

FAG

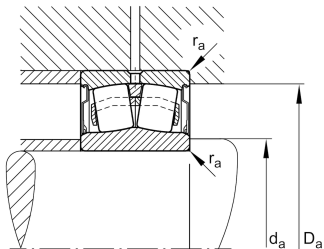
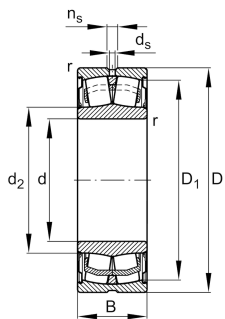
X-life

WS22214-E1-XL-2RSR

Spherical Roller Bearing

Sealed spherical roller bearings WS222...-E1, lip seals on both sides, for continuous casting machines

Technical information



Your current product variant

Design	E1	without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	
Sealing	2RSR	Seals on both sides, normal temperature
Sealing - excess width	WS	Sealing - excess width

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	125 mm	Outside diameter
B	38 mm	Width
C _r	211,000 N	Basic dynamic load rating, radial
C _{0r}	226,000 N	Basic static load rating, radial
C _{ur}	28,500 N	Fatigue load limit, radial
n _G	1,670 1/min	Limiting speed
≈m	1.897 kg	Weight



Mounting dimensions

d _{a min}	82.5 mm	Minimum diameter shaft shoulder
D _{a max}	116 mm	Maximum diameter of housing shoulder
r _{a max}	1.5 mm	Maximum recess radius

Dimensions

r _{min}	1.5 mm	Minimum chamfer dimension
D ₁	113.5 mm	Bore diameter outer ring
d ₂	82.5 mm	Raceway diameter of the inner ring
d _s	3.2 mm	Diameter lubrication hole
n _s	6.5 mm	Width of lubricating groove

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

e	0.23	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2.95	Dynamic axial load factor
Y ₂	4.4	Dynamic axial load factor
Y ₀	2.89	Static axial load factor



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides



Static angular error and misalignment



Dynamic angular error and misalignment