



SKF UC 318

Insert bearing with set screw locking and extended inner ring

Insert bearings are based on sealed deep groove ball bearings. This variant is suitable for applications with both constant and alternating directions of rotation. It has an inner ring extended on both sides and is locked onto the shaft by tightening two (set) screws on the inner ring, making it easy to mount.

Technical specifications

Dimensions	
Bore diameter	90 mm
Outside diameter	190 mm
Width of inner ring	96 mm
Width of outer ring	48 mm
Outside diameter of inner ring	121 mm
Distance face to thread centre	16 mm
Chamfer dimension of inner ring	4 mm
Distance from locking device side face to raceway centre	56 mm
Shaft diameter	90 mm
Width, total	96 mm
Width, inner ring	96 mm
Width, outer ring	48 mm

Calculation data	
Basic dynamic load rating	143 kN
Basic static load rating	108 kN
Fatigue load limit	3.8 kN
Limiting speed	1950 r/min
	Limiting speed with shaft tolerance h6
Calculation factor	13

Mounting information	
Set screw	M16x1.5
Hexagonal key size for set screw	8 mm
Recommended tightening torque for set screw	50 N·m

Performance	
Basic dynamic load rating	143 kN
Basic static load rating	108 kN
Limiting speed	1950 r/min
Note	Limiting speed with shaft tolerance h6

Properties	
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rolling elements	Balls
Outer ring type	Spherical
Inner ring extension	On both sides
Cage	Sheet metal
Rubber seating ring	Without
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal and flinger on both sides
Sealing type	Contact, standard
Lubricant	Grease
Relubrication feature	With

Logistics	
Product net weight	7.5 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings

