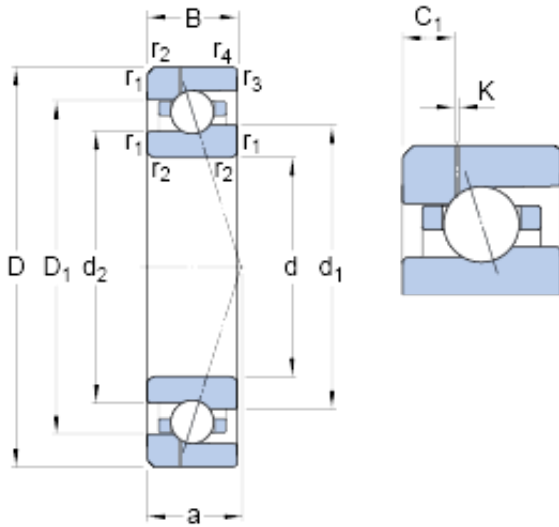




NTN Bearing Rolamentos do Brasil Ltda.



100 mm x 150 mm x 24 mm skf 7020
CE/P4AH1 Super-precision Angular contact ball bearings

Bearing No. 7020 CE/P4AH1

7020 CE/P4AH1 Bearing 2D drawings and 3D CAD models

| | |
|-------------------------------|---------------|
| Size | 150x100x24 mm |
| Bore Diameter | 150 mm |
| Outer Diameter | 100 mm |
| Width | 24 mm |
| d | 100 mm |
| D | 150 mm |
| B | 24 mm |
| d ₁ | 117.38 mm |
| d ₂ | 114.2 mm |
| D ₁ | 132.61 mm |
| K | 0.5 mm |
| C ₁ | 7.82 mm |
| r _{1,2} - min. | 1.5 mm |
| r _{3,4} - min. | 1 mm |
| a | 28.9 mm |
| d _a - min. | 107 mm |
| d _b - min. | 107 mm |
| D _a - max. | 143 mm |
| D _b - max. | 144.4 mm |
| r _a - max. | 1.5 mm |
| r _b - max. | 1 mm |
| d _n | 120.4 mm |
| Basic dynamic load rating - C | 44.9 kN |
| | |



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| | |
|---------------------------------------|--------------------|
| Basic static load rating - C_0 | 40 kN |
| Fatigue load limit - P_u | 1.5 kN |
| Limiting speed for grease lubrication | 12300 r/min |
| Limiting speed for oil lubrication | 19000 mm/min |
| Ball - D_w | 12.7 mm |
| Ball - z | 27 |
| G_{ref} | 17 cm ³ |
| Calculation factor - f_0 | 9.5 |
| Preload class A - G_A | 240 N |
| Preload class B - G_B | 720 N |
| Preload class C - G_C | 1440 N |
| Calculation factor - f | 1.12 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.03 |
| Calculation factor - f_{2C} | 1.05 |
| Calculation factor - f_{HC} | 1 |
| Preload class A | 88 N/micron |
| Preload class B | 138 N/micron |
| Preload class C | 191 N/micron |
| d_1 | 117.38 mm |
| d_2 | 114.2 mm |
| D_1 | 132.61 mm |
| C_1 | 7.82 mm |
| $r_{1,2}$ min. | 1.5 mm |
| $r_{3,4}$ min. | 1 mm |
| d_a min. | 107 mm |
| d_b min. | 107 mm |
| D_a max. | 143 mm |



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| | |
|--|--------------------|
| D_b max. | 144.4 mm |
| r_a max. | 1.5 mm |
| r_b max. | 1 mm |
| d_n | 120.4 mm |
| Basic dynamic load rating C | 44.9 kN |
| Basic static load rating C_0 | 40 kN |
| Fatigue load limit P_u | 1.5 kN |
| Attainable speed for grease lubrication | 12300 r/min |
| Attainable speed for oil-air lubrication | 19000 r/min |
| Ball diameter D_w | 12.7 mm |
| Number of balls z | 27 |
| Reference grease quantity G_{ref} | 17 cm ³ |
| Preload class A G_A | 240 N |
| Static axial stiffness, preload class A | 88 N/ μ m |
| Preload class B G_B | 720 N |
| Static axial stiffness, preload class B | 138 N/ μ m |
| Preload class C G_C | 1440 N |
| Static axial stiffness, preload class C | 191 N/ μ m |
| Calculation factor f | 1.12 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.03 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{HC} | 1 |
| Calculation factor f_0 | 9.5 |
| Mass bearing | 1.26 kg |