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625-2RZTN9/HC5C3WTF1

Hybrid deep groove ball bearing with seals on both sides

Hybrid single row deep groove ball bearings with seals on both sides have rings made of bearing steel and rolling elements made of bearing grade silicon nitride (Si3N4), which make the bearings electrically insulating. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. The silicon nitride elements not only provide protection from electric current damage but also, when compared to same-sized bearings with steel rolling elements, provide enhanced bearing performance, extended bearing service life, higher speed capability, high wear-resistance, high bearing stiffness, reduced risk of smearing and false brinelling, and less sensitivity to temperature gradients, making them suitable for use in dificult conditions and contaminated environments.

- Protected against electric current damage
- Integral sealing prolongs bearing service life
- Especially suited for use in difficult conditions and contaminated environments
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	5 mm
Outside diameter	16 mm
Width	5 mm

Performance

Basic dynamic load rating	1.11 kN
Basic static load rating	0.38 kN
Limiting speed	67 000 r/min
Reference speed	125 000 r/min

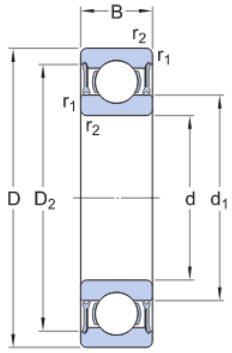
Properties

Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Hybrid
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Sealing	Seal on both sides
Sealing type	Non-contact

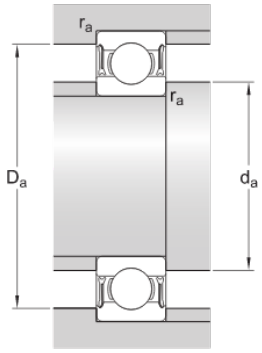
Technical Specification

Dimensions



d	5 mm	Bore diameter
D	16 mm	Outside diameter
B	5 mm	Width
d_1	≈ 8.4 mm	Shoulder diameter inner ring
D_2	≈ 13.3 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 0.3 mm	Chamfer dimension

Abutment dimensions



d_a	min. 7.4 mm	Abutment diameter shaft
d_a	max. 8.3 mm	Abutment diameter shaft
D_a	max. 13.6 mm	Abutment diameter housing
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1.11 kN
Basic static load rating	C_0	0.38 kN
Fatigue load limit	P_u	0.012 kN
Reference speed		125 000 r/min
Limiting speed		67 000 r/min
Calculation factor	k_r	0.025
Calculation factor	f_0	8.4

Mass

Mass bearing	0.005 kg

6201-2Z/VA201

Deep groove ball bearing for high temperature applications with shields on both sides

Single row deep groove ball bearings for high temperature applications, with shields on both sides, are designed for challenging operating conditions, with certain variants being capable of performing at temperatures as high as 350 °C (660 °F). They have larger radial internal clearances and use graphite-based lubricants that enable operation at high temperatures. They are lubricated for the life of the bearing and the entire surface of the bearings and shields are manganese phosphate treated, which enhances adhesion of the lubricant to the metal and improves their running-in properties. As with deep groove ball bearings generally, they are particularly versatile, accommodate radial and axial loads in both directions, and are easy to mount.

- Optimized for operation at high temperatures – up to 350 °C (660 °F)
- Easily swapped with grease-lubricated bearings of corresponding ISO dimensions
- Increased reliability, reduced complexity and decreased environmental impact
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	12 mm
Outside diameter	32 mm
Width	10 mm

Performance

Basic dynamic load rating	7.28 kN
Basic static load rating	3.1 kN
Limiting speed	200 r/min
Maximum operating temperature	250 °C

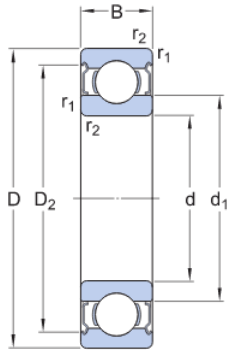
Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Coated
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Solid lubricant
Matched arrangement	No
Material, bearing	High temperature steel
Number of rows	1
Radial internal clearance	Multiples of C5

Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact

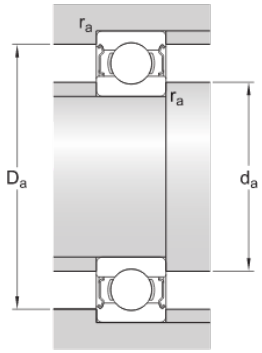
Technical Specification

Running in required	Yes



Dimensions

d	12 mm	Bore diameter
D	32 mm	Outside diameter
B	10 mm	Width
d_1	≈ 18.45 mm	Shoulder diameter inner ring
D_2	≈ 27.34 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 16.2 mm	Abutment diameter shaft
d_a	max. 18.4 mm	Abutment diameter shaft
D_a	max. 27.8 mm	Abutment diameter housing
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	7.28 kN
Basic static load rating	C_0	3.1 kN
Limiting speed		200 r/min
Operating temperature	T	max. 250 °C

Mass

Mass bearing	0.04 kg

6314 M/C3VL0241

INSOCOAT® deep groove ball bearing

INSOCOAT single row deep groove ball bearings feature an electrically insulating coating on the outside surfaces of either the inner or outer bearing ring. This keeps stray electric currents from passing through the bearings, protecting them against electrical erosion damage and helping prevent lubricant degradation resulting from electric current discharge. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Coating protects against electrical erosion damage
- Reduced lubricant degradation resulting from electric current discharge
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	150 mm
Width	35 mm

Performance

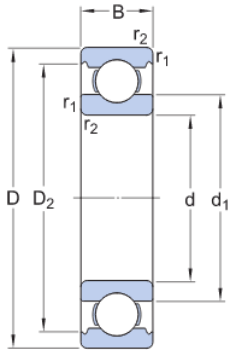
Basic dynamic load rating	104 kN
Basic static load rating	68 kN
Limiting speed	9 000 r/min
Reference speed	9 500 r/min

Properties

Bore type	Cylindrical
Cage	Machined metal
Coating	Insulation coating on outer ring
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	C3
Relubrication feature	Without
Sealing	Without

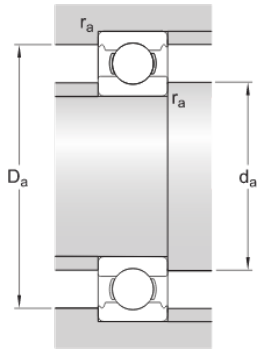
Technical Specification

Dimensions



d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
d_1	≈ 94.95 mm	Shoulder diameter inner ring
D_2	≈ 132 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 2.1 mm	Chamfer dimension

Abutment dimensions



d_a	min. 82 mm	Abutment diameter shaft
D_a	min. 136 mm	Abutment diameter shaft
D_a	max. 138 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	104 kN
Basic static load rating	C_0	68 kN
Fatigue load limit	P_u	2.75 kN
Reference speed		9 500 r/min
Limiting speed		9 000 r/min
Calculation factor	k_r	0.03
Calculation factor	f_0	13.2

Mass

Mass bearing	2.94 kg

305800 C-2Z

Cam roller (yoke-type track roller) with crowned outside surface, integral sealing and relubrication feature

These cam rollers (yoke-type track rollers) are designed to run on all types of tracks and to be used in cam drives, conveyor systems, etc. They are based on double row angular contact ball bearings. They have a thick-walled outer ring with a crowned running surface prevents edge stresses under skewing. They are supplied greased, sealed and ready-to-mount. A lubrication hole in the inner ring facilitates relubrication.

- High radial load carrying capacity and relatively high speed capability
- Accommodate tilting moments
- Long service life
- Ready to mount
- Integral sealing, for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	10 mm
Functional outside diameter	32 mm
Width	14 mm

Performance

Basic dynamic load rating	6.76 kN
Basic static load rating	3.6 kN
Limiting speed	11 000 r/min

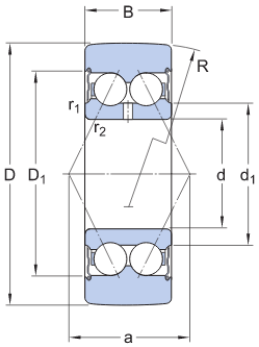
Properties

Axial guidance of outer ring	Yes
Axial internal clearance	Normal
Bearing part	Complete track roller
Cage	With
Coating	Without
Lubricant	Grease
Material, bearing	Bearing steel
Number of flanges, outer ring	0
Number of rows	2
Outer ring profile	Crowned
Radial internal clearance	Not applicable
Relubrication feature	With

Rolling elements	Balls
Sealing	Shield on both sides
Sealing type	Non-contact
Tolerance class	Normal (except crowned running surface)

Technical Specification

SKF performance class	SKF Explorer



Dimensions

D	32 mm	Outside diameter
d	10 mm	Bore diameter
B	14 mm	Width
d_1	≈ 15.8 mm	Shoulder/recess diameter inner ring
D_1	≈ 25 mm	Recess diameter outer ring
R	400 mm	Profile running surface (crown) outer ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
a	16 mm	Distance pressure points

Calculation data

Basic dynamic load rating	C	6.76 kN
Basic static load rating	C_0	3.6 kN
Fatigue load limit	P_u	0.153 kN
Maximum dynamic radial load	F_r	max. 4.4 kN
Maximum static radial load	F_{0r}	max. 6.3 kN
Limiting speed		11 000 r/min

Mass

Mass cam roller	0.062 kg

396040

Backing bearing

Backing bearings have been specially developed for cold rolling mills of the cluster type, but can also be used for other applications, such as straightening or bending machines. These bearings have a particularly thick-walled outer ring and can be mounted on stationary support shafts to form backup or straightening rolls.

- Super-precision quality for tolerances of run-out
- Very tight tolerances for the cross-sectional height
- Designed for high loads

Overview

Dimensions

Bore diameter	55 mm
Functional outside diameter	120 mm
Width, inner ring	52.2 mm
Width, outer ring	52 mm

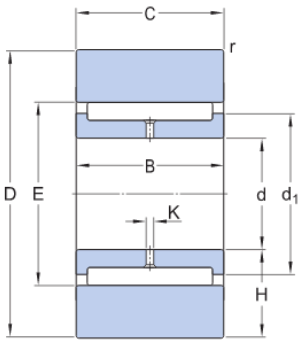
Performance

Basic dynamic load rating	123 kN
Basic static load rating	275 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Without axial guidance
Number of rows	1
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

D	120 mm	Outside diameter
d	55 mm	Bore diameter
H	max. 32.493 mm	Section height
B	52.2 mm	Total bearing width over inner ring(s)
C	52 mm	Total bearing width over outer ring(s)
d_1	≈ 70.24 mm	Shoulder diameter inner ring
E	77 mm	Raceway diameter outer ring
r	min. 0.3 mm	Chamfer dimension outer ring

Lubrication hole(s)

K	1.6 mm	Diameter lubrication hole
	2	Number of holes

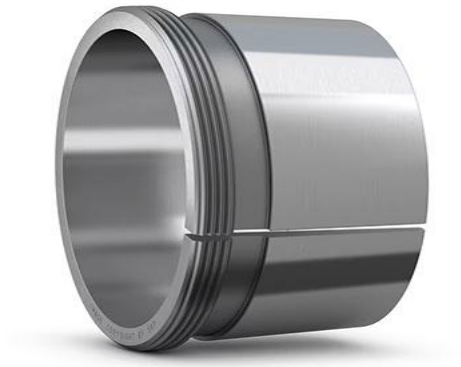
Calculation data

Basic dynamic load rating	C	123 kN
Basic static load rating	C_0	275 kN
Fatigue load limit	P_u	36 kN
Maximum dynamic radial loads	F_r	max. 224 kN
Maximum static radial loads	F_{0r}	max. 315 kN

Mass

Mass bearing	3.51 kg

AH 2308



Withdrawal sleeve, basic design, ISO standards

Withdrawal sleeves are slit tapered sleeves that are used to mount bearings with a tapered bore onto the cylindrical seat of stepped shafts. This AH(X) sleeve has dimensions in accordance with ISO standards and is a basic design for mounting and dismounting. The sleeve is located on the shaft by a lock nut or an end plate. The lock nuts and appropriate locking device can be ordered separately. End plates are not manufactured by SKF.

- Cost effective
- Quick and easy mounting

Overview

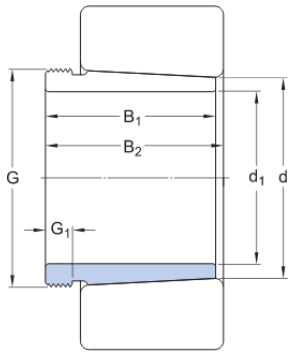
Dimensions

Bore diameter	35 mm
Thread designation	M 45x1.5
Width	40 mm

Properties

Holes for oil injection	Without
Taper	1:12

Technical Specification



Dimensions

d_1	35 mm	Bore diameter
d	40 mm	Outside diameter small taper
B_1	40 mm	Width
B_2	43 mm	Width sleeve and bearing before sleeve is driven into bore
G	M 45x1.5	Thread
G_1	7 mm	Length thread
	1:12	External taper

Mass

Mass withdrawal sleeve	0.13 kg

Associated products

Nut for removal	KM 9

BMO-6204/048S2/UA008A

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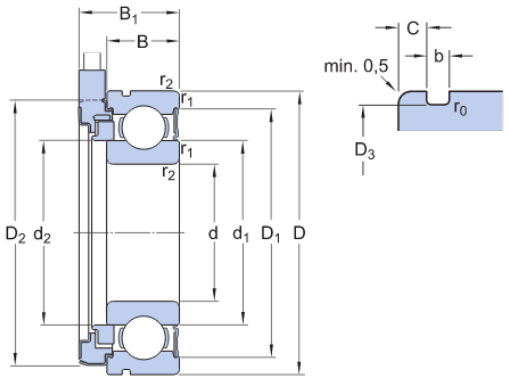
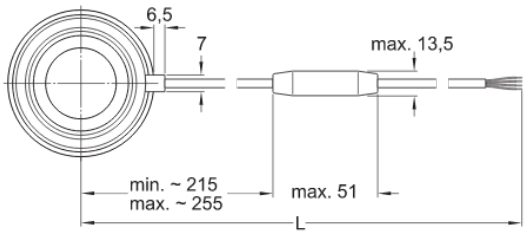
Technical Specification

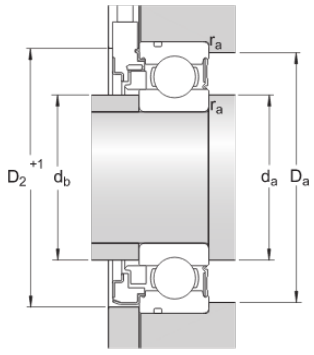




Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter bearing
B_1	20.2 mm	Width sensor unit
B	14 mm	Width bearing part
d_1	≈ 28.8 mm	Shoulder diameter inner ring
d_2	28.69 mm	Inner diameter sensor
D_1	≈ 40.6 mm	Recess diameter outer ring
D_2	46.56 mm	Outside diameter sensor
D_3	44.6 mm	Diameter snap ring groove outer ring
C	2.46 mm	Distance outer ring side face - snap ring groove
b	1.35 mm	Width groove outer ring
r_0	0.4 mm	Snap ring groove bottom radius
$r_{1,2}$	min. 1 mm	Chamfer dimension
L	534 mm	Cable length
	± 10 mm	Tolerance for cable length L

Abutment dimensions



d_a	min. 25 mm	Abutment diameter shaft
d_b	min. 25 mm	Abutment diameter shaft/sleeve
d_b	max. 28.6 mm	Abutment diameter shaft/sleeve
D_a	max. 42 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Sensor technology

Cable connector type		Free cable end
Number of pulses per revolution	N	48
Period accuracy		± 3 %
Phase shift output signal		90 °
Phase shift output signal tolerance		± 30 °

Calculation data

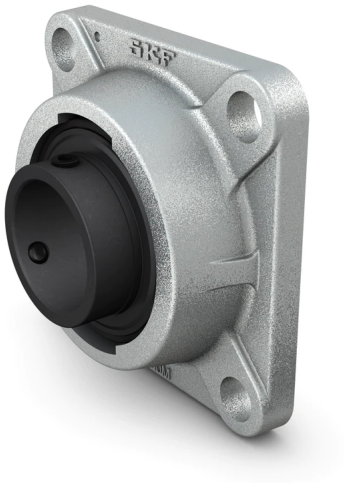
Basic dynamic load rating	C	12.7 kN
Basic static load rating	C_0	6.55 kN
Fatigue load limit	P_u	0.28 kN
Limiting speed		10 000 r/min
Calculation factor	k_r	0.025
Calculation factor	f_0	13

Mass

Mass sensor unit	0.13 kg

Associated products

Snap ring SP 47



FY 3/4 TF/VA201

Square flanged ball bearing unit with set screw locking, high temperature, cast iron housing, ISO

These square flanged ball bearing units are designed for high temperature applications and are compliant with ISO standards. They consist of a high temperature insert bearing, with an extended inner ring and set screw locking, and are suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a cast iron housing, which can be bolted to a machine wall or frame. Ball bearing units can accommodate moderate initial misalignment, but normally do not permit axial displacement.

- Resist high levels of contamination
- Designed for high temperatures and speeds
- Accommodate relatively heavy loads
- Cost-effective

Overview

Dimensions

Bearing width, total	31 mm
Centre distance between bolt holes	63.5 mm
Housing overall width	29.5 mm
Shaft diameter	19.05 mm

Performance

Basic dynamic load rating	12 700 kN
Basic static load rating	6.55 kN
Limiting speed	130 r/min
Maximum operating temperature	250 °C

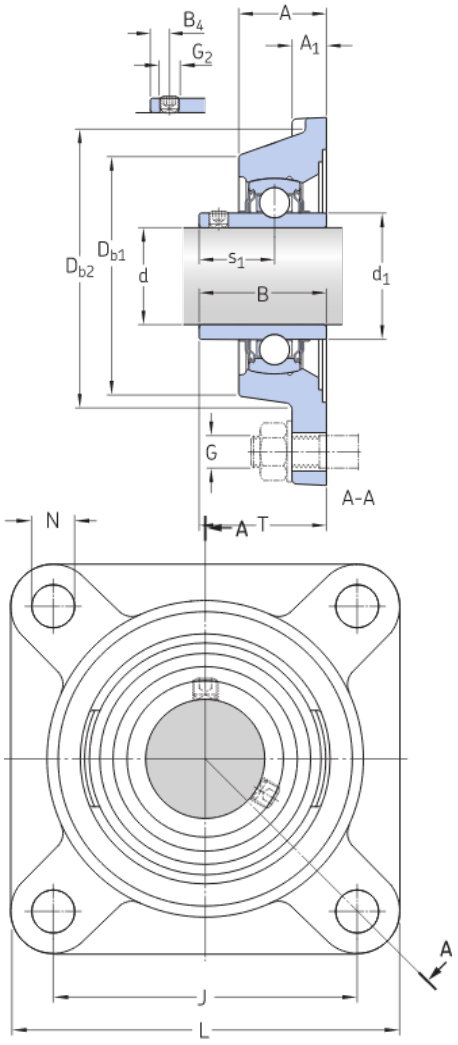
Properties

Bore type	Cylindrical
Coating	Zinc-coated housing and manganese phosphate coated bearing
Fastening bolt hole type	Plain
Flanged housing type	Square
Grease fitting	Without
Housing type	Flanged
Lubricant	Solid lubricant
Material, bearing	High temperature steel
Material, housing	Cast iron
Number of bolt holes for fasteners	4

Relubrication hole	Without
Retaining feature, inner ring	Set screws
Rubber seating ring	Without
Sealing type	Non-contact
Sealing, bearing	Shield and flinger on both sides
Sealing, unit	Without

Technical Specification

Running in required	Yes



Dimensions

d	19.05 mm	Shaft diameter
d_1	≈ 28.2 mm	Shoulder diameter inner ring
A	29.5 mm	Height housing
A_1	11 mm	Step height
B	31 mm	Width inner ring
B_4	4.5 mm	Distance from locking device side face to thread centre
D_{b1}	57 mm	Top external diameter
D_{b2}	63 mm	Base external diameter
J	63.5 mm	Distance between attachment bolts
L	86 mm	Overall width
N	11.5 mm	Hole diameter
s_1	18.3 mm	Distance from locking device side face to raceway centre
T	37.3 mm	Overall height

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C_0	6.55 kN
Limiting speed		130 r/min
Operating temperature	T	max. 250 °C

Mass

Mass bearing unit		0.55 kg

Mounting information

Set screw	G_2	1/4-28 UNF
Hexagonal key size for set screw		3.175 mm
Recommended tightening torque for set screw		4 N·m
Attachment bolts, recommended metric size	G	10 mm
Attachment bolts, recommended inch size	G	0.375 in

Included products

Bearing	YAR 204-012-2F/VA201

FYTB 3/4 TF/VA201

Oval flanged ball bearing unit with set screw locking, high temperature, cast iron housing, ISO

These oval flanged ball bearing units are designed for high temperature applications and are compliant with ISO standards. They consist of a high temperature insert bearing, with an extended inner ring and set screw locking, and are suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a cast iron housing, which can be bolted to a machine wall or frame. Ball bearing units can accommodate moderate initial misalignment, but normally do not permit axial displacement.

- Resist high levels of contamination
- Designed for high temperatures applications
- Accommodate relatively heavy loads
- Cost-effective

Overview

Dimensions

Bearing width, total	31 mm
Centre distance between bolt holes	90 mm
Housing overall width	29.5 mm
Shaft diameter	19.05 mm

Performance

Basic dynamic load rating	12 700 kN
Basic static load rating	6.55 kN
Limiting speed	130 r/min
Maximum operating temperature	250 °C

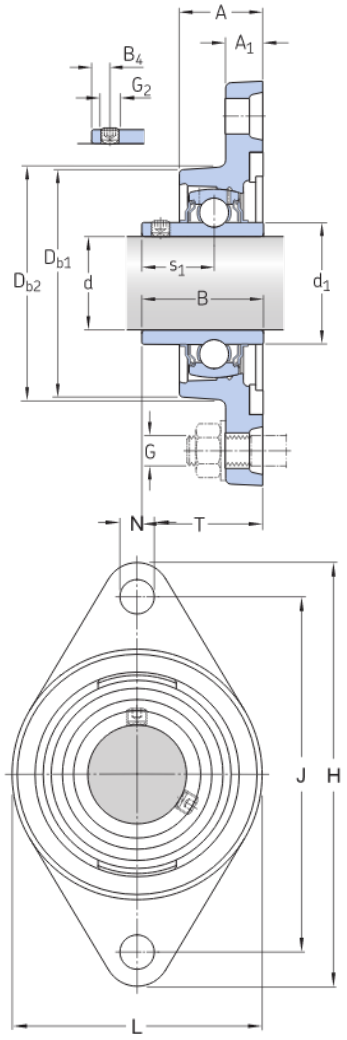
Properties

Bore type	Cylindrical
Coating	Zinc-coated housing and manganese phosphate coated bearing
Fastening bolt hole type	Plain
Flanged housing type	Oval
Grease fitting	Without
Housing type	Flanged
Lubricant	Solid lubricant
Material, bearing	High temperature steel
Material, housing	Cast iron
Number of bolt holes for fasteners	2

Relubrication hole	Without
Retaining feature, inner ring	Set screws
Rubber seating ring	Without
Sealing type	Non-contact
Sealing, bearing	Shield and flinger on both sides
Sealing, unit	Without

Technical Specification

Running in required	Yes



Dimensions

d	19.05 mm	Shaft diameter
d_1	≈ 28.2 mm	Shoulder diameter inner ring
A	29.5 mm	Height housing
A_1	11 mm	Step height
B	31 mm	Width inner ring
B_4	4.5 mm	Distance from locking device side face to thread centre
D_{b1}	58 mm	Top external diameter
D_{b2}	60.5 mm	Base external diameter
H	112 mm	Overall width
J	90 mm	Distance between attachment bolts
L	60.5 mm	Overall length
N	11.5 mm	Hole diameter
s_1	18.3 mm	Distance from locking device side face to raceway centre
T	37.3 mm	Overall width

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C_0	6.55 kN

Limiting speed		130 r/min
Operating temperature	T	max. 250 °C

Mass

Mass bearing unit	0.46 kg

Mounting information

Set screw	G_2	1/4-28 UNF
Hexagonal key size for set screw		3.175 mm
Recommended tightening torque for set screw		4 N·m
Attachment bolts, recommended metric size	G	10 mm
Attachment bolts, recommended inch size	G	0.375 in

Included products

Bearing	YAR 204-012-2F/VA201

H 204

Adapter sleeve with KM lock nut and MB lock washer, metric dimensions

Adapter sleeves are the most commonly used components for locating bearings with a tapered bore onto a cylindrical seat as they can be used on plain shafts or stepped shafts. They are slit and are supplied complete with a KM lock nut and a MB lock washer.

- Easy to install
- Complete with lock nut
- Complete with locking device

Overview

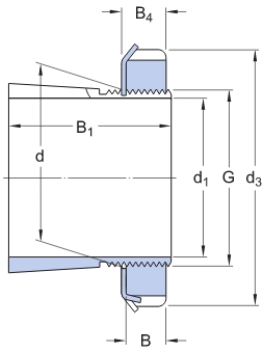
Dimensions

Bore diameter	17 mm
Thread designation	M20x1
Width	24 mm

Properties

Holes for oil injection	Without
Taper	1:12

Technical Specification



Dimensions

d_1	17 mm	Bore diameter
d	20 mm	Outside diameter small taper
d_3	32 mm	Outside diameter lock nut
B_1	24 mm	Width
B	6 mm	Width lock nut
B_4	7 mm	Width lock nut including lock washer
G	M20x1	Thread
	1:12	External taper

Mass

Mass adapter sleeve assembly	0.04 kg

Included products

Lock nut	KM 4
Locking device	MB 4

KM 0

Lock nut with metric thread, for locking by lock washer

KM and KML lock nuts are used to locate bearings onto a shaft. They have metric threads and four equally spaced slots located around their circumference to accommodate a spanner. They should be locked by a lock washer to prevent unintentional loosening. KM and KML lock nuts can be reused, provided they are not damaged.

- Simple, stable and reliable fastening element
- Easy to install and remove
- Reusable with a new lock washer
- Available for thread M 10x0.75 to M 200x3 (sizes 0 to 40)

Overview

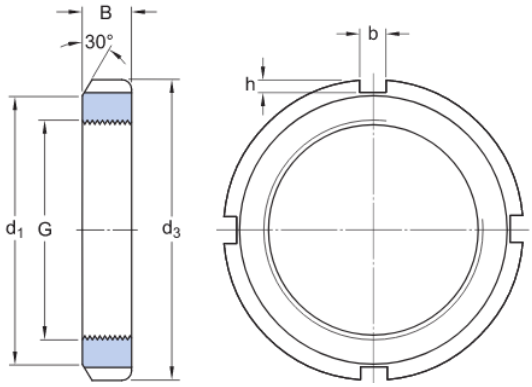
Dimensions

Bore diameter	10 mm
Outside diameter	18 mm
Thread designation	M10x0.75
Width	4 mm

Properties

Associated mounting tool	HN 0
Locking device	Lock washer
Nut for hydraulic mounting	No

Technical Specification



Dimensions

G	M10x0.75	Thread
d_3	18 mm	Outside diameter
B	4 mm	Width
d_1	13.5 mm	Diameter locating side face
b	3 mm	Width locating slot
h	2 mm	Depth locating slot

Calculation data

Axial static load carrying capacity	9.8 kN

Mass

Mass lock nut	0.005 kg

Mounting information

Associated spanner	HN 0

Associated products

Locking device	MB 0

KMK 0

Lock nut with metric thread, with integral locking device

KMK lock nuts with integral locking are designed to locate radial bearings in less demanding applications. They reduce the cost of the shaft as no keyway is required. Installation with an integral set screw is quick and easy and no separate locking device is necessary. KMK lock nuts have a threaded steel insert in their bore that acts as a pressure plate when a set screw, which runs through the body of the lock nut, is tightened.

- No keyway required
- Simple and robust locking for intended applications
- Reusable
- Cost-effective
- Available for thread M 10x0.75 to M 100x2 (sizes 0 to 20)

Overview

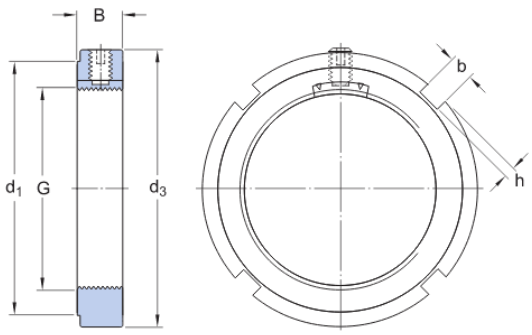
Dimensions

Bore diameter	10 mm
Outside diameter	20 mm
Thread designation	M 10x0.75
Width	9 mm

Properties

Associated mounting tool	HN 0
Locking device	Incorporated in the lock nut
Nut for hydraulic mounting	No

Technical Specification



Dimensions

G	M 10x0.75	Thread
d_3	20 mm	Outside diameter
B	9 mm	Width
d_1	16 mm	Diameter locating side face
b	3 mm	Width locating slot
h	2 mm	Depth locating slot

Calculation data

Axial static load carrying capacity	9.8 kN

Mass

Mass lock nut	0.016 kg

Mounting information

Associated spanner	HN 0
Set screw size	M5
Recommended grub screw tightening torque	4 N·m

KMT 0

Precision lock nut with locking pins

KMT precision lock nuts are intended for applications where high precision, simple assembly and reliable locking are required. The three equally-spaced locking pins enable these lock nuts to be accurately positioned at right angles to the shaft. However, they can also be adjusted to compensate for slight angular deviations of adjacent components. Maximum axial run-out between the locating face and thread (up to size 40): 0.005 mm

- No keyway required
- Withstands high axial loads
- Reliable, effective locking mechanism
- Designed for frequent and simple installation and removal
- Available for thread M 10x0.75 to M 200x3 (sizes 0 to 40) and Tr 220x4 to Tr 420x5 (sizes 44 to 84)

Overview

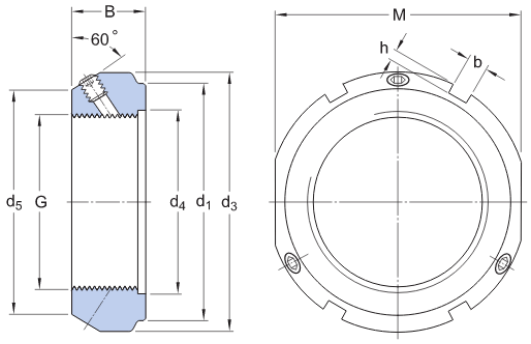
Dimensions

Bore diameter	10 mm
Outside diameter	28 mm
Thread designation	M 10x0.75
Width	14 mm

Properties

Associated mounting tool	HN 2-3
Locking device	Incorporated in the lock nut
Nut for hydraulic mounting	No

Technical Specification



Dimensions

G	M 10x0.75	Thread
d_1	23 mm	Outside diameter locating side face
B	14 mm	Width
d_3	28 mm	Outside diameter
d_4	11 mm	Inner diameter locating side face
d_5	21 mm	Diameter side face opposite to bearing
M	24 mm	Width flat spanner
b	4 mm	Width locating slot
h	2 mm	Depth locating slot

Calculation data

Axial static load carrying capacity	35 kN

Mass

Mass	0.046 kg

Mounting information

Associated spanner (Hook spanner in accordance with DIN 1810)	HN 2-3
Set / Locking screw size	M5
Recommended tightening torque	4.5 N·m

KR 16

Cam follower (stud-type track roller) with relubrication feature

Cam followers (stud-type track rollers) are designed to run on all types of tracks and to be used in cam drives, conveyor systems, etc. They are based on a needle roller bearing with a threaded solid stud instead of an inner ring. They have a thick-walled outer ring with a crowned running surface and are supplied ready-to-mount. A narrow gap between the outer ring and the adjacent components forms a gap-type seal. The bearings can be relubricated via the stud.

- High radial load carrying capacity
- Accommodate axial loads due to skew or tilting
- Long service life
- Easy to mount
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Functional outside diameter	16 mm
Length	28.2 mm
Stud diameter	6 mm
Width, outer ring	11 mm

Performance

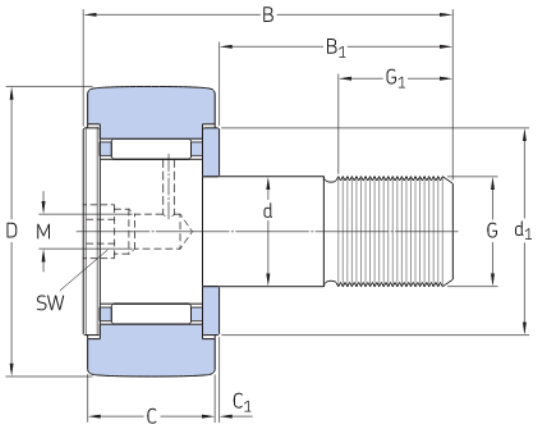
Basic dynamic load rating	2.92 kN
Basic static load rating	3.1 kN
Limiting speed	6 000 r/min

Properties

Cage	With
Coating	Without
Feature for tightening	Hexagonal recess
Lubricant	Grease
Material, bearing	Bearing steel
Number of flanges, outer ring	2
Number of rows	1
Outer ring profile	Crowned
Radial internal clearance	Between C2 and CN
Relubrication feature	Centre of stud head
Rolling elements	Needle rollers
Sealing	Seal on both sides

Sealing type	Gap-type
Stud alignment	Centric
Tolerance class	Other

Technical Specification



Dimensions

D	16 mm	Outside diameter
d	6 mm	Attachment diameter
B	28.2 mm	Total length
C	11 mm	Width outer ring
B_1	16 mm	Length shank on stud
C_1	0.6 mm	Distance face outer ring to face side washer
d_1	11.8 mm	Outside diameter flange ring
G	M6x1	Thread stud
G_1	8 mm	Length thread
M	2 mm	Seat diameter for lubrication accessories
SW	3 mm	Width across flats

Calculation data

Basic dynamic load rating	C	2.92 kN
Basic static load rating	C_0	3.1 kN
Fatigue load limit	P_u	0.325 kN
Maximum dynamic radial loads	F_r	max. 3.05 kN
Maximum static radial loads	F_{0r}	max. 4.3 kN
Limiting speed		6 000 r/min

Mass

Mass cam follower	0.019 kg

Mounting information

Recommended tightening torque	3 N·m

Included products

Grease fitting	NIP C2.6x4.5
Hexagonal nut	M 6x1

RSTO 5 TN

Support roller (yoke-type track roller), without flange rings and inner ring

Support rollers (yoke-type track rollers) are designed to run on all types of tracks and to be used in cam drives, conveyor systems, etc. They are based on a single row needle roller bearing without an inner ring, intended for applications where hardened and ground raceways can be provided on the pin or shaft. They have a thick-walled outer ring with a crowned running surface and are supplied ready-to-mount. The outer ring and the needle roller and cage assembly can be mounted separately.

- High radial load carrying capacity
- Able to withstand shock loads
- Long service life
- Ready to mount
- Separable design

Overview

Dimensions

Bore diameter	7 mm
Functional outside diameter	16 mm
Width, outer ring	7.8 mm
Width, total	7.8 mm

Performance

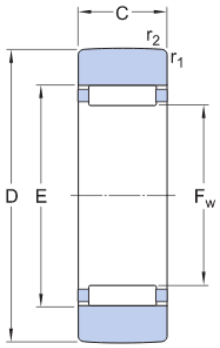
Basic dynamic load rating	2.51 kN
Basic static load rating	2.5 kN
Limiting speed	8 000 r/min

Properties

Axial guidance of outer ring	No
Bearing part	Track roller without inner ring
Cage	With
Coating	Without
Lubricant	Grease
Material, bearing	Bearing steel
Number of flanges, outer ring	0
Number of rows	1
Outer ring profile	Crowned
Radial internal clearance	Not applicable
Relubrication feature	Without

Rolling elements	Needle rollers
Sealing	Without
Tolerance class	Other

Technical Specification



Dimensions

D	16 mm	Outside diameter
F_w	7 mm	Diameter under rollers
C	7.8 mm	Width
E	10 mm	Raceway diameter outer ring
$r_{1,2}$	min. 0.3 mm	Chamfer dimension outer ring

Calculation data

Basic dynamic load rating	C	2.51 kN
Basic static load rating	C_0	2.5 kN
Fatigue load limit	P_u	0.27 kN
Maximum dynamic radial load	F_r	max. 3.55 kN
Maximum static radial load	F_{0r}	max. 5 kN
Limiting speed		8 000 r/min

Mass

Mass support roller	0.008 kg

SY 3/4 TF/VA201

Pillow block ball bearing unit with extended inner ring and set screw locking, high temperature, cast iron, ISO standards

Pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing that can be bolted to a support surface. This variant is suitable for high temperature applications, and for both constant and alternating directions of rotation. It has an inner ring extended on both sides and is locked onto the shaft by tightening a set screw on the inner ring, making it easy to mount.

- Strong
- For high temperature applications
- Designed for a constant and alternating rotation
- Ready to mount
- Lubricated and sealed bearing
- Quick locking onto the shaft

Overview

Dimensions

Bearing width, total	31 mm
Centre distance between bolt holes	97 mm
Centre height (pillow block)	33.3 mm
Housing overall width	32 mm
Shaft diameter	19.05 mm

Performance

Basic dynamic load rating	12 700 kN
Basic static load rating	6.55 kN
Limiting speed	130 r/min
Maximum operating temperature	250 °C

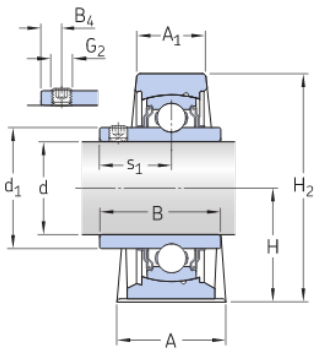
Properties

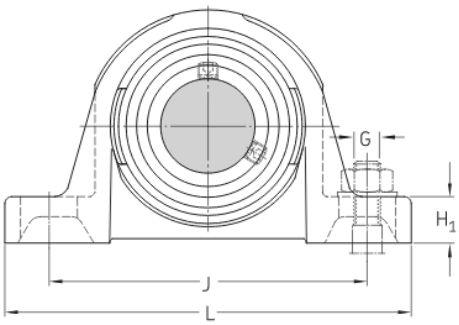
Bore type	Cylindrical
Coating	Zinc-coated housing and manganese phosphate coated bearing
Fastening bolt hole type	Plain
Grease fitting	Without
Housing type	Pillow block
Lubricant	Solid lubricant
Material, bearing	High temperature steel
Material, housing	Cast iron

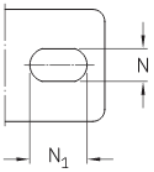
Number of bolt holes for fasteners	2
Relubrication hole	Without
Retaining feature, inner ring	Set screws
Rubber seating ring	Without
Sealing type	Non-contact
Sealing, bearing	Shield and flinger on both sides
Sealing, unit	Without

Technical Specification

Running in required	Yes







Dimensions

d	19.05 mm	Shaft diameter
d_1	≈ 28.2 mm	Shoulder diameter inner ring
A	32 mm	Base width
A_1	21 mm	Top width
B	31 mm	Width inner ring
B_4	4.5 mm	Distance from locking device side face to thread centre
H	33.3 mm	Spherical seat centre height
H_1	14 mm	Step height
H_2	64.5 mm	Overall height
J	97 mm	Distance between attachment bolts
J	min. 88 mm	Minimum distance between attachment bolts
J	max. 106 mm	Maximum distance between attachment bolts
L	127 mm	Overall width
N	11.5 mm	Width of attachment bolt hole
N_1	20.5 mm	Length of attachment bolt hole
s_1	18.3 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C_0	6.55 kN
Limiting speed		130 r/min

Operating temperature	T	max. 250 °C

Mass

Mass bearing unit	0.57 kg

Mounting information

Set screw	G_2	1/4-28 UNF
Hexagonal key size for set screw		3.175 mm
Recommended tightening torque for set screw		4 N·m
Attachment bolts, recommended metric size	G	10 mm
Attachment bolts, recommended inch size	G	0.375 in

Included products

Bearing	YAR 204-012-2F/VA201

YAR 204-012-2F/VA201

High temperature insert bearing with set screws and extended inner ring

SKF high temperature bearings are designed to deliver increased reliability, reduced complexity and decreased environmental impact in operating temperatures up to 350 °C (660 °F). This makes these products very suitable for applications in kiln trucks, roller hearth furnaces, and bakeries, where there are both constant and alternating directions of rotation.

- Excellent performance under severe conditions
- Reduced environmental impact
- Reduce total operating cost
- Virtually maintenance-free operation

Overview

Dimensions

Bore diameter	19.05 mm
Outside diameter	47 mm
Width, inner ring	31 mm
Width, outer ring	14 mm
Width, total	31 mm

Performance

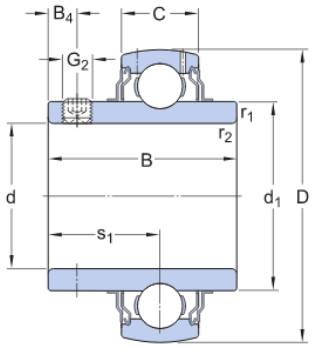
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Limiting speed	130 r/min
Maximum operating temperature	250 °C

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Manganese phosphate coated
Inner ring extension	On both sides
Lubricant	Solid lubricant
Material, bearing	High temperature steel
Outer ring type	Spherical
Relubrication feature	With
Retaining feature, inner ring	Set screws
Rolling elements	Balls
Rubber seating ring	Without
Sealing	Shield and flinger on both sides

Technical Specification

Running in required	Yes



Dimensions

d	19.05 mm	Bore diameter
D	47 mm	Outside diameter
B	31 mm	Width inner ring
C	14 mm	Width outer ring
d_1	≈ 28.2 mm	Shoulder diameter inner ring
B_4	4.5 mm	Distance from locking device side face to thread centre
s_1	18.3 mm	Distance from locking device side face to raceway centre
$r_{1,2}$	min. 0.6 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C_0	6.55 kN
Limiting speed		130 r/min
Operating temperature	T	max. 250 °C

Mass

Mass bearing	0.16 kg

Mounting information

Set screw	G_2	1/4-28 UNF
Hexagonal key size for set screw	N	3.175 mm
Recommended tightening torque for set screw		4 N·m

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