



FAG

**24176-BE-XL-K30**

## Spherical Roller Bearing

Spherical roller bearings 241...-BE-K30, main dimensions to DIN 635-2, with tapered bore, taper 1:30

X-life

## Technical information



## Your current product variant

Design	BE	With lose center lip ring
Bore type	K30	Tapered, taper 1:30
Cage	JPB	Sheet metal cage
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	380 mm	Bore diameter
D	620 mm	Outside diameter
B	243 mm	Width
C <sub>r</sub>	5.800.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	9.700.000 N	Basic static load rating, radial
C <sub>ur</sub>	730.000 N	Fatigue load limit, radial
n <sub>G</sub>	850 1/min	Limiting speed
n <sub>gr</sub>	325 1/min	Reference speed
m	276 kg	Weight

## Mounting dimensions

d <sub>a min</sub>	400 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	600 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	4 mm	Maximum recess radius



### Dimensions

$r_{\min}$	5 mm	Minimum chamfer dimension
$D_1$	528,4 mm	Bore diameter outer ring
$d_2$	421 mm	Raceway diameter of the inner ring
$d_s$	9,5 mm	Diameter lubrication hole
$n_s$	17,7 mm	Width of lubricating groove

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

### Calculation factors

$e$	0,38	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,76	Dynamic axial load factor
$Y_2$	2,62	Dynamic axial load factor
$Y_0$	1,72	Static axial load factor

### Additional information

AH24176-H

Withdrawal sleeve



### Characteristics

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-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Large bearing
-  Static angular error and misalignment
-  Dynamic angular error and misalignment