

# YAT 205-100

## Insert bearings

### Bearing data

[Tolerances,](#)

table 1, table 2,

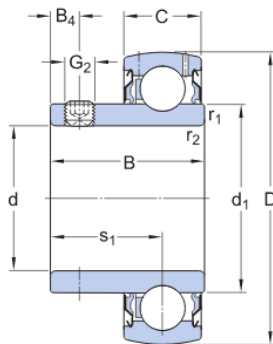
[Radial internal clearance,](#)

Standard inner ring, Other bearings

### Design considerations

[Shaft tolerances](#)

## Technical specification



### DIMENSIONS

d	25.4 mm	Bore diameter
D	52 mm	Outside diameter
B	27.2 mm	Width of inner ring
C	15 mm	Width of outer ring
$d_1$	$\approx 33.74$ mm	Outside diameter of inner ring
$B_4$	5 mm	Distance face to thread centre
$r_{1,}$	min. 0.6 mm	Chamfer dimension of inner ring
$s_1$	19.5 mm	Distance from locking device side face to bearing centre

### CALCULATION DATA

Basic dynamic load rating	C	14 kN
Basic static load rating	$C_0$	7.8 kN
Fatigue load limit	$P_u$	0.335 kN
Limiting speed <sup>1)</sup>		7 000 r/min
Calculation factor	$f_0$	14

### MASS

Mass	0.16 kg
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## MOUNTING INFORMATION

Set screw	G <sub>2</sub>	1/4-28 UNF
Hexagonal key size for set screw	N	3.175 mm
Recommended tightening torque for set screw		4 Nm

## ASSOCIATED PRODUCTS

Rubber seating ring	RIS 205
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## More information

Product details	Engineering information	Tools
<a href="#">Designs and variants</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">Bearing Select</a>
<a href="#">Lubrication</a>	<a href="#">General bearing knowledge</a>	<a href="#">Engineering Calculator</a>
<a href="#">Bearing data</a>	<a href="#">Bearing selection process</a>	<a href="#">SimPro Quick</a>
<a href="#">Loads</a>	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Heater selection tool</a>
<a href="#">Temperature limits</a>		
<a href="#">Permissible speed</a>		
<a href="#">Design considerations</a>		
<a href="#">Mounting and dismounting</a>		
<a href="#">Designation system</a>		

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