



SKF HK 4516

Drawn cup needle roller bearing with open ends

Drawn cup needle roller bearings are typically used in applications where the housing bore cannot be used as a raceway for a needle roller and cage assembly, but where a very compact and economical bearing arrangement is required. Owing to their large number of rollers, the bearings have a high load carrying capacity and stiffness.

Technical specifications

Dimensions	
Diameter under rollers	45 mm
Outside diameter	52 mm
Width	16 mm
Chamfer dimension drawn cup (outer ring)	0.8 mm
Bore diameter of needle roller complement	45 mm

Calculation data	
Basic dynamic load rating	20.5 kN
Basic static load rating	43 kN
Fatigue load limit	5.1 kN
Reference speed	5600 r/min
Limiting speed	6300 r/min

Associated products	
Inner ring IR series	IR 40x45x17
Inner ring LR series	LR 40x45x16.5
Radial shaft seal with a low cross-sectional height, single lip	G 45x52x4
Radial shaft seal with a low cross-sectional height, double lip	SD 45x52x4

Performance	
Basic dynamic load rating	20.5 kN
Basic static load rating	43 kN
Reference speed	5600 r/min
Limiting speed	6300 r/min

Properties	
Bearing part	Bearing without inner ring
Number of rows	1
Outer ring type	Drawn cup with open ends
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	Without
Indicative carbon footprint for new product	0.15 kg CO ₂

Logistics	
Product net weight	0.0422 kg
eClass code	23-05-09-03
UNSPSC code	31171512

SKF drawings

