

# ISB RE 10020 thrust roller bearings

Our highly-skilled and factory-trained service experts have the resources to help you with all your ISB RE 10020 thrust roller bearings needs – including 20x42x12 Size (mm) routine maintenance, major repairs, warranty service, and 42 Outer Diameter (mm) equipment inspections.

Size (mm)	20x42x12
Bore Diameter (mm)	20
Outer Diameter (mm)	42
Width (mm)	12
d	20 mm
D	42 mm
B	12 mm
C	12 mm
Angle ( $\alpha$ )	20 °
d1	26.6 mm
d2	24.65 mm
D1	37.05 mm
D2	38.65 mm
a	13 mm
Contact angle $\alpha$	25 °
rs min	0.6 mm
r1s min	0.3 mm
f0	7.52
Precision class	P4S
Mass	0.06 kg

Dynamic load, C	6.3 kN
Static load, C <sub>0</sub>	2.95 kN
Fatigue limit load, C <sub>u</sub>	0.19 kN
N <sub>lim</sub> (oil)	63,000 rpm
N <sub>lim</sub> (grease)	44,000 rpm
Axial displacement K Factor	0.96
Preload level	7
Preload value	0.05 kN
Axial rigidity	54 N/μm
Radial rigidity	119 N/μm
Min operating temperature, T <sub>min</sub>	-30 °C
Max operating temperature, T <sub>max</sub>	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.28 Hz
Characteristic outer ring frequency, BPF <sub>0</sub>	5.83 Hz
Characteristic inner ring frequency, BPF <sub>I</sub>	8.17 Hz
d <sub>a min</sub>	24.5 mm
d <sub>b min</sub>	24.5 mm
D <sub>a max</sub>	37.5 mm
D <sub>b max</sub>	37.5 mm
r <sub>1a max</sub>	0.3 mm
r <sub>a max</sub>	0.6 mm
D <sub>6</sub>	28.6 mm