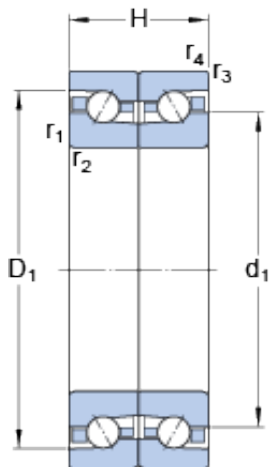




# SUPER PRECISION BEARINGS MANUFACTURER



## SKF BTM 85 BTN9/P4CDB Precision Tapered Roller Bearings

Bearing No. BTM 85 BTN9/P4CDB

Size	85x130x40.5 mm
Bore Diameter	85 mm
Outer Diameter	130 mm
Width	40,5 mm
d	85 mm
D	130 mm
H	40.5 mm
d <sub>1</sub>	105.8 mm
D <sub>1</sub>	118.7 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
d <sub>a</sub> - min.	91 mm
D <sub>a</sub> - max.	126 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	102.9 mm
Basic dynamic load rating - C	40 kN
Basic static load rating - C <sub>0</sub>	88 kN
Fatigue load limit - P <sub>u</sub>	3.6 kN
Limiting speed for grease lubrication	6400 r/min
Limiting speed for oil lubrication	8300 mm/min
Preload class A	400 N
Preload class B	1200 N

BTM 85 BTN9/P4CDB Bearing 2D drawings and 3D CAD models



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Static Axial rigidity, Preload class A	435 N/micron
Static Axial rigidity, Preload class B	656 N/micron
$G_{ref}$	16.8 cm
$d_1$	105.8 mm
$D_1$	118.7 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	91 mm
$D_a$ max.	126 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	102.9 mm
Basic dynamic load rating C	40 kN
Basic static load rating $C_0$	88 kN
Fatigue load limit $P_u$	3.6 kN
Attainable speed for grease lubrication	6400 r/min
Attainable speed for oil-air lubrication	8300 r/min
Static axial stiffness for preload A	435 N/ $\mu$ m
Static axial stiffness for preload B	656 N/ $\mu$ m
Reference grease quantity $G_{ref}$	16.8 cm <sup>3</sup>
Mass bearing	1.85 kg