



Bearing No. 22309 EK

D	100 mm
d	45 mm
B	36 mm
b	6 mm
K	3 mm
Noun	Bearing
Bore	1.772 Inch 45 Millimeter
Width	1.417 Inch 36 Millimeter
UNSPSC	31171510
series:	223
Category	Spherical Roller Bearing
Size (mm)	100x45x36
Inventory	0.0
Enclosure	Open
cage type:	Inner Ring Guided
bore type:	Tapered 1:12
Width (mm)	36
Bore Profile	Tapered
maximum rpm:	7000 RPM
Weight / LBS	3.059
Mass bearing	1.35 kg
Product Group	B04311
Inch - Metric	Metric
closure type:	Open
D ₁	83.4 mm
d ₂	57.6 mm
Cage Material	Steel
Relubricatable	Yes

Withdrawal Nut	KM10
Bearing number	22309 EK
Keyword String	Spherical
bore diameter:	45 mm
cage material:	Steel
fillet radius:	1.5 mm
overall width:	36 mm
Other Features	Order adapter or withdrawal sleeve or nut separately. Others may be available
Limiting speed	7000 r/min
Rolling Element	Spherical Roller Bearing
finish/coating:	Uncoated
Mounting Method	Adapter Mount
Reference speed	5300 r/min
Manufacturer URL	http://www.skf.com
outer ring type:	Not Split
Long Description	45MM Tapered Bore; 100MM Outside Diameter; 36MM Width; C0-Medium Clearance; Adapter Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable; Adapter Part Nu
Outside Diameter	3.937 Inch 100 Millimeter
outer ring width:	36 mm
precision rating:	Not Rated
outside diameter:	100 mm
bearing material:	Steel
Manufacturer Name	SKF

Weight / Kilogram	1.388
Withdrawal Sleeve	AH2309 (Specify bore)
Bore Diameter (mm)	100
r_a max.	1.5 mm
D_a max.	91 mm
Internal Clearance	C0-Medium
internal clearance:	C0
Adapter Part Number	SNW109 H2309 HA2309 HE2309 (Specify bore) Inch H2309 (Specify bore) Millimeter
Outer Diameter (mm)	45
$r_{1,2}$ min.	1.5 mm
d_a - min.	52.2 mm
d_a - max.	57 mm
Calculation factor e	0.37
Minimum Buy Quantity	N/A
D_a - max.	91 mm
r_a - max.	1.5 mm
D_1 ?	83.4 mm
d_2 ?	57.6 mm
static load capacity:	183 kN
Harmonized Tariff Code	84823080
$r_{1,2}$ - min.	1.5 mm
dynamic load capacity:	183 kN
Calculation factor - e	0.37
lubrication hole type:	Lubrication Groove & Hole
Number of Rows of Rollers	Double Row
Basic dynamic load rating C	190 kN
operating temperature range:	Maximum of +390 °F

Basic dynamic load rating - C	190 kN
Calculation factor Y_1	1.8
Calculation factor Y_2	2.7
Calculation factor Y_0	1.8
Fatigue load limit P_u	19.6 kN
Calculation factor - Y_1	1.8
Fatigue load limit - P_u	19 kN
Calculation factor - Y_0	1.8
Calculation factor - Y_2	2.7
Basic static load rating C_0	183 kN
Basic static load rating - C_0	176 kN
Recommended lock nut tightening angle ?	130 °