



SKF NKI 80/35

Single row needle roller bearing with machined rings, with flanges

Single row needle roller bearings incorporate cylindrical rollers that are small in diameter relative to their length. Owing to their large number of rollers, the bearings have a high load carrying capacity. The outer ring includes two integral flanges to guide the bearing axially and an annular groove with one or more lubrication holes to facilitate relubrication.

Technical specifications

Dimensions	
Bore diameter	80 mm
Outside diameter	110 mm
Width	35 mm
Raceway diameter inner ring	90 mm
Chamfer dimension outer ring	1 mm
Permissible axial displacement from the normal position of one bearing ring relative to the other	1 mm

Abutment dimensions	
Smallest permissible abutment diameter shaft, bearings with flanges	85 mm
Diameter of housing abutment	105 mm
Fillet radius	1 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	116 kN
Basic static load rating	216 kN
Fatigue load limit	28 kN
Reference speed	4500 r/min
Limiting speed	5000 r/min

Performance	
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Properties	
Bearing part	Complete bearing
Number of rows	1
Outer ring type	Machined (solid)
Aligning feature	Without
Cage	Sheet metal
Number of flanges, outer ring	2
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	With
Indicative carbon footprint for new product	3.5 kg CO ₂

Logistics	
Product net weight	0.959 kg

eClass code	23-05-09-03
UNSPSC code	31171512

SKF drawings

