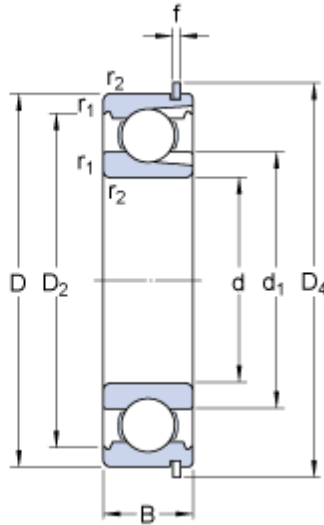
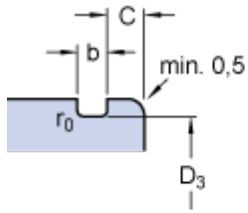




# BEARING ITALIA S.P.A



60 mm x 130 mm x 31 mm skf 312 NR Deep groove ball bearings

Bearing No. 312 NR

Size	130x60x31 mm
Bore Diameter	130 mm
Outer Diameter	60 mm
Width	31 mm
d	60 mm
D	130 mm
B	31 mm
d <sub>1</sub>	81.86 mm
D <sub>2</sub>	112.2 mm
D <sub>3</sub>	125.22 mm
D <sub>4</sub>	139.7 mm
b	3.1 mm
C	4.06 mm
f	2.82 mm
r <sub>0</sub>	0.6 mm
r <sub>1,2</sub> - min.	2.1 mm
d <sub>a</sub> - min.	72 mm
D <sub>a</sub> - max.	118 mm
D <sub>b</sub> - min.	141 mm
b <sub>a</sub> - min.	3.5 mm
C <sub>a</sub> - max.	6.88 mm
r <sub>a</sub> - max.	2 mm
Basic dynamic load rating - C	91.3 kN
Basic static load rating - C <sub>0</sub>	78 kN

312 NR Bearing 2D drawings and 3D CAD models



## BEARING ITALIA S.P.A

Fatigue load limit - P <sub>u</sub>	3.4 kN
Reference speed	9500 r/min
Limiting speed	6000 r/min
Calculation factor minimum radial load - k <sub>r</sub>	0.05
Mass bearing	1.85 kg
Category	Single Row Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	1.9
Product Group	B00308
Enclosure	Open
Precision Class	ABEC 1   ISO P0
Maximum Capacity / Filling Slot	Yes
Rolling Element	Ball Bearing
Snap Ring	Yes
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch - Metric	Metric
Long Description	60MM Bore; 130MM Outside Diameter; 31MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; Yes Filling Slot; Yes Snap Ring; No Internal Special Features
Category	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball



## BEARING ITALIA S.P.A

Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	312 NR
Weight / LBS	4.19
Outer Race Width	1.22 Inch   31 Millimeter
Outside Diameter	5.118 Inch   130 Millimeter
Bore	2.362 Inch   60 Millimeter
bore diameter:	60 mm
static load capacity:	78 kN
outside diameter:	130 mm
precision rating:	ABEC 1 (ISO Class Normal)
overall width:	31 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	31 mm
row type & fill slot:	Single Row Filling Slot
fillet radius:	2 mm
snap ring included:	With Snap Ring
maximum rpm:	6000 RPM
internal clearance:	C0
series:	31
dynamic load capacity:	91.3 kN
thrust application warning:	This product can not be used in Thrust Applications
$d_1$	81.86 mm
$D_2$	112.2 mm
$D_3$	125.22 mm
$D_4$	139.7 mm
$r_0$ max.	0.6 mm
$r_{1,2}$ min.	2.1 mm
$d_a$ min.	72 mm



## BEARING ITALIA S.P.A

$D_a$ max.	118 mm
$D_b$ min.	141 mm
$b_a$ min.	3.5 mm
$C_a$ max.	6.88 mm
$r_a$ max.	2 mm
Basic dynamic load rating C	91.3 kN
Basic static load rating $C_0$	78 kN
Fatigue load limit $P_u$	3.35 kN
Calculation factor $k_r$	0.05
Snap ring	SP 130