

89176 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	380 mm	Bore diameter
D	460 mm	Outside diameter
H	48 mm	Height
d ₁	457 mm	Outside diameter shaft washer
D ₁	383 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. 440 mm	Abutment diameter shaft
D _a	max. 400 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	710 kN
Basic static load rating	C ₀	4 400 kN
Fatigue load limit	P _u	305 kN
Reference speed		400 r/min
Limiting speed		800 r/min
Minimum axial load factor	A	1.5

Included products

Shaft washer	IW-89176
Housing washer	OW-89176

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table, table, values

DESIGN CONSIDERATIONS

- table

BEARING INTERFACES

- Seat tolerances for standard conditions