

**FAG****511/500-MP** [↗](#)

Axial deep groove ball bearing

Axial deep groove ball bearing 511..-MP,  
single direction, solid brass cage

## Technical information

**Your current product variant**

Cage	MP	Solid brass cage, rolling element guided
Tolerance class	PN	Tolerance class PN, acc. to DIN 620
Dimensional / heat stabilization	S1	Rings dimensional stabilized up to 200°

**Main Dimensions & Performance Data**

d	500 mm	Inner diameter shaft washer
D	600 mm	Outer diameter housing washer
T	80 mm	Height
C <sub>a</sub>	550.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	3.300.000 N	Basic static load rating, axial
C <sub>ua</sub>	65.000 N	Fatigue load limit, axial
n <sub>G</sub>	830 1/min	Limiting speed
n <sub>gr</sub>	630 1/min	Reference speed
m	44 kg	Weight

**Mounting dimensions**

d <sub>a min</sub>	560 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	540 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	2,1 mm	Maximum filled radius



### Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	505 mm	Inner diameter housing washer
$d_1$	595 mm	Outer diameter shaft washer





### Temperature range

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

### Calculation factors

A	58	Minimum load factor
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### Characteristics

-   $F_a$  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Large bearing