



HR 40 KBE 42+L

d:40mm D:80mm B:45mm

HR: Heavy-duty type

40: Nominal bore code, bore diameter: 40 mm

KBE: Double-row tapered roller bearing, TDO type

42: Size series code

+L: Inner ring with spacer

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Part Number: HR40KBE42+L	Additional Parameters
Brand: ITJ	• Constant (e): 0.37
Main Dimensions	• Axial Load Factor (Y2): 2.7
• Inner Diameter (d) [mm]: 40.00000	• Axial Load Factor (Y3): 1.8
• Outer Diameter (D) [mm]: 80.00000	• Axial Load Factor (Y0): 1.8
• Width (B) [mm]: 45.00000	
• Chamfer Dimension (rmin.) [mm]: 1.50000	
Basic Load Ratings	
• Dynamic Load Rating (Cr) [N]: 109000	
• Static Load Rating (C0r) [N]: 140000	
Coefficients	
• f0	
Other Dimensions and Chamfer Sizes (mm)	
• Outer Ring Width (C): 37.5	
• Outer Ring Chamfer (r1 min.): 0.6	
• Minimum Inner Diameter (da min.): 51	
• Minimum Outer Diameter (Db min.): 75	
• Maximum Inner Chamfer (ra max.): 1.5	
• Maximum Outer Chamfer (rb max.): 0.6	
Limiting Speed (min[sup]-1[^{sup}])	
• Grease Lubrication: 3700	
• Oil Lubrication: 5100	
Weight	
• Weight (kg): 0.97	

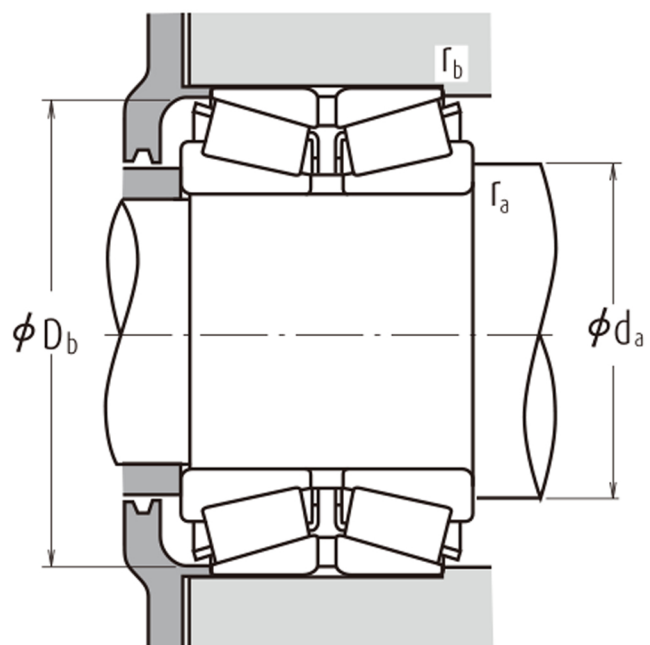
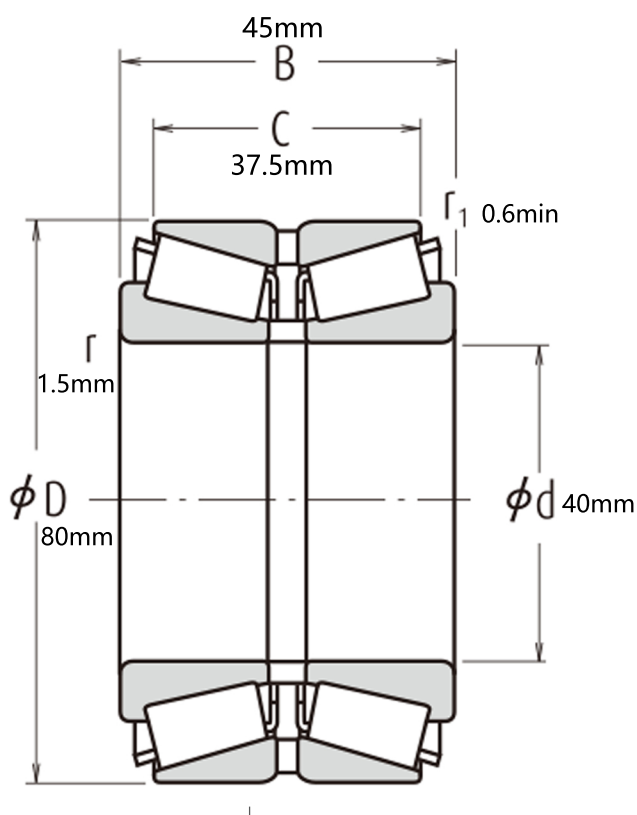
Dynamic Equivalent Load $P=XF_r+YF_a$

$F_a/F_r \leq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

$$P_0=F_r+Y_0F_a$$

The values of e , Y_2 , Y_3 and Y_0 are given in the table below.



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Part
Number

(Double-row tapered roller bearing)