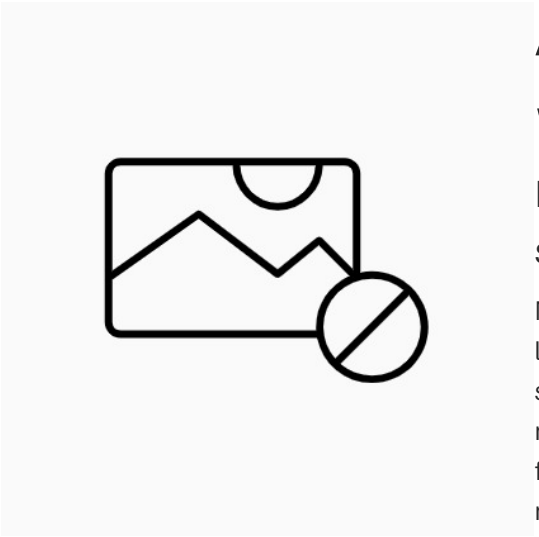
AXW 20Needle roller thrust bearing with centring flange, single direction



Needle roller thrust bearing with centring flange, single direction

Needle roller thrust bearings are designed to accommodate heavy axial loads and peak loads in one direction. They provide a high degree of stiffness within a minimum axial space. The bearings consist of a needle roller and cage thrust assembly and a thrust washer with a centring flange. The flange facilitates mounting and accurately centres the washer radially. To accommodate combined radial and axial loads, the bearings can be combined with drawn cup needle roller bearings or needle roller bearings with machined rings.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require minimal axial space
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	38 mm
Height	6.7 mm

Performance

Basic dynamic load rating	12 kN
Basic static load rating	47.5 kN
Reference speed	4 000 r/min
Limiting speed	8 000 r/min

Properties

Bearing part	Bearing with a centring flange
Cage	Sheet steel
Roller grade	G2
Material, bearing	Bearing steel
Coating	Without

Technical Specification



Dimensions

d	20 mm	Bore diameter
D	38 mm	Outside diameter
D_w	2 mm	Diameter roller
E_a	min. 22 mm	Raceway diameter (min.) roller and cage thrust assembly
E_b	max. 34 mm	Raceway diameter (max.) roller and cage thrust assembly
D_1	26 mm	Outsider diameter centring flange
B	3.2 mm	Height without centring flange
B_1	3.5 mm	Height centring flange

Calculation data

Basic dynamic load rating	C	12 kN
Basic static load rating	C_0	47.5 kN
Fatigue load limit	P_u	5.6 kN
Reference speed		4 300 r/min
Limiting speed		8 500 r/min

Mass

Mass bearing with a centring flange	0.014 kg

Associated products

Universal washer	LS 2035
Thin universal washer	AS 2035
Shaft washer	WS 81104

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