



# PRODUCT DATASHEET

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

MOTION & CONTROL  
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## HR33122J

### Metric Series Tapered Roller Bearings

#### Dimension series

ISO	3EE	ISO355 dimension series approx.	
<b>Boundary Dimensions</b>			
d	110	mm	Bore diameter
D	180	mm	Outside diameter
T	56	mm	Total width
B	56	mm	Width of inner ring
C	43	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	450000	N	Basic dynamic load rating
C0r	610000	N	Basic static load rating

#### Speeds

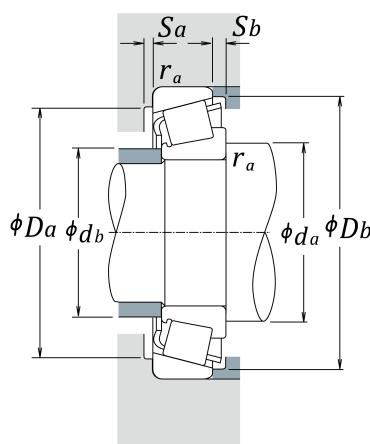
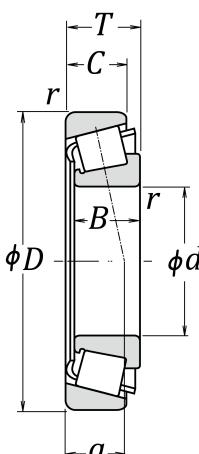
Grease	1900	min-1	Grease lubrication
Oil (Oil-bath)	2600	min-1	Oil-bath lubrication

#### Dimensions

a	44.1	mm	Effective load center
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#### Abutment and Fillet Dimensions

da (min.)	125	mm	Diameter of shaft abutment
Db (min.)	174	mm	Diameter of housing abutment
Da (min.)	156	mm	Diameter of housing abutment
Da (max.)	170	mm	Diameter of housing abutment
Sa	9	mm	Minimum width of space required in housing on large side face
Sb	13	mm	Minimum width of space required in housing on small side face
db (max.)	121	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	0.42	Constant
Y0	0.79	Axial load Factors



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Y1

1.4

Axial load Factors

## Mass

Mass approx.	5.54	kg	Mass approx.
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