



## BTW 200 CM/SP

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

Bearing data

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

Principles of bearing

selection and application

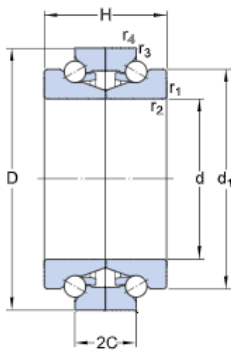
[Chamfer dimensions,](#)

[Seat tolerances for standard conditions,](#)

shafts, housings, shafts, housings,

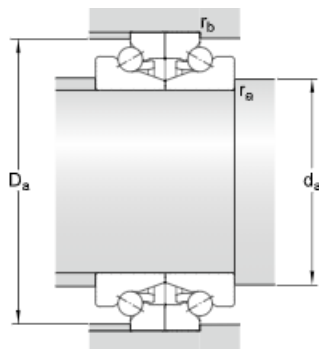
[Initial grease fill](#)

### Technical specification



#### DIMENSIONS

d	200 mm
D	310 mm
H	132 mm
d <sub>1</sub>	263.9 mm
2C	66 mm
r <sub>1,2</sub>	min. 2.1 mm
r <sub>3,4</sub>	min. 1 mm



#### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 236 mm
D <sub>a</sub>	min. 291 mm
D <sub>a</sub>	max. 292 mm
r <sub>a</sub>	max. 2 mm
r <sub>b</sub>	max. 1 mm

## CALCULATION DATA

Basic dynamic load rating	C	238 kN
Basic static load rating	C <sub>0</sub>	865 kN
Fatigue load limit	P <sub>u</sub>	25.5 kN
Attainable speed for grease lubrication		1 900 r/min
Attainable speed for oil-air lubrication		2 400 r/min
Contact angle	α	60 °
Preload		1 525 N
Static axial stiffness		1 395 N/μm
Reference grease quantity	G <sub>ref</sub>	157.1 cm

## MASS

Mass bearing	30.9 kg
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## More information

<p>Product details</p> <ul style="list-style-type: none"> <li><a href="#">Designs and variants</a></li> <li><a href="#">Markings on bearings</a></li> <li><a href="#">Bearing data</a></li> <li><a href="#">Preload, clearance, and stiffness</a></li> <li><a href="#">Loads</a></li> <li><a href="#">Attainable speeds</a></li> <li><a href="#">Mounting</a></li> <li><a href="#">Designation system</a></li> </ul>	<p>Engineering information</p> <ul style="list-style-type: none"> <li><a href="#">Principles of bearing selection and application</a></li> <li><a href="#">General bearing knowledge</a></li> <li><a href="#">Bearing selection process</a></li> <li><a href="#">Bearing failure and how to prevent it</a></li> </ul>	<p>Tools</p> <ul style="list-style-type: none"> <li><a href="#">SimPro Quick</a></li> <li><a href="#">SimPro Spindle</a></li> <li><a href="#">Engineering Calculator</a></li> <li><a href="#">LubeSelect for SKF greases</a></li> <li><a href="#">Heater selection tool</a></li> </ul>
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