions

d	180	mm	Bore diameter
D	280	mm	Outside diameter
T	64	mm	Total width
B	64	mm	Width of inner ring
C	48	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	785000	N	Basic dynamic load rating
C0r	1130000	N	Basic static load rating

Speeds

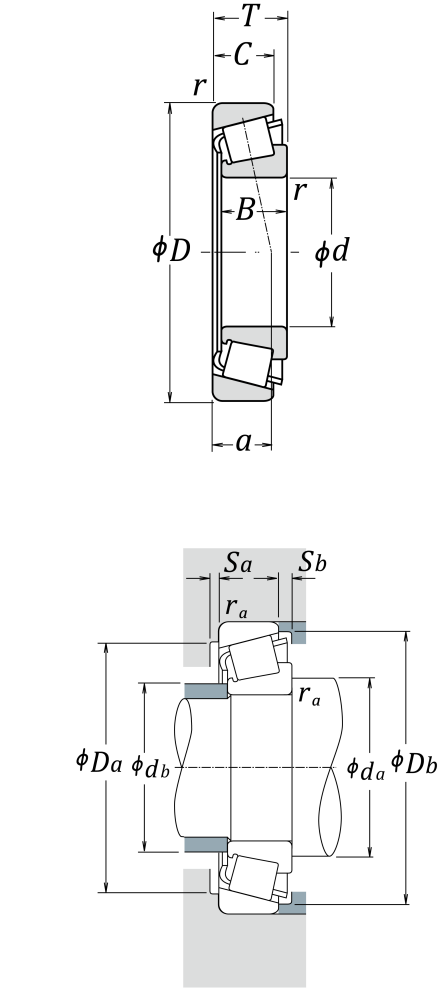
Grease	1200	min-1	Grease lubrication
Oil (Oil-bath)	1600	min-1	Oil-bath lubrication

Dimensions

a	60.4	mm	Effective load center
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Abutment and Fillet Dimensions

da (min.)	198	mm	Diameter of shaft abutment
Db (min.)	267	mm	Diameter of housing abutment
Da (min.)	248	mm	Diameter of housing abutment
Da (max.)	268	mm	Diameter of housing abutment
Sa	10	mm	Minimum width of space required in housing on large side face
Sb	16	mm	Minimum width of space required in housing on small side face
db (max.)	199	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	0.42	Constant
Y0	0.78	Axial load Factors



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Y1	1.4	Axial load Factors
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Mass

Mass approx.	14.3	kg	Mass approx.
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