

81138 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	190 mm	Bore diameter
D	240 mm	Outside diameter
H	37 mm	Height
d ₁	237 mm	Outside diameter shaft washer
D ₁	193 mm	Bore diameter housing washer
B	11 mm	Height shaft washer
r _{1,2}	min. 1.1 mm	Chamfer dimension housing washer



Abutment dimensions		
d _a	min. 233 mm	Abutment diameter shaft
D _a	max. 197 mm	Abutment diameter housing
r _a	max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	310 kN
Basic static load rating	C ₀	1 460 kN
Fatigue load limit	P _u	125 kN
Reference speed		700 r/min
Limiting speed		1 400 r/min
Minimum axial load factor	A	0.171

Included products

Roller and cage thrust assembly	K 81138 M
Shaft washer	WS 81138
Housing washer	GS 81138

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table, table, values

DESIGN CONSIDERATIONS

- table

BEARING INTERFACES

- Seat tolerances for standard conditions