

# HM 88542/510

SKF Explorer

## Tapered roller bearings, single row

Bearing data

Tolerances,

Normal and CL7C, CLN, Normal and CL, deviating width

Bearing interfaces

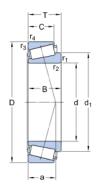
Seat tolerances for standard

conditions,

Tolerances and resultant fit

# Technical specification

Dimension series HM 88500



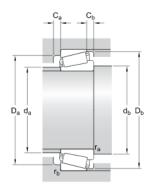
### **DIMENSIONS**

d	31.75 mm
D	73.025 mm
Т	29.37 mm
$d_1$	≈ 56.9 mm
В	27.783 mm
С	23.02 mm
r <sub>1,2</sub>	min. 1.2 mm
r <sub>3,4</sub>	min. 3.3 mm
a	23.276 mm

### ABUTMENT DIMENSIONS

$d_a$	max. 42 mm
$d_b$	min. 39.5 mm
D <sub>a</sub>	min. 55 mm
$D_a$	max. 62 mm





C <sub>a</sub> min. 3 mm C <sub>b</sub> min. 6 mm
C <sub>b</sub> min. 6 mm
r <sub>a</sub> max. 1.2 mm
r <sub>b</sub> max. 3.3 mm

## CALCULATION DATA

Basic dynamic load rating	С	86.5 kN
Basic static load rating	$C_0$	95 kN
Fatigue load limit	$P_{u}$	10.4 kN
Reference speed		7500 r/min
Limiting speed		9000 r/min
Calculation factor	е	0.54
Calculation factor	Υ	1.1
Calculation factor	$Y_{D}$	0.6

## MASS

Mass bearing	0.62 kg
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## More information

Designs	Designs			SimPro	SimPro
and variants	and variants	Principles of rolling	Principles of rolling	Quick ——— Bearing	Quick ——— Bearing
Bearing data	Bearing data	bearing -selection General bearing k nowledge	-selection -selection	Select	Select
Loads	Loads		bearing k nowledge	Engineer ing Calcul ator	Engineer ing Calcul ator
Tempera ture limits	Tempera ture limits	Bearing selection process	Bearing selection process	LubeSele ct for SKF greases	LubeSele ct for SKF greases
Permissi ble speed	Permissi ble speed	Bearing failure	Bearing failure	Heater Selection	Heater Selection
Design c onsiderati ons	Design c onsiderati ons	to prevent it		Tool Oil Injection Method	Tool Oil Injection Method
Bearing designati ons	Bearing designati ons			Program skf.com/ mount	Program skf.com/ mount
Designati on system	Designati on system				

5KF.



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