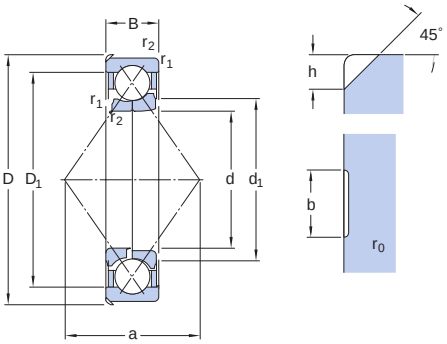
QJ 218 N2MA

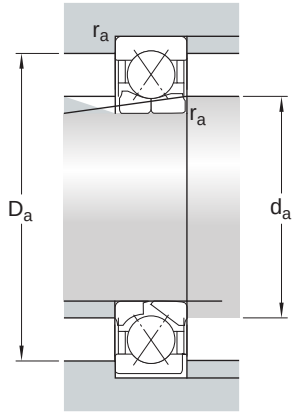
Four-point contact ball bearings with locating slots can accommodate high axial loads in both directions and small radial loads. They can operate at very high speeds and are more suitable than deep groove ball bearings for supporting large axial forces. The outer ring, with ball and cage assembly, can be mounted separately from the two inner ring halves. The locating slots can be used to prevent the outer ring from rotating.

- High-speed capability
- Accommodate high axial loads in both directions and small radial loads
- Require considerably less axial space than double row angular contact ball bearings
- The locating slots can be used to prevent the outer ring from rotating



Dimensions

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	30 mm	Width
d_1	≈ 114 mm	Shoulder diameter inner ring
D_1	≈ 136 mm	Shoulder diameter outer ring/ inner diameter housing washer
a	88 mm	Distance pressure point(s)
h	8.1 mm	Locating slot depth outer ring
b	6.5 mm	Locating slot width outer ring
r_0	1 mm	Corner radius locating slot
$r_{1,2}$	min. 2 mm	Chamfer dimension inner ring



Abutment dimensions

d_a	min. 101 mm	Abutment diameter shaft
D_a	max. 149 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

performance class		Explorer
Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	200 kN
Fatigue load limit	P_u	7.65 kN
Limiting speed		7 000 r/min
Calculation factor	A	0.106
Limiting value	e	0.95
Calculation factor	X	0.6
Calculation factor	Y_0	0.58
Calculation factor	Y_1	0.66
Calculation factor	Y_2	1.07

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6
- Internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions

- Tolerances and resultant fit