

# 81130 TN



## Single row cylindrical roller thrust bearing, single direction

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

## Overview

### Dimensions

|                  |        |
|------------------|--------|
| Bore diameter    | 150 mm |
| Outside diameter | 190 mm |
| Height           | 31 mm  |

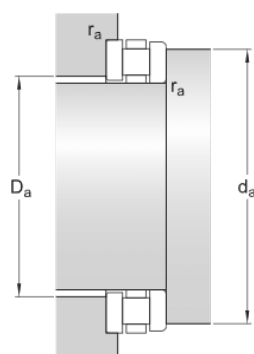
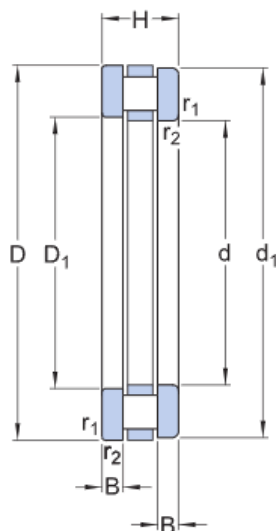
### Performance

|                           |             |
|---------------------------|-------------|
| Basic dynamic load rating | 212 kN      |
| Basic static load rating  | 1 000 kN    |
| Reference speed           | 850 r/min   |
| Limiting speed            | 1 700 r/min |

### Properties

|                       |                  |
|-----------------------|------------------|
| Bearing part          | Complete bearing |
| Axial load capability | Single-direction |
| Number of rows        | 1                |
| Cage                  | Non-metallic     |
| Tolerance class       | Normal           |
| Material, bearing     | Bearing steel    |
| Coating               | Without          |

# Technical Specification



## Dimensions

|                  |           |                                  |
|------------------|-----------|----------------------------------|
| d                | 150 mm    | Bore diameter                    |
| D                | 190 mm    | Outside diameter                 |
| H                | 31 mm     | Height                           |
| d <sub>1</sub>   | 188 mm    | Outside diameter shaft washer    |
| D <sub>1</sub>   | 152 mm    | Bore diameter housing washer     |
| B                | 9.5 mm    | Height shaft washer              |
| r <sub>1,2</sub> | min. 1 mm | Chamfer dimension housing washer |

## Abutment dimensions

|                |             |                           |
|----------------|-------------|---------------------------|
| d <sub>a</sub> | min. 185 mm | Abutment diameter shaft   |
| D <sub>a</sub> | max. 155 mm | Abutment diameter housing |
| r <sub>a</sub> | max. 1 mm   | Fillet radius             |

## Calculation data

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 212 kN      |
| Basic static load rating  | C <sub>0</sub> | 1 000 kN    |
| Fatigue load limit        | P <sub>u</sub> | 88 kN       |
| Reference speed           |                | 850 r/min   |
| Limiting speed            |                | 1 700 r/min |
| Minimum axial load factor | A              | 0.08        |

## Mass

|              |        |
|--------------|--------|
| Mass bearing | 2.2 kg |
|--------------|--------|

## Included products

|                                 |            |
|---------------------------------|------------|
| Roller and cage thrust assembly | K 81130 TN |
| Shaft washer                    | WS 81130   |
| Housing washer                  | GS 81130   |

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