

81160 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	300 mm	Bore diameter
D	380 mm	Outside diameter
H	62 mm	Height
d ₁	376 mm	Outside diameter shaft washer
D ₁	304 mm	Bore diameter housing washer
B	18.5 mm	Height shaft washer
r _{1,2}	min. 2 mm	Chamfer dimension housing washer



Abutment dimensions		
d _a	min. 373 mm	Abutment diameter shaft
D _a	max. 315 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	850 kN
Basic static load rating	C ₀	4 400 kN
Fatigue load limit	P _u	335 kN
Reference speed		430 r/min
Limiting speed		850 r/min
Minimum axial load factor	A	1.549

Included products

Roller and cage thrust assembly	K 81160 M
Shaft washer	WS 81160
Housing washer	GS 81160

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table, table, values

DESIGN CONSIDERATIONS

- table

BEARING INTERFACES

- Seat tolerances for standard conditions