



SKF NKS 50

Single row needle roller bearing with machined rings, with flanges, without inner

Single row needle roller bearings without an inner ring consist of an outer ring with a needle roller and cage assembly. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. 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	
Diameter under rollers	50 mm
Outside diameter	65 mm
Width	22 mm
Chamfer dimension outer ring	1 mm
Bore diameter of needle roller complement	50 mm

Abutment dimensions	
Diameter of housing abutment	60 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	42.9 kN
Basic static load rating	72 kN
Fatigue load limit	8.8 kN
Reference speed	8000 r/min
Limiting speed	9000 r/min

Associated seals	
Radial shaft seal	50x65x8 HMS5 RG

Performance	
Basic dynamic load rating	42.9 kN
Basic static load rating	72 kN
Reference speed	8000 r/min
Limiting speed	9000 r/min

Properties	
Bearing part	Bearing without inner ring
Number of rows	1
Outer ring type	Machined (solid)
Aligning feature	Without
Cage	Sheet steel
Number of flanges, outer ring	2
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	With
Indicative carbon footprint for new product	0.58 kg CO ₂

Logistics	
Product net weight	0.162 kg
eClass code	23-05-09-03
UNSPSC code	31171512

SKF drawings

