

89180 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	400 mm	Bore diameter
D	480 mm	Outside diameter
H	48 mm	Height
d ₁	477 mm	Outside diameter shaft washer
D ₁	403 mm	Bore diameter housing washer
B	14 mm	Height shaft washer
r _{1,2}	min. 2 mm	Chamfer dimension housing washer



Abutment dimensions		
d _a	min. 460 mm	Abutment diameter shaft
D _a	max. 420 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	735 kN
Basic static load rating	C ₀	4 650 kN
Fatigue load limit	P _u	320 kN
Reference speed		400 r/min
Limiting speed		800 r/min
Minimum axial load factor	A	1.7

Included products

Shaft washer	IW-89180
Housing washer	OW-89180

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table, table, values

DESIGN CONSIDERATIONS

- table

BEARING INTERFACES

- Seat tolerances for standard conditions