

ΕΔΡΑΝΑ ΚΥΛΙΣΕΩΣ

Βαρελωτό έδρανο 22205/20E

SKF

Metric

SKF Bearing Select Version: 1.2.87

HOME > 1 OR 2 > TYPE & ARRANGEMENT > SIZE & LUBRICATION > FITS & TOLERANCES > SUMMARY

Required input

Select calculation(s)

- Bearing rating life

Forces

Radial
kN

Axial

Speed
r/min

Temperature ⓘ
Inner ring
° C

Outer ring

1.6

0

16700

70

70

+ Add load case

Calculate

Operating conditions

Edit default settings >

Lubrication & contamination

Grease

LGMT2

Normal cleanliness

Calculation results

Unfold all

SKF Explorer Popular

BEARING PROPERTIES

22205/20 E

! Results are based on default operating conditions. Please, review and adjust operating conditions where needed

VISCOSITY

κ: 5.41

BEARING LOADS

C/P: 31.19

BEARING RATING LIFE

| Designation | Life model | | SKF life modification factor a_{skf} | Contamination factor η_c |
|-------------|------------------|---------------------|---|----------------------------------|
| | Basic | SKF | | |
| | L_{10h} h | L_{10mh} | | |
| 22205/20 E | 95200 | > 2x10 ⁵ | 50 | 0.56 |

Βαρελωτό έδρανο 21308 E

Required input

Select calculation(s)

- Bearing rating life




| Forces | | Speed | Temperature | |
|---------------|-------|-------|-------------|------------|
| Radial | Axial | r/min | Inner ring | Outer ring |
| kN | | | °C | |
| 3.95 | 0 | 5060 | 70 | 70 |
| Add load case | | | | |
| Calculate | | | | |

Edit default settings >

Operating conditions

- Lubrication & contamination
 - Grease
 - LGMT2
 - Normal cleanliness

Calculation results

Unfold all 

BEARING PROPERTIES 21308 E

Results are based on default operating conditions. Please, review and adjust operating conditions where needed

VISCOSITY κ : 4.28

BEARING LOADS C/P : 27.09

BEARING RATING LIFE

| Designation | Life model | | SKF life modification factor | Contamination factor |
|-------------|------------|---------------------|------------------------------|----------------------|
| | Basic | SKF | | |
| | L_{10h} | L_{10mh} | | |
| | h | | a_{skf} | η_c |
| ► 21308 E | 196000 | > 2x10 ⁵ | 50 | 0.72 |

Κωνικά λοξά έδρανα T4DB 170

Required input

Requirements system

The bearings are mounted

☒ back-to-back ☐ face-to-face

Shaft orientation

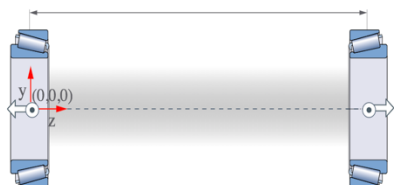
☒ Horizontal ☐ Vertical

Bearing distance

52

mm

Rotating ring



Load case

| Coordinates system Cart (x,y) Polar (r,θ) | Coordinates | | | Forces | | | Speed r/min | Temperature | |
|--|-------------|---------------|---------|-------------|-------|----|--------------------|--------------------------|-------|
| | x r mm | y θ mm/deg | z mm | Fx Fr kN | Fy Fθ | Fz | | Left °C | Right |
| <input checked="" type="radio"/> F1 <input checked="" type="radio"/> (x,y) <input type="radio"/> (r,θ) | 0 | 0 | 0 | 7.5 | 0 | 0 | 1345 | Inner ring Outer ring | 70 |



BEARING RATING LIFE

| Designation | Life model | | SKF life modification factor a_{skf} | Contamination factor η_c |
|-----------------------|----------------------------------|-------------------------------|---|--------------------------------------|
| | Basic $\frac{L_{10h}}{h}$ | SKF $L_{10mh/20GMh}^*$ | | |
| Left T4DB 170 | $> 2 \times 10^5$ | $> 2 \times 10^5$ | 50 | 0.8 |
| Right T4DB 170 | $> 2 \times 10^5$ | $> 2 \times 10^5$ | 50 | 0.8 |