



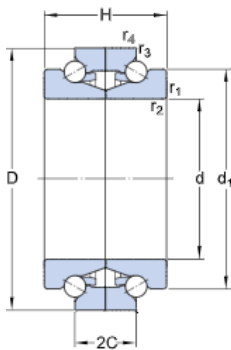
BTW 100 CTN9/SP

Angular contact thrust ball bearings,
double direction, super-precision

Bearing data
[Tolerances](#),
P4C, SP, UP

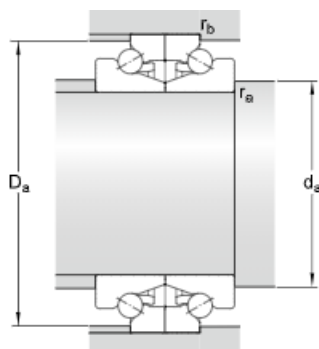
Principles of bearing
selection and application
[Chamfer dimensions](#),
[Seat tolerances for standard
conditions](#),
shafts, housings, shafts, housings,
[Initial grease fill](#)

Technical specification



DIMENSIONS

d	100 mm
D	150 mm
H	60 mm
d_1	128.9 mm
2C	30 mm
$r_{1,2}$	min. 1.5 mm
$r_{3,4}$	min. 0.6 mm



ABUTMENT DIMENSIONS

d_a	min. 119 mm
D_a	min. 140.9 mm
D_a	max. 142 mm
r_a	max. 1.5 mm
r_b	max. 0.6 mm

CALCULATION DATA

Basic dynamic load rating	C	59.2 kN
Basic static load rating	C ₀	193 kN
Fatigue load limit	P _u	8.15 kN
Attainable speed for grease lubrication		5 000 r/min
Attainable speed for oil-air lubrication		6 000 r/min
Contact angle	α	60 °
Preload		690 N
Static axial stiffness		880 N/μm
Reference grease quantity	G _{ref}	15.7 cm

MASS

Mass bearing	2.97 kg
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More information

Product details	Engineering information	Tools
Designs and variants	Principles of bearing selection and application	SimPro Quick
Markings on bearings	General bearing knowledge	SimPro Spindle
Bearing data	Bearing selection process	Engineering Calculator
Preload, clearance, and stiffness	Bearing failure and how to prevent it	LubeSelect for SKF greases
Loads		Heater selection tool
Attainable speeds		
Mounting		
Designation system		

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