

# NUB SERIES BEARINGS FOR CONTINUOUS CASTING MACHINES



SUBSCRIBE TO NSK NEWSLETTER 🛛 🛤

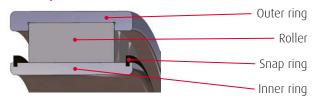
# **Bearings for Guide Rolls**

Bearings used in the guide rolls of continuous casting machines are exposed to harsh conditions such as heavy load at ultra-low-speed in a hot and wet environment. In order to extend segment maintenance interval, high-performance bearings with longer life and higher reliability are necessary.

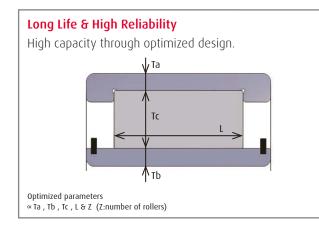


Through extensive knowledge, decades of experience in the steel industry and using cutting edge analysis technology, NSK has optimized the design of guide roll bearings. Additionally, these bearings ease the fitting and removal process.

**Cutaway View** 

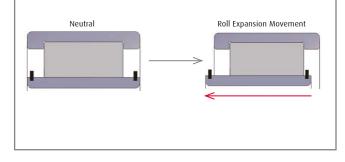


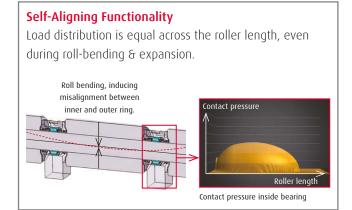
## **Features**



## Free floating capability

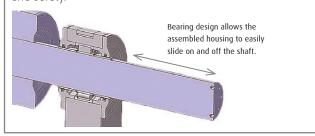
Enables smooth movement between rollers and inner ring.





## Easy Handling

The housing and bearing assembly are easy to handle without any special tools. This improves work efficiency and safety.



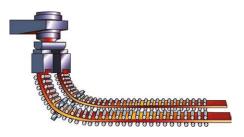
## **Bench Testing**

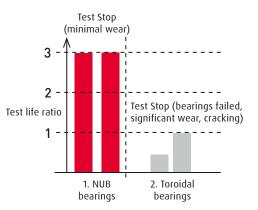
As part of the development process, NSK's innovative design was benchmarked against one of the standard design of non-locating bearing. Subjected to the same detrimental conditions (high load, low speed, misalignment and axial flotation), NSK's NUB bearings achieved at least 3 times the lifetime of toroidal bearings.

## **Field Testing**

NSK have field trialled these bearings in continuous casting machines at customers. They achieved the expected long life results without any premature failure, assuring a stable operation and reliable performance for the customer.



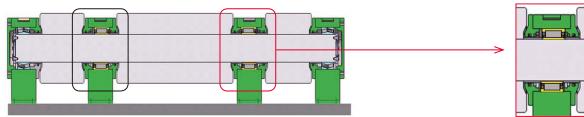






Roll Segment Unit

## **Roll Arrangement**



Housing structure

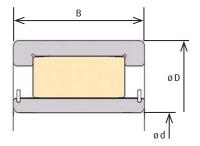
## **Field Testing Results**

Bearing number: 160NUB40VC4 Test period: 9 months Production amount: Approx. 1.0M tons Appearance: No abnormalities detected (Possible for continued use)



## **Bearing Number List**

Dimensions (mm)			Bearing No.	Basic Load Ratings (kN)	
d	D	В	bearing No.	Cr	Cor
120	180	60	120NUB40V	450	740
130	200	69	130NUB40V	570	950
140	210	69	140NUB40V	560	960
150	225	75	150NUB40V	665	1160
160	240	80	160NUB40V	765	1360





### NSK Sales Offices - Europe, Middle East and Africa

#### UK

NSK UK Ltd. Northern Road, Newark Nottinghamshire NG24 2JF Tel. +44 (0) 1636 605123 Fax +44 (0) 1636 643276 info-uk@nsk.com

#### France & Benelux

NSK France S.A.S. Quartier de l'Europe 2, rue Georges Guynemer 78283 Guyancourt Cedex Tel. +33 (0) 1 30573939 Fax +33 (0) 1 30570001 info-fr@nsk.com

## Germany, Austria,

**Switzerland, Nordic** NSK Deutschland GmbH Harkortstraße 15 40880 Ratingen Tel. +49 (0) 2102 4810 Fax +49 (0) 2102 4812290 info-de@nsk.com

#### Italy

NSK Italia S.p.A. Via Garibaldi, 215 20024 Garbagnate Milanese (MI) Tel. +39 02 995 191 Fax +39 02 990 25 778 info-it@nsk.com

#### Middle East

NSK Bearings Gulf Trading Co. JAFZA View 19, Floor 24 Office 2/3 Jebel Ali Downtown, PO Box 262163 Dubai, UAE Tel. +971 (0) 4 804 8205 Fax +971 (0) 4 884 7227 info-me@nsk.com

#### Poland & CEE

NSK Polska Sp. z o.o. Warsaw Branch Ul. Migdałowa 4/73 02-796 Warszawa Tel. +48 22 645 15 25 Fax +48 22 645 15 29 info-pl@nsk.com

#### Russia

NSK Polska Sp. z o.o. Russian Branch Office I 703, Bldg 29, 18<sup>th</sup> Line of Vasilievskiy Ostrov, Saint-Petersburg, 199178 Tel. +7 812 3325071 Fax +7 812 3325072 info-ru@nsk.com

#### South Africa

NSK South Africa (Pty) Ltd. 25 Galaxy Avenue Linbro Business Park Sandton 2146 Tel. +27 (011) 458 3600 Fax +27 (011) 458 3608 nsk-sa@nsk.com

#### Spain

NSK Spain, S.A. C/ Tarragona, 161 Cuerpo Bajo 2ª Planta, 08014 Barcelona Tel. +34 93 2892763 Fax +34 93 4335776 info-es@nsk.com

#### Turkey

NSK Rulmanları Orta Doğu Tic. Ltd. Şti 19 Mayıs Mah. Atatürk Cad. Ulya Engin İş Merkezi No: 68/3 Kat. 6 P.K.: 34736 - Kozyatağı - İstanbul Tel. +90 216 4777111 Fax +90 216 4777174 turkey@nsk.com

## Please also visit our website: www.nskeurope.com Global NSK: www.nsk.com