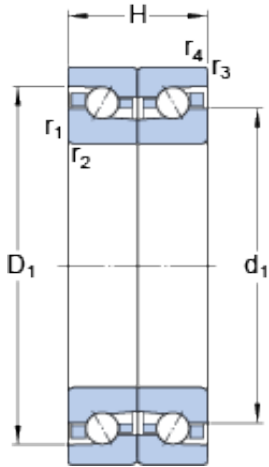




MSD MANUFACTURING CO.,LTD.



skf BTM 120 ATN9/HCP4CDB Angular contact thrust ball bearings, double direction, super-precision

Bearing No. BTM 120 ATN9/HCP4CDB

BTM 120 ATN9/HCP4CDB Bearing 2D drawings and 3D CAD models

Size	120x180x54 mm
Bore Diameter	120 mm
Outer Diameter	180 mm
Width	54 mm
d	120 mm
D	180 mm
H	54 mm
d ₁	147.7 mm
D ₁	165 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
d _a - min.	129 mm
D _a - max.	175 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	144.1 mm
Basic dynamic load rating - C	58.5 kN
Basic static load rating - C ₀	146 kN
Fatigue load limit - P _u	5 kN
Limiting speed for grease lubrication	6500 r/min
Limiting speed for oil lubrication	7700 mm/min
Preload class A	600 N



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Preload class B	1800 N
Static Axial rigidity, Preload class A	419 N/micron
Static Axial rigidity, Preload class B	634 N/micron
G_{ref}	40 cm
d_1	147.7 mm
D_1	165 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	129 mm
D_a max.	175 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	144.1 mm
Basic dynamic load rating C	58.5 kN
Basic static load rating C_0	146 kN
Fatigue load limit P_u	5 kN
Attainable speed for grease lubrication	6500 r/min
Attainable speed for oil-air lubrication	7700 r/min
Static axial stiffnes for preload A	419 N/ μ m
Static axial stiffnes for preload B	634 N/ μ m
Reference grease quantity G_{ref}	40 cm ³
Mass bearing	4.2 kg