

Tapered Roller Bearing

33000 Series-33021/Q



Designation	33021/Q
Principal dimensions [mm]	
d1	105
D	160
B	43
Basic load ratings [kN]	
dyc(Cr)	246
stc(Cor)	430
Pu	45.5
Speed ratings [rpm]	
Speed Ratings	2800
Limiting Speed	3800
Weight(Kg)	3.05
ISO335	
Dimensions (ABMA)	2DE
Dimensions [mm]	
d	105
d1	131
B	43
C	34
r1,2(min)	2.5
r3,4(min)	2
a	31
Abutment and fillet dimensions [mm]	
da(max)	117
db(min)	116
Da(min)	145
Da(max)	150
Db(min)	153
Ca(min)	7
Cb(min)	9
ra(max)	2
rb(max)	2
Value	
e	0.28
Y	2.1
Yo	1.1

Tapered roller bearings have tapered inner and outer raceways and rollers to handle simultaneous radial and thrust loads. Their axial load carrying capacity is directly related to the contact angle of the rollers and raceway shaft.

They are available in single-row, double-row, and four-row designs. The individual parts of tapered roller bearings are commonly sold separately as cups and cones. Cones contain the roller assembly

and inner ring while cups include the outer ring. Full assembly units contain both the cup and cone. As separable bearings, different designs and sizes are available to accommodate a variety of applications.

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