



BTW 150 CM/SP

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

Bearing data

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

Principles of bearing
selection and application

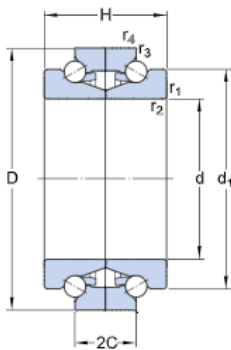
[Chamfer dimensions,](#)

[Seat tolerances for standard
conditions,](#)

shafts, housings, shafts, housings,

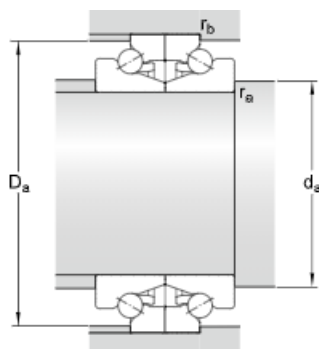
[Initial grease fill](#)

Technical specification



DIMENSIONS

d	150 mm
D	225 mm
H	90 mm
d_1	193.7 mm
2C	45 mm
$r_{1,2}$	min. 2.1 mm
$r_{3,4}$	min. 1 mm



ABUTMENT DIMENSIONS

d_a	min. 178 mm
D_a	min. 212.4 mm
D_a	max. 213 mm
r_a	max. 2 mm
r_b	max. 1 mm

CALCULATION DATA

Basic dynamic load rating	C	127 kN
Basic static load rating	C ₀	440 kN
Fatigue load limit	P _u	15.3 kN
Attainable speed for grease lubrication		3 000 r/min
Attainable speed for oil-air lubrication		3 600 r/min
Contact angle	α	60 °
Preload		1 015 N
Static axial stiffness		1 125 N/μm
Reference grease quantity	G _{ref}	55.8 cm

MASS

Mass bearing	10.6 kg
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More information

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