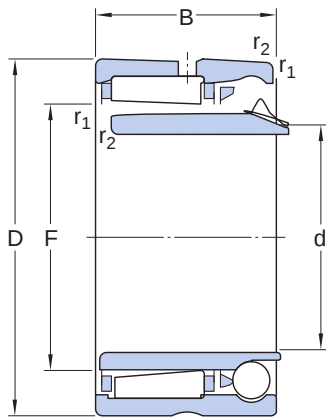


NKIA 5903

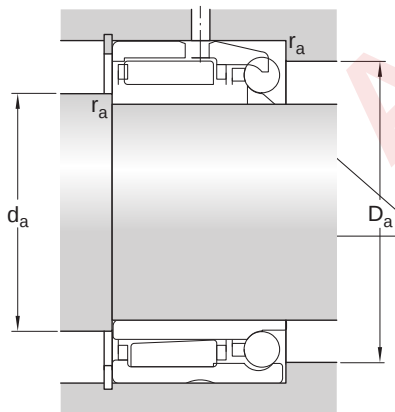
These bearings consist of a radial needle roller bearing combined with an angular contact ball bearing. Together they can accommodate both heavy radial loads and light axial loads in one direction. In addition, they can operate at high speeds. Their low cross-sectional height makes the bearings particularly suitable for applications where other types of locating bearing arrangements occupy too much space.



- Accommodate radial loads and axial loads in one direction
- High load carrying capacity
- High-speed capability
- Low cross section
- Separable design



Dimensions		
d	17 mm	Bore diameter
D	30 mm	Outside diameter
B	18 mm	Width
F	22 mm	Diameter of inner ring raceway
r _{1,2}	min. 0.3 mm	Chamfer dimension



Abutment dimensions		
da	min. 19 mm	Diameter of shaft abutment
Da	max. 28 mm	Diameter of housing abutment
ra	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating, radial	C	11.4 kN
Basic static load rating, radial	C ₀	16.3 kN
Basic dynamic load rating, axial	C	2.24 kN
Basic static load rating, axial	C ₀	2.74 kN
Fatigue load limit, radial	P _u	1.96 kN
Fatigue load limit, axial	P _u	0.116 kN
Reference speed		18 000 r/min
Limiting speed		20 000 r/min

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal
- Radial internal clearance: table

DESIGN CONSIDERATIONS

- Shaft and housing tolerances: table