



SKF NKIS 50

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	50 mm
Outside diameter	80 mm
Width	28 mm
Raceway diameter inner ring	60 mm
Chamfer dimension outer ring	1.1 mm
Permissible axial displacement from the normal position of one bearing ring relative to the other	2 mm

Abutment dimensions	
Smallest permissible abutment diameter shaft, bearings with flanges	56.5 mm
Diameter of housing abutment	73.5 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	62.7 kN
Basic static load rating	104 kN
Fatigue load limit	13.2 kN
Reference speed	6300 r/min
Limiting speed	7500 r/min

Performance	
Basic dynamic load rating	62.7 kN
Basic static load rating	104 kN
Reference speed	6300 r/min
Limiting speed	7500 r/min

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	1.9 kg CO ₂

Logistics	
Product net weight	0.518 kg
eClass code	23-05-09-03
UNSPSC code	31171512

SKF drawings

