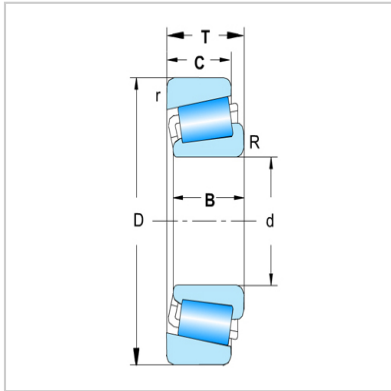
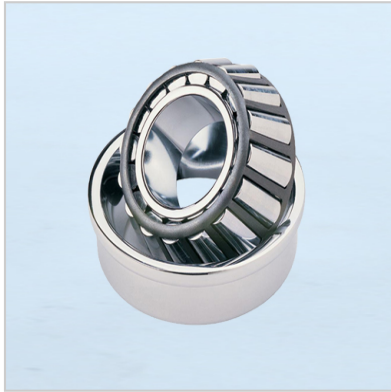


## Tapered Roller Bearings

Inch series-18590/520



Bearing No. :	18590/520
d mm :	41.275
D mm :	73.025
T mm :	16.667
B mm :	17.462
C mm :	12.700
R :	3.5
r :	1.6
Weight kg :	0.234

### 介绍:

A tapered roller bearing consists of an inner ring, an outer ring, tapered rollers, and a cage. The tapered roller rolls between the raceway of the inner and outer rings, and the axis of the roller is inclined at a certain angle to the axis of the bearing, so that the tapered roller bearing can withstand both radial and axial loads simultaneously.

When the tapered roller shaft is subjected to radial load, the contact line between the roller and the raceway tilts with the bearing axis, generating a force parallel to the axis that can withstand axial load. Therefore, tapered roller bearings can effectively convert radial and axial loads into rolling friction between the rollers and the raceway, thereby achieving smooth rotation and load transmission.

Conical roller bearings are widely used in fields such as automobiles, railways, machine tools, metallurgy, and mining. In automobiles, it is commonly used in wheel hub bearings, differential bearings, and other parts, which can withstand complex loads during vehicle operation; In railway vehicles, it is used for axle box bearings to bear the weight of the train and various forces during operation; In machine tools, it can be used for spindle bearings to ensure the machining accuracy and stability of the machine tool.

### Performance characteristics

Strong bearing capacity: able to withstand both large radial and axial loads simultaneously, suitable for heavy-duty conditions.



High ultimate speed: Compared to some other types of bearings, tapered roller bearings have a higher ultimate speed and can meet the requirements of high-speed rotation.

Good rigidity: It has good rigidity, which can ensure the accuracy and stability of the bearing under load.