

81188 M

Single row cylindrical roller thrust bearings are designed to accommodate heavy axial loads and peak loads in one direction, but not radial loads. They provide a high degree of stiffness and require little axial space. They are mainly used in applications where thrust ball bearings do not have sufficient load carrying capacity. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.



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



Dimensions		
d	440 mm	Bore diameter
D	540 mm	Outside diameter
H	80 mm	Height
d ₁	535 mm	Outside diameter shaft washer
D ₁	444 mm	Bore diameter housing washer
B	24 mm	Height shaft washer
r _{1,2}	min. 2.1 mm	Chamfer dimension housing washer



Abutment dimensions		
d _a	min. 533 mm	Abutment diameter shaft
D _a	max. 459 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 430 kN
Basic static load rating	C ₀	8 000 kN
Fatigue load limit	P _u	550 kN
Reference speed		300 r/min
Limiting speed		600 r/min
Minimum axial load factor	A	5.12

Included products

Roller and cage thrust assembly	K-81188 M
Shaft washer	IW-81188
Housing washer	OW-81188

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table, table, values

DESIGN CONSIDERATIONS

- table

BEARING INTERFACES

- Seat tolerances for standard conditions