

Deep-groove Ball Bearings



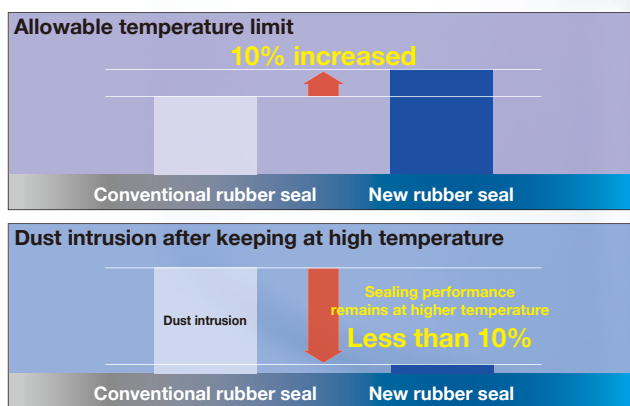


Quest, for Higher Performance and Reliability

Recent industrial machinery trends show an increasing need for bearings capable of handling higher speeds and higher temperature conditions. NACHI QUEST brand deep-groove ball bearings meet these changing demands.

Heat-resistant rubber seals

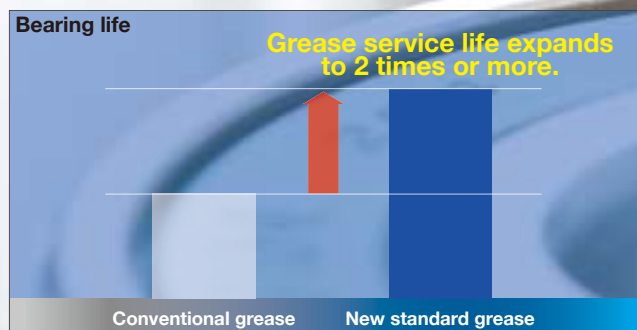
At high temperatures, rubber hardens degrading the seal performance. This allows foreign matter to enter the bearing. New heat-resistant nitrile rubber seals maintain sealing performance at high temperature.



Test bearing 6206-2NSE, 6206-2NSE9
Circumstance Muddy water sprayed
Rotating speed 1000 rpm (Inner ring rotation), Intermittent Test period 20 hours
Test method Compare the amount of intruded dust in test bearings with rubber seals degraded at high temperature (140°C x 70 hours)

NACHI original high performance grease

- Modifying the base oil improves high temperature performance without sacrificing the low noise and low torque properties of the conventional grease.
- New standard grease has two times longer grease life than the conventional grease at 120°C.

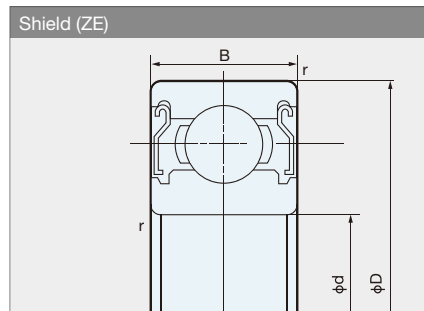
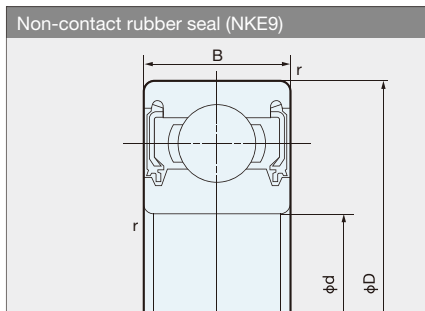
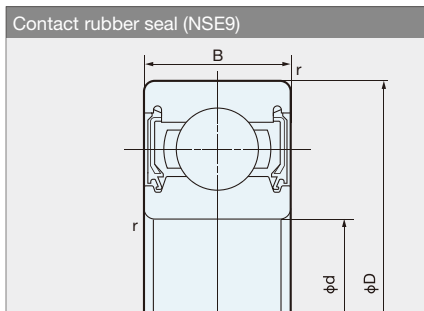


Test bearing 6203-2NKE
Rotating speed 10000 rpm (Inner ring rotation)
Radial load Fr=500 N
Ambient temp. 120°C

Environmentally-Friendly, conforms to ELV and RoHS directive

Free from hazardous substances such as hexavalent chromium

Dimensions / Specifications



| Bearing No. | | | Boundary dimensions (mm) | | | | Basic dynamic load rating Cr(N) | Basic static load rating Cor(N) | Limiting speed(min ⁻¹) | |
|----------------------|--------------------------|---------|--------------------------|-----|----|---------|---------------------------------|---------------------------------|------------------------------------|-----------|
| Contact rubber seals | Non-contact rubber seals | Shields | d | D | B | r (min) | | | Grease lubrication | |
| | | | | | | | | | 2NSE9 | 2NKE9,ZZE |
| 6000-2NSE9 | 6000-2NKE9 | 6000ZZE | 10 | 26 | 8 | 0.3 | 4,550 | 1,970 | 22,000 | 30,000 |
| 6200-2NSE9 | 6200-2NKE9 | 6200ZZE | | 30 | 9 | 0.6 | 5,100 | 2,390 | 18,000 | 25,000 |
| 6300-2NSE9 | 6300-2NKE9 | 6300ZZE | | 35 | 11 | 0.6 | 8,100 | 3,450 | 17,000 | 23,000 |
| 6001-2NSE9 | 6001-2NKE9 | 6001ZZE | 12 | 28 | 8 | 0.3 | 5,100 | 2,390 | 18,000 | 28,000 |
| 6201-2NSE9 | 6201-2NKE9 | 6201ZZE | | 32 | 10 | 0.6 | 6,800 | 3,050 | 17,000 | 22,000 |
| 6301-2NSE9 | 6301-2NKE9 | 6301ZZE | | 37 | 12 | 1.0 | 9,750 | 4,250 | 16,000 | 20,000 |
| 6002-2NSE9 | 6002-2NKE9 | 6002ZZE | 15 | 32 | 9 | 0.3 | 5,600 | 2,840 | 15,000 | 24,000 |
| 6202-2NSE9 | 6202-2NKE9 | 6202ZZE | | 35 | 11 | 0.6 | 7,650 | 3,700 | 15,000 | 20,000 |
| 6302-2NSE9 | 6302-2NKE9 | 6302ZZE | | 42 | 13 | 1.0 | 11,400 | 5,400 | 13,000 | 17,000 |
| 6003-2NSE9 | 6003-2NKE9 | 6003ZZE | 17 | 35 | 10 | 0.3 | 6,000 | 3,250 | 14,000 | 22,000 |
| 6203-2NSE9 | 6203-2NKE9 | 6203ZZE | | 40 | 12 | 0.6 | 9,550 | 4,800 | 12,000 | 18,000 |
| 6303-2NSE9 | 6303-2NKE9 | 6303ZZE | | 47 | 14 | 1.0 | 13,600 | 6,550 | 11,000 | 16,000 |
| 6004-2NSE9 | 6004-2NKE9 | 6004ZZE | 20 | 42 | 12 | 0.6 | 9,400 | 5,000 | 11,000 | 18,000 |
| 6204-2NSE9 | 6204-2NKE9 | 6204ZZE | | 47 | 14 | 1.0 | 12,800 | 6,600 | 11,000 | 16,000 |
| 6304-2NSE9 | 6304-2NKE9 | 6304ZZE | | 52 | 15 | 1.1 | 15,900 | 7,900 | 10,000 | 14,000 |
| 6005-2NSE9 | 6005-2NKE9 | 6005ZZE | 25 | 47 | 12 | 0.6 | 10,100 | 5,850 | 9,500 | 15,000 |
| 6205-2NSE9 | 6205-2NKE9 | 6205ZZE | | 52 | 15 | 1.0 | 14,000 | 7,900 | 9,000 | 13,000 |
| 6305-2NSE9 | 6305-2NKE9 | 6305ZZE | | 62 | 17 | 1.1 | 23,600 | 12,100 | 8,100 | 12,000 |
| 6006-2NSE9 | 6006-2NKE9 | 6006ZZE | 30 | 55 | 13 | 1.0 | 13,200 | 8,300 | 8,000 | 13,000 |
| 6206-2NSE9 | 6206-2NKE9 | 6206ZZE | | 62 | 16 | 1.0 | 19,500 | 11,300 | 7,500 | 11,000 |
| 6306-2NSE9 | 6306-2NKE9 | 6306ZZE | | 72 | 19 | 1.1 | 26,700 | 15,000 | 6,700 | 10,000 |
| 6007-2NSE9 | 6007-2NKE9 | 6007ZZE | 35 | 62 | 14 | 1.0 | 16,000 | 10,300 | 6,800 | 12,000 |
| 6207-2NSE9 | 6207-2NKE9 | 6207ZZE | | 72 | 17 | 1.1 | 25,700 | 15,300 | 6,300 | 9,800 |
| 6307-2NSE9 | 6307-2NKE9 | 6307ZZE | | 80 | 21 | 1.5 | 33,500 | 19,200 | 6,000 | 8,800 |
| 6008-2NSE9 | 6008-2NKE9 | 6008ZZE | 40 | 68 | 15 | 1.0 | 16,800 | 11,500 | 6,100 | 10,000 |
| 6208-2NSE9 | 6208-2NKE9 | 6208ZZE | | 80 | 18 | 1.1 | 29,100 | 17,900 | 5,600 | 8,700 |
| 6308-2NSE9 | 6308-2NKE9 | 6308ZZE | | 90 | 23 | 1.5 | 40,500 | 24,100 | 5,300 | 7,800 |
| 6009-2NSE9 | 6009-2NKE9 | 6009ZZE | 45 | 75 | 16 | 1.0 | 20,900 | 15,200 | 5,400 | 9,200 |
| 6209-2NSE9 | 6209-2NKE9 | 6209ZZE | | 85 | 19 | 1.1 | 32,500 | 20,500 | 5,300 | 7,800 |
| 6309-2NSE9 | 6309-2NKE9 | 6309ZZE | | 100 | 25 | 1.5 | 53,000 | 32,000 | 4,800 | 7,000 |
| 6010-2NSE9 | 6010-2NKE9 | 6010ZZE | 50 | 80 | 16 | 1.0 | 21,800 | 16,600 | 5,000 | 8,500 |
| 6210-2NSE9 | 6210-2NKE9 | 6210ZZE | | 90 | 20 | 1.1 | 35,000 | 23,200 | 4,800 | 7,100 |
| 6310-2NSE9 | 6310-2NKE9 | 6310ZZE | | 110 | 27 | 2.0 | 62,000 | 38,000 | 4,300 | 6,400 |

NACHI-FUJIKOSHI CORP.

Main Office: Shiodome Sumitomo Bldg. 17F, 1-9-2 Higashi-Shinbashi, Minato-ku, Tokyo 105-0021, JAPAN

Tel: 03-5568-5111 Fax: 03-5568-5206 URL: <http://www.nachi-fujikoshi.co.jp/>

Overseas Sales Companies

NACHI AMERICA INC. HEAD QUARTERS

715 Pushville Road, Greenwood, Indiana, 46143, U.S.A.
Tel: +1-317-530-1001 Fax: +1-317-530-1011
URL: <http://www.nachiamerica.com/>

WEST COAST BRANCH

12652 E. Alondra Blvd. Cerritos, California, 90703, U.S.A.
Tel: +1-562-802-0055 Fax: +1-562-802-2455

MIAMI BRANCH-LATIN AMERICA DIV.

2315 N.W. 107th Ave., Doral, Florida, 33172, U.S.A.
Tel: +1-305-591-0054/0059/2604 Fax: +1-305-591-3110

NACHI CANADA INC.

89 Courtland Ave., Unit No.2, Concord, Ontario, L4K 3T4, CANADA
Tel: +1-905-660-0088 Fax: +1-905-660-1146
URL: <http://www.nachicanada.com/>

NACHI MEXICANA, S.A. DE C.V.

Urbina No.54, Parque Industrial Naucalpan, Naucalpan de Juarez, Estado de Mexico C.P. 53370, MEXICO
Tel: +52-55-3604-0832 Fax: +52-55-3604-0882

NACHI EUROPE GmbH

Bischofstrasse 99, 47809, Krefeld, GERMANY
Tel: +49-(0)2151-65046-0 Fax: +49-(0)2151-65046-90
URL: <http://www.nachi.de/>

SOUTH GERMANY OFFICE

Pleidelsheimer Strasse47, 74321, Bietigheim-Bissingen
Tel: +49-(0)7142-77418-0 Fax: +49-(0)7142-77418-20

SPAIN BRANCH

P.I. EL MONTALVO III C/Segunda, 6. Portal 1-2a, Oficina 5 37188-Carbajosa de La Sagrada Salamanca- Espana, SPAIN
Tel: +34-(0)923-197-837 Fax: +34-(0)923-197-758

CZECH BRANCH

Sezemicka 2757/2, Praha 9 193 00, Horni Pocernice VGP Park - Building A1, CZECH
Tel: +420-255-734-005 Fax: +420-255-734-001

U.K. BRANCH

Unit 3, 92, Kettles Wood Drive Woodgate Business Park, BIRMINGHAM B32 3DB, U.K.
Tel: +44-(0)121-423-5000 Fax: +44-(0)121-421-7520

TURKEY OFFICE

Karaman Ciftligi Mevkii, Agaoglu My Prestige, K;13, D;110, 34746, Atasehir, Istanbul, TURKEY
Tel: +90-(0)216-688-4457 Fax: +90-(0)216-688-4458

NACHI SINGAPORE PTE. LTD.

No.2 Joo Koon Way, Jurong Town, Singapore 628943, SINGAPORE
Tel: +65-65587393 Fax: +65-65587371

VIETNAM REPRESENTATIVE OFFICE (HANOI)

5B Fl., Noza Bld., 243 Cau Giay St., Cau Giay Dist., Hanoi, VIETNAM
Tel: +84-4-3767-8605 Fax: +84-4-3767-8604

VIETNAM REPRESENTATIVE OFFICE (HO CHI MINH)

4Fl., Yoco Bld., 41 Nguyen Thi Minh Khai St., Dist.1, Ho Chi Minh, VIETNAM
Tel: +84-8-3822-3919 Fax: +84-8-3822-3918

FUJIKOSHI-NACHI (MALAYSIA) SDN. BHD.

No.17, Jalan USJ 21/3, 47630 UEP Subang Jaya, Selangor Darul Ehsan, MALAYSIA
Tel: +60-(0)3-80247900 Fax: +60-(0)3-80235884

PT.NACHI INDONESIA

Jl.H.R.Rasuna Said Kav.X-O Kuningan, Jakarta 12950, INDONESIA
Tel: +62-021-527-2841 Fax: +62-021-527-3029

NACHI-FUJIKOSHI CORP. THAILAND REPRESENTATIVE OFFICE

Unit 23/109(A), Fl.24 Sorachai Bldg., 23 Sukhumvit 63 Road(Ekamai), Klongtonnua, Wattana, Bangkok 10110, THAILAND
Tel: +66-2-714-0008 Fax: +66-2-714-0740

那智不二越(上海)貿易有限公司

NACHI (SHANGHAI) CO., LTD.

11F Royal Wealth Center, No.7 Lane 98 Danba Road, Putuo District, Shanghai, 200062, CHINA
Tel: +86-(0)21-6915-2200 Fax: +86-(0)21-6915-5427

重慶分公司

CHONGQING BRANCH

Room 17-18/17-19, Tower C, Hongding Guoji Mingyuan, Jiangbei District, Chongqing 400020, CHINA
Tel: +86-(0)23-8816-1967 Fax: +86-(0)23-8816-1968

瀋陽分公司

SHENYANG BRANCH

Room 610, Tower A, Wensu Road, Hunnan New District, Shenyang (Singapore Industry Park) 110179, CHINA
Tel: +86-(0)24-3120-2252

北京分公司

BEIJING BRANCH

Room 1110, Kuntai International Mansion, Building O, Yi No.12 Chao Wai Street, Chao yang District, Beijing 100020, CHINA
Tel: +86-(0)10-5879-0181 Fax: +86-(0)10-5879-0182

NACHI-FUJIKOSHI CORP. TAIPEI REPRESENTATIVE OFFICE

No.109, Kao Young North Rd, Lung-Tan Hsien, Tao-Yuan Hsien, TAIWAN
Tel: +886-(0)3-411-7776 Fax: +886-(0)3-471-8402

NACHI-FUJIKOSHI CORP. KOREA REPRESENTATIVE OFFICE

2F Dongsan Bldg. 276-4, Sungsu 2GA-3DONG Sungdong-Ku. Seoul 133-831, KOREA
Tel: +82-(0)2-469-2254 Fax: +82-(0)2-469-2264

NACHI-FUJIKOSHI CORP. INDIA REPRESENTATIVE OFFICE

Global Foyer, Unit No.3, 1st Floor, DLF Golf Course Road, Sector-43, Gurgaon, Haryana 122002, INDIA
Tel: +91-124-493-2600 Fax: +91-124-493-2608

NACHI (AUSTRALIA) PTY. LTD.

Unit 1, 23-29 South Street, Rydalmere, N.S.W, 2116, AUSTRALIA
Tel: +61-(0)2-9898-1511 Fax: +61-(0)2-9898-1678
URL: <http://www.nachi.com.au/>

Overseas Manufacturing Companies

NACHI TECHNOLOGY INC.

713 Pushville Road, Greenwood, Indiana, 46143, U.S.A.
Tel: +1-317-535-5000 Fax: +1-317-535-8484
URL: <http://www.nachitech.com/>

NACHI TOOL AMERICA INC.

717 Pushville Road, Greenwood, Indiana, 46143, U.S.A.
Tel: +1-317-535-0320 Fax: +1-317-535-0983

NACHI BRASIL LTDA.

Avenida João XXIII, No.2330, Jardim São Pedro, Mogi das Cruzes, S.P., BRASIL, CEP 08830-000
Tel: +55-11-4793-8800 Fax: +55-11-4793-8870
URL: <http://www.nachi.com.br/>

NACHI CZECH s.r.o.

Prumyslova 2732, 440 01 Louny, CZECH
Tel: +420-415-930-930 Fax: +420-415-930-940

NACHI TECHNOLOGY (THAILAND) CO., LTD.

5/5 M, 2, Rojana Industrial Estate Nongbua, Ban Khai, Rayong, 21120, THAILAND
Tel: +66-38-961-682 Fax: +66-38-961-683

NACHI INDUSTRIES PTE. LTD.

No.2 Joo Koon Way, Jurong Town, Singapore 628943, SINGAPORE
Tel: +65-68613944 Fax: +65-68611153
URL: <http://www.nachinip.com.sg/>

NACHI PILIPINAS INDUSTRIES, INC.

1st Avenue, Manalac Compound, Sta. Maria Industrial Estate, Bagumbayan, Taguig, Metro Manila, PHILIPPINES
Tel: +63-(0)2-838-3620 Fax: +63-(0)2-838-3623

NACHI MOTHERSON PRECISION LTD.

179, Sector4, IMT Manesar, District Gurgaon-122 050, Haryana, INDIA
Tel: +91-124-4936-000 Fax: +91-124-4936-022

NACHI MOTHERSON TOOL TECHNOLOGY LTD.

D-59-60, Sector-6, Noida 201301, Distt. Gautam Budh Nagar, U.P.INDIA
Tel: +91-120-425-8372 Fax: +91-120-425-8374

建越工業股份有限公司

NACHI C.Y. CORP.

No.109, Kao Young North Rd, Lung-Tan Hsien, Tao-Yuan Hsien, TAIWAN
Tel: +886-(0)3-471-7651 Fax: +886-(0)3-471-8402

東莞建越精密軸承有限公司

DONGGUAN NACHI C.Y. CORPORATION

Dangyong Village, Hongmei Town Dongguan City, Guangdong, CHINA
Tel: +86-(0)769-8843-1300 Fax: +86-(0)769-8843-1330

上海不二越精密軸承有限公司

SHANGHAI NACHI BEARINGS CO., LTD.

Yitong Industry Zone 258, Fengmao Rd. Malu Town, Jiading, Shanghai 201801, CHINA

Tel: +86-(0)21-6915-6200 Fax: +86-(0)21-6915-6202

那智不二越(上海)精密工具有限公司

NACHI (SHANGHAI) PRECISION TOOLS CO., LTD.

Yitong Industry Zone 258, Fengmao Rd. Malu Town, Jiading, Shanghai 201801, CHINA

Tel: +86-(0)21-6915-7200 Fax: +86-(0)21-6915-7669

大成NACHI油圧工業(株)

DAESUNG-NACHI HYDRAULICS CO., LTD.

289-22, Yusan-Dong, Yangsan-Si, GyeongNam 626-230, KOREA
Tel: +82-(0)55-371-9700 Fax: +82-(0)55-384-3270

The appearance and specifications may be changed without prior notice if required to improve performance.

Every care has been taken to ensure the accuracy of the information contained in this catalog but no liability can be accepted for any errors or omissions.