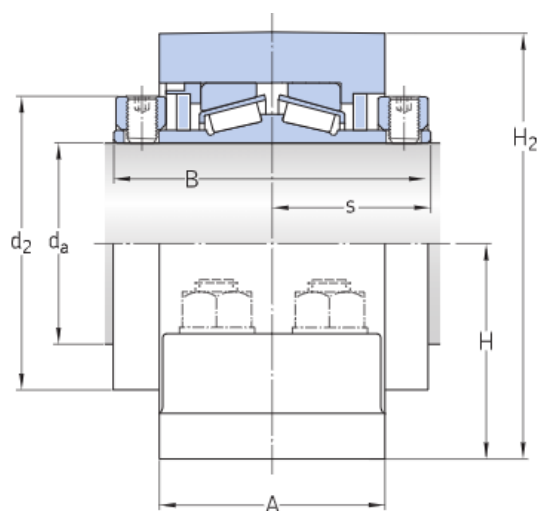


P4BE 100M-TRB-STH

Pillow block roller bearing units

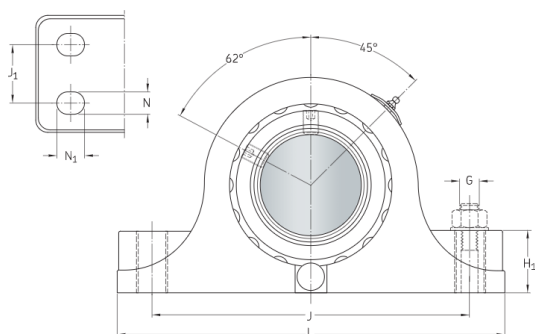
Technical specification

Metric/inch shaft	Inch
Bearing type	Tapered roller bearing
Bearing position	Locating
Locking method	Set screws
Sealing solution	Heavy-duty seals



DIMENSIONS

d_a	100 mm	Shaft diameter
d_2	147.638 mm	Collar outer diameter
A	114.3 mm	Housing foot width
B	158.75 mm	Inner ring width
H	107.95 mm	Height base to center
H_1	61.913 mm	Housing foot height
H_2	214.313 mm	Housing height
J	min. 311.15 mm	Distance between attachment bolts, max.
J	max. 323.85 mm	Distance between attachment bolts, min.
J	317.5 mm	Distance of attachment bolts
J_1	57.15 mm	Axial distance bolt to bolt



L	387.35 mm	Housing length
N	22.225 mm	Width foot slot width
N ₁	28.575 mm	Length of attachment bolt hole
s	79.375 mm	Centre line unit to side face of inner ring

CALCULATION DATA

Basic dynamic load rating	C	375 kN
Basic static load rating	C ₀	610 kN
Fatigue load limit	P _u	65.5 kN
Comparative radial load rating	C _F	102 kN
Limiting speed		1 500 r/min
Limiting value	e	0.48
Axial load factor	Y ₁	1.4
Axial load factor	Y ₂	2.1
Axial load factor	Y ₀	1.4
Bearing mean diameter	d _m	129.875 mm
Axial holding force of the locking mechanism	P _a	31.1 kN

MASS

Mass bearing unit	35.2 kg
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MOUNTING INFORMATION

Attachment bolt diameter	G	0.75 in
Set screws		4 x 5/8-11
Tightening torque for set screws		148.58 Nm
Grease quantity for relubrication		28.3 g

More information

Product details	Engineering information	Engineering tools
Pillow block units - metric series	Principles of selecting mounted bearing solutions	Bearing Select
Pillow block units - inch series	Bearing failure and how to prevent it	Rolling bearings mounting and dismounting instructions
Permissible misalignment		
Locating / non-locating support		
Loads		
Temperature limits		
Permissible speed		
Lubrication		
Mounting and dismounting		
Condition Monitoring		
Associated products		
Ordering information		
Designation system for SKF Pillow block roller bearing units		

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