



Bearing No. NJ 2309 ECP

F	58.5 mm
s	3.2 mm
d	45 mm
D	100 mm
B	36 mm
Noun	Bearing
Bore	1.772 Inch 45 Millimeter
Width	1.417 Inch 36 Millimeter
s max.	3.2 mm
UNSPSC	31171547
Profile	Complete with Outer and Inner Ring
series:	NJ23
flanges:	(2) Outer Ring, (1) Inner Ring
Retainer	Yes
Category	Cylindrical Roller Bearing
Separable	Inner Ring - One Side
Size (mm)	100x45x36
Inventory	0.0
Snap Ring	No
Width (mm)	36
bore type:	Straight
Bore Profile	Straight
Mass bearing	1.33 kg
Weight / LBS	2.989
application:	Piston Type Machines, Rolling Mills, Spindles/Machine Tools

maximum rpm:	8500 RPM
closure type:	Open
Product Group	B04144
Cage Material	Polymer
Inch - Metric	Metric
D ₁	83.2 mm
d ₁	64.4 mm
bore diameter:	45 mm
overall width:	36 mm
cage material:	Polyamide
Other Features	High Capacity 1 Rib Inner Ring 2 Rib Outer Ring Cage on Outer Ring ID
fillet radius:	1.5 mm
Relubricatable	Yes
Bearing number	NJ 2309 ECP
Limiting speed	8500 r/min
Rolling Element	Cylindrical Roller Bearing
Precision Class	RBEC 1 ISO P0
number of rows:	1
finish/coating:	Uncoated
Reference speed	7500 r/min
Manufacturer URL	http://www.skf.com
Outside Diameter	3.937 Inch 100 Millimeter
Long Description	45MM Bore; Straight Bore Profile; 100MM Outside Diameter; 36MM Width; Polymer Cage Material; RBEC 1 ISO P0; Single Row; Inner Ring - One Side Separable; No Snap Ring; Relubricatable;

	C0-Medium Inte
Limiting value e	0.3
ring separation:	Separable Ring
precision rating:	RBEC 1 (ISO Class Normal)
bearing material:	Steel
outer ring width:	36 mm
Weight / Kilogram	1.357
Manufacturer Name	SKF
outside diameter:	100 mm
Bore Diameter (mm)	100
Internal Clearance	C0-Medium
d_a min.	54 mm
d_a max.	56 mm
D_a max.	91.4 mm
r_a max.	1.5 mm
d_b min.	67 mm
Outer Diameter (mm)	45
Axial load factor Y	0.4
internal clearance:	C0
$r_{3,4}$ min.	1.5 mm
$r_{1,2}$ min.	1.5 mm
d_a - min.	54 mm
D_a - max.	91.4 mm
Minimum Buy Quantity	N/A
r_a - max.	1.5 mm
d_a - max.	56 mm
d_b - min.	67 mm
static load capacity:	153 kN
d_1 ?	64.4 mm
D_1 ?	83.2 mm
$r_{3,4}$ - min.	1.5 mm
Harmonized Tariff Code	8482.50.00.00

r _{1,2} - min.	1.5 mm
dynamic load capacity:	160 kN
Manufacturer Item Number	NJ 2309 ECP
Number of Rows of Rollers	Single Row
Basic dynamic load rating C	160 kN
operating temperature range:	Maximum of +300 °F
Basic dynamic load rating - C	160 kN
Fatigue load limit P _u	20 kN
Calculation factor k _r	0.25
Fatigue load limit - P _u	20 kN
Calculation factor - k _r	0.25
Basic static load rating C ₀	153 kN
Basic static load rating - C ₀	153 kN