



PRODUCT DATASHEET

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40TAC90C

NSKHPS™ Ball Screw Support Bearings NSKTAC C Series

Parts Number

40TAC90CSUHPN7C

Boundary Dimensions

d	40	mm	Bore diameter
D	90	mm	Outside diameter
B	20	mm	Width
r (min.)	1	mm	Chamfer dimension
r1 (min.)	0.6	mm	Chamfer dimension

Speeds

Grease	3500	min-1	Grease lubrication
Oil (Oil-bath)	4600	min-1	Oil-bath lubrication

Dimensions

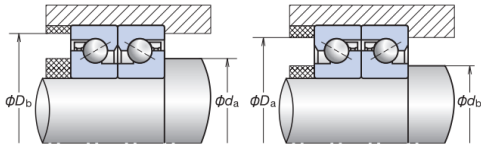
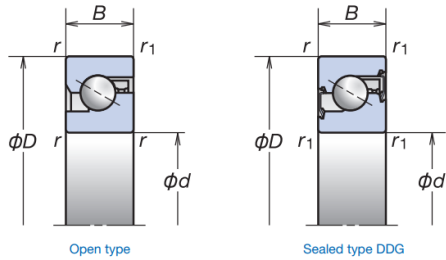
α	60	degree	α :Contact angle
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Performance

1 row	62	kN	Basic dynamic load rating Ca by number of rows sustaining Fa
2 rows	101	kN	Basic dynamic load rating Ca by number of rows sustaining Fa
3 rows	134	kN	Basic dynamic load rating Ca by number of rows sustaining Fa
1 row	89.5	kN	Limiting static axial load by number of rows sustaining Fa
2 rows	179	kN	Limiting static axial load by number of rows sustaining Fa
3 rows	269	kN	Limiting static axial load by number of rows sustaining Fa

Additional information

H	3450	N	Preload (DB and DF arrangement)
H	1150	N/μm	Axial Rigidity (DB and DF arrangement)
H	0.29	N · m	Starting Torque (DB and DF arrangement)
qty	8.8	cc/Bearing	Recommended grease quantities





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Mass

Mass approx.	0.674	kg	Mass approx.
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Calculation of preload, axial rigidity and starting torque for bearing arrangements
Multiply by factors in table B.

Table B	DFD ⌀⌀⌀	DFF ⌀⌀⌀⌀	DFT ⌀⌀⌀⌀
	DBD ⌀⌀⌀	DBB ⌀⌀⌀⌀	DBT ⌀⌀⌀⌀
Preload factor	1.36	2.00	1.57
Axial rigidity	1.49	2.00	1.89
Starting torque	1.35	2.00	1.55

An asterisk (*) indicates bearings that are also available as non-contact sealed bearings.
Limiting speeds are based on high preload (H). The values shown are valid for all types of bearing arrangement.
To calculate permissible axial load, multiply limiting axial load by 0.7.
The starting torque values in the table apply to grease lubricated bearings. Contact seal torque is not included. For oil lubricated bearings, multiply by 1.4.
Abutment and flange dimensions are recommended values for the use of standard Machine tool applications. For heavy load applications, please ask NSK.