

**FAG****24188-B-K30-C3** [↗](#)

## Spherical Roller Bearing

Spherical roller bearing 241...-B-K30,  
symmetric 1 central rib

## Technical information

**Your current product variant**

Design	B	With fixed central rib
Bore type	K30	Tapered, taper 1:30
Cage	JPB	Sheet metal cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	Standard	

**Main Dimensions & Performance Data**

d	440 mm	Bore diameter
D	720 mm	Outside diameter
B	280 mm	Width
C <sub>r</sub>	6.400.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	13.200.000 N	Basic static load rating, radial
C <sub>ur</sub>	1.020.000 N	Fatigue load limit, radial
n <sub>G</sub>	710 1/min	Limiting speed
n <sub>gr</sub>	255 1/min	Reference speed
m	435,5 kg	Weight

**Mounting dimensions**

d <sub>a min</sub>	466 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	694 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	5 mm	Maximum recess radius



## Dimensions

$r_{\min}$	6 mm	Minimum chamfer dimension
$D_1$	612,4 mm	Bore diameter outer ring
$d_s$	12,5 mm	Diameter lubrication hole
$n_s$	23,5 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

## Characteristics

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