

# Full Complement Cylindrical Roller Bearing

Regal Beloit Belgium Bulletin  
ISO 9001 certified

ROLLWAY®



## Full Complement Cylindrical Roller Bearings

### Rollway Product Info

#### WHY?

Full complement cylindrical roller bearings are capable of carrying higher radial loads than bearings that utilize a cage and roller design

#### PRODUCT FEATURES:

- Full complement construction, no cage included
- Largest possible amount of rolling elements, so very high radial load carrying capacity, high rigidity and suitable for particularly compact designs
- The design of the outer ring facilitates a great amount of internal axial float capacity

#### APPLICATIONS:

- General machine industry
- Gear drives
- Rolling mills
- Crop shears

#### PRIMARY TYPES:

- Non locating bearings: only radial load carrying capacity
- Semi locating bearings: besides a high radial load carrying capacity, also a small axial load carrying capacity in one direction. This enables the bearing to locate a shaft unidirectional.
- Locating bearings: in addition to high radial load capacity also capable of carrying small axial load in both directions.

#### DIMENSIONS:

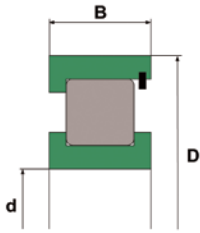
	Interchange code	Type	d (bore diameter) mm		D (outer diameter) mm	
			min	max	min	max
NCF	SL 18	semi locating	20	670	42	820
NJG	SL 19	semi locating	25	110	62	240
NNF	SL 04	locating	20	300	42	460
NNC	SL 01	locating	60	380	85	480
NNCF	SL 18 50	semi locating	20	380	42	560
NNCL	SL 02	non locating	60	380	85	520

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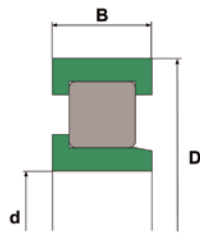
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## Rollway Product Info



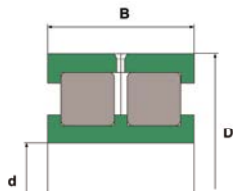
### SINGLE ROW: NCF

- Single inner ring with two fixed flanges
- Single outer ring with one fixed flange
- On the flangeless side of the outer ring is a retaining ring inserted which keeps the bearing components together
- The retaining ring is for handling purposes only, it cannot be exposed to axial load
- Outer ring is located with a snap ring



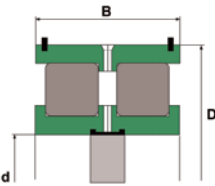
### SINGLE ROW: NJG

- Inner ring with one flange and one free side
- Single outer ring with two fixed flanges
- Special: Mainly for applications with very high radial load at low rotational speed
- Standard: self-retaining set of rollers so the rollers cannot fall out even if the inner ring is removed, which simplifies the assembly



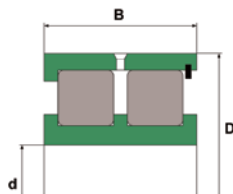
### DOUBLE ROW: NNC

- Inner ring with 3 fixed flanges
- Two outer rings with internal flange
- Oil groove and holes in outer ring



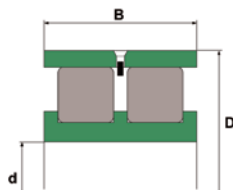
### DOUBLE ROW: NNF

- 2 identical inner rings held together with metallic spring
- Single outer ring with a fixed central flange
- Oil groove and holes in both rings
- PP: sealed on both sides and lubricated
- 2NR: 2 snap rings



### DOUBLE ROW: NNCF

- Inner ring with 3 fixed flanges
- Single outer ring with one fixed flange
- Outer ring located with one snap ring which keeps all bearing components together
- Oil groove and holes in outer ring



### DOUBLE ROW: NNCL

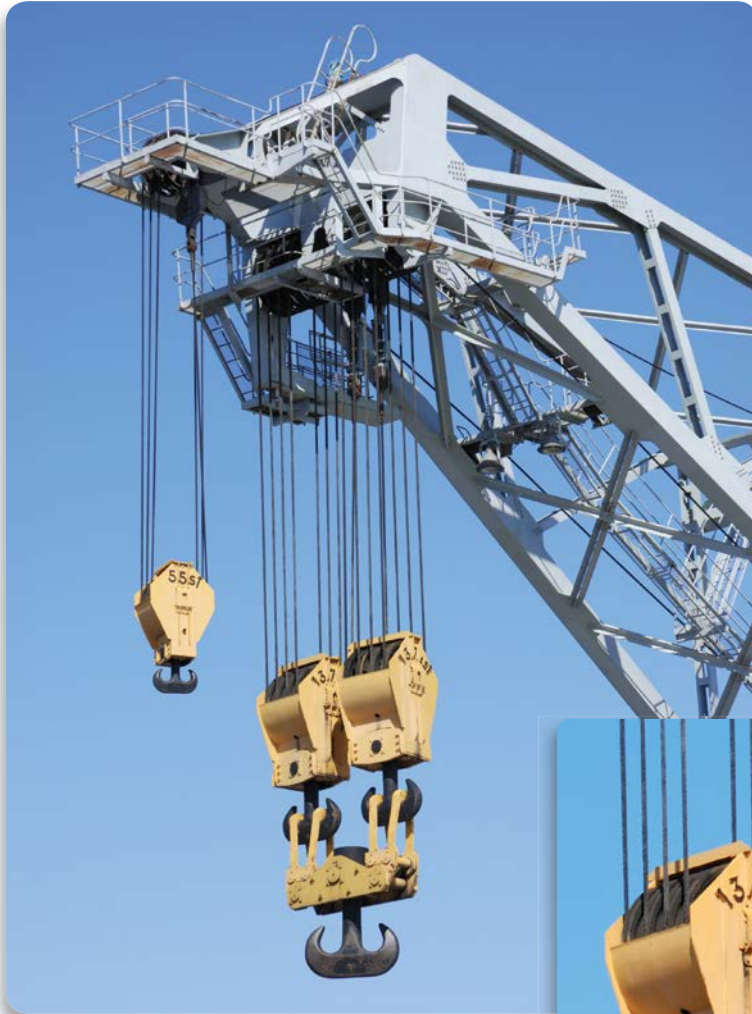
- Inner ring with 3 fixed flanges
- Single outer ring with one fixed flange
- Outer ring located with a central snap ring to keep all bearing components together
- Oil groove and holes in outer ring

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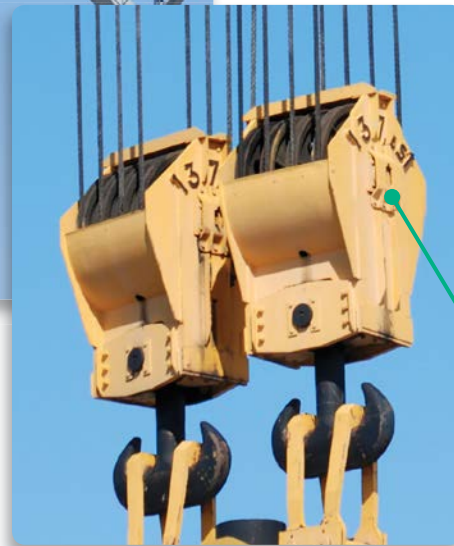


### APPLICATION INFO: ROPE SHEAVES

A rope sheave, is a pulley with a grooved wheel that holds a rope. Spinning inside the frame of the sheave, the grooved wheel allows the rope to move freely minimizing wear and abrasion. Application fields of rope sheaves are redirecting cables or lifting loads; they are often used in vessel cranes as shown in the picture.

### What makes these bearings suited for rope sheaves:

- very high radial load carrying capacity
- high rigidity
- easy relubrication
- effective sealing
- suitable for particularly compact designs



Full complement cylindrical roller bearings are located here in the vessel crane.

## ROLLWAY

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#### APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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