

81184 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	420 mm	Bore diameter
D	500 mm	Outside diameter
H	65 mm	Height
d ₁	495 mm	Outside diameter shaft washer
D ₁	424 mm	Bore diameter housing washer
B	20 mm	Height shaft washer
r _{1,2}	min. 2 mm	Chamfer dimension housing washer



Abutment dimensions		
d _a	min. 493 mm	Abutment diameter shaft
D _a	max. 433 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	980 kN
Basic static load rating	C ₀	5 850 kN
Fatigue load limit	P _u	400 kN
Reference speed		340 r/min
Limiting speed		700 r/min
Minimum axial load factor	A	2.738

Included products

Shaft washer	IW-81184
Housing washer	OW-81184

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table, table, values

DESIGN CONSIDERATIONS

- table

BEARING INTERFACES

- Seat tolerances for standard conditions