



SKF NK 47/20

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

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	47 mm
Outside diameter	57 mm
Width	20 mm
Chamfer dimension outer ring	0.3 mm
Bore diameter of needle roller complement	47 mm

Abutment dimensions	
Diameter of housing abutment	55 mm
Fillet radius	0.3 mm

Calculation data	
Basic dynamic load rating	29.2 kN
Basic static load rating	61 kN
Fatigue load limit	7.65 kN
Reference speed	8500 r/min
Limiting speed	10000 r/min

Performance	
Basic dynamic load rating	29.2 kN
Basic static load rating	61 kN
Reference speed	8500 r/min
Limiting speed	10000 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	0.34 kg CO ₂

Logistics	
Product net weight	0.095 kg
eClass code	23-05-09-03
UNSPSC code	31171512

SKF drawings