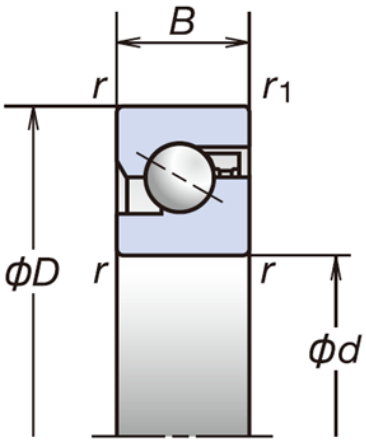
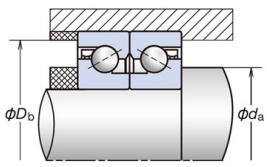
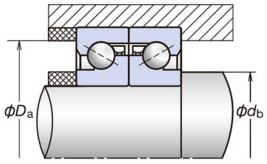
40TAC90C

For High-Rigidity Applications (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

Basic Load Ratings

Ca(1row)	74.5	kN	Basic Dynamic Load Rating Ca by Number of Rows Sustaining Fa
Ca(2row)	121	kN	Basic Dynamic Load Rating Ca by Number of Rows Sustaining Fa
Ca(3row)	160	kN	Basic Dynamic Load Rating Ca by Number of Rows Sustaining Fa

Speeds

Grease	3500	min-1	Limiting Speed (H-Preload)
Oil (Oil-air)	4600	min-1	Limiting Speed (H-Preload)

Dimensions

	60°		Contact Angle
db(min.)	48	mm	Diameter of Shaft Abutment

Abutment and Fillet Dimensions

da(min.)	48	mm	Diameter of Shaft Abutment
Da(max.)	84	mm	Diameter of Housing Abutment
Db(max.)	85	mm	Diameter of Housing Abutment

Performance

1row	89.5	kN	Limiting Static Axial Load by Number of Rows Sustaining Fa
2row	179	kN	Limiting Static Axial Load by Number of Rows Sustaining Fa
3row	269	kN	Limiting Static Axial Load by Number of Rows Sustaining Fa

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

Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity
H	3450N	1150N/μm

Additional information

H	-17	μm	Measured Axial Clearance(DB and DF arrangement)
H	0.29	N・m	Starting Torque(DB and DF arrangement)
	8.2	g/brg	Recommended Grease Quantities

Mass

	0.674	kg	Mass(approx.)