



LIFE IN MOTION!!!!

BALTIC BEARING COMPANY-RIGA

**PRODUCT CATALOGUE
KATALOG PRODUKTÓW**



BALTIC BEARING COMPANY-RIGA

2023

Content

| | |
|--|------------|
| About the company | 6 |
| Quality control | 8 |
| Basic information about bearings | 10 |
| Bearings types | 20 |
| Bearings classification | 22 |
| Designation system | 23 |
| Boundary dimensions and tolerances | 23 |
| Tolerance class | 26 |
| Procedure of bearing products handling at the customer's warehouses and lines | 34 |
| Products datasheets | 40 |
| Deep groove ball bearings | 40 |
| Angular contact ball bearings | 62 |
| Thrust ball bearings | 74 |
| Cylindrical bearings | 82 |
| Tapered bearings | 110 |
| Spherical roller bearings | 130 |
| Spherical plain bearings | 140 |
| Spherical ball bearing inserts and bearing units | 150 |
| Contacts | 160 |

Spis treści

| | |
|---|-----|
| O nas | 7 |
| Kontrola jakości | 9 |
| Podstawowe informacje o łożyskach | 10 |
| Rodzaje łożysk | 20 |
| Klasyfikacja łożysk | 22 |
| System oznaczenia | 23 |
| Wymiary i tolerancje | 24 |
| Klasa dokładności | 26 |
| Obsługa wyrobów łożyskowych w magazynach i u klientów | 35 |
| Tabele produktów | 40 |
| Łożyska kulkowe zwykłe | 40 |
| Łożyska kulkowe skośne | 62 |
| Łożyska kulkowe wzdłużne (oporowe) | 74 |
| Łożyska walcowe | 82 |
| Łożyska stożkowe | 110 |
| Łożyska baryłkowe | 130 |
| Łożyska ślizgowe | 140 |
| Zespoły łożyskowe | 150 |
| Kontakt | 160 |





Group of companies «Baltic Bearing Company» is delighted to welcome our current and future partners.

The BBC group specializes in production of ball, tapered, cylindrical, spherical, spherical plain bearings, spherical ball bearing inserts and bearing units. Having large production facilities and modern, high precision equipment, the company is able to produce a wide range of bearings.

The strategic goal of the company is to establish itself as one of the leaders on the European and CIS markets.

This goal is to be achieved by means of a good balance of consistent high quality of products and competitive prices.

The BBC group masters new different products types, works to improve its scientific and technical potential and introduces stateoftheart technologies. We are sure that our efforts will result in further development of mutually beneficial cooperation!

Grupa przedsiębiorstw Baltic Bearing Company ma przyjemność powitać obecnych i przyszłych partnerów.

Grupa przedsiębiorstw BBC specjalizuje się w produkcji łożysk kulkowych, stożkowych, walcowych, baryłkowych, ślizgowych oraz opraw łożyskowych. Potężne zaplecze produkcyjne i nowoczesne urządzenia o wysokiej precyzji pozwalają spółce na produkcję szerokiej gamy łożysk.

Strategicznym celem firmy jest zajęcie jednej z czołowych pozycji na rynkach Europy i WNP.

Cel ten jest osiąganý dzięki zachowaniu równowagi pomiędzy niezmiennie wysoką jakością produktów a konkurencyjnymi cenami.

BBC opanowuje nowe rodzaje produktów, wzmacnia potencjał naukowy i technologiczny oraz wprowadza nowoczesne technologie.

Jesteśmy przekonani, że nasze dążenia doprowadzą do dalszego rozwoju wzajemnie korzystnej współpracy.



ABOUT THE COMPANY



Group of companies Baltic Bearing Company (corporate brand «BBC» and «BBC-R») is a state-of-the-art enterprise equipped with modern production and measurement equipment with the quality management system conforming to the requirements of ISO9001, ISO14001, ISO50001, IATF16949 series standards.

Manufacturing equipment allows to produce a wide range of bearings, from single row radial ball bearings to plain bearings. All precision equipment is in conformity with the requirements of EU standards that guarantees its safe operation and will ensure high quality manufacture of products. All the equipment in the production workshop is installed as short automatic process lines classified by the

constructive groups of ground work pieces. Workshops are equipped with modern machining centers and CNC systems, grinding machines, assembly lines, which have EU certificates and widely used in Europe, Asia and the USA.

The statistical quality control techniques and automation systems of all processes are applied on all operations, providing high efficiency, reliability and stability of the equipment.

All production lines are equipped with up-to-date automatic quality control systems, ensuring consistent high quality of manufactured parts.

O NAS



Grupa Baltic Bearing Company (marka korporacyjna BBC-R) to przedsiębiorstwo wyposażone w nowoczesny sprzęt produkcyjny i pomiarowy, posiadające system zarządzania jakością zgodny z wymaganiami norm ISO9001, ISO14001, ISO50001 oraz IATF16949. Wyposażenie technologiczne zakładu produkcyjnego BBC pozwala na produkcję szerokiej gamy łożysk, od jednorzędowych łożysk kulkowych poprzecznych po łożyska przegubowe. Wszystkie nasze urządzenia są precyzyjnie zamontowane w postaci krótkich linii automatycznych, rozmieszczonych według grup konstrukcyjnych obrabianych detali; sprzęt spełnia wymagania norm UE, co gwarantuje bezpieczną pracę i pozwala na wytwarzanie produktów wysokiej jakości.

W warsztatach produkcyjnych zainstalowane są nowoczesne centra obróbcze z urządzeniami CNC, szlifierki do płaszczyzn i bezkłowe, linie montażowe szeroko stosowane w Europie, Azji i USA.

Na wszystkich operacjach wdrożone są metody kontroli statystycznej i systemy automatyzacji wszystkich procesów technologicznych, co zapewnia wysoką wydajność, niezawodność i stabilność urządzeń. Wszystkie nasze linie produkcyjne wyposażone są w nowoczesne zautomatyzowane kompleksy sterowania, co zapewnia niezmiennie wysoką jakość produkowanych części.



QUALITY CONTROL

A three-stage system of control is organized at the plant: incoming inspection of supplied materials and work pieces, periodical inspection of bearing parts grinding and acceptance inspection of finished bearings. State-of-the-art dust-free materials and technologies were used to construct the laboratory premises. The entrance to the laboratory is equipped with an air lock chamber. Temperature and air cleanness in the laboratory are ensured by an autonomous ventilation system. All this provides for a microclimate that conforms to all standards ensuring consistency and high quality of measurements.

The laboratory is equipped with up-to-date high-precision equipment from leading producers, enabling the company to carry out a wide range of bearings and bearing parts investigations, such as:

- measuring of micro- and macro geometric parameters (roughness, out-of-roundness, cylindricality, planarity, straightness, ripple, etc.);
- linear and angular measurements;
- metallographic testing (steel make, structure, hardness, presence of grinding burns);
- samples testing for load at failure;
- vibration control;
- visual examination of surface defects;
- contamination and magnetization analysis;
- certification and periodic verification of reference measuring instruments.

To carry out high-quality investigation, the laboratory is equipped with all necessary equipment for samples preparation: cutting machine, thermal press, grinding and polishing machine, chemical pickling cells.

The plant is equipped with more than 40 types of manual inspection tools to carry out an incoming inspection of raw material and components as well as bearing parameters during grinding.

To verify samples used for adjustment of manual inspection tools, a length gage is purchased and put into operation.



Plant Laboratory is equipped with up-to-date high-precision equipment



KONTROLA JAKOŚCI



W przedsiębiorstwie działa trzystopniowy system kontroli: kontrola przychodzących materiałów

i półfabrykatów, okresowa kontrola obróbki części łożysk oraz kontrola odbiorcza gotowych

łożysk. Przy budowie pomieszczeń laboratoryjnych zastosowano nowoczesne materiały i technologie bezpyłowe. Wejście do laboratorium wyposażone jest w komorę szluzową. Temperaturę i czystość powietrza w laboratorium zapewnia niezależny system wentylacyjny. Wszystko to pozwala na stworzenie mikroklimatu zgodnego z wszelkimi przepisami, zapewniając stabilność i jakość pomiarów. Laboratorium wyposażone jest w nowoczesną, precyzyjną aparaturę wiodących producentów, która pozwala na prowadzenie szerokiego zakresu badań łożysk i ich części, m.in.

- pomiar parametrów mikro- i makrogeometrii (chropowatość, odchylenie od kształtu kulistego, walcowego, płaskość, prostoliniowość, falistość itp;)

- pomiary liniowo-kątowe;

- badanie metalograficzne (gatunek, struktura stali, twardość, ślady szlifowania);

- próba obciążeniowa materiału na wytrzymałość;

- kontrola poziomu wibracji;

- wizualne badanie wad powierzchni;

- badanie zanieczyszczeń i magnetyzacji;

- certyfikacja i okresowa weryfikacja referencyjnych przyrządów pomiarowych.

Do badań jakościowych laboratorium wyposażone jest we wszystkie niezbędne urządzenia do przygotowania próbek: przecinarkę, prasę termiczną, szlifierkę i polerkę, chemiczne wanny trawiące. Posiada ponad 40 typów urządzeń do ręcznej kontroli wymaganych parametrów części łożysk i wyrobów gotowych na wszystkich etapach produkcji: kontrola przychodzących materiałów i półfabrykatów, procesy obróbki i montażu. Do atestacji wzorców stosowanych przy regulacji ręcznej urządzeń sterujących zakupiono i uruchomiono kalibrator długości

Laboratorium zakładu jest wyposażony w nowoczesne urządzenia





BASIC INFORMATION ABOUT BEARINGS

BEARINGS TYPES



DEEP GROOVE BALL BEARINGS ŁOŻYSKA KULKOWE ZWYKŁE

page
strona

SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE JEDNORZĘDOWE

40

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH A SEAL ON BOTH SIDES AND ADAPTER SLEEVE

ŁOŻYSKA KULKOWE JEDNORZĘDOWE USZCZELNIONE Z TULEJĄ

50

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH A SEAL ON BOTH SIDES, SPHERICAL MOUNTING SURFACE OF THE OUTER RING AND ADAPTER SLEEVE

ŁOŻYSKA KULKOWE JEDNORZĘDOWE Z USZCZELNIENIEM DWUSTRONNYM I SFERYCZNYM
PIERŚCIENIEM ZEWNĘTRZNYM

50

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH A SEAL ON BOTH SIDES AND SPHERICAL MOUNTING SURFACE OF THE OUTER RING

ŁOŻYSKA KULKOWE JEDNORZĘDOWE Z USZCZELNIENIEM DWUSTRONNYM,
SFERYCZNYM PIERŚCIENIEM ZEWNĘTRZNYM I TULEJĄ NOŚNĄ

50

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH A GROOVE ON THE OUTER RING AND GROOVE FOR THE BALL FITTING

ŁOŻYSKA KULKOWE JEDNORZĘDOWE Z ROWKIEM NA PIERŚCIEŃ OSADCZY (SEGERA) NA
PIERŚCIENIU ZEWNĘTRZNYM ŁOŻYSKA ORAZ Z ROWKIEM MONTAŻOWYM DLA KULEK

52

CLOSED SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE JEDNORZĘDOWE ZAMKNIĘTE

52

PODSTAWOWE INFORMACJE O ŁOŻYSKACH

RODZAJE ŁOŻYSK



RADIAL BALL BEARINGS ŁOŻYSKA KULKOWE ZWYKŁE

page
strona

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH PROTRUDING INNER RING

ŁOŻYSKA KULKOWE JEDNORZĘDOWE Z WYSTAJĄCYM PIERŚCIENIEM
WEWNĘTRZNYM

53

DOUBLE ROW DEEP GROOVE BALL BEARINGS WITH SHAFT INSTEAD OF INNER RING

ŁOŻYSKA KULKOWE Z WAŁEM ZAMIAST PIERŚCIENIA WEWNĘTRZNEGO

53

BELT TENSIONER

ROLKI NAPINAJĄCE

54

SELF-ALIGNING DOUBLE ROW BALL BEARINGS

ŁOŻYSKA KULKOWE DWURZĘDOWE WAHLIWE Z OTWOREM CYLINDRYCZNYM

55

DOUBLE ROW SPHERICAL BALL BEARINGS WITH CYLINDRICAL BORE

ŁOŻYSKA KULKOWE DWURZĘDOWE WAHLIWE Z OTWOREM CYLINDRYCZNYM

56

DOUBLE ROW SPHERICAL BALL BEARINGS WITH ADAPTER SLEEVE

ŁOŻYSKA KULKOWE WAHLIWE Z TULEJĄ

59



BASIC INFORMATION ABOUT BEARINGS

BEARINGS TYPES



ANGULAR CONTACT BALL BEARINGS

ŁOŻYSKA KULKOWE SKOŚNE

page
strona

ANGULAR CONTACT BALL BEARINGS
ŁOŻYSKA KULKOWE SKOŚNE

62

SINGLE ROW ANGULAR CONTACT BALL BEARINGS
ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE JEDNOCZĘŚCIOWE

64

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS
ŁOŻYSKA KULKOWE SKOŚNE DWURZĘDOWE

70

SPECIALLY DESIGNED SINGLE ROW ANGULAR CONTACT BALL BEARINGS
ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE O SPECJALNEJ KONSTRUKCJI
72

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS WITH GROOVE FOR THE BALL FITTING
ŁOŻYSKA KULKOWE SKOŚNE DWURZĘDOWE Z ROWKIEM DO MONTAŻU KULEK

73

PODSTAWOWE INFORMACJE O ŁOŻYSKACH

RODZAJE ŁOŻYSK

| | | |
|---|---|------------------------|
| | <p>THRUST BALL BEARINGS ŁOŻYSKA KULKOWE WZDŁUŻNE (OPOROWE)</p> | <p>page strona</p> |
| <p>THRUST BALL BEARINGS ŁOŻYSKA KULKOWE WZDŁUŻNE 74</p> | | |
| <p>SINGLE DIRECTION THRUST BALL BEARINGSS ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE 76</p> | | |
| <p>THRUST BALL BEARINGS WITH PROTECTIVE COVER ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE ZAMKNIĘTE 79</p> | | |
| <p>DESIGNED THRUST BALL BEARINGS ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE O SPECJALNEJ KONSTRUKCJI 80</p> | | |
| <p>THRUST BALL BEARINGS WITH PROTECTIVE COVER ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE Z OCHRONNĄ POKRYWĄ 80</p> | | |
| <p>THRUST BALL BEARINGS WITH TWO INNER RINGS ŁOŻYSKA SKOŚNE DWUKIERUNKOWE Z DZIELONYM PIERŚCIENIEM WEWNĘTRZNYM 81</p> | | |



BASIC INFORMATION ABOUT BEARINGS

BEARINGS TYPES



CYLINDRICAL ROLLER BEARINGS ŁOŻYSKA WALCOWE

page
strona

CYLINDRICAL ROLLER BEARINGS

ŁOŻYSKA WALCOWE

82

CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE INNER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU ZEWNĘTRZNYM

84

CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE OUTER RING

ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU ZEWNĘTRZNYM

89

CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE INNER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU WEWNĘTRZNYM

92

CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE INNER RING

ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM

98

CYLINDRICAL ROLLER BEARINGS WITH TWO INTEGRAL RIBS ON THE OUTER RING, ONE INTEGRAL RIB AND ONE LOOSE RIB ON THE INNER RING

ŁOŻYSKA WALCOWE Z DWOMA KOŁNIERZAMI NA PIERŚCIENIU ZEWNĘTRZNYM,
EDNYM KOŁNIERZEM ZINTEGROWANYM I JEDNYM WOLNYM KOŁNIERZEM
NA PIERŚCIENIU WEWNĘTRZNYM.

103

PODSTAWOWE INFORMACJE O ŁOŻYSKACH

RODZAJE ŁOŻYSK



CYLINDRICAL ROLLER BEARINGS ŁOŻYSKA WALCOWE

page
strona

CYLINDRICAL ROLLER BEARINGS WITH SHORT CYLINDRICAL ROLLERS WITH INTEGRAL RIBS ON OUTER RING AND WITHOUT INNER RING

ŁOŻYSKA WALCOWE Z KRÓTKIMI ROLKAMI CYLINDRYCZNYMI Z KOŁNIERZAMI NA PIERŚCIENIU ZEWNĘTRZNYM I BEZ PIERŚCIENIA WEWNĘTRZNEGO

107

CYLINDRICAL ROLLER BEARINGS WITH SHORT CYLINDRICAL ROLLERS WITH TWO INTEGRAL RIBS ON THE INNER AND OUTER RINGS WITH A PROTRUDING INNER RING

ŁOŻYSKA WALCOWE DWURZĘDOWE Z KOŁNIERZAMI NA PIRŚCIENIU ZEWNĘTRZNYM ORAZ WYSTAJĄCYMI PIERŚCIENIAMI WEWNĘTRZNYMI

108

SINGLE ROW RADIAL NEEDLE ROLLER BEARINGS (WITH LONG CYLINDRICAL ROLLERS) WITHOUT RIBS ON THE OUTER RING

ŁOŻYSKA IGEŁKOWE Z KOŁNIERZAMI NA PIRŚCIENIU WEWNĘTRZNYM I BEZ KOŁNIERZY NA PIERŚCIENIU ZEWNĘTRZNYM

108

SINGLE ROW RADIAL NEEDLE ROLLER BEARINGS (WITH LONG CYLINDRICAL ROLLERS) WITHOUT RINGS

ZŁOŻENIE IGEŁKOWE JEDNORZĘDOWE

109



BASIC INFORMATION ABOUT BEARINGS

BEARINGS TYPES



TAPERED ROLLER BEARINGS ŁOŻYSKA STOŻKOWE

page
strona

TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE

110

SINGLE ROW TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE

110

SINGLE ROW TAPERED ROLLER BEARINGS WITH LARGE CONE ANGLE

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE O DUŻYM KĄCIE STOŻKA

123

DOUBLE ROW TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE DWURZĘDOWE

126

DOUBLE ROW TAPERED ROLLER BEARINGS WITH SEALS

ŁOŻYSKA STOŻKOWE DWURZĘDOWE Z USZCZELNIENIEM

129

PODSTAWOWE INFORMACJE O ŁOŻYSKACH

RODZAJE ŁOŻYSK

| | | |
|--|---|------------------------|
| | <p>SPHERICAL ROLLER BEARINGS ŁOŻYSKA BARYŁKOWE</p> | <p>page strona</p> |
|--|---|------------------------|

| | |
|--|------------|
| <p>SPHERICAL ROLLER BEARINGS ŁOŻYSKA BARYŁKOWE</p> | <p>130</p> |
| <p>SPHERICAL ROLLER BEARINGS WITH RIBS ON THE INNER RING ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z KOŁNIERZAMI NA PIERŚCIENIU WEWNĘTRZNYM</p> | <p>132</p> |
| <p>SPHERICAL ROLLER BEARINGS WITH THE RIBLESS INNER RING ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, BEZ KOŁNIERZY NA PIERŚCIENIU WEWNĘTRZNYM</p> | <p>132</p> |
| <p>SPHERICAL ROLLER BEARINGS ON THE INNER RING WITH TAPERED BORE , TAPER 1:12 ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM STOŻKOWYM NA PIERŚCIENIU WEWNĘTRZNYM, ZBIEŻNOŚĆ 1:12</p> | <p>132</p> |
| <p>SPHERICAL ROLLER BEARINGS ON THE INNER RING WITH TAPERED BORE , TAPER 1:30 ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM STOŻKOWYM NA PIERŚCIENIU WEWNĘTRZNYM, ZBIEŻNOŚĆ 1:30</p> | <p>132</p> |



BASIC INFORMATION ABOUT BEARINGS

BEARINGS TYPES

| | | |
|---|---|----------------|
|  | SPHERICAL PLAIN BEARINGS ŁOŻYSKA PRZEGUBOWE | page strona |
|---|---|----------------|

SPHERICAL PLAIN BEARINGS

ŁOŻYSKA PRZEGUBOWE

140

SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN THE INNER RING AND WITH THE OUTER RING FRACTURED AT ONE POINT

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI DO SMAROWANIA W PIERŚCIENIU
WEWNĘTRZNYM Z POJEDYNCZO DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

142

SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN THE INNER RING AND WITH THE OUTER RING FRACTURED AT TWO POINTS

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI DO SMAROWANIA W PIERŚCIENIU
WEWNĘTRZNYM Z PODWÓJNIE DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

143

SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN THE INNER RING

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI DO SMAROWANIA W PIERŚCIENIU
WEWNĘTRZNYM

144

SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN THE INNER RING AND WITH THE OUTER RING FRACTURED AT TWO POINTS

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI SMAROWYMI W PIERŚCIENIU
WEWNĘTRZNYM I ZEWNĘTRZNYM

145

SPHERICAL PLAIN BEARINGS WITHOUT LUBRICATION GROOVES AND HOLES AND WITH THE OUTER RING FRACTURED AT ONE POINT

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE BEZ OTWORÓW I ROWKÓW SMAROWYCH Z
POJEDYNCZO DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

146

PODSTAWOWE INFORMACJE O ŁOŻYSKACH

RODZAJE ŁOŻYSK



SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN BOTH RINGS AND WITH THE OUTER RING FRACTURED AT ONE POINT

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI SMARNYMI NA PIERŚCIENIU WEWNĘTRZNYM I ZEWNĘTRZNYM Z POJEDYNCZO DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

147

SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN BOTH RINGS AND WITH THE OUTER RING FRACTURED AT TWO POINTS

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI SMAROWYMI W PIERŚCIENIU WEWNĘTRZNYM I ZEWNĘTRZNYM Z PODWÓJNIE DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

148

SPHERICAL PLAIN BEARINGS WITH A SEAL ON BOTH SIDES, LUBRICATION GROOVES AND HOLES IN BOTH RINGS AND WITH THE OUTER RING FRACTURED AT ONE POINT

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z DWUSTRONNYM USZCZELNIENIEM, OTWORAMI I ROWKAMI DO SMAROWANIA NA PIERŚCIENIACH WEWNĘTRZNYCH I ZEWNĘTRZNYCH Z POJEDYNCZO DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

149



BASIC INFORMATION ABOUT BEARINGS

BEARINGS TYPES

| | | |
|---|---|----------------|
|  | SPHERICAL BALL BEARING INSERTS AND BEARING UNITS ŁOŻYSKA KULKOWE SAMONASTAWNE Z OPRAWĄ | page strona |
|---|---|----------------|

SPHERICAL BALL BEARING INSERTS AND BEARING UNITS

ŁOŻYSKA KULKOWE SAMONASTAWNE Z OPRAWĄ

150

SPHERICAL BALL BEARING INSERTS UC200 AND UC300 SERIES

ŁOŻYSKA KULKOWE SAMONASTAWNE ZE SFERYCZNYM PIERŚCIENIEM
ZEWNĘTRZNYM SERII UC200 I UC300

152

MOUNTED BEARING UNIT. UCP200 AND UCP300 SERIES 2-BOLT FLANGED OVAL UNIT

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCP200 I UCP300

153

MOUNTED BEARING UNIT UCF200 AND UCF300 SERIES 4BOLT

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCF200 I UCF300

154

MOUNTED BEARING UNIT UCFL200 AND UCFL300 SERIES 2-BOLT FLANGED OVAL UNIT

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCFL200 I UCFL300

155

MOUNTED BEARING UNIT UCPA200 SERIES PILLOW BLOCK

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCPA200

156

PODSTAWOWE INFORMACJE O ŁOŻYSKACH

RODZAJE ŁOŻYSK



SPHERICAL BALL BEARING INSERTS AND BEARING UNITS ŁOŻYSKA KULKOWE SAMONASTAWNE Z OPRAWĄ

page
strona

MOUNTED BEARING UNIT. UCT200 AND UCT300 SERIES TAKEUP UNIT

157

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCT200 I UCT300

MOUNTED BEARING UNIT. UCFC200 SERIES 4BOLT CARTRIDGE FLANGED UNIT

158

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCFC200

RADIAL INSERT BALL BEARINGS UK200 AND UK300 SERIES

ŁOŻYSKA SAMONASTAWNE ZE SFERYCZNYM PIERSCIENIEM ZEWNĘTRZNYM I OTWOREM STOŻKOWYM

159



BASIC INFORMATION ABOUT BEARINGS PODSTAWOWE INFORMACJE O ŁOŻYSKACH

BEARINGS CLASSIFICATION

KLASYFIKACJA ŁOŻYSK

| BEARING CLASSIFICATION BY THE MAIN FEATURES KLASYFIKACJA ŁOŻYSK NA PODSTAWIE CECH GŁÓWNYCH | | |
|--|---|--|
| BY LOAD DIRECTION TO THE BEARING AXIS WG KIERUNKU PRZENOSZONEGO OBCIĄŻENIA W STOSUNKU DO OSI WAŁU | radial | promieniowe |
| | angular contact | skośne |
| | trust radial | oporowe promieniowe |
| | trust | oporowe |
| BY ROLLING ELEMENTS SHAPE WG KSZTAŁTU ELEMENTÓW TOCZNYCH | ball | kulkowe |
| | roller | rolkowe |
| | combined | kombinowane |
| BY ROLLING ELEMENTS ROW NUMBER W ZALEŻNOŚCI OD LICZBY RZĘDÓW ELEMENTÓW TOCZNYCH W ŁOŻYSKU | single row | jednorzędowe |
| | double row | dwurzędowe |
| | four row | czterorzędowe |
| | multi row | wielorzędowe |
| BY PERMISSIBLE MISALIGNMENT W ZAKRESIE PODATNOŚCI NA NIEWSPÓŁOSIOWOŚĆ | self-aligning | samonastawne |
| | non-self-aligning | niesamonastawne |
| BY DESIGN CONSIDERATION WG OBECNOŚCI OSŁONY WEWNĘTRZNEJ SZCZELINY ŁOŻYSKA | with a shield | łożyska z blaszkami ochronnymi |
| | with a seal | łożyska z uszczelkami |
| BY MOUNTING METHOD WEDŁUG METODY INSTALACJI | with a lock washer on the outer ring | łożyska z pierścieniem osadczym na pierścieniu zewnętrznym |
| | with a thrust flange on the outer ring | łożyska z kołnierzem oporowym na pierścieniu zewnętrznym |
| | with adapter or withdrawal sleeves | łożyska z tulejami ustalającymi lub sprzęgającymi |

DESIGNATION SYSTEM SYSTEM OZNACZENIA

The complete bearing designation consist of a basic designation and additional designations. Additional designation is located before (prefix) and after (suffix) a basic designation.

The basic bearing designation identifies its type, bore diameter, diameter and width series, design version. This designation stands for the standard bearing design.

The additional bearing designation identifies a tolerance class, radial clearance and other technical requirements.

The combination of a basic and additional designations constitutes a complete bearing designation.

Bearings should be marked with a bearing designation, a manufacturer name and a symbol of the year release. Bearings of the Baltic Bearing Company should contain the following manufacturer symbols: BBC-R Latvia.

BEARING DESIGNATION EXAMPLE

przykład oznaczenia łożyska

NF312/P6

7314 AC

22318 CC/C3W33



Oznaczenie łożyska składa się z oznaczenia głównego i oznaczenia dodatkowego.

Dodatkowe oznaczenie jest umieszczone przed (prefiks) i po (sufiks) głównym oznaczeniu.

Podstawowe oznaczenie łożyska w postaci znaków liczbowych charakteryzuje jego typ, wielkość średnicy wewnętrznej, szereg średnic i szerokości oraz jego oznaczenie konstrukcyjne. Oznaczenie to charakteryzuje podstawowe przeznaczenie łożyska.

Dodatkowe oznaczenie łożyska w postaci znaków numerycznych i alfabetycznych charakteryzuje klasę dokładności, luz promieniowy i inne parametry techniczne.

Kombinacja oznaczenia podstawowego i oznaczenia dodatkowego stanowi pełne oznaczenie łożyska.

Łożyska powinny być oznaczone własnym oznaczeniem, oznaczeniem producenta i symbolem roku produkcji. Łożyska Baltic Bearing Company powinny być oznaczone następującym oznaczeniem producenta: BBC-R Łotwa.



BOUNDARY DIMENSIONS AND TOLERANCES

Tolerances and rotational precisions of bearings are regulated by international standards. In addition to the standard precision class, the ISO standards also specify higher-class tolerances, such as class P6.

The tolerance symbols and their definitions are shown in the table below.

Tolerancje i dokładności łożysk tocznych są regulowane przez normy międzynarodowe. Oprócz normalnej klasy dokładności, normy ISO regulują również tolerancje bardziej precyzyjnych klas, np. klasy dokładności P6.

Symbole tolerancji i ich definicje są przedstawione w poniższej tabeli.

| Inner and outer ring | | Pierścień wewnętrzny i zewnętrzny | |
|-------------------------------|---|-----------------------------------|--|
| d | Hole diameter ŚREDNICA WEWNĘTRZNA | | |
| D | Outer diameter ŚREDNICA ZEWNĘTRZNA | | |
| B | Inner ring width SZEROKOŚĆ PIERŚCIENIA WEWNĘTRZNEGO | | |
| C | Outer ring width SZEROKOŚĆ PIERŚCIENIA ZEWNĘTRZNEGO | | |
| Δdmp | 1. Cylindrical hole: average hole diameter deviation on one plane 2. Conical hole: theoretically lower hole diameter deviation on one plane 1. Otwór cylindryczny: odchylenie średniej średnicy otworu w jednej płaszczyźnie 2. Otwór stożkowy: odchylenie teoretycznie mniejszej średnicy otworu w pojedynczej płaszczyźnie | | |
| Vdsp | Hole diameter variation on one plane Zmienność średnicy otworu w jednej płaszczyźnie | | |
| Vdmp | Average hole diameter variation Zmienność średniej średnicy otworu | | |
| ΔBs | Inner ring single width deviation Odchylenie szerokości pojedynczej pierścienia wewnętrznego | | |
| VBs | Inner ring width variation Zmienność szerokości pierścienia wewnętrznego | | |
| Kia; Kea | Radial play of the inner ring in an assembled bearing; radial play in the outer ring of an assembled bearing Bicie promieniowe pierścienia wewnętrznego zmontowanego łożyska; bicie promieniowe pierścienia zewnętrznego zmontowanego łożyska | | |
| ΔDmp | Average outer diameter deviation on one plane Odchylenie średnicy zewnętrznej w jednej płaszczyźnie | | |
| VDsp | Outer diameter variation on one plane Zmienność średnicy zewnętrznej w jednej płaszczyźnie | | |
| VDmp | Average hole diameter variation Zmienność średniej średnicy otworu | | |
| ΔCs | Outer ring single width deviation ODCHYLENIE SZEROKOŚCI POJEDYNCZEGO PIERŚCIENIA ZEWNĘTRZNEGO | | |
| VCs | Outer ring width variation ZMIENNOŚĆ SZEROKOŚCI PIERŚCIENIA ZEWNĘTRZNEGO | | |



WYMIARY I ZAKRESY TOLERANCJI

| Tapered roller bearings | | Łożyska stożkowe |
|-------------------------|---|----------------------------|
| ΔT_s | Actual assembled bearing width deviation ODCHYLENIE RZECZYWISTEJ SZEROKOŚCI ZMONTOWANEGO ŁOŻYSKA | |
| ΔT_{1s} | Actual assembled bearing inner bearing subgroup width deviation ODCHYLENIE RZECZYWISTEJ SZEROKOŚCI PODZESPOŁU WEWNĘTRZNEGO ZMONTOWANEGO ŁOŻYSKA | |
| ΔT_{2s} | Actual assembled bearing outer ring width deviation ODCHYLENIE RZECZYWISTEJ SZEROKOŚCI PIERŚCIENIA ZEWNĘTRZNEGO ZMONTOWANEGO ŁOŻYSKA | |
| Thrust bearings | | Łożyska wzdłużne (oporowe) |
| d | Single bearing tight ring hole diameter ŚREDNICA OTWORU PIERŚCIENIA WEWNĘTRZNEGO ŁOŻYSKA POJEDYNCZEGO | |
| Δd_{mp} | Average single bearing tight ring hole diameter deviation On one plane ODCHYLENIE ŚREDNIEJ ŚREDNICY OTWORU PIERŚCIENIA WEWNĘTRZNEGO POJEDYNCZEGO ŁOŻYSKA W POJEDYNCZEJ PŁASZCZYŹNIE | |
| V_{dsp} | Single diameter variation of the single bearing tight ring hole On one plane ZMIENNOŚĆ POJEDYNCZEJ ŚREDNICY OTWORU PIERŚCIENIA WEWNĘTRZNEGO POJEDYNCZEGO ŁOŻYSKA W POJEDYNCZEJ PŁASZCZYŹNIE | |
| S_i | Tight ring raceway thickness variation relative to the wide face RÓŻNICA W BIEŻNI WEWNĘTRZNEGO PIERŚCIENIA W STOSUNKU DO SZEROKIEGO KOŃCA | |
| D | Free ring outer diameter ŚREDNICA ZEWNĘTRZNA LUŻNEGO PIERŚCIENIA | |
| ΔD_{mp} | Average free ring outer diameter deviation on one plane ODCHYLENIE ŚREDNIEJ ŚREDNICY ZEWNĘTRZNEJ LUŻNEGO PIERŚCIENIA W POJEDYNCZEJ PŁASZCZYŹNIE | |
| V_{Dsp} | Free ring single outer diameter variation on one plane ZMIENNOŚĆ POJEDYNCZEJ ŚREDNICY ZEWNĘTRZNEJ SWOBODNEGO PIERŚCIENIA W POJEDYNCZEJ PŁASZCZYŹNIE | |
| S_e | Free ring raceway thickness variation relative to the wide face RÓŻNICA W BIEŻNI LUŻNEGO PIERŚCIENIA W STOSUNKU DO SZEROKIEJ POWIERZCHNI CZOŁOWEJ | |
| ΔT_s | Single bearing actual height deviation ODCHYLENIE RZECZYWISTEJ WYSOKOŚCI POJEDYNCZEGO ŁOŻYSKA | |
| ΔT_{1s} | Single bearing with a base ring actual height deviation ODCHYLENIE RZECZYWISTEJ WYSOKOŚCI POJEDYNCZEGO ŁOŻYSKA Z PIERŚCIENIEM PODKŁADANYM | |



TOLERANCE CLASS

RADIAL BEARINGS
 (except tapered roller bearings)
 Normal tolerance class
 Inner ring Tolerances, μm

ŁOŻYSKA POPRZECZNE
 (z wyjątkiem łożysk stożkowych)
 Normalna klasa dokładności
 Pierścień wewnętrzny Tolerancje, μm

| d,mm | | Δdmp | | Vdsp | | | Vdmp | Kia | ΔBs | | VBs |
|------|--------|--------------------|--------------|------------------------------------|-----|-------|------|------|-------------------|--------------------|------|
| | | | | diameter series (serie średnic) | | | | | all wszystko | normal normalna | |
| | | | | 7,8,9 | 0,1 | 2,3,4 | | | | | |
| > | \leq | high górna | low dolna | max. | | | max. | max. | high górna | low dolna | max. |
| - | 2,5 | 0 | -8 | 10 | 8 | 6 | 6 | 10 | 0 | -40 | 12 |
| 2,5 | 10 | 0 | -8 | 10 | 8 | 6 | 6 | 10 | 0 | -120 | 15 |
| 10 | 18 | 0 | -8 | 10 | 8 | 6 | 6 | 10 | 0 | -120 | 20 |
| 18 | 30 | 0 | -10 | 13 | 10 | 8 | 8 | 13 | 0 | -120 | 20 |
| 30 | 50 | 0 | -12 | 15 | 12 | 9 | 9 | 15 | 0 | -120 | 20 |
| 50 | 80 | 0 | -15 | 19 | 19 | 11 | 11 | 20 | 0 | -150 | 25 |
| 80 | 120 | 0 | -20 | 25 | 25 | 15 | 15 | 25 | 0 | -200 | 25 |
| 120 | 180 | 0 | -25 | 31 | 31 | 19 | 19 | 30 | 0 | -250 | 30 |
| 180 | 250 | 0 | -30 | 38 | 38 | 23 | 23 | 40 | 0 | -300 | 30 |
| 250 | 315 | 0 | -35 | 44 | 44 | 26 | 26 | 50 | 0 | -350 | 35 |
| 315 | 400 | 0 | -40 | 50 | 50 | 30 | 30 | 60 | 0 | -400 | 40 |
| 400 | 500 | 0 | -45 | 56 | 56 | 34 | 34 | 65 | 0 | -450 | 50 |
| 500 | 630 | 0 | -50 | 63 | 63 | 38 | 38 | 70 | 0 | -500 | 60 |



KLASA DOKŁADNOŚCI

Outer ring Tolerances in, μm

Pierścień zewnętrzny Tolerancje, μm

| D, mm | | ΔDmp | | VDsp ¹⁾ | | | | VDmp ¹⁾ | Kea | ΔCs | | VCs |
|-------|-----|--------------------|--------------|------------------------------------|-----|--|-------|--------------------|------|--|--------------|------|
| | | | | open bearing otwarte łożysko | | capped bearing łożysko kołpakowe ²⁾ | | | | | | |
| | | | | diameter series (serie średnic) | | | | | | | | |
| | | | | 7,8,9 | 0,1 | 2,3,4 | 2,3,4 | | | | | |
| > | ≤ | high górna | low dolna | max. | | | | max. | max. | high górna | low dolna | max. |
| 2,5 | 18 | 0 | -8 | 10 | 8 | 6 | 10 | 6 | 15 | <p>ΔCs and VCs are identical to ΔBs and VBs of the same bearing</p> <p>ΔCs i VCs są identyczne dla ΔBs i VBs tego samego łożyska</p> | | |
| 18 | 30 | 0 | -9 | 12 | 9 | 7 | 12 | 7 | 15 | | | |
| 30 | 50 | 0 | -11 | 14 | 11 | 8 | 16 | 8 | 20 | | | |
| 50 | 80 | 0 | -13 | 16 | 13 | 10 | 20 | 10 | 25 | | | |
| 80 | 120 | 0 | -15 | 19 | 19 | 11 | 26 | 11 | 35 | | | |
| 120 | 150 | 0 | -18 | 23 | 23 | 14 | 30 | 14 | 40 | | | |
| 150 | 180 | 0 | -25 | 31 | 31 | 19 | 38 | 19 | 45 | | | |
| 180 | 250 | 0 | -30 | 38 | 38 | 23 | - | 23 | 50 | | | |
| 250 | 315 | 0 | -35 | 44 | 44 | 26 | - | 26 | 60 | | | |
| 315 | 400 | 0 | -40 | 50 | 50 | 30 | - | 30 | 70 | | | |
| 400 | 500 | 0 | -45 | 56 | 56 | 34 | - | 34 | 80 | | | |
| 500 | 630 | 0 | -50 | 63 | 63 | 38 | - | 38 | 100 | | | |

¹⁾ Applied to bearings prior to mounting and after removal of internal or external snap ring

Ważne dla pierścieni przed montażem i po zdjęciu wewnętrznego lub zewnętrznego pierścienia sprężynowego

²⁾ Capped bearings - sealed or shielded bearings

Zamknięte łożysko - łożysko z uszczelnieniami polimerowymi lub metalowymi



TOLERANCE CLASS

Tolerance class P6

Klasa dokładności P6

Inner ring Tolerances in, μm

Pierścień wewnętrzny Tolerancje, μm

| d, mm | | Δdmp | | Vdsp | | | Vdmp | Kia | ΔBs | | VBs |
|-------|--------|--------------------|--------------|------------------------------------|-----|-------|------|------|-------------------|--------------------|------|
| | | | | diameter series (serie średnic) | | | | | all wszystko | normal normalna | |
| | | | | 7,8,9 | 0,1 | 2,3,4 | | | | | |
| > | \leq | high górna | low dolna | max. | | | max. | max. | high górna | low dolna | max. |
| - | 2,5 | 0 | -7 | 9 | 7 | 5 | 5 | 5 | 0 | -40 | 12 |
| 2,5 | 10 | 0 | -7 | 9 | 7 | 5 | 5 | 6 | 0 | -120 | 15 |
| 10 | 18 | 0 | -7 | 9 | 7 | 5 | 5 | 7 | 0 | -120 | 20 |
| 18 | 30 | 0 | -8 | 10 | 8 | 6 | 6 | 8 | 0 | -120 | 20 |
| 30 | 50 | 0 | -10 | 13 | 10 | 8 | 8 | 10 | 0 | -120 | 20 |
| 50 | 80 | 0 | -12 | 15 | 15 | 9 | 9 | 10 | 0 | -150 | 25 |
| 80 | 120 | 0 | -15 | 19 | 19 | 11 | 11 | 13 | 0 | -200 | 25 |
| 120 | 180 | 0 | -18 | 23 | 23 | 14 | 14 | 18 | 0 | -250 | 30 |
| 180 | 250 | 0 | -22 | 28 | 28 | 17 | 17 | 20 | 0 | -300 | 30 |
| 250 | 315 | 0 | -25 | 31 | 31 | 19 | 19 | 25 | 0 | -350 | 35 |
| 315 | 400 | 0 | -30 | 38 | 38 | 23 | 23 | 30 | 0 | -400 | 40 |
| 400 | 500 | 0 | -35 | 44 | 44 | 26 | 26 | 35 | 0 | -450 | 45 |
| 500 | 630 | 0 | -40 | 50 | 50 | 30 | 30 | 40 | 0 | -500 | 50 |



KLASA DOKŁADNOŚCI

Tolerance class P6

Klasa dokładności P6

Outer ring Tolerances in, μm

Pierścień zewnętrzny Tolerancje, μm

| D, mm | | ΔDmp | | VDsp ¹⁾ | | | | VDmp ¹⁾ | Kea | ΔCs | | VCs |
|-------|-----|--------------------|--------------|------------------------------------|-----|--|-----------|--------------------|------|--|--------------|------|
| | | | | open bearing otwarte łożysko | | c a p p e d bearing łożysko zamknięte | | | | | | |
| | | | | diameter series (serie średnic) | | | | | | | | |
| | | | | 7,8,9 | 0,1 | 2,3,4 | 0,1,2,3,4 | | | | | |
| > | ≤ | high górna | low dolna | max. | | | | max. | max. | high górna | low dolna | max. |
| 2,5 | 18 | 0 | -7 | 9 | 7 | 5 | 9 | 5 | 8 | <p>equal to ΔBs and VBs of the same bearing, respectively</p> <p>ΔBs i VBs są identyczne dla tego samego łożyska</p> | | |
| 18 | 30 | 0 | -8 | 10 | 8 | 6 | 10 | 6 | 9 | | | |
| 30 | 50 | 0 | -9 | 11 | 9 | 7 | 13 | 7 | 10 | | | |
| 50 | 80 | 0 | -11 | 14 | 11 | 9 | 16 | 8 | 13 | | | |
| 80 | 120 | 0 | -13 | 16 | 16 | 10 | 20 | 10 | 18 | | | |
| 120 | 150 | 0 | -15 | 19 | 19 | 11 | 25 | 11 | 20 | | | |
| 150 | 180 | 0 | -18 | 23 | 23 | 14 | 30 | 14 | 23 | | | |
| 180 | 250 | 0 | -20 | 25 | 25 | 15 | - | 15 | 25 | | | |
| 250 | 315 | 0 | -25 | 31 | 31 | 19 | - | 19 | 30 | | | |
| 315 | 400 | 0 | -28 | 35 | 35 | 21 | - | 21 | 35 | | | |
| 400 | 500 | 0 | -33 | 41 | 41 | 25 | - | 25 | 40 | | | |
| 500 | 630 | 0 | -38 | 48 | 48 | 29 | - | 29 | 50 | | | |
| 630 | 800 | 0 | -45 | 56 | 56 | 34 | - | 34 | 60 | | | |

¹⁾ Relevant for rings before mounting and after removing the inner or outer spring ring

Ważne dla pierścieni przed montażem i po zdjęciu wewnętrznego lub zewnętrznego pierścienia sprężynowego

²⁾ Closed bearing: bearing with seals or side plates

Zamknięte łożysko - łożysko z uszczelnieniami polimerowymi lub metalowymi



TOLERANCE CLASS

TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE

Normal tolerance class

Inner ring Tolerances, μm

Normalna Klasa dokładności

Pierścień wewnętrzny Tolerancje, μm

| d, mm | | Δdmp | | Vdsp | Vdmp | ΔBs | | Kia | ΔTs | | ΔT1s | | ΔT2s | |
|-------|--------|--------------------|--------------|------|------|-------------------|--------------|-----|-------------------|--------------|--------------------|--------------|--------------------|--------------|
| > | \leq | high górná | low dolná | | | high górná | low dolná | | high górná | low dolná | high górná | low dolná | high górná | low dolná |
| 10 | 18 | 0 | -12 | 12 | 9 | 0 | -120 | 15 | +200 | 0 | +100 | 0 | +100 | 0 |
| 18 | 30 | 0 | -12 | 12 | 9 | 0 | -120 | 18 | +200 | 0 | +100 | 0 | +100 | 0 |
| 30 | 50 | 0 | -12 | 12 | 9 | 0 | -120 | 20 | +200 | 0 | +100 | 0 | +100 | 0 |
| 50 | 80 | 0 | -15 | 15 | 11 | 0 | -150 | 25 | +200 | 0 | +100 | 0 | +100 | 0 |
| 80 | 120 | 0 | -20 | 20 | 15 | 0 | -200 | 30 | +200 | -200 | +100 | -100 | +100 | -100 |
| 120 | 180 | 0 | -25 | 25 | 19 | 0 | -250 | 35 | +350 | -250 | +150 | -150 | +200 | -100 |
| 180 | 250 | 0 | -30 | 30 | 23 | 0 | -300 | 50 | +350 | -250 | +150 | -150 | +200 | -100 |
| 250 | 315 | 0 | -35 | 35 | 26 | 0 | -350 | 60 | +350 | -250 | +150 | -150 | +200 | -100 |
| 315 | 400 | 0 | -40 | 40 | 30 | 0 | -400 | 70 | +400 | -400 | +200 | -200 | +200 | -200 |



KLASA DOKŁADNOŚCI

TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE

Normal tolerance class

Outer ring Tolerances, μm

Normalna Klasa dokładności

Pierścień zewnętrzny Tolerancje, μm

| D, mm | | ΔDmp | | VDsp | VDmp | ΔCs | | Kea |
|-------|--------|--------------------|--------------|------|------|-------------------|--------------|-----|
| > | \leq | high górna | low dolna | | | high górna | low dolna | |
| 18 | 30 | 0 | -12 | 12 | 9 | 0 | -120 | 18 |
| 30 | 50 | 0 | -14 | 14 | 11 | 0 | -120 | 20 |
| 50 | 80 | 0 | -16 | 16 | 12 | 0 | -150 | 25 |
| 80 | 120 | 0 | -18 | 18 | 14 | 0 | -200 | 35 |
| 120 | 150 | 0 | -20 | 20 | 15 | 0 | -250 | 40 |
| 150 | 180 | 0 | -25 | 25 | 19 | 0 | -250 | 45 |
| 180 | 250 | 0 | -30 | 30 | 23 | 0 | -300 | 50 |
| 250 | 315 | 0 | -35 | 35 | 26 | 0 | -350 | 60 |
| 315 | 400 | 0 | -40 | 40 | 30 | 0 | -400 | 70 |
| 400 | 500 | 0 | -45 | 45 | 34 | 0 | -450 | 80 |
| 500 | 630 | 0 | -50 | 60 | 38 | 0 | -500 | 100 |
| 630 | 800 | 0 | -75 | 80 | 55 | 0 | -750 | 120 |



TOLERANCE CLASS

THRUST BEARINGS (OPOROWE)

Normal tolerance class
Tolerances, μm

ŁOŻYSKA KULKOWE WZDŁUŻNE

Normalna Klasa dokładności
Tolerancje, μm

| Nominal diameter, mm | | Shaft washer pierścień ciasno pasowany | | | | Housing washer pierścień luźno pasowany | | | | Bearing height wysokość łożyska | | | |
|----------------------|--------|---|--------------|------|------------------|--|--------------|------|---|---|--------------|--|--------------|
| d | D | Δdmp | | Vdsp | Si ¹⁾ | ΔDmp | | VDsp | Se ¹⁾ | ΔT_s single direction bearing łożysko jednokierunkowe | | ΔT_{1s} single direction bearing with seat washer podkładka łożysko jednokierunkowe | |
| > | \leq | high górna | low dolna | | | high górna | low dolna | | | high górna | low dolna | high górna | low dolna |
| - | 18 | 0 | -8 | 6 | 10 | 0 | -11 | 8 | Identical to Si of shaft washer of the same bearing Identyczny z Si ciasno pasowanego pierścienia tego samego łożyska | - | - | - | - |
| 18 | 30 | 0 | -10 | 8 | 10 | 0 | -13 | 10 | | +20 | -250 | +100 | -250 |
| 30 | 50 | 0 | -12 | 9 | 10 | 0 | -16 | 12 | | +20 | -250 | +100 | -250 |
| 50 | 80 | 0 | -15 | 11 | 10 | 0 | -19 | 14 | | +20 | -300 | +100 | -300 |
| 80 | 120 | 0 | -20 | 15 | 15 | 0 | -22 | 17 | | +25 | -300 | +150 | -300 |
| 120 | 180 | 0 | -25 | 19 | 15 | 0 | -25 | 19 | | +25 | -400 | +150 | -400 |
| 180 | 250 | 0 | -30 | 23 | 20 | 0 | -30 | 23 | | +30 | -400 | +150 | -400 |
| 250 | 315 | 0 | -35 | 26 | 25 | 0 | -35 | 26 | | +40 | -400 | - | - |
| 315 | 400 | 0 | -40 | 30 | 30 | 0 | -40 | 30 | | +40 | -500 | - | - |
| 400 | 500 | 0 | -45 | 34 | 30 | 0 | -45 | 34 | | +50 | -500 | - | - |
| 500 | 630 | 0 | -50 | 38 | 35 | 0 | -50 | 38 | +60 | -600 | - | - | |

¹⁾Applies only to thrust ball bearings with 90° contact angle
dotyczy tylko ożysk wzdłużnych kulkowych o koncie działania 90°



KLASA DOKŁADNOŚCI

Tolerance class P6
Tolerances, μm

Klasa dokładności P6
Tolerancje, μm

| Nominal diameter, mm | | Shaft washer pierścień ciasno pasowany | | | | Housing washer pierścień luźno pasowany | | | | Bearing height wysokość łożyska | | | |
|----------------------|-----|---|--------------|------|------------------|--|--------------|------|--|---|--------------|--|--------------|
| d | D | Δdmp | | Vdsp | Si ¹⁾ | ΔDmp | | VDsp | Se ¹⁾ | ΔT_s single direction bearing Łożysko jednokierunkowe | | ΔT_{1s} single direction bearing with seat washer podkładka łożysko jednokierunkowe | |
| > | ≤ | high górna | low dolna | | | high górna | low dolna | | | high górna | low dolna | high górna | low dolna |
| - | 18 | 0 | -8 | 6 | 5 | 0 | -11 | 8 | Identical to Si of shaft washer of the same bearing Identyczny z Si ciasno pasowanego pierścienia tego samego łożyska | - | - | - | - |
| 18 | 30 | 0 | -10 | 8 | 5 | 0 | -13 | 10 | | +20 | -250 | +100 | -250 |
| 30 | 50 | 0 | -12 | 9 | 6 | 0 | -16 | 12 | | +20 | -250 | +100 | -250 |
| 50 | 80 | 0 | -15 | 11 | 7 | 0 | -19 | 14 | | +20 | -300 | +100 | -300 |
| 80 | 120 | 0 | -20 | 15 | 8 | 0 | -22 | 17 | | +25 | -300 | +150 | -300 |
| 120 | 180 | 0 | -25 | 19 | 9 | 0 | -25 | 19 | | +25 | -400 | +150 | -400 |
| 180 | 250 | 0 | -30 | 23 | 10 | 0 | -30 | 23 | | +30 | -400 | +150 | -400 |
| 250 | 315 | 0 | -35 | 26 | 13 | 0 | -35 | 26 | | +40 | -400 | - | - |
| 315 | 400 | 0 | -40 | 30 | 15 | 0 | -40 | 30 | | +40 | -500 | - | - |
| 400 | 500 | 0 | -45 | 34 | 18 | 0 | -45 | 34 | | +50 | -500 | - | - |
| 500 | 630 | 0 | -50 | 38 | 21 | 0 | -50 | 38 | +60 | -600 | - | - | |

¹⁾Applies only to thrust ball bearings with 90° contact angle
dotyczy tylko łożysk wzdłużnych kulkowych o koncie działania 90°



Procedure of bearing products handling at the customers warehouses and lines

Certain skills and accuracy are required for failure-free bearings operation during its handling. Bearings are precision parts that require care in their acceptance, installation, and other manipulations.

The information presented in this chapter is general in nature and is intended to identify the basic requirements for procedure of bearing products handling.

BEARINGS STORAGE AT WAREHOUSES

Bearings manufactured under the brand name BBC and packed in corrugated boxes are delivered to the customers warehouses, where they are removed from the trays (pallets) and put into the transport crates, and then placed on the racks in not more than three layers. Premises for bearings storage should be enclosed, heated, dry, equipped with ventilation and protected from penetration of aggressive gasses. Ambient air temperature and relative humidity at the bearing products warehouses should be $20 \pm 5^\circ\text{C}$ and $\leq 60\%$, respectively. It is not allowed to remove dust from corrugated boxes and racks with a wet cloth.

In case of recent packing damage, immediate usage of bearings for production (assembling into a unit) is allowed.

Bearings shelf life at warehouses shall not exceed the shelf life specified in the accompanying document, from the date of manufacture including the period of storage at the manufacturer, the period of delivery, transportation, etc.

DEPRESERVATION OF BEARINGS

Bearings lubricated with liquid preservation oil can be mounted in production units without depreservation, provided that similar lubricants are used in the unit. However, if it is assumed that the bearing will operate at very low or very high temperatures, it should be washed and dried thoroughly. For bearings flushing it is recommended to use lacquer petroleum or kerosene.

Capped bearings prefilled with lubrication, should not be washed before using.

In case of necessity, this type of bearings shall be wiped with a dry or wetted in lacquer petroleum and squeezed cotton cloth. Only mounting interface rings and outside surface of a shield and casings shall be wiped.

In case the capped bearings are delivered without excess lubricants on the surfaces preventing their installation, they shall not be wiped.

PROCEDURE OF BEARINGS HANDLING BEFORE INSPECTION/INSTALLATION

While handling the bearings, both in and without packing, it is necessary to be careful to avoid bumps and jerks. It is prohibited to rotate bearings without an oil film on running surfaces.

During procedure of bearings handling supplied in corrugated boxes or other crates, it is necessary to observe the following sequence:

- take the crate with bearings to the place of inspection/installation;
- open the corrugated box cover (correct – pic. 1.1, incorrect – pic. 1.2), take out the accompanying documents, unwrap the protecting cover of polymer film, remove the seals;



pic.1.1

Procedura obsługi produktów łożyskowych w magazynach i na liniach klientów



pic.1.2

Aby zapewnić bezproblemowe działanie, przy obsłudze łożysk wymagane są pewne umiejętności i ostrożność. Łożyska są częściami precyzyjnymi, wymagającymi staranności przy ich odbiorze, montażu i innych czynnościach.

Informacje podane w tym rozdziale mają charakter ogólny i mają na celu zwrócenie uwagi na podstawowe wymagania dotyczące obsługi łożysk.

PRZECHOWYWANIE ŁOŻYSK W MAGAZYNACH

Łożyska marki BBC, pakowane w pudła tekturowe, przewożone do magazynów klientów, gdzie są zdejmowane z palet i umieszczane w pojemnikach transportowych, a następnie składowane na regałach (lub na podłodze) w nie więcej niż trzech warstwach. Przestrzeń do przechowywania łożysk musi być zamkniętym, ogrzewanym, suchym pomieszczeniem, wyposażonym w wentylację i zabezpieczonym przed przenikaniem agresywnych gazów. Temperatura i wilgotność względna powietrza w pomieszczeniu do przechowywania łożysk powinny wynosić odpowiednio 20 ± 5 °C i $\leq 60\%$. Niedopuszczalne jest usuwanie kurzu z pudeł i stojaków z tektury falistej za pomocą wilgotnej szmatki.

Jeśli opakowanie zostało naruszone przed chwilą, łożyska mogą być natychmiast użyte do produkcji (montażu w zespół).

Okres przechowywania łożysk w magazynach nie może przekraczać okresu podanego w dokumencie towarzyszącym wyrobom od daty produkcji z uwzględnieniem okresu przechowywania u producenta, okresu dostawy, transportu itp.

PRZEMYWANIE ŁOŻYSK

Łożyska smarowane płynnym olejem konserwującym mogą być montowane w zespołach roboczych bez przemywania, pod warunkiem, że w zespole stosowane są podobne środki smarne. Jeżeli jednak przewiduje się, że łożysko będzie pracować w warunkach bardzo niskiej, lub bardzo wysokiej temperatury, należy je umyć i dokładnie wysuszyć. Zaleca się, aby do płukania łożysk używać benzyny lakowej lub nafty.

Łożyska typu zamkniętego, wstępnie wypełnione smarem, nie powinny być myte przed użyciem. W razie potrzeby powierzchnie łączące pierścieni oraz zewnętrzną powierzchnię blaszek ochronnych lub obudów łożysk tej konstrukcji wytrzeć suchą lub zwilżoną w benzynie lakowej czy naftcie bawełnianą szmatką. W przypadkach, gdy łożyska uszczelnione są dostarczane bez nadmiaru smaru na powierzchniach utrudniających ich montaż, nie są one wycierane.

PROCEDURY POSTĘPOWANIA Z ŁOŻYSKAMI PRZED KONTROLĄ/INSTALACJĄ

Podczas przenoszenia łożysk, zarówno zapakowanych jak i niezapakowanych, należy chronić je przed wstrząsami i uderzeniami. Łożyska bez warstwy smaru na powierzchniach tocznych nie mogą być obracane.

Przy obchodzeniu się z łożyskami dostarczonymi w kartonach tekturowych lub innych opakowaniach należy przestrzegać następującej procedury:

- przetransportować pojemnik z łożyskami do miejsca kontroli/montażu;



Procedure of bearing products handling at the customers warehouses and lines

- take one roll or board with bearings out of the corrugated box;
- carefully unfold the roll with bearings on the table, avoiding paper rupture, or take out of the board, avoiding the bearings scattering;
- operations shall be done with hands in rubber or other gloves leaving no contamination, hairs, threads (correct – pic. 1.3, incorrect – pic. 1.4);
- take the required number of bearings out of the roll or board, wrap the unused bearings back into the same packing material. Prior to inspection, all bearings taken for preservation grease removal are wiped with a dry cloth of napless material or, if necessary, rinsed with clean diesel fuel. Before the installation, ensure that bearing face has no wastes and check the accuracy of the sizes of all components. Measuring tools and mounting surfaces must have the same temperature as bearings, It is especially important dealing with big bearings.



pic.1.3



pic.1.4

After completion of the shift task, the bearings not used for assembling shall be preserved: enclosed bearings shall be wrapped into inhibited and paraffin paper, open-type bearings shall be emerged into industrial oil, with the excess oil bled down, also wrapped into paraffin paper and packed into corrugated boxes.

During displacement of containers with corrugated boxes by technological transport exclude its' failing.

In case of corrugated boxes failure products must be isolated. Consumer's technological containers must ensure bearing safety and absence of damages and wastes prior filling them to the assembly.

During the bearings handling, it is not allowed:

- to stack the bearings unwrapped or in bulk (correct – pic. 1.5, incorrect – pic. 1.6).
- to stack and store unpacked bearings for more than two hours;
- rough handling of bearings – dropping, falling, etc.

In case of falling, bearing is a subject to disposal.

- getting of wastes, foreign matter, etc. inside the bearing.

In case of foreign matter getting inside the bearing, the bearing shall be rinsed with clean diesel fuel.

Failure to observe the rules above shall result in mechanical damage of bearings, occurrence of corrosion, scratches, nicks and other defects.

Bearings with identified defects caused by improper handling are subjects to disposal.

Procedura obsługi produktów łożyskowych w magazynach i na liniach klientów

- otworzyć wieko pudełka z tektury falistej (prawidłowo - rys. 1.1, nieprawidłowo - rys. 1.2), wyjąć załączone dokumenty, rozwinąć pokrywę z folii, wyjąć plomby;
- wyjąć jedną rolkę lub płytę z łożyskami z pudełka falistego;
- na stole ostrożnie rozłożyć rolkę z łożyskami, nie dopuścić do rozerwania materiału opakowania lub zdjąć z płyty, nie doprowadzając do rozsypania łożysk;
- wykonywać czynności obsługowe rękami zabezpieczonymi gumowymi lub innymi rękawicami, unikając brudu, klaczków lub nitki na łożyskach (patrz Rysunek 1.3),
Nieprawidłowo - rysunek 1.4);
- wyjąć wymaganą liczbę łożysk z rolki lub płyty
Nieużywane łożyska powinny być zawinięte z powrotem w ten sam materiał opakowaniowy.
Przed kontrolą, zmontowane łożyska należy przetrzeć suchą niestrzępiącą się szmatką lub, jeśli to konieczne, umyć w benzynie lakowej lub nafcie w celu usunięcia smaru konserwującego.
Przed montażem należy upewnić się, że powierzchnie dotykające do łożyska i zespołu są wolne od zanieczyszczeń i sprawdzić



pic.1.5



pic.1.6

dokładność wymiarową wszystkich elementów.

Narzędzia pomiarowe i powierzchnie montażowe powinny mieć taką samą temperaturę jak łożyska, co jest szczególnie ważne w przypadku łożysk o dużych rozmiarach.

Nieużywane łożyska należy zakonserwować po zakończeniu pracy: łożyska zamknięte należy owinąć w materiał opakowaniowy, łożyska otwarte należy zanurzyć w oleju przemysłowym, nadmiar pozostawić do odcieknięcia, owinąć w materiał opakowaniowy i zapakować do pudełek z tektury falistej, które należy przewiązać z obu stron na końcach dwoma paskami taśmy polietylenowej z warstwą klejącą. Przy przemieszczaniu kontenerów z pudłami falistymi transportem technologicznym należy wykluczyć możliwość przewrócenia się pudeł falistych. W przypadku spadających pudeł z tektury falistej produkty powinny być odizolowane. Opakowanie technologiczne klienta powinno zabezpieczać przed uszkodzeniem, zanieczyszczone lub zniszczone przed dostarczeniem ich do montażu.

W procesie obsługi łożysk następujące czynności nie są dozwolone:

- układanie łożysk bez opakowania lub luzem (prawidłowo - rysunek 1.5, błędnie - rysunek 1.6)
- pakowanie i przechowywanie nierozpakowanych łożysk przez ponad dwie godziny;
- nieostrożne obchodzenie się z łożyskiem - upuszczanie, rzucanie itp.

W przypadku upadku łożysko powinno być odizolowane;

- przedostanie się do łożyska zanieczyszczeń, ciał obcych itp.

W przypadku przedostania się ciał obcych do łożyska typu otwartego należy je umyć w benzynie lakowej lub nafcie.

Nieprzestrzeganie powyższych zaleceń powoduje uszkodzenia mechaniczne łożysk, korozję, zarysowania, wgniecenia i inne uszkodzenia. łożyska z wadami wykrytymi w wyniku niewłaściwej obsługi muszą zostać odizolowane.



Procedure of bearing products handling at the customers warehouses and lines

BEARINGS HANDLING DURING INSTALLATION

During bearings preparation for installation, the identification marking on packing and on the bearings themselves is checked for compliance with the technical documentation requirements.

Before the bearings installation, the bearing-mating surfaces of shafts and casings shall be thoroughly flushed, wiped, dried and covered with a thin layer of grease.

Lubrication channels shall be purged and cleaned from chips, and other metallic and non-metallic particles.

The shafts shall be checked for straightness (absence of bending), the casings shall be checked for misalignment as per the standards set forth in the technical documentation for the unit.

Open-type bearings shall undergo visual examination for presence of a complete set of rolling elements, absence of signs of contamination, corrosion, retainer damage.

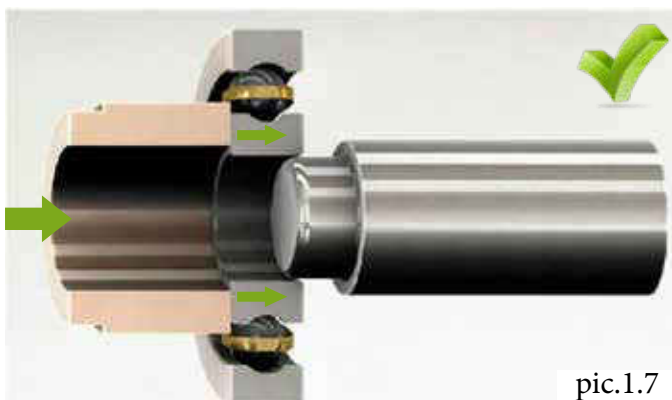
Enclosed bearings shall be checked for availability of seals and absence of damage.

Bearing-mating installation surfaces of casings (bores and end faces) and shafts (mounting surfaces and ends) shall have no nicks, scratches, deep notches as a result of poor grinding, corrosion, burrs. During bearings installation into units, it is strictly prohibited to immediately hit the bearings and their parts.

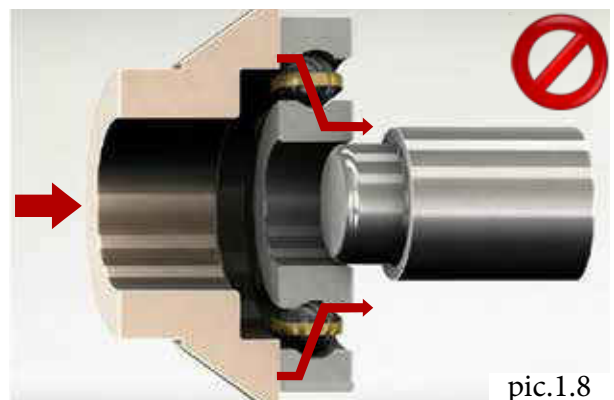
Assembling and dismantling of bearings shall be performed using presses and special tools providing for smooth (nonimpact) rings assembling. During the bearings assembly, it is allowed to use only attested installation tools. The tools used for operations with bearings should be clean and free from burrs.

It is strictly prohibited to transfer the installation force via the rolling elements, retainer and bearing protection elements. The method of assembling safe for the bearing should be indicated in the technical documentation for units assembling. During the bearings installation onto the shaft, the pressing force shall be transferred via the inner ring (pic. 1.7 - correct, pic.1.8 - incorrect). During the bearings installation into the casing, the pressing force shall be transferred through the outer ring (pic. 1.9 - correct, pic.1.10 - incorrect).

Manufacturer will not accept claims for bearings damaged in consequence of mishandling.



pic.1.7



pic.1.8

Procedura obsługi produktów łożyskowych w magazynach i na liniach klientów

OBCHODZENIE SIĘ Z ŁOŻYSKAMI PODCZAS MONTAŻU

Przygotowując łożyska do montażu, należy najpierw sprawdzić oznaczenia na opakowaniu i same łożyska pod kątem wymagań dokumentacji technicznej.

Przed montażem powierzchnie dotykające do łożyska muszą być dokładnie umyte, wytarte, wysuszone i nasmarowane cienką warstwą smaru. Kanały smarowe powinny być przedmuchane i oczyszczone z opiłków i innych cząstek metalowych i niemetalowych.

Wały powinny być sprawdzone pod względem prostoliniowości (bez ugięć), obudowy pod względem odchylenia osiowego zgodnie z normami określonymi w dokumentacji technicznej urządzenia.

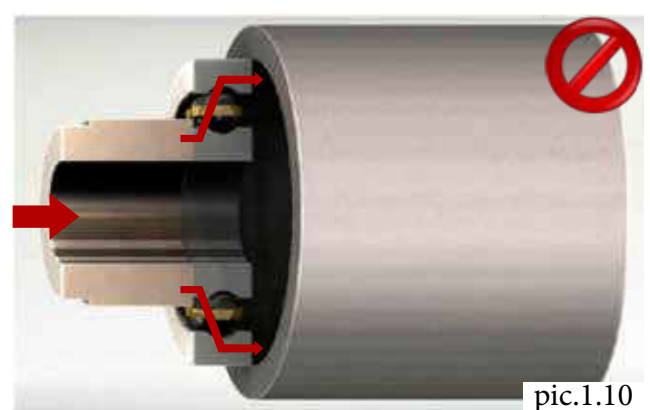
Łożyska typu otwartego powinny być sprawdzane wizualnie na obecność kompletnego zestawu elementów tocznych, brak śladów zanieczyszczeń, korozji, uszkodzeń koszyka. Łożyska typu zamkniętego powinny być sprawdzane pod kątem obecności uszczelki i braku uszkodzeń.

Powierzchnie montażowe, dotykające do obudowy (otwory i końce) oraz wały (powierzchnie osadzenia i końce) muszą być wolne od rys, zadrapań, głębokich rowków powstałych w wyniku obróbki mechanicznej, korozji, zadziorów.

Podczas montażu łożysk w zespołach surowo zabrania się uderzania bezpośrednio w łożyska i ich części. Montaż i demontaż łożysk odbywa się przy użyciu pras i specjalnych urządzeń zapewniających płynny (bezuderzeniowy) montaż pierścieni. Przy montażu łożysk należy stosować wyłącznie certyfikowane urządzenia. Narzędzia robocze podczas pracy z łożyskami muszą być czyste i pozbawione zadziorów.

Podczas montażu łożysk w zespoły, surowo zabrania się uderzania bezpośrednio w łożyska i ich części. Bezpieczne sposoby montażu łożysk muszą być określone w dokumentacji technologicznej montażu zespołów. W przypadku montażu łożysk na wale, siła nacisku musi być przenoszona przez pierścień wewnętrzny (rys. 1.7 - prawidłowo, rys. 1.8 - nieprawidłowo). W przypadku montażu łożysk w oprawie siła nacisku musi być przenoszona przez pierścień zewnętrzny (rys. 1.9 - prawidłowo, rys. 1.10 - nieprawidłowo).

Roszczenia z tytułu uszkodzeń spowodowanych niewłaściwym obchodzeniem się z produktem nie będą akceptowane przez producenta.





Deep groove ball bearings

Deep groove ball bearings are manufactured with different variants and dimensions. The catalogue table specifies the basic designations of bearings that comply with GOST and/or ISO international standards. A system of suffixes shown below is used to name different type variants. You may contact our services to determine the availability of specific types, obtain additional product parameters that were not included in the catalogue, and discuss your specific requirements for bearing design with our specialists.

Łożyska kulkowe poprzeczne są produkowane w różnych wersjach i rozmiarach. W tabeli katalogowej podano podstawowe oznaczenia łożysk zgodnie z międzynarodowymi normami ISO i/lub GOST. Do identyfikacji różnych wariantów konstrukcyjnych stosowany jest następujący system sufiksów. Prosimy o kontakt w celu uzyskania informacji o dostępnych wykonaniach, dodatkowych parametrach produktów nieujętych w katalogu, jak również w celu omówienia z naszymi specjalistami technicznymi Państwa specjalnych wymagań dotyczących konstrukcji łożysk.

DESIGNATION FORMULA

WZÓR OZNACZENIA

| | | | | |
|-----------------------|--|-----------------------------------|--|---------------------------------|
| Basic designation | External design (Z, ZZ, RS, 2RS, N) | Cage (without suffix, M, Y, P) | Accuracy; internal clearance (without suffix, P6, C2, C3, C4) | Lubrication (type of grease) |
| Oznaczenie podstawowe | Budowa zewnętrzna (Z, ZZ, RS, 2RS, N) | Koszyk (bez przedrostka, M, Y, P) | Klasa dokładności; wewnętrzny luz promieniowy (bez przedrostka, P6, C2, C3, C4) | Środek smary (rodzaj smaru) |

Łożyska kulkowe poprzeczne



PREFIX DESIGNATIONS

OZNACZENIE PREFIX

| | | |
|-----------------------------------|--|---|
| without suffix bez przedrostka | stamped steel cage, ball centered; dimensional and running accuracy to normal class; normal internal clearance; standart grease | koszyk z prasowanej stali centrowany na kulkach; dokładność wymiarowa i obrotowa wg standardowej klasy dokładności; normalny luz promieniowy; standardowe smarowanie |
| Z | stamped sheet steel shield on one side | blaszka ochronna, jednostronna, tłoczona z blachy stalowej |
| ZZ | stamped sheet steel shield on both sides | blaszka ochronna, dwustronna, tłoczona z blachy stalowej |
| RS | NBR seal reinforced with a sheet steel insert on one side | wzmocniona blachą stalową podkładka z gumy butadienowo-akrylonitrylowej po jednej stronie łożyska |
| 2RS | NBR seal reinforced with a sheet steel insert on both sides | wzmocniona blachą stalową podkładka wykonana z gumy nitrylowej po obu stronach łożyska |
| N | groove on the outer ring | rowek pierścienia osadczego na pierścieniu zewnętrznym |
| M | machined brass cage, ball centered | mosiężny koszyk obrobiony mechanicznie centrowany na kulkach |
| P | polimer cage | koszyk polimerowy |
| Y | window type stamped cage made of sheet brass, ball centered | koszyk tłoczony z blachy mosiężnej typu okienkowego, centrowany na kulkach |
| P6 | dimensional and running accuracy to ISO tolerance class P6 | dokładność wymiarowa i obrotowa odpowiada klasie ISO P6 |
| C2 | radial internal clearance smaller than normal | promieniowy luz wewnętrzny mniejszy niż normalny |
| C3 | radial internal clearance greater than normal | promieniowy luz wewnętrzny większy niż normalny |
| C4 | radial internal clearance greater than C3 | promieniowy luz wewnętrzny większy niż C3 |
| LT | low temperature grease | smar niskotemperaturowy |

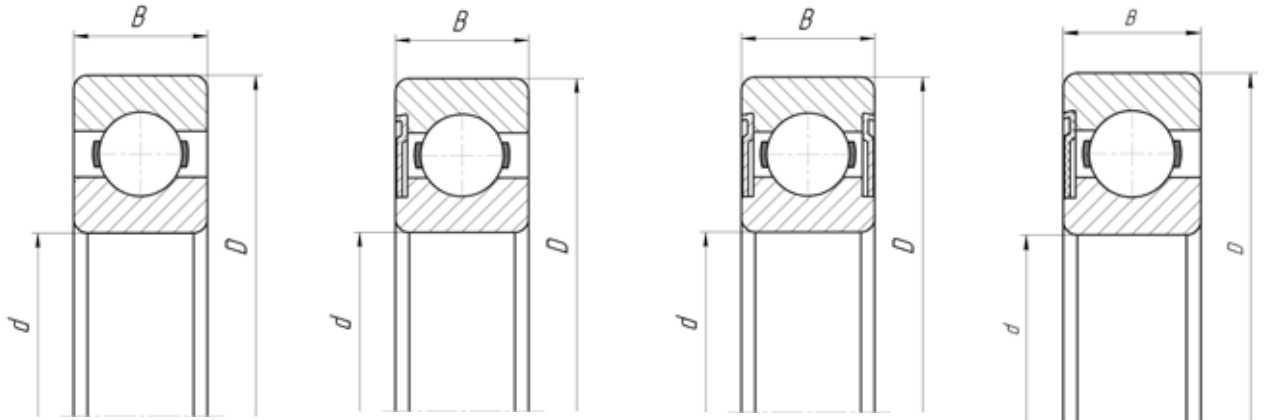


ŁOŻYSKA KULKOWE POPRZECZNE

DEEP GROOVE BALL BEARINGS

SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE POPRZECZNE



BBC-R:Z

BBC-R:ZZ

BBC-R:RS

GOST: 60...

GOST: 80...

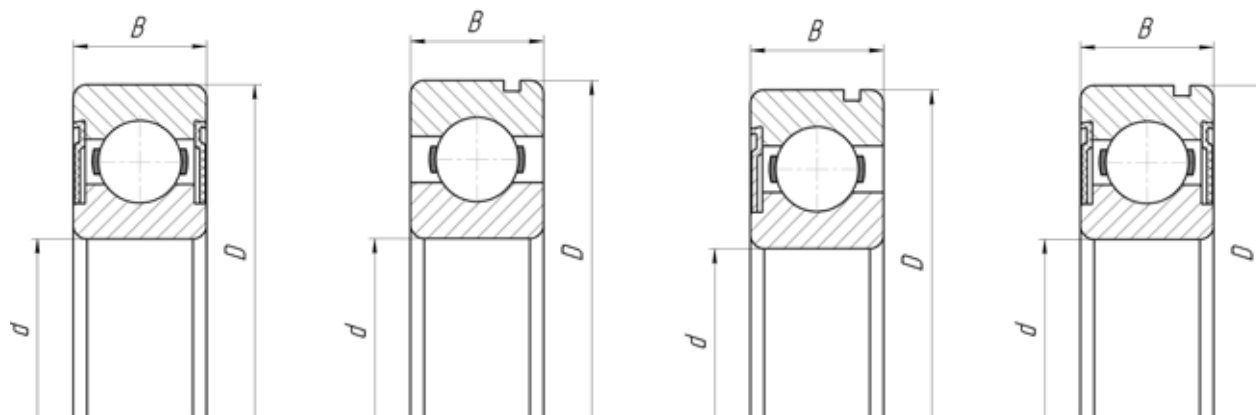
GOST: 160...

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 604 | 14 | 4 | 12 | 4 | 0,002 | 0,83 | 0,3 | 45 000 | 55 000 |
| 605 | 15 | 5 | 14 | 5 | 0,003 | 1,4 | 0,6 | 42 000 | 48 000 |
| 606 | 16 | 6 | 17 | 6 | 0,005 | 2,3 | 0,9 | 38 000 | 45 000 |
| 607 | 17 | 7 | 19 | 6 | 0,0073 | 2,5 | 0,7 | 36 000 | 44 000 |
| 608 | 18 | 8 | 22 | 7 | 0,0118 | 2,7 | 0,9 | 34 500 | 42 000 |
| 609 | 19 | 9 | 24 | 7 | 0,02 | 3 | 1,1 | 32 500 | 39 500 |
| 624 | 24 | 4 | 13 | 5 | 0,0031 | 1,1 | 0,4 | 46 000 | 54 000 |
| 625 | 25 | 5 | 16 | 5 | 0,005 | 1,6 | 0,6 | 41 000 | 48 500 |
| 626 | 26 | 6 | 19 | 6 | 0,0082 | 2,5 | 1 | 35 000 | 41 500 |
| 627 | 27 | 9 | 26 | 8 | 0,019 | 3,3 | 1,4 | 33 500 | 39 500 |
| 628 | 28 | 8 | 24 | 8 | 0,0213 | 3,95 | 1,7 | 32 000 | 38 000 |
| 629 | 29 | 9 | 26 | 8 | 0,0195 | 4,6 | 2 | 30 500 | 36 000 |
| 6000 | 100 | 10 | 26 | 8 | 0,0195 | 4,6 | 2 | 27 500 | 33 500 |
| 6001 | 101 | 12 | 28 | 8 | 0,022 | 5,2 | 2,7 | 25 000 | 31 000 |
| 6002 | 102 | 15 | 32 | 9 | 0,0272 | 5,7 | 2,9 | 21 000 | 25 500 |
| 6003 | 103 | 17 | 35 | 10 | 0,04 | 6,1 | 3,3 | 19 500 | 24 000 |
| 6004 | 104 | 20 | 42 | 12 | 0,07 | 9,6 | 5 | 16 500 | 20 000 |
| 6005 | 105 | 25 | 47 | 12 | 0,08 | 10,7 | 6,1 | 13 500 | 17 000 |
| 6006 | 106 | 30 | 55 | 13 | 0,12 | 13,4 | 8,3 | 11 500 | 14 000 |
| 6007 | 107 | 35 | 62 | 14 | 0,15 | 16,3 | 10,3 | 10 300 | 12 300 |
| 6008 | 108 | 40 | 68 | 15 | 0,19 | 17,1 | 11,3 | 9 300 | 11 000 |
| 6009 | 109 | 45 | 75 | 16 | 0,24 | 21,4 | 15 | 8 350 | 10 000 |
| 6010 | 110 | 50 | 80 | 16 | 0,26 | 22,2 | 16,3 | 7 750 | 9 400 |
| 6011 | 111 | 55 | 90 | 18 | 0,38 | 29,4 | 21,5 | 6 900 | 8 400 |
| 6012 | 112 | 60 | 95 | 18 | 0,41 | 29,8 | 23,2 | 6 500 | 7 900 |
| 6013 | 113 | 65 | 100 | 18 | 0,44 | 31 | 25 | 6 200 | 7 500 |
| 6014 | 114 | 70 | 110 | 20 | 0,6 | 38,6 | 31 | 5 500 | 6 700 |
| 6015 | 115 | 75 | 115 | 20 | 0,64 | 40,3 | 33,4 | 5 200 | 6 400 |
| 6016 | 116 | 80 | 125 | 22 | 0,85 | 48,1 | 39,8 | 4 900 | 6 000 |



SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE POPRZECZNE



BBC-R:2RS

BBC-R:N

BBC-R:ZN

BBC-R:2RSN

GOST: 180...

GOST: 50...

GOST: 150...

GOST: 750...

| DESIGNATION OZNACZENIA | | DIMENSIONS, M WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 6017 | 117 | 85 | 130 | 22 | 0,89 | 50,4 | 42,9 | 4 600 | 5 600 |
| 6018 | 118 | 90 | 140 | 24 | 1,17 | 59 | 49,6 | 4 400 | 5 300 |
| 6019 | 119 | 95 | 145 | 24 | 1,22 | 61,5 | 54 | 4 100 | 5 000 |
| 6020 | 120 | 100 | 150 | 24 | 1,27 | 63,3 | 55,1 | 4 000 | 4 900 |
| 6021 | 121 | 105 | 160 | 26 | 1,59 | 73,4 | 65,7 | 3 800 | 4 600 |
| 6022 | 122 | 110 | 170 | 28 | 1,95 | 83,2 | 72,9 | 3 600 | 4 450 |
| 6024 | 124 | 120 | 180 | 28 | 2,1 | 86,1 | 79,5 | 3 300 | 4 000 |
| 6026 | 126 | 130 | 200 | 33 | 3,26 | 108 | 100,3 | 3 100 | 3 700 |
| 6028 | 128 | 140 | 210 | 33 | 3,39 | 110 | 107,7 | 2 900 | 3 500 |
| 6030 | 130 | 150 | 225 | 35 | 5,05 | 124,7 | 125 | 2 600 | 3 200 |
| 6032 | 132 | 160 | 240 | 38 | 6,4 | 141 | 140,7 | 2 500 | 3 000 |
| 6034 | 134 | 170 | 260 | 42 | 6,94 | 168 | 172 | 2 200 | 2 700 |
| 6036 | 136 | 180 | 280 | 46 | 11 | 188,7 | 198,7 | 2 100 | 2 600 |
| 6040 | 140 | 200 | 310 | 51 | 14,6 | 215,3 | 242,7 | 1 900 | 2 300 |
| 6048 | 148 | 240 | 360 | 56 | 22,400 | 251 | 305 | 1 700 | 2 000 |
| 6200 | 200 | 10 | 30 | 9 | 0,03 | 5,8 | 2,5 | 24 000 | 28 500 |
| 6201 | 201 | 12 | 32 | 10 | 0,0369 | 7 | 3,1 | 21 500 | 26 000 |
| 6202 | 202 | 15 | 35 | 11 | 0,046 | 7,8 | 3,7 | 19 500 | 23 000 |
| 6203 | 203 | 17 | 40 | 12 | 0,07 | 9,7 | 4,8 | 17 000 | 20 000 |
| 6204 | 204 | 20 | 47 | 14 | 0,11 | 13 | 6,6 | 14 000 | 17 000 |
| 6205 | 205 | 25 | 52 | 15 | 0,13 | 14,3 | 7,9 | 12 300 | 14 500 |
| 6206 | 206 | 30 | 62 | 16 | 0,2 | 19,7 | 11,2 | 10 500 | 12 500 |
| 6207 | 207 | 35 | 72 | 17 | 0,28 | 26,1 | 15,3 | 9 150 | 10 500 |
| 6208 | 208 | 40 | 80 | 18 | 0,35 | 31,4 | 18,9 | 8 100 | 9 500 |
| 6209 | 209 | 45 | 85 | 19 | 0,4 | 33,1 | 20,9 | 7 500 | 8 800 |
| 6210 | 210 | 50 | 90 | 20 | 0,46 | 35,7 | 23,2 | 6 900 | 8 300 |
| 6211 | 211 | 55 | 100 | 21 | 0,6 | 44,4 | 29,1 | 6 400 | 7 600 |
| 6212 | 212 | 60 | 110 | 22 | 0,77 | 53,4 | 35,9 | 5 700 | 6 800 |
| 6213 | 213 | 65 | 120 | 23 | 1 | 57,6 | 40,2 | 5 200 | 6 200 |

Information indicated by "*" is available on request

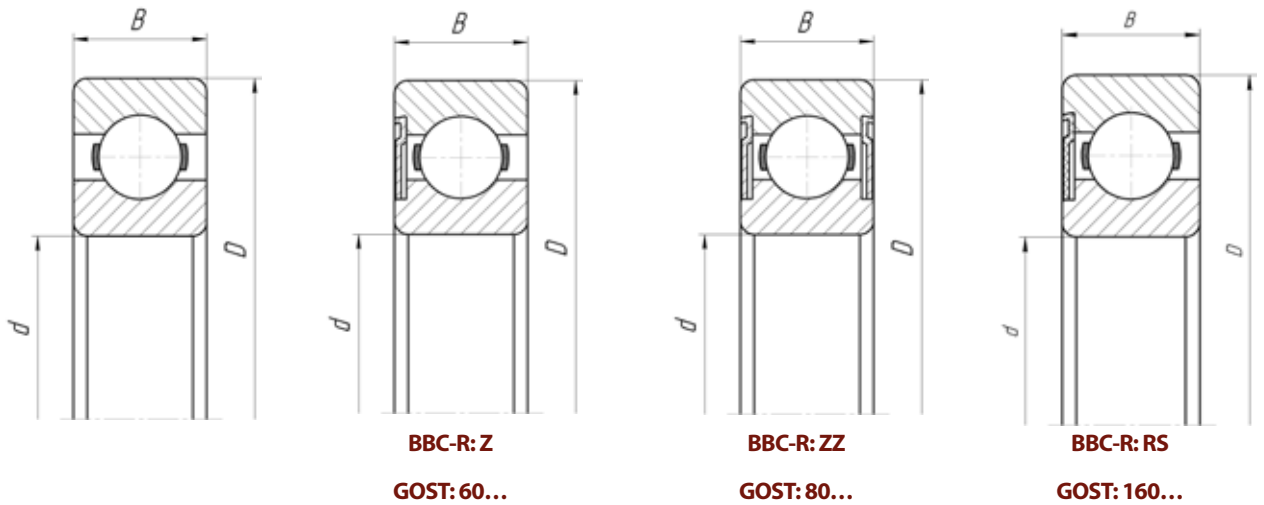


ŁOŻYSKA KULKOWE POPRZECZNE

DEEP GROOVE BALL BEARINGS

SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE JEDNORZĘDOWE

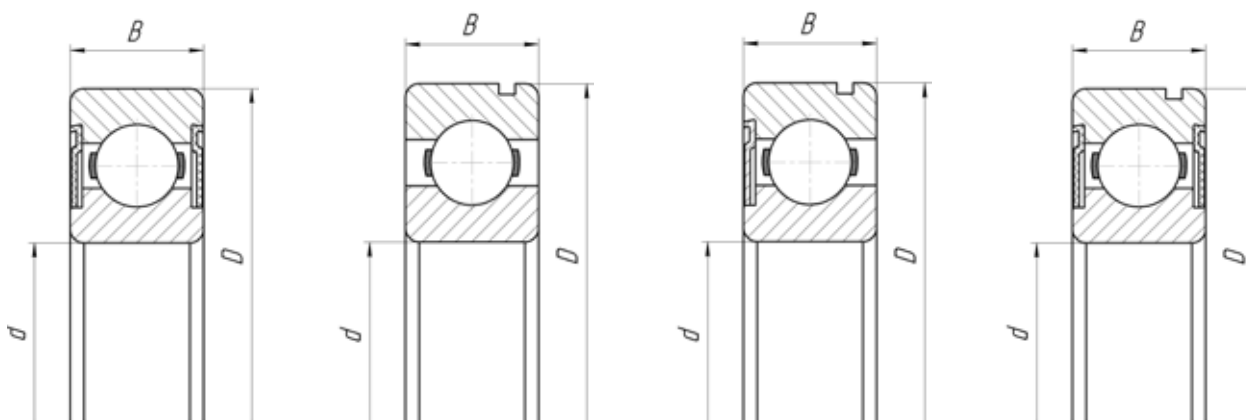


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 6214 | 214 | 70 | 125 | 24 | 1,07 | 62,6 | 44,3 | 5 100 | 6 000 |
| 6215 | 215 | 75 | 130 | 25 | 1,18 | 67,4 | 48,8 | 4 800 | 5 800 |
| 6216 | 216 | 80 | 140 | 26 | 1,4 | 72,7 | 53,7 | 4 500 | 5 400 |
| 6217 | 217 | 85 | 150 | 28 | 1,8 | 84,8 | 63,2 | 4 100 | 4 900 |
| 6218 | 218 | 90 | 160 | 30 | 2,16 | 97,7 | 71,8 | 3 900 | 4 600 |
| 6219 | 219 | 95 | 170 | 32 | 2,61 | 110,3 | 81,5 | 3 700 | 4 400 |
| 6220 | 220 | 100 | 180 | 34 | 3,13 | 124 | 92,9 | 3 400 | 4 100 |
| 6221 | 221 | 105 | 190 | 36 | 3,74 | 135,3 | 104,3 | 3 200 | 3 900 |
| 6222 | 222 | 110 | 200 | 38 | 4,37 | 146,3 | 117,3 | 3 100 | 3 700 |
| 6224 | 224 | 120 | 215 | 40 | 5,15 | 149 | 119,3 | 2 900 | 3 400 |
| 6226 | 226 | 130 | 230 | 40 | 5,58 | 158,7 | 137 | 2 700 | 3 100 |
| 6228 | 228 | 140 | 250 | 42 | 8,09 | 169,3 | 155 | 2 400 | 2 900 |
| 6230 | 230 | 150 | 270 | 45 | 12,3 | 180 | 171,7 | 2 200 | 2 700 |
| 6232 | 232 | 160 | 290 | 48 | 15 | 196 | 197,3 | 2 100 | 2 500 |
| 6234 | 234 | 170 | 310 | 52 | 15 | 217,3 | 228,3 | 2 000 | 2 400 |
| 6236 | 236 | 180 | 320 | 52 | 16 | 232,3 | 248,3 | 1 900 | 2 200 |
| 6238 | 238 | 190 | 340 | 55 | 23,3 | 260,3 | 286,3 | 1 800 | 2 100 |
| 6244 | 244 | 220 | 400 | 65 | 32,4 | 303,5 | 370,5 | 1 500 | 1 800 |
| 6300 | 300 | 10 | 35 | 11 | 0,049 | 8,1 | 3,4 | 20 500 | 25 500 |
| 6301 | 301 | 12 | 37 | 12 | 0,0591 | 9,9 | 4,2 | 19 000 | 23 500 |
| 6302 | 302 | 15 | 42 | 13 | 0,085 | 11,5 | 5,4 | 16 500 | 20 000 |
| 6303 | 303 | 17 | 47 | 14 | 0,12 | 13,8 | 6,6 | 15 000 | 18 000 |
| 6304 | 304 | 20 | 52 | 15 | 0,15 | 16,2 | 7,8 | 13 000 | 16 000 |
| 6305 | 305 | 25 | 62 | 17 | 0,23 | 22,3 | 11,3 | 10 500 | 13 000 |
| 6306 | 306 | 30 | 72 | 19 | 0,33 | 29,1 | 15,8 | 9 400 | 11 000 |
| 6307 | 307 | 35 | 80 | 21 | 0,45 | 34 | 19,1 | 8 200 | 9 900 |
| 6308 | 308 | 40 | 90 | 23 | 0,63 | 41,2 | 24 | 7 400 | 8 800 |
| 6309 | 309 | 45 | 100 | 25 | 0,83 | 53,7 | 31,6 | 6 700 | 8 100 |
| 6310 | 310 | 50 | 110 | 27 | 1,06 | 62,9 | 37,9 | 5 900 | 7 200 |



SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE JEDNORZĘDOWE



BBC-R:2RS

BBC-R:N

BBC-R:ZN

BBC-R:2RSN

GOST: 180...

GOST: 50...

GOST: 150...

GOST: 750...

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 6311 | 311 | 55 | 120 | 29 | 1,38 | 72 | 44,7 | 5 400 | 6 600 |
| 6312 | 312 | 60 | 130 | 31 | 1,72 | 82,9 | 52 | 5 000 | 6 100 |
| 6313 | 313 | 65 | 140 | 33 | 2,1 | 94,4 | 59,9 | 4 700 | 5 700 |
| 6314 | 314 | 70 | 150 | 35 | 2,54 | 106,3 | 66,4 | 4 400 | 5 300 |
| 6315 | 315 | 75 | 160 | 37 | 3,06 | 115,3 | 76,6 | 4 000 | 4 900 |
| 6316 | 316 | 80 | 170 | 39 | 3,63 | 125,3 | 86,2 | 3 800 | 4 600 |
| 6317 | 317 | 85 | 180 | 41 | 4,2 | 135,2 | 96,5 | 3 600 | 4 400 |
| 6318 | 318 | 90 | 190 | 43 | 4,95 | 146 | 107,7 | 3 400 | 4 100 |
| 6319 | 319 | 95 | 200 | 45 | 5,73 | 151,8 | 116,1 | 3 200 | 3 900 |
| 6320 | 320 | 100 | 25 | 47 | 7,07 | 170,7 | 138,7 | 3 000 | 3 700 |
| 6321 | 321 | 105 | 225 | 49 | 7,99 | 183,7 | 153 | 2 800 | 3 500 |
| 6322 | 322 | 110 | 240 | 50 | 9,59 | 198,7 | 174,3 | 2 700 | 3 200 |
| 6324 | 324 | 120 | 260 | 55 | 12,22 | 209,3 | 187,3 | 2 400 | 3 000 |
| 6326 | 326 | 130 | 280 | 58 | 15,2 | 228,7 | 215 | 2 300 | 2 700 |
| 6330 | 330 | 150 | 320 | 65 | 27,6 | 276,7 | 286,3 | 2 000 | 2 400 |
| 6403 | 403 | 17 | 62 | 17 | 0,27 | 22,5 | 10,8 | 12 300 | 14 500 |
| 6404 | 404 | 20 | 72 | 19 | 0,4 | 30,4 | 15,2 | 10 300 | 12 500 |
| 6405 | 405 | 25 | 80 | 21 | 0,53 | 35,9 | 19,3 | 9 000 | 11 000 |
| 6406 | 406 | 30 | 90 | 23 | 0,73 | 43,4 | 23,7 | 8 000 | 9 600 |
| 6407 | 407 | 35 | 100 | 25 | 0,95 | 55,2 | 31 | 7 100 | 8 600 |
| 6408 | 408 | 40 | 110 | 27 | 1,23 | 63,3 | 36,4 | 6 400 | 7 700 |
| 6409 | 409 | 45 | 120 | 29 | 1,54 | 76,5 | 44,9 | 5 800 | 7 500 |
| 6410 | 410 | 50 | 130 | 31 | 1,89 | 87,2 | 52 | 5 400 | 6 500 |
| 6411 | 411 | 55 | 140 | 33 | 2,29 | 99,8 | 62 | 5 000 | 6 000 |
| 6412 | 412 | 60 | 150 | 35 | 2,76 | 107,3 | 69 | 4 400 | 5 300 |
| 6413 | 413 | 65 | 160 | 37 | 3,28 | 116,7 | 77,8 | 4 300 | 5 100 |
| 6414 | 414 | 70 | 180 | 42 | 4,85 | 143,3 | 103,7 | 3 900 | 4 600 |
| 6415 | 415 | 75 | 190 | 45 | 5,74 | 152,8 | 113,5 | 3 800 | 4 500 |

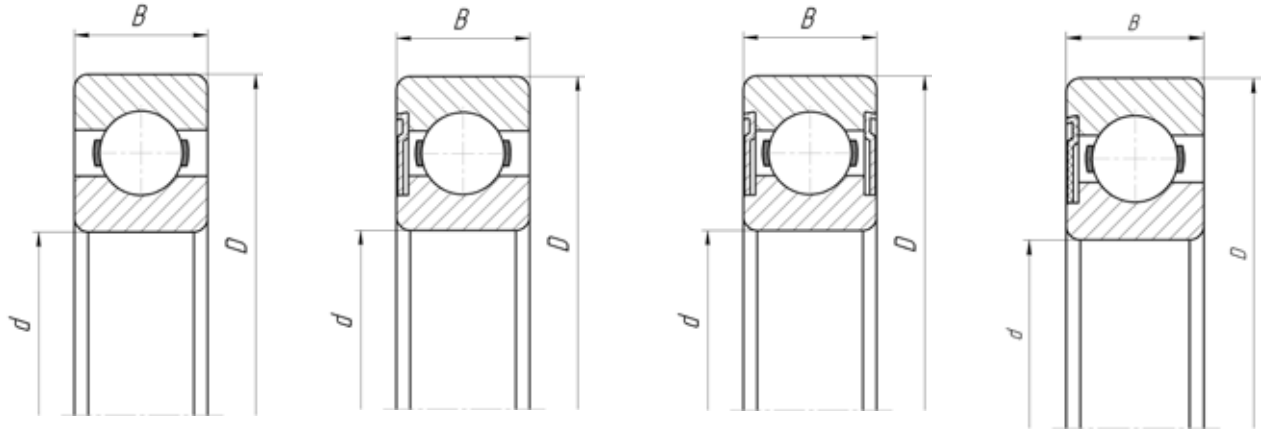


ŁOŻYSKA KULKOWE POPRZECZNE

DEEP GROOVE BALL BEARINGS

SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE JEDNORZĘDOWE



BBC-R: Z

BBC-R: ZZ

BBC-R: RS

GOST: 60...

GOST: 80...

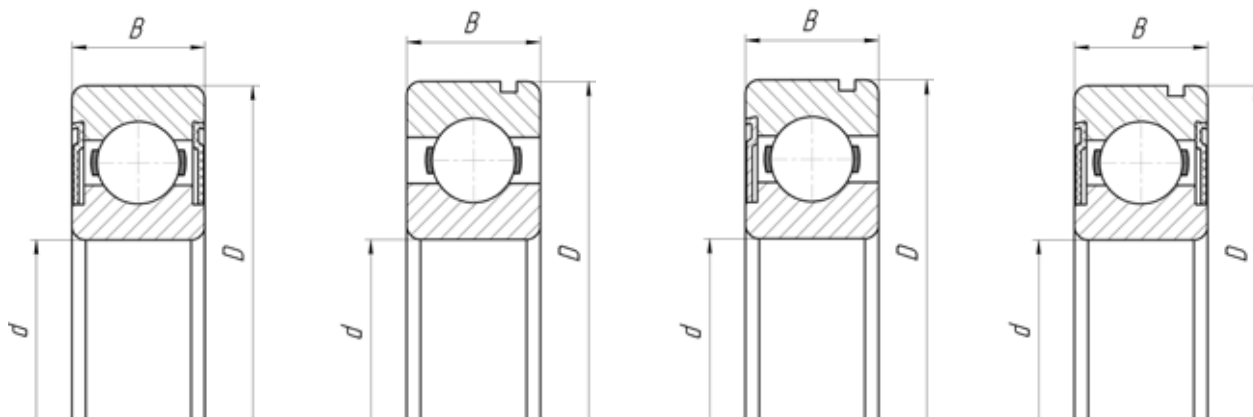
GOST: 160...

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 6416 | 416 | 80 | 200 | 48 | 6,72 | 163,2 | 125 | 3 400 | 4 100 |
| 6417 | 417 | 85 | 210 | 52 | 7,88 | 174 | 136,5 | 3 300 | 4 000 |
| 6418 | 418 | 90 | 225 | 54 | 11,4 | 189 | 154 | 3 200 | 3 800 |
| 685 | 1000085 | 5 | 11 | 3 | 0,001 | 0,65 | 0,27 | 45000 | 53000 |
| 688 | 1000088 | 8 | 16 | 4 | 0,003 | 1,4 | 0,6 | 37000 | 43000 |
| 695 | 1000095 | 5 | 13 | 4 | 0,003 | 1,1 | 0,5 | 42000 | 49000 |
| 696 | 1000096 | 6 | 15 | 5 | 0,004 | 1,4 | 0,6 | 39000 | 46000 |
| 697 | 1000097 | 7 | 17 | 5 | 0,005 | 1,7 | 0,8 | 37000 | 43000 |
| 698 | 1000098 | 8 | 19 | 6 | 0,008 | 2,2 | 0,9 | 35000 | 41000 |
| 699 | 1000099 | 9 | 20 | 6 | 0,007 | 2,5 | 1,12 | 34000 | 40000 |
| 61801 | 1000801 | 12 | 21 | 5 | 0,007 | 1,6 | 0,9 | 30000 | 28500 |
| 61805 | 1000805 | 25 | 37 | 7 | 0,022 | 4,3 | 3 | 16000 | 19500 |
| 61806 | 1000806 | 30 | 42 | 7 | 0,027 | 4,6 | 3,1 | 13700 | 17000 |
| 61807 | 1000807 | 35 | 47 | 7 | 0,031 | 4,7 | 3,5 | 12000 | 15200 |
| 61818 | 1000818 | 90 | 115 | 13 | 0,300 | 19,8 | 20,7 | 5100 | 6100 |
| 61822 | 1000822 | 110 | 140 | 16 | 0,600 | 28,9 | 28,2 | 4100 | 4900 |
| 61824 | 1000824 | 120 | 150 | 16 | 0,650 | 30,3 | 30 | 3800 | 4600 |
| 61900 | 1000900 | 10 | 22 | 6 | 0,009 | 2,5 | 1 | 32 500 | 39 000 |
| 61901 | 1000901 | 12 | 24 | 6 | 0,010 | 2,7 | 1,3 | 28 500 | 35 000 |
| 61902 | 1000902 | 15 | 28 | 7 | 0,017 | 4,2 | 2,2 | 23 500 | 29 000 |
| 61903 | 1000903 | 17 | 30 | 7 | 0,018 | 4,5 | 2,5 | 21 500 | 27 000 |
| 61904 | 1000904 | 20 | 37 | 9 | 0,035 | 6,4 | 3,7 | 17 700 | 21 200 |
| 61905 | 1000905 | 25 | 42 | 9 | 0,042 | 7 | 4,5 | 14 500 | 18 000 |
| 61906 | 1000906 | 30 | 47 | 9 | 0,049 | 7,2 | 4,6 | 12 700 | 16 000 |
| 61907 | 1000907 | 35 | 55 | 10 | 0,090 | 10,5 | 7,1 | 10 700 | 14 000 |
| 61908 | 1000908 | 40 | 62 | 12 | 0,110 | 13,2 | 9,2 | 6 000 | 12 500 |



SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE JEDNORZĘDOWE



BBC-R:2RS

BBC-R:N

BBC-R:ZN

BBC-R:2RSN

GOST: 180...

GOST: 50...

GOST: 150...

GOST: 750...

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 61909 | 1000909 | 45 | 68 | 12 | 0,150 | 13 | 11,9 | 9 400 | 11 500 |
| 61910 | 1000910 | 50 | 72 | 12 | 0,180 | 13,2 | 12 | 8 400 | 10 200 |
| 61911 | 1000911 | 55 | 80 | 13 | 0,190 | 15,4 | 14,7 | 7 900 | 9 400 |
| 61912 | 1000912 | 60 | 85 | 13 | 0,260 | 15,7 | 15 | 7 400 | 8 700 |
| 61913 | 1000913 | 65 | 90 | 13 | 0,300 | 16,9 | 16,5 | 6 900 | 8 100 |
| 61914 | 1000914 | 70 | 100 | 16 | 0,320 | 23,7 | 20,2 | 6 300 | 7 500 |
| 61915 | 1000915 | 75 | 105 | 16 | 0,380 | 24,2 | 23,1 | 5 900 | 7 100 |
| 61916 | 1000916 | 80 | 110 | 16 | 0,430 | 24,7 | 24 | 5 600 | 6 600 |
| 61917 | 1000917 | 85 | 120 | 18 | 0,700 | 30,8 | 31 | 5 400 | 6 300 |
| 61918 | 1000918 | 90 | 125 | 18 | 0,730 | 32,4 | 32,2 | 3 300 | 6 000 |
| 61919 | 1000919 | 95 | 130 | 18 | 0,760 | 33,6 | 33,6 | 4 800 | 5 700 |
| 61920 | 1000920 | 100 | 140 | 20 | 1,020 | 42,1 | 42,1 | 4 500 | 5 300 |
| 61921 | 1000921 | 105 | 145 | 20 | 1,050 | 44,3 | 44 | 4 300 | 5 100 |
| 61922 | 1000922 | 110 | 150 | 20 | 1,100 | 44 | 44,3 | 4 100 | 4 800 |
| 61924 | 1000924 | 120 | 165 | 22 | 1,400 | 56,1 | 56 | 3 600 | 4 400 |
| 61926 | 1000926 | 130 | 180 | 24 | 1,900 | 66,1 | 66,1 | 3 500 | 4 100 |
| 61928 | 1000928 | 140 | 190 | 24 | 2,100 | 68,8 | 69,3 | 3 200 | 3 800 |
| 61930 | 1000930 | 150 | 210 | 28 | 3,500 | 88,4 | 93 | 2 800 | 3 400 |
| 61932 | 1000932 | 160 | 220 | 28 | 3,700 | 92,3 | 98 | 2 600 | 3 200 |
| 61934 | 1000934 | 170 | 230 | 28 | 3,029 | 93,6 | 106 | 2 400 | 3 000 |
| 61948 | 1000948 | 240 | 320 | 38 | 9,600 | 159 | 200 | 1 800 | 2 200 |
| 61964 | 1000964 | 320 | 440 | 56 | 27,000 | * | * | * | * |
| 16000 | 7000100 | 10 | 28 | 7 | 0,015 | 4,9 | 2,2 | 35 800 | 41 400 |
| 16001 | 7000101 | 12 | 28 | 7 | 0,018 | 5,2 | 2,6 | 27 500 | 33 000 |
| 16002 | 7000102 | 15 | 32 | 8 | 0,027 | 5,6 | 2,9 | 21 500 | 25 500 |
| 16003 | 7000103 | 17 | 35 | 8 | 0,032 | 6 | 3,3 | 20 000 | 24 000 |
| 16004 | 7000104 | 20 | 42 | 8 | 0,050 | 7,8 | 4,4 | 17 000 | 20 000 |

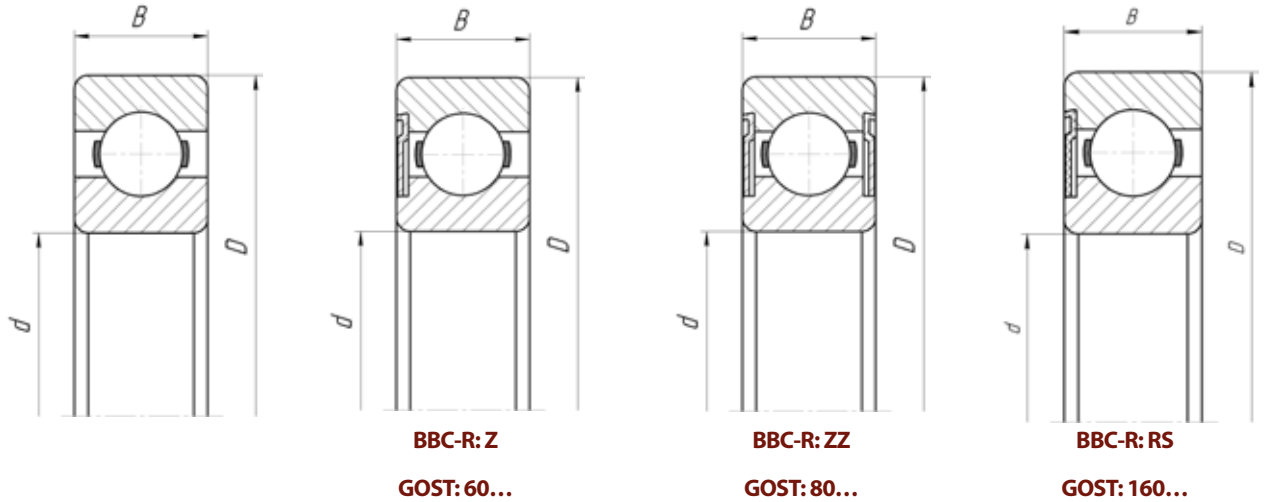


ŁOŻYSKA KULKOWE POPRZECZNE

DEEP GROOVE BALL BEARINGS

SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE JEDNORZĘDOWE



BBC-R: Z
GOST: 60...

BBC-R: ZZ
GOST: 80...

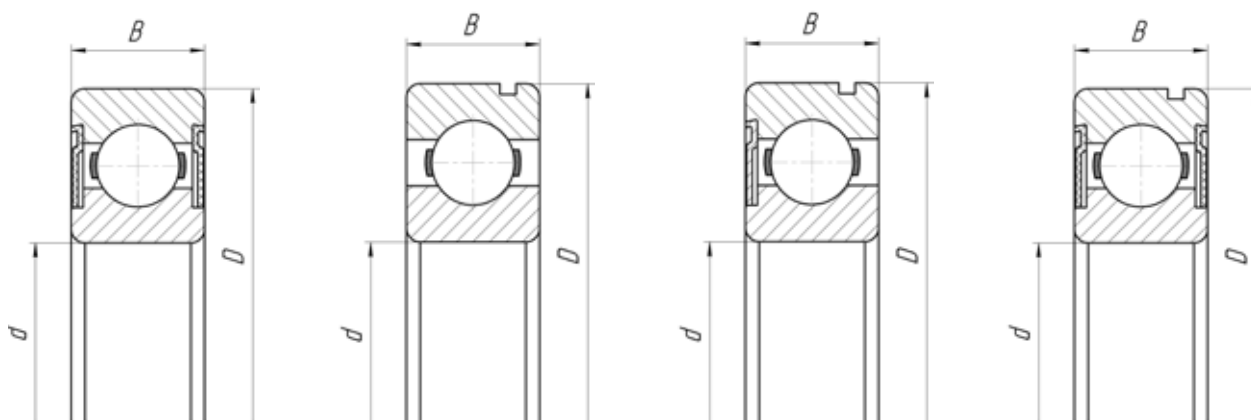
BBC-R: RS
GOST: 160...

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 16005 | 7000105 | 25 | 47 | 8 | 0,053 | 8,4 | 5,1 | 14 000 | 17 000 |
| 16006 | 7000106 | 30 | 55 | 9 | 0,087 | 11,4 | 7,4 | 11 500 | 14 000 |
| 16007 | 7000107 | 35 | 62 | 9 | 0,111 | 11,7 | 8,1 | 10 300 | 12 300 |
| 16008 | 7000108 | 40 | 68 | 9 | 0,125 | 13,2 | 10 | 9 600 | 11 000 |
| 16009 | 7000109 | 45 | 75 | 10 | 0,170 | 16 | 11,6 | 9 000 | 10 500 |
| 16010 | 7000110 | 50 | 80 | 10 | 0,190 | 16,3 | 12,5 | 8 000 | 9 500 |
| 16011 | 7000111 | 55 | 90 | 11 | 0,260 | 19,7 | 15,5 | 7 200 | 8 500 |
| 16012 | 7000112 | 60 | 95 | 11 | 0,280 | 20,3 | 16,6 | 6 700 | 8 000 |
| 16013 | 7000113 | 65 | 100 | 11 | 0,300 | 21,8 | 19,4 | 6 300 | 7 500 |
| 16014 | 7000114 | 70 | 110 | 13 | 0,430 | 28,2 | 25 | 5 700 | 6 800 |
| 62200 2RS | 180500 | 10 | 30 | 14 | 0,048 | 5,4 | 2,4 | 14 600 | * |
| 62201 2RS | 180501 | 12 | 32 | 14 | 0,049 | 6,9 | 3,1 | 14 500 | * |
| 62202 2RS | 180502 | 15 | 35 | 14 | 0,055 | 7,7 | 3,7 | 12 500 | * |
| 62203 2RS | 180503 | 17 | 40 | 16 | 0,080 | 9,5 | 4,7 | 11 500 | * |
| 62204 2RS | 180504 | 20 | 47 | 18 | 0,140 | 12,8 | 6,6 | 9 700 | * |
| 62205 2RS | 180505 | 25 | 52 | 18 | 0,150 | 14 | 7,9 | 8 200 | * |
| 62206 2RS | 180506 | 30 | 62 | 20 | 0,300 | 19,5 | 11,2 | 7 200 | * |
| 62207 2RS | 180507 | 35 | 72 | 23 | 0,390 | 25,5 | 15,3 | 6 100 | * |
| 62208 2RS | 180508 | 40 | 80 | 23 | 0,450 | 30,1 | 18,6 | 5 400 | * |
| 62209 2RS | 180509 | 45 | 85 | 23 | 0,510 | 33 | 21,2 | 4 900 | * |
| 62210 2RS | 180510 | 50 | 90 | 23 | 0,540 | 35,1 | 23,2 | 4 600 | * |
| 62211 2RS | 180511 | 55 | 100 | 25 | 0,700 | 43,6 | 29 | 4 300 | * |
| 62212 2RS | 180512 | 60 | 110 | 28 | 0,870 | 52,7 | 36 | 4 000 | * |
| 62300 2RS | 180600 | 10 | 35 | 17 | 0,06 | 8,3 | 3,4 | 14 000 | * |
| 62301 2RS | 180601 | 12 | 37 | 17 | 0,07 | 9,7 | 4,2 | 13 000 | * |
| 62302 2RS | 180602 | 15 | 42 | 17 | 0,107 | 11,4 | 5,4 | 11 500 | * |



SINGLE ROW DEEP GROOVE BALL BEARINGS

ŁOŻYSKA KULKOWE JEDNORZĘDOWE



BBC-R:2RS

BBC-R:N

BBC-R:ZN

BBC-R:2RSN

GOST: 180...

GOST: 50...

GOST: 150...

GOST: 750...

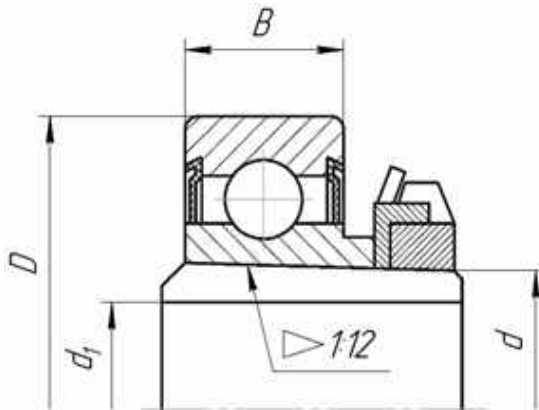
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 62303 2RS | 180603 | 17 | 47 | 19 | 0,150 | 13,5 | 6,6 | 10 200 | * |
| 62304 2RS | 180604 | 20 | 52 | 21 | 0,210 | 15,9 | 7,8 | 9 000 | * |
| 62305 2RS | 180605 | 25 | 62 | 24 | 0,240 | 22,4 | 11,5 | 7 300 | * |
| 62306 2RS | 180606 | 30 | 72 | 27 | 0,420 | 28,1 | 15,9 | 6 100 | * |
| 62307 2RS | 180607 | 35 | 80 | 31 | 0,530 | 33,3 | 19,1 | 5 600 | * |
| 62308 2RS | 180608 | 40 | 90 | 33 | 0,850 | 40,8 | 24 | 4 900 | * |
| 62309 2RS | 180609 | 45 | 100 | 36 | 1,100 | 52,7 | 31,5 | 4 500 | * |
| 62310 2RS | 180610 | 50 | 110 | 40 | 1,260 | 61,8 | 38 | 4 300 | * |
| 62311 2RS | 180611 | 55 | 120 | 43 | 1,500 | 71,5 | 45 | 3 800 | * |
| 62312 2RS | 180612 | 60 | 130 | 46 | 1,940 | 81,9 | 52 | 3 400 | * |
| 180703 | 180703 | 17 | 62 | 20 | 0,290 | * | * | * | * |
| 180706 | 180706 | 30 | 78 | 28 | 0,350 | * | * | * | * |
| 180707 | 180707 | 35 | 80 | 23 | 0,460 | * | * | * | * |
| 180712 | 180712 | 60 | 110 | 24 | 0,850 | * | * | * | * |
| 180902 | 180902 | 16 | 35 | 14 | 0,539 | * | * | * | * |
| 1180304 | 1180304 | 20 | 52 | 18 | 0,170 | * | * | * | * |
| 1180305 | 1180305 | 25 | 62 | 21 | 0,280 | * | * | * | * |



ŁOŻYSKA KULKOWE POPRZECZNE

DEEP GROOVE BALL BEARINGS

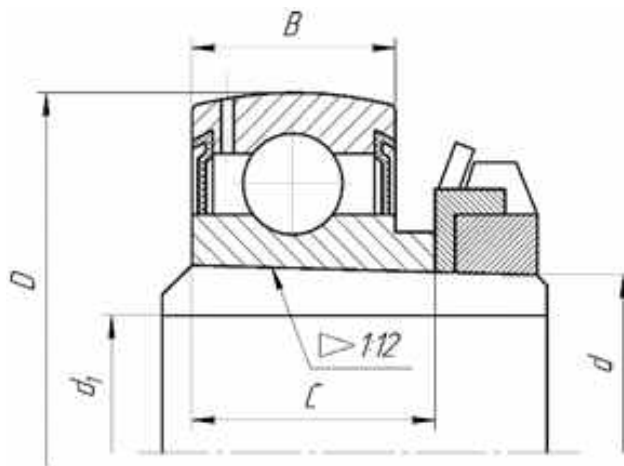
SINGLE ROW DEEP GROOVE BALL BEARINGS WITH A SEAL ON BOTH SIDES AND ADAPTER SLEEVE



ŁOŻYSKA KULKOWE JEDNORZĘDOWE USZCZELNIONE Z TULEJĄ

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|----|----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | d1 | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 380706 | 380706 | 35 | 30 | 85 | 23 | 0,711 | * | * | * | * |
| 380707 | 380707 | 40 | 35 | 85 | 23 | 0,699 | * | * | * | * |
| 380708 | 380708 | 45 | 40 | 85 | 23 | 0,723 | * | * | * | * |

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH A SEAL ON BOTH SIDES, SPHERICAL MOUNTING SURFACE OF THE OUTER RING AND ADAPTER SLEEVE



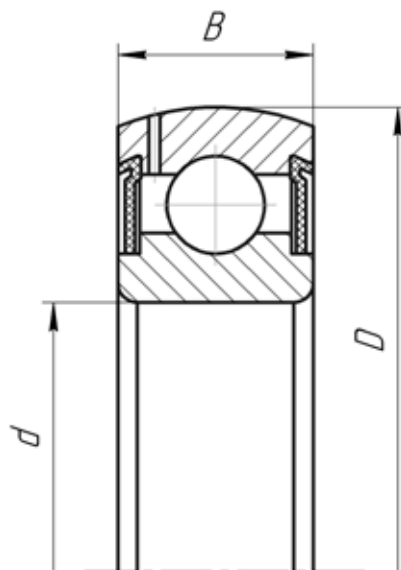
ŁOŻYSKA KULKOWE JEDNORZĘDOWE Z USZCZELNIENIEM DWUSTRONNYM, SFERYCZNYM PIERŚCIENIEM ZEWNĘTRZNYM I TULEJĄ NOŚNĄ

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|----|-----|----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | d1 | D | B | C | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 680210 | 680210 | 55 | 50 | 100 | 25 | 45 | 1,156 | * | * | * | * |
| 680314 | 680314 | 75 | 70 | 150 | 39 | 78 | 3,870 | * | * | * | * |
| 1680204 | 1680204 | 25 | 20 | 52 | 16 | 18 | 0,231 | * | * | * | * |
| 1680205 | 1680205 | 30 | 25 | 62 | 18 | 20 | 0,340 | * | * | * | * |
| 1680206 | 1680206 | 35 | 30 | 72 | 20 | 22 | 0,481 | * | * | * | * |
| 1680207 | 1680207 | 40 | 35 | 80 | 21 | 23 | 0,617 | * | * | * | * |
| 1680208 | 1680208 | 45 | 40 | 85 | 21 | 23 | 0,655 | * | * | * | * |



SINGLE ROW DEEP GROOVE BALL BEARINGS WITH A SEAL ON BOTH SIDES AND SPHERICAL MOUNTING SURFACE OF THE OUTER RING

ŁOŻYSKA KULKOWE JEDNORZĘDOWE Z USZCZELNIENIEM DWUSTRONNYM I SFERYCZNYM PIERŚCIENIEM ZEWNĘTRZNYM

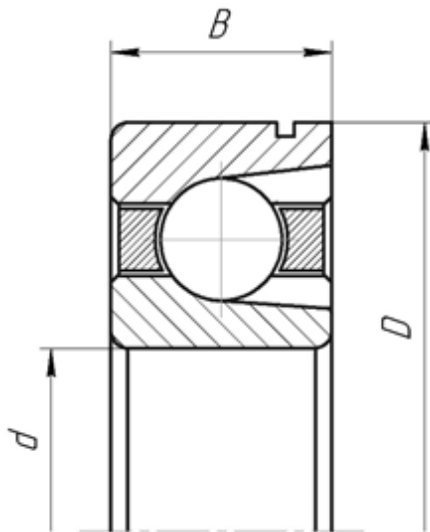


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 580204 | 580204 | 20 | 47 | 14 | 0,106 | * | * | * | * |
| 580205 | 580205 | 25 | 52 | 15 | 0,123 | * | * | * | * |
| 580306 | 580306 | 30 | 72 | 19 | 0,349 | * | * | * | * |
| 1580205 | 1580205 | 25 | 52 | 16 | 0,140 | * | * | * | * |
| 1580206 | 1580206 | 30 | 62 | 18 | 0,224 | * | * | * | * |
| 1580207 | 1580207 | 35 | 72 | 20 | 0,313 | * | * | * | * |
| 1580209 | 1580209 | 45 | 85 | 21 | 0,452 | * | * | * | * |
| 1580211 | 1580211 | 55 | 100 | 23 | 0,650 | * | * | * | * |



ŁOŻYSKA KULKOWE POPRZECZNE

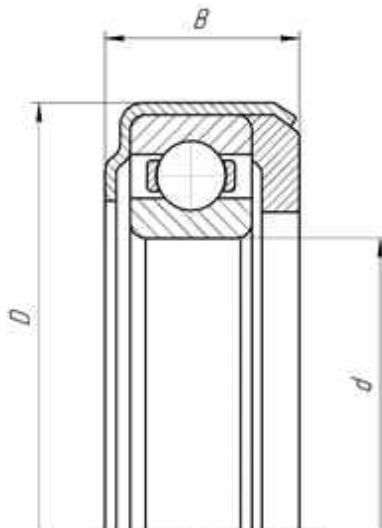
DEEP GROOVE BALL BEARINGS



SINGLE ROW DEEP GROOVE BALL BEARINGS WITH A GROOVE ON THE OUTER RING AND GROOVE FOR THE BALL FITTING

ŁOŻYSKA KULKOWE JEDNORZĘDOWE Z ROWKIEM NA PIERŚCIEŃ OSADCZY (SEGERA) NA PIERŚCIENIU ZEWNĘTRZNYM ŁOŻYSKA ORAZ Z ROWKIEM MONTAŻOWYM DLA KULEK

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 170314 | 170314 | 70 | 150 | 35 | 2,500 | * | * | * | * |
| 170412 | 170412 | 60 | 150 | 35 | 3,180 | * | * | * | * |



CLOSED SINGLE ROW DEEP GROOVE BALL BEARINGS

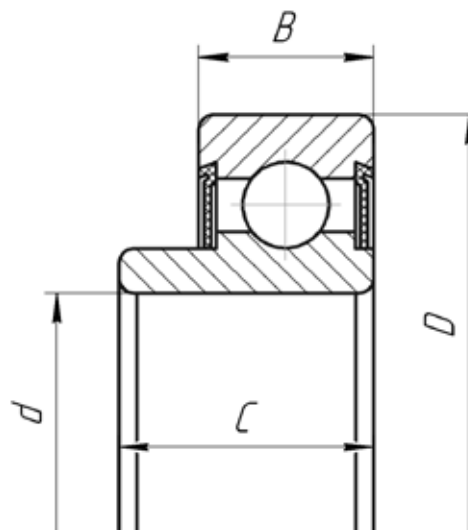
ŁOŻYSKA KULKOWE JEDNORZĘDOWE ZAMKNIĘTE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNY C | STATIC STATYCZNY Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 170314 | 170314 | 70 | 150 | 35 | 2,500 | * | * | * | * |
| 170412 | 170412 | 60 | 150 | 35 | 3,180 | * | * | * | * |



SINGLE ROW DEEP GROOVE BALL BEARING WITH PROTRUDING INNER RING

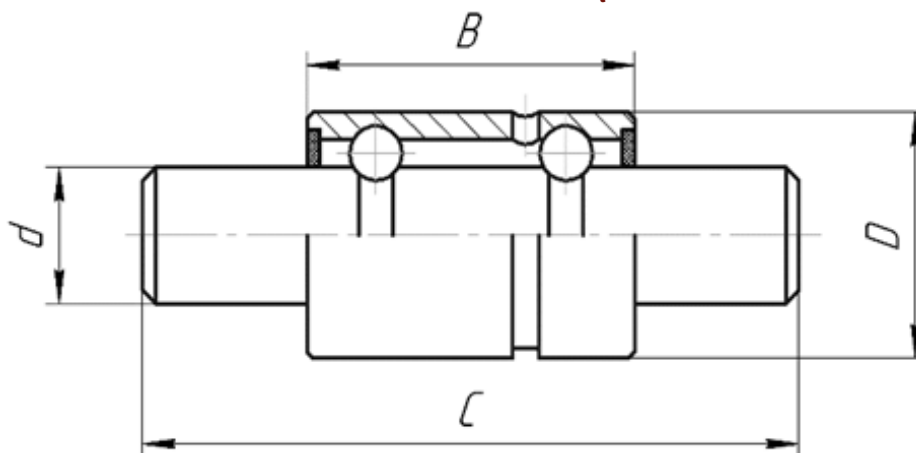
ŁOŻYSKA KULKOWE JEDNORZĘDOWE Z WYSTAJĄCYM PIERŚCIENIEM WEWNĘTRZNYM



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|----|----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | C | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 520806 | 520806 | 31 | 55 | 13 | 19 | 0,130 | * | * | * | * |

DOUBLE-ROW DEEP GROOVE BALL BEARING WITH SHAFT INSTEAD OF INNER RING

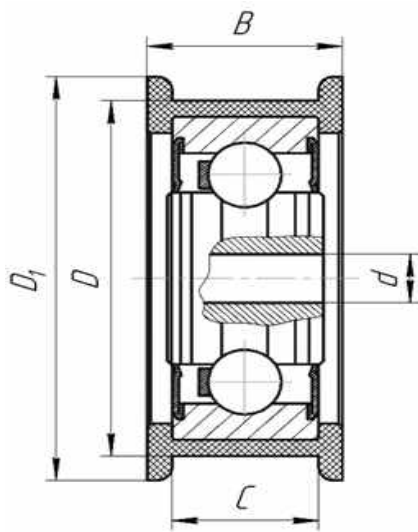
ŁOŻYSKA KULKOWE Z WAŁEM ZAMIAST PIERŚCIENIA WEWNĘTRZNEGO



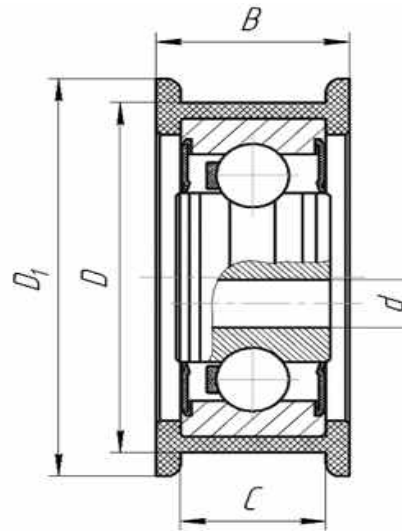
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|----|----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | C | | DYNAMIC DYNAMICZNY C | STATIC STATYCZNY Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 330802 | 330802 | 16 | 30 | 39 | 92 | 0,228 | * | * | * | * |
| 330902 | 330902 | 16 | 30 | 39 | 115 | 0,260 | * | * | * | * |



BELT TENSIONER



ROLKI NAPINAJĄCE

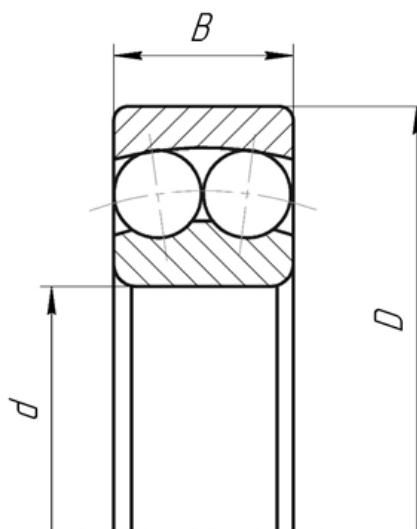


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-----------|-------------------------------|----|------|------|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D1 | D | B | C | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 830700AE | 830700AE | 10,1 | 55 | 32,4 | 26,4 | 63 | 0,26 | * | * | * | * |
| 830900AE1 | 830900AE1 | 10,1 | 55 | 32,4 | 26,4 | 63 | 0,26 | * | * | * | * |
| 830900AE2 | 830900AE2 | 10,1 | 55 | 27 | 21 | 63 | 0,23 | * | * | * | * |



DOUBLE ROW SPHERICAL BALL BEARINGS WITH
CYLINDRICAL BORE

ŁOŻYSKA KULKOWE DWURZĘDOWE WAHLIWE Z OTWOREM
CYLINDRYCZNYM



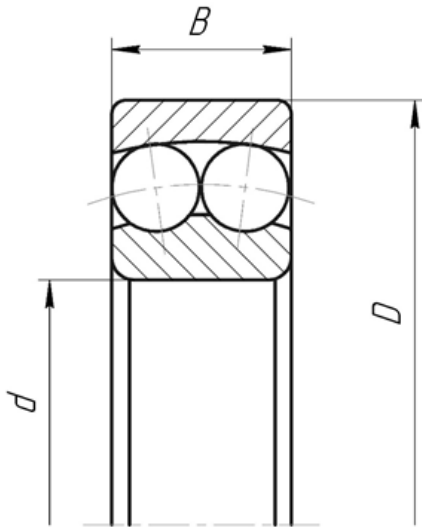
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 1200 | 1200 | 10 | 30 | 9 | 0,03 | 5,51 | 1,19 | 28 000 | 32 500 |
| 1201 | 1201 | 12 | 32 | 10 | 0,04 | 5,81 | 1,32 | 23 500 | 27 500 |
| 1202 | 1202 | 15 | 35 | 11 | 0,05 | 7,44 | 1,75 | 20 500 | 24 000 |
| 1203 | 1203 | 17 | 40 | 12 | 0,07 | 8,29 | 2,09 | 17 000 | 20 500 |
| 1204 | 1204 | 20 | 47 | 14 | 0,12 | 10,88 | 2,9 | 14 000 | 17 000 |
| 1205 | 1205 | 25 | 52 | 15 | 0,14 | 12,89 | 3,55 | 12 300 | 15 000 |
| 1206 | 1206 | 30 | 62 | 16 | 0,22 | 15,9 | 4,69 | 10 500 | 12 500 |
| 1207 | 1207 | 35 | 72 | 17 | 0,32 | 16,96 | 5,4 | 9 200 | 10 500 |
| 1208 | 1208 | 40 | 80 | 18 | 0,42 | 19,59 | 6,67 | 7 900 | 9 400 |
| 1209 | 1209 | 45 | 85 | 19 | 0,47 | 22,32 | 7,52 | 7 400 | 8 800 |
| 1210 | 1210 | 50 | 90 | 20 | 0,53 | 24,13 | 8,45 | 7 000 | 8 300 |
| 1211 | 1211 | 55 | 100 | 21 | 0,71 | 27,23 | 10,2 | 6 200 | 7 400 |
| 1212 | 1212 | 60 | 110 | 22 | 0,90 | 30,73 | 11,83 | 5 600 | 6 700 |
| 1213 | 1213 | 65 | 120 | 23 | 1,15 | 32,68 | 12,9 | 5 200 | 6 200 |
| 1214 | 1214 | 70 | 125 | 24 | 1,26 | 35,1 | 14 | 4 900 | 5 800 |
| 1215 | 1215 | 75 | 130 | 25 | 1,36 | 39,36 | 15,53 | 4 700 | 5 600 |
| 1216 | 1216 | 80 | 140 | 26 | 1,67 | 40,23 | 16,9 | 4 400 | 5 200 |
| 1217 | 1217 | 85 | 150 | 28 | 2,07 | 49,46 | 20,5 | 4 000 | 4 700 |
| 1218 | 1218 | 90 | 160 | 30 | 2,52 | 57,6 | 23,47 | 3 800 | 4 500 |
| 1219 | 1219 | 95 | 170 | 32 | 3,10 | 64,44 | 27,03 | 3 500 | 4 200 |
| 1220 | 1220 | 100 | 180 | 34 | 3,70 | 69,66 | 29,6 | 3 300 | 4 000 |
| 1221 | 1221 | 105 | 190 | 36 | 4,37 | 74,55 | 32,5 | 3 200 | 3 300 |
| 1222 | 1222 | 110 | 200 | 38 | 5,15 | 88,98 | 38,6 | 3 000 | 3 600 |
| 1224 | 1224 | 120 | 215 | 42 | 6,75 | 119 | 52,7 | 2 800 | 3 300 |
| 1226 | 1226 | 130 | 230 | 46 | 8,30 | 127,93 | 58,87 | 2 600 | 3 200 |
| 1228 | 1228 | 140 | 250 | 50 | 10,90 | 164 | 72,4 | 2 500 | 3 000 |
| 1230 | 1230 | 150 | 270 | 54 | 13,80 | 176 | 86 | 2 400 | 2 800 |



ŁOŻYSKA KULKOWE DWURZĘDOWE

SELF-ALIGNING DOUBLE ROW BALL BEARINGS

DOUBLE ROW SPHERICAL BALL BEARINGS WITH CYLINDRICAL BORE



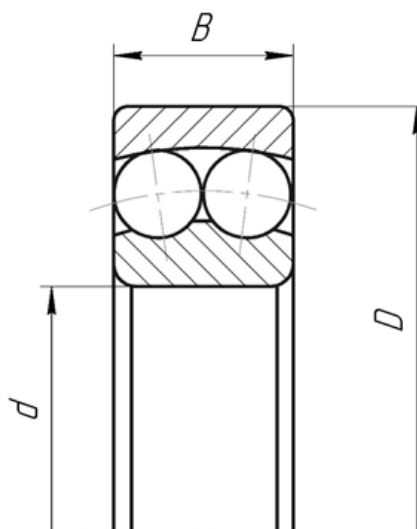
ŁOŻYSKA KULKOWE DWURZĘDOWE WAHLIWE Z OTWOREM CYLINDRYCZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 1300 | 1300 | 10 | 35 | 11 | 0,06 | 7,34 | 1,63 | 18 000 | 21 000 |
| 1301 | 1301 | 12 | 37 | 12 | 0,07 | 9,37 | 2,15 | 17 000 | 20 000 |
| 1302 | 1302 | 15 | 42 | 13 | 0,09 | 10,37 | 2,49 | 16 500 | 19 500 |
| 1303 | 1303 | 17 | 47 | 14 | 0,13 | 12,63 | 3,33 | 14 000 | 17 000 |
| 1304 | 1304 | 20 | 52 | 15 | 0,16 | 13,67 | 3,78 | 12 000 | 14 500 |
| 1305 | 1305 | 25 | 62 | 17 | 0,26 | 18,5 | 5,14 | 10 000 | 12 500 |
| 1306 | 1306 | 30 | 72 | 19 | 0,39 | 21,81 | 6,47 | 8 900 | 10 500 |
| 1307 | 1307 | 35 | 80 | 21 | 0,51 | 25,53 | 8,11 | 7 600 | 9 200 |
| 1308 | 1308 | 40 | 90 | 23 | 0,72 | 30,89 | 10,29 | 6 800 | 8 200 |
| 1309 | 1309 | 45 | 100 | 25 | 0,96 | 38,55 | 13,03 | 6 100 | 7 200 |
| 1310 | 1310 | 50 | 110 | 27 | 1,21 | 43,23 | 14,13 | 5 500 | 6 600 |
| 1311 | 1311 | 55 | 120 | 29 | 1,58 | 50,8 | 18,03 | 5 100 | 6 100 |
| 1312 | 1312 | 60 | 130 | 31 | 1,96 | 58,1 | 21,13 | 4 600 | 5 600 |
| 1313 | 1313 | 65 | 140 | 33 | 2,45 | 63,93 | 24,6 | 4 400 | 5 100 |
| 1314 | 1314 | 70 | 150 | 35 | 2,99 | 74,1 | 27,53 | 4 000 | 4 700 |
| 1315 | 1315 | 75 | 160 | 37 | 3,56 | 79,99 | 29,97 | 3 700 | 4 400 |
| 1316 | 1316 | 80 | 170 | 39 | 4,18 | 88,4 | 33,3 | 3 500 | 4 200 |
| 1317 | 1317 | 85 | 180 | 41 | 4,98 | 98,71 | 37,87 | 3 300 | 4 000 |
| 1318M | 1318M | 90 | 190 | 43 | 5,80 | 117 | 44,23 | 3 200 | 3 800 |
| 1319 | 1319 | 95 | 200 | 45 | 6,69 | 133,99 | 51,03 | 3 000 | 3 500 |
| 1320 | 1320 | 100 | 215 | 47 | 8,30 | 144,43 | 57,8 | 2 800 | 3 300 |
| 1321 | 1321 | 105 | 225 | 49 | 10,00 | 149,2 | 60,5 | 2 600 | 3 200 |
| 1322 | 1322 | 110 | 240 | 50 | 11,80 | 164,63 | 71,6 | 2 500 | 3 100 |
| 1324 | 1324 | 120 | 260 | 55 | 17,60 | 195,6 | 91 | 2 400 | 3 000 |
| 2200 | 1500 | 10 | 30 | 14 | 0,04 | 7,55 | 1,63 | 24 500 | 29 500 |
| 2201 | 1501 | 12 | 32 | 14 | 0,05 | 8,17 | 1,83 | 23 700 | 28 000 |
| 2202 | 1502 | 15 | 35 | 14 | 0,06 | 8,51 | 1,98 | 20 000 | 24 000 |



DOUBLE ROW SPHERICAL BALL BEARINGS WITH
CYLINDRICAL BORE

ŁOŻYSKA KULKOWE DWURZĘDOWE WAHLIWE Z OTWOREM
CYLINDRYCZNYM



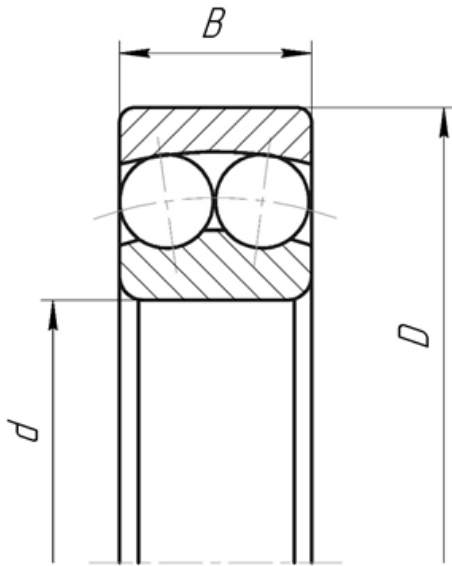
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 2203 | 1503 | 17 | 40 | 16 | 0,09 | 10,9 | 2,62 | 16 500 | 19 500 |
| 2204 | 1504 | 20 | 47 | 18 | 0,14 | 15,97 | 3,93 | 14 000 | 16 500 |
| 2205 | 1505 | 25 | 52 | 18 | 0,16 | 13,96 | 3,78 | 12 300 | 14 500 |
| 2206 | 1506 | 30 | 62 | 20 | 0,26 | 18,19 | 5,28 | 10 500 | 12 500 |
| 2207 | 1507 | 35 | 72 | 23 | 0,40 | 24,58 | 7,39 | 9 100 | 10 500 |
| 2208 | 1508 | 40 | 80 | 23 | 0,51 | 28,63 | 8,95 | 7 800 | 9 300 |
| 2209 | 1509 | 45 | 85 | 23 | 0,55 | 26,5 | 8,97 | 7 300 | 8 700 |
| 2210 | 1510 | 50 | 90 | 23 | 0,59 | 26,93 | 9,37 | 6 900 | 8 200 |
| 2211 | 1511 | 55 | 100 | 25 | 0,81 | 30,93 | 11,1 | 6 200 | 7 300 |
| 2212 | 1512 | 60 | 110 | 28 | 1,09 | 39,34 | 14,03 | 5 600 | 6 600 |
| 2213 | 1513 | 65 | 120 | 31 | 1,46 | 48,54 | 17,63 | 5 200 | 6 100 |
| 2214 | 1514 | 70 | 125 | 31 | 1,52 | 44,47 | 18 | 4 900 | 5 800 |
| 2215 | 1515 | 75 | 130 | 31 | 1,62 | 49,51 | 19,23 | 4 600 | 5 500 |
| 2216 | 1516 | 80 | 140 | 33 | 2,01 | 54,82 | 21,83 | 4 300 | 5 100 |
| 2217 | 1517 | 85 | 150 | 36 | 2,52 | 58,5 | 23,63 | 3 900 | 4 600 |
| 2218 | 1518 | 90 | 160 | 40 | 3,40 | 70,54 | 28,57 | 3 700 | 4 400 |
| 2219 | 1519 | 95 | 170 | 43 | 4,10 | 84,03 | 34,37 | 3 400 | 4 100 |
| 2220 | 1520 | 100 | 180 | 46 | 4,98 | 96,81 | 40,53 | 3 300 | 4 000 |
| 2221 | 1521 | 105 | 190 | 50 | 6,07 | 110 | 46 | 3 000 | 3 600 |
| 2222 | 1522 | 110 | 200 | 53 | 7,10 | 123,87 | 52,03 | 2 900 | 3 400 |
| 2300 | 1600 | 10 | 35 | 17 | 0,07 | 10 | 2,2 | 18 000 | 21 000 |
| 2301 | 1601 | 12 | 37 | 17 | 0,10 | 11,8 | 2,8 | 17 000 | 20 000 |
| 2302 | 1602 | 15 | 42 | 17 | 0,11 | 12 | 3 | 15 000 | 18 000 |
| 2303 | 1603 | 17 | 47 | 19 | 0,16 | 14,5 | 3,6 | 13 000 | 16 000 |
| 2304 | 1604 | 20 | 52 | 21 | 0,21 | 18,4 | 4,8 | 11 000 | 14 000 |
| 2305 | 1605 | 25 | 62 | 24 | 0,34 | 25,55 | 6,72 | 9 800 | 11 500 |
| 2306 | 1606 | 30 | 72 | 27 | 0,50 | 31,35 | 8,75 | 8 200 | 9 500 |



ŁOŻYSKA KULKOWE DWURZĘDOWE

SELF-ALIGNING DOUBLE ROW BALL BEARINGS

DOUBLE ROW SPHERICAL BALL BEARINGS WITH
CYLINDRICAL BORE



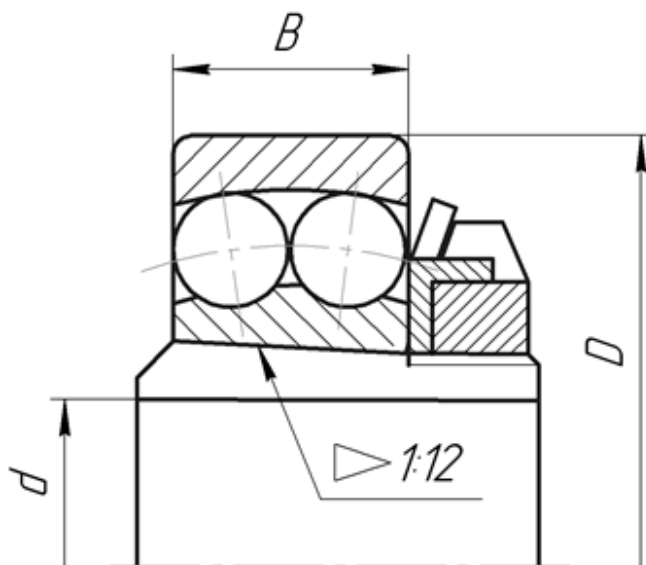
ŁOŻYSKA KULKOWE DWURZĘDOWE WAHLIWE Z OTWOREM
CYLINDRYCZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 2307 | 1607 | 35 | 80 | 31 | 0,68 | 39,63 | 11,17 | 7 300 | 8 700 |
| 2308 | 1608 | 40 | 90 | 33 | 0,93 | 48,38 | 14,23 | 6 500 | 7 800 |
| 2309 | 1609 | 45 | 100 | 36 | 1,23 | 57,7 | 17,4 | 5 800 | 6 900 |
| 2310 | 1610 | 50 | 110 | 40 | 1,64 | 64,13 | 20,03 | 5 200 | 6 200 |
| 2311 | 1611 | 55 | 120 | 43 | 2,10 | 75,73 | 23,83 | 4 800 | 5 800 |
| 2312 | 1612 | 60 | 130 | 46 | 2,60 | 87,07 | 28,23 | 4 400 | 5 200 |
| 2313 | 1613 | 65 | 140 | 48 | 3,23 | 96,83 | 32,47 | 4 000 | 4 800 |
| 2314 | 1614 | 70 | 150 | 51 | 3,90 | 110,76 | 37,53 | 3 700 | 4 400 |
| 2315 | 1615 | 75 | 160 | 55 | 4,72 | 124,56 | 42,83 | 3 500 | 4 200 |
| 2316 | 1616 | 80 | 170 | 58 | 6,10 | 135 | 48,73 | 3 200 | 3 900 |
| 2317 | 1617 | 85 | 180 | 60 | 7,05 | 141,4 | 51,03 | 3 100 | 3 700 |
| 2318 | 1618 | 90 | 190 | 64 | 8,44 | 152,53 | 57,43 | 2 900 | 3 500 |
| 2319 | 1619 | 95 | 200 | 67 | 9,79 | 166,65 | 64,1 | 2 700 | 3 200 |
| 2320 | 1620 | 100 | 215 | 73 | 12,40 | 192,59 | 79,3 | 2 500 | 3 100 |
| 2321 | 1621 | 105 | 225 | 77 | 14,30 | 188 | 79 | 2 300 | 3 000 |
| 2322 | 1622 | 110 | 240 | 80 | 17,30 | 219,76 | 94,7 | 2 200 | 2 900 |



DOUBLE ROW SPHERICAL BALL BEARINGS WITH
ADAPTER SLEEVE

ŁOŻYSKA KULKOWE WAHLIWE Z TULEJĄ



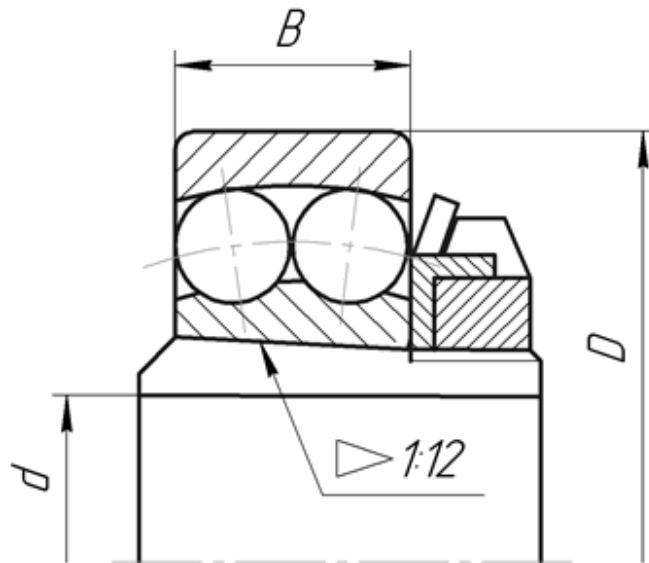
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 1204K+H204 | 11203 | 17 | 47 | 14 | 0,17 | 11,88 | 3,15 | 14 500 | 17 500 |
| 1205K+H205 | 11204 | 20 | 52 | 15 | 0,21 | 12,89 | 3,55 | 12 300 | 15 000 |
| 1206K+H206 | 11205 | 25 | 62 | 16 | 0,32 | 15,9 | 4,69 | 10 500 | 12 500 |
| 1207K+H207 | 11206 | 30 | 72 | 17 | 0,44 | 16,96 | 5,4 | 9 200 | 10 500 |
| 1208K+H208 | 11207 | 35 | 80 | 18 | 0,59 | 19,59 | 6,67 | 7 900 | 9 400 |
| 1209K+H209 | 11208 | 40 | 85 | 19 | 0,69 | 22,32 | 7,52 | 7 400 | 8 800 |
| 1210K+H210 | 11209 | 45 | 90 | 20 | 0,79 | 24,13 | 8,45 | 7 000 | 8 300 |
| 1211K+H211 | 11210 | 50 | 100 | 21 | 1,00 | 27,23 | 10,2 | 6 200 | 7 400 |
| 1212K+H212 | 11211 | 55 | 110 | 22 | 1,25 | 30,73 | 11,83 | 5 600 | 6 700 |
| 1213K+H213 | 11212 | 60 | 120 | 23 | 1,55 | 32,68 | 12,9 | 5 200 | 6 200 |
| 1215K+H215 | 11213 | 65 | 130 | 25 | 2,05 | 39,36 | 15,53 | 4 700 | 5 600 |
| 1216K+H216 | 11214 | 70 | 140 | 26 | 2,50 | 40,23 | 16,9 | 4 400 | 5 200 |
| 1217K+H217 | 11215 | 75 | 150 | 28 | 3,05 | 49,46 | 20,5 | 4 000 | 4 700 |
| 1218K+H218 | 11216 | 80 | 160 | 30 | 3,65 | 57,62 | 23,47 | 3 800 | 4 500 |
| 1220K+H220 | 11218 | 90 | 180 | 34 | 5,15 | 69,66 | 29,6 | 3 300 | 4 000 |
| 1222K+H222 | 11220 | 100 | 200 | 38 | 7,00 | 88,98 | 38,6 | 3 000 | 3 600 |
| 1224K+H3024 | 11222 | 110 | 215 | 42 | 8,60 | 119 | 52,7 | 2 800 | 3 300 |
| 1304K+H304 | 11303 | 17 | 52 | 15 | 0,16 | 16,5 | 3,7 | 14 900 | 17 000 |
| 1305K+H305 | 11304 | 20 | 62 | 17 | 0,33 | 18,6 | 5,3 | 11 500 | 13 500 |
| 1306K+H306 | 11305 | 25 | 72 | 19 | 0,49 | 22,1 | 6,7 | 9 900 | 11 700 |
| 1307K+H307 | 11306 | 30 | 80 | 21 | 0,64 | 26 | 8,3 | 8 400 | 9 900 |
| 1308K+H308 | 11307 | 35 | 90 | 23 | 0,89 | 33,1 | 11 | 7 300 | 8 600 |
| 1309K+H309 | 11308 | 40 | 100 | 25 | 1,20 | 38,2 | 13,1 | 6 500 | 7 700 |
| 1310K+H310 | 11309 | 45 | 110 | 27 | 1,50 | 42,7 | 13,7 | 6 100 | 7 200 |
| 1311K+H311 | 11310 | 50 | 120 | 29 | 1,90 | 49,7 | 17,6 | 5 700 | 6 800 |
| 1312K+H312 | 11311 | 55 | 130 | 31 | 2,30 | 57,3 | 21,6 | 4 800 | 5 700 |
| 1313K+H313 | 11312 | 60 | 140 | 33 | 2,85 | 63,7 | 25 | 4 600 | 5 400 |



ŁOŻYSKA KULKOWE DWURZĘDOWE

SELF-ALIGNING DOUBLE ROW BALL BEARINGS

DOUBLE ROW SPHERICAL BALL BEARINGS WITH ADAPTER SLEEVE



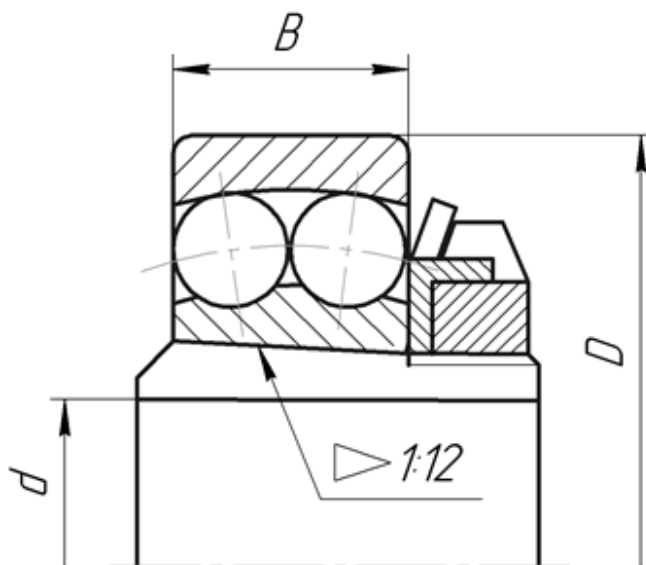
ŁOŻYSKA KULKOWE WAHLIWE Z TULEJĄ

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 1315K+H315 | 11313 | 65 | 160 | 37 | 4,35 | 77,7 | 29,4 | 4 300 | 5 000 |
| 1316K+H316 | 11314 | 70 | 170 | 39 | 5,15 | 86,6 | 32,8 | 4 100 | 4 800 |
| 1317K+H317 | 11315 | 75 | 180 | 41 | 6,10 | 95,6 | 37,2 | 3 700 | 4 300 |
| 1318K+H318 | 11316 | 80 | 190 | 43 | 7,05 | 114,7 | 43,1 | 3 400 | 4 100 |
| 1319K+H319 | 11317 | 85 | 200 | 45 | 8,26 | 130,3 | 50 | 3 300 | 3 900 |
| 1320K+H320 | 11318 | 90 | 215 | 47 | 9,90 | 140,1 | 55,9 | 3 100 | 3 600 |
| 1322K+H322 | 11320 | 100 | 240 | 50 | 14,00 | 159,7 | 70,6 | 2 800 | 3 200 |
| 2205K+H305 | 11504 | 20 | 52 | 18 | 0,25 | 13,96 | 3,78 | 12 300 | 14 500 |
| 2206K+H306 | 11505 | 25 | 62 | 20 | 0,36 | 18,19 | 5,28 | 10 500 | 12 500 |
| 2207K+H307 | 11506 | 30 | 72 | 23 | 0,54 | 24,58 | 7,39 | 9 100 | 10 500 |
| 2208K+H308 | 11507 | 35 | 80 | 23 | 0,68 | 28,63 | 8,95 | 7 800 | 9 300 |
| 2209K+H309 | 11508 | 40 | 85 | 23 | 0,78 | 26,5 | 8,97 | 7 300 | 8 400 |
| 2210K+H310 | 11509 | 45 | 90 | 23 | 0,88 | 26,93 | 9,37 | 6 900 | 8 200 |
| 2211K+H311 | 11510 | 50 | 100 | 25 | 1,15 | 30,93 | 11,1 | 6 200 | 7 300 |
| 2212K+H312 | 11511 | 55 | 110 | 28 | 1,45 | 39,34 | 14,03 | 5 500 | 6 600 |
| 2213K+H313 | 11512 | 60 | 120 | 31 | 1,90 | 48,54 | 17,63 | 5 200 | 6 100 |
| 2215K+H315 | 11513 | 65 | 130 | 31 | 2,40 | 49,51 | 19,23 | 4 600 | 5 500 |
| 2216K+H316 | 11514 | 70 | 140 | 33 | 3,00 | 54,82 | 21,83 | 4 300 | 5 200 |
| 2217K+H317 | 11515 | 75 | 150 | 36 | 3,65 | 58,5 | 23,63 | 3 900 | 4 600 |
| 2218K+H318 | 11516 | 80 | 160 | 40 | 4,70 | 70,54 | 28,57 | 3 700 | 4 200 |
| 2220K+H320 | 11518 | 90 | 180 | 46 | 6,55 | 96,57 | 40,53 | 3 300 | 4 000 |
| 2222K+H322 | 11520 | 100 | 200 | 53 | 9,10 | 123,87 | 52,03 | 2 900 | 3 400 |
| 2306K+H2306 | 11605 | 25 | 72 | 27 | 0,62 | 31,35 | 8,75 | 8 200 | 9 500 |
| 2307K+H2307 | 11606 | 30 | 80 | 31 | 0,82 | 39,63 | 11,17 | 7 300 | 8 700 |
| 2308K+H2308 | 11607 | 35 | 90 | 33 | 1,15 | 48,38 | 14,23 | 6 500 | 7 800 |
| 2309K+H2309 | 11608 | 40 | 100 | 36 | 1,50 | 57,7 | 17,4 | 5 800 | 6 900 |

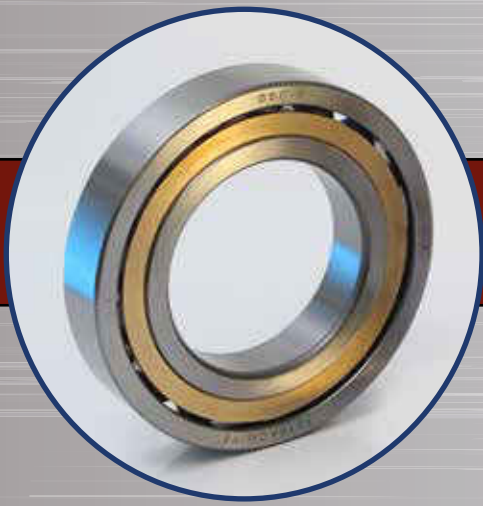


DOUBLE ROW SPHERICAL BALL BEARINGS WITH
ADAPTER SLEEVE

ŁOŻYSKA KULKOWE WAHLIWE Z TULEJĄ



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 2310K+H2310 | 11609 | 45 | 110 | 40 | 1,95 | 64,13 | 20,03 | 5 200 | 6 200 |
| 2311K+H2311 | 11610 | 50 | 120 | 43 | 2,45 | 75,73 | 23,83 | 4 800 | 5 800 |
| 2312K+H2312 | 11611 | 55 | 130 | 46 | 3,00 | 87,07 | 28,23 | 4 400 | 5 200 |
| 2313K+H2313 | 11612 | 60 | 140 | 48 | 3,70 | 96,83 | 32,47 | 4 000 | 4 800 |
| 2315K+H2315 | 11613 | 65 | 160 | 55 | 5,65 | 124,56 | 42,83 | 3 500 | 4 200 |
| 2316K+H2316 | 11614 | 70 | 170 | 58 | 7,25 | 135 | 48,73 | 3 200 | 3 900 |
| 2317K+H2317 | 11615 | 75 | 180 | 60 | 8,35 | 141,4 | 51,03 | 3 100 | 3 700 |
| 2318K+H2318 | 11616 | 80 | 190 | 64 | 10,00 | 152,53 | 57,43 | 2 900 | 3 200 |
| 2320K+H2320 | 11618 | 90 | 215 | 73 | 15,30 | 192,59 | 79,3 | 2 500 | 3 100 |



Angular contact ball bearings

Angular contact ball bearings are available in many designs and sizes. The most widely used designs are: single row and double row bearings. Basic bearing designations are indicated in the catalogue datasheets and are in accordance with international ISO and/or GOST standards. The system listed below with suffixes is applied to differentiate design variants. You can get in touch with our services to clarify a bearing design availability, to get additional bearing technical data, which is not listed in the catalogue as well as to discuss with our technical experts your specific requirements for a bearing design.

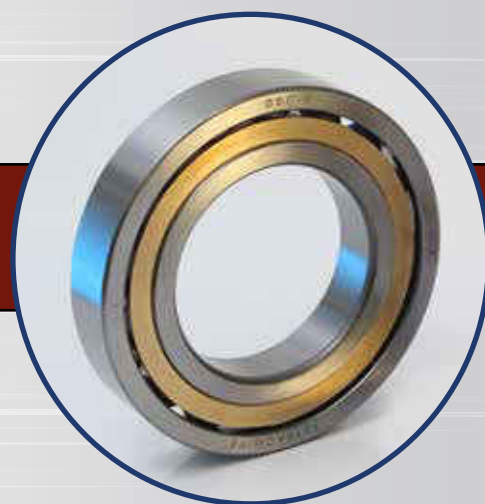
Łożyska kulkowe skośne są produkowane w różnych konstrukcjach i rozmiarach. Najczęściej spotykane konstrukcje to łożyska jednorzędowe i dwurzędowe. W tabeli katalogowej podstawowe oznaczenia łożysk są podane zgodnie z międzynarodowymi normami ISO i/lub GOST. Do oznaczania różnych wariantów konstrukcyjnych stosuje się system przyrostków, jak pokazano poniżej. Możecie Państwo zwrócić się do naszych służb w celu wyjaśnienia dostępnych wykonań, uzyskania dodatkowych parametrów dla produktów nieujętych w katalogu, jak również omówienia z naszymi specjalistami technicznymi Państwa specjalnych wymagań dotyczących konstrukcji łożysk.

DESIGNATION SCHEME

WZÓR OZNACZENIA

| | | | | |
|-----------------------|---------------------------------|-------------------------------------|---|--|
| Basic designation | Internal design (AC, C, B) | Cage (without suffix, M, Y,P) | / | Accuracy (without suffix, P6) |
| Oznaczenie podstawowe | Budowa wewnętrzna (AC, C, B) | Koszyk (bez przedrostka), M, Y, P) | / | Klasa dokładności; (bez przedrostka, P6) |

Łożyska kulkowe skośne



SUFFIXES DESIGNATION

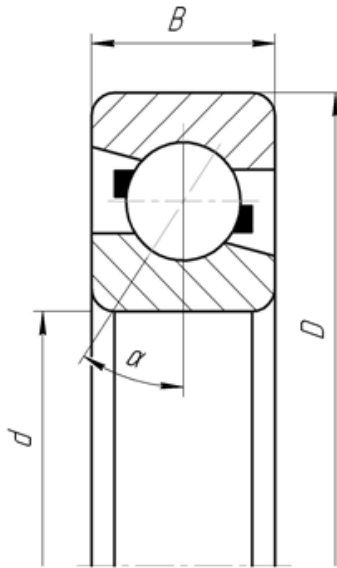
OZNACZENIA PRZEDROSTKÓW

| | | |
|-----------------------------------|---|--|
| without suffix bez przedrostka | stamped steel cage, ball centered; dimensional and running accuracy to normal class | koszyk z tłoczonej stali centrowany na kulkach; normalnej dokładności |
| AC | contact angle 25° | kąt styku 25° |
| C | contact angle 15° | kąt styku 15° |
| B | contact angle 40° | kąt styku 40° |
| M | machined brass cage, ball centered | mosiężny koszyk obrobiony mechanicznie centrowany na kulkach |
| P | poliamid cage | koszyk poliamidowy |
| Y | stamped brass cage, ball centered | mosiężny tłoczony koszyk centrowany na kulkach |
| P6 | dimensional and running accuracy to ISO tolerance class 6 | dokładność wymiarowa i obrotowa zgodnie z klasą ISO P6 |
| | | |



SINGLE ROW ANGULAR CONTACT BALL BEARINGS

ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE

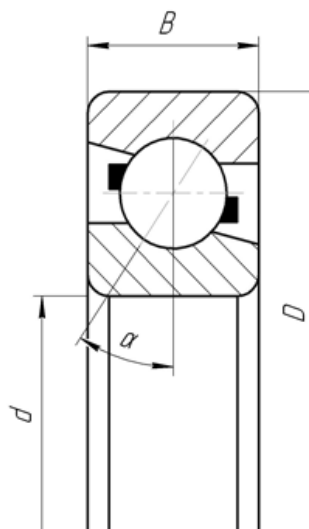


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 7203 B | 66203 | 17 | 40 | 12 | 0,07 | 11 | 6 | 15300 | 18000 |
| 7204 B | 66204 | 20 | 47 | 14 | 0,11 | 13 | 8 | 13800 | 16200 |
| 7205 B | 66205 | 25 | 52 | 15 | 0,14 | 15 | 10 | 11500 | 13500 |
| 7206 B | 66206 | 30 | 62 | 16 | 0,2 | 23 | 15 | 9900 | 11700 |
| 7207 B | 66207 | 35 | 72 | 17 | 0,29 | 30 | 20 | 8400 | 9900 |
| 7208 B | 66208 | 40 | 80 | 18 | 0,37 | 36 | 25 | 7700 | 9000 |
| 7209 B | 66209 | 45 | 85 | 19 | 0,43 | 37 | 27 | 6900 | 8100 |
| 7210 B | 66210 | 50 | 90 | 20 | 0,48 | 38 | 30 | 6500 | 7700 |
| 7211 B | 66211 | 55 | 100 | 21 | 0,63 | 48 | 37 | 5700 | 6800 |
| 7212 B | 66212 | 60 | 110 | 22 | 0,8 | 56 | 45 | 5400 | 6300 |
| 7213 B | 66213 | 65 | 120 | 23 | 1 | 65 | 53 | 4800 | 5700 |
| 7214 B | 66214 | 70 | 125 | 24 | 1,1 | 70 | 59 | 4600 | 5400 |
| 7215 B | 66215 | 75 | 130 | 25 | 1,48 | 71 | 63 | 4300 | 5000 |
| 7216 B | 66216 | 80 | 140 | 26 | 1,84 | * | * | * | * |
| 7217 B | 66217 | 85 | 150 | 28 | 2,21 | 94 | 81 | 3800 | 4500 |
| 7218 B | 66218 | 90 | 160 | 30 | 2,26 | 106 | 95 | 3400 | 4100 |
| 7219 B | 66219 | 95 | 170 | 32 | 2,63 | 122 | 106 | 3300 | 3900 |
| 7220 B | 66220 | 100 | 180 | 34 | 3,32 | 132 | 120 | 3100 | 3600 |
| 7222 B | 66222 | 110 | 200 | 38 | 4,62 | 150 | 140 | 2900 | 3400 |
| 7224 B | 66224 | 120 | 215 | 40 | 5,48 | 162 | 160 | 2800 | 3200 |
| 7303 B | 66303 | 17 | 47 | 14 | 0,12 | 16 | 8 | 14500 | 17100 |
| 7304 B | 66304 | 20 | 52 | 15 | 0,16 | 19 | 10 | 12200 | 14400 |
| 7305 B | 66305 | 25 | 62 | 17 | 0,25 | 25 | 15 | 10700 | 12600 |
| 7306 B | 66306 | 30 | 72 | 19 | 0,38 | 34 | 21 | 9200 | 10800 |
| 7307 B | 66307 | 35 | 80 | 21 | 0,5 | 38 | 24 | 7700 | 9000 |
| 7308 B | 66308 | 40 | 90 | 23 | 0,69 | 48 | 33 | 6900 | 8100 |
| 7309 B | 66309 | 45 | 100 | 25 | 0,92 | 59 | 41 | 6100 | 7200 |
| 7310 B | 66310 | 50 | 110 | 27 | 1,2 | 73 | 50 | 5700 | 6800 |

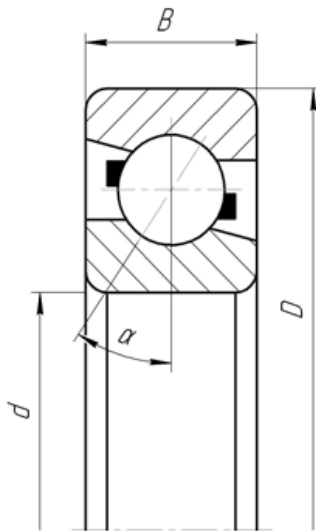


SINGLE ROW ANGULAR CONTACT BALL BEARINGS

ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 7311 B | 66311 | 55 | 120 | 29 | 1,55 | 84 | 59 | 5100 | 6000 |
| 7312 B | 66312 | 60 | 130 | 31 | 1,94 | 94 | 68 | 4600 | 5400 |
| 7313 B | 66313 | 65 | 140 | 33 | 2,38 | 106 | 78 | 4300 | 5000 |
| 7314 B | 66314 | 70 | 150 | 35 | 2,89 | 117 | 88 | 4100 | 4800 |
| 7315 B | 66315 | 75 | 160 | 37 | 3,47 | 123 | 96 | 3800 | 4500 |
| 7316 B | 66316 | 80 | 170 | 39 | 4,12 | 140 | 116 | 3400 | 4100 |
| 7317 B | 66317 | 85 | 180 | 41 | 4,84 | 143 | 110 | 3300 | 3900 |
| 7318 B | 66318 | 90 | 190 | 43 | 5,65 | 153 | 131 | 3100 | 3600 |
| 7319 B | 66319 | 95 | 200 | 45 | 6,25 | 165 | 147 | 2900 | 3400 |
| 7320 B | 66320 | 100 | 215 | 47 | 8,04 | 199 | 186 | 2800 | 3200 |
| 7322 B | 66322 | 110 | 240 | 50 | 10,8 | 221 | 220 | 2400 | 2900 |
| 7330 B | 66330 | 150 | 320 | 65 | 24,4 | 302 | 300 | 1700 | 2200 |
| 7405 B | 66405 | 25 | 80 | 21 | 0,5 | 40 | 22 | 7000 | 10000 |
| 7406 B | 66406 | 30 | 90 | 23 | 0,77 | 44 | 28 | 5000 | 6700 |
| 7407 B | 66407 | 35 | 100 | 25 | 1,05 | 45 | 34 | 5000 | 6300 |
| 7408 B | 66408 | 40 | 110 | 27 | 1,37 | 72 | 42 | 5100 | 7000 |
| 7409 B | 66409 | 45 | 120 | 29 | 1,75 | 82 | 47 | 4000 | 5300 |
| 7410 B | 66410 | 50 | 130 | 31 | 2,17 | 99 | 60 | 2800 | 3400 |
| 7411 B | 66411 | 55 | 140 | 33 | 2,3 | * | * | * | * |
| 7412 B | 66412 | 60 | 150 | 35 | 3,37 | 125 | 80 | 4300 | 5600 |
| 7413 B | 66413 | 65 | 160 | 37 | 3,4 | * | * | * | * |
| 7414 B | 66414 | 70 | 180 | 42 | 5,74 | 152 | 109 | 3100 | 3800 |
| 7415 B | 66415 | 75 | 190 | 45 | 5,9 | * | * | * | * |
| 7416 B | 66414 | 80 | 200 | 48 | 7,25 | 196 | 160 | 2600 | 3400 |
| 7417 B | 66417 | 85 | 210 | 52 | 8 | * | * | * | * |
| 7418 B | 66418 | 90 | 225 | 54 | 12 | 221 | 187 | 2400 | 3200 |
| 7432 B | 66432 | 160 | 400 | 88 | 59,8 | * | * | * | * |



SINGLE ROW ANGULAR CONTACT BALL BEARINGS

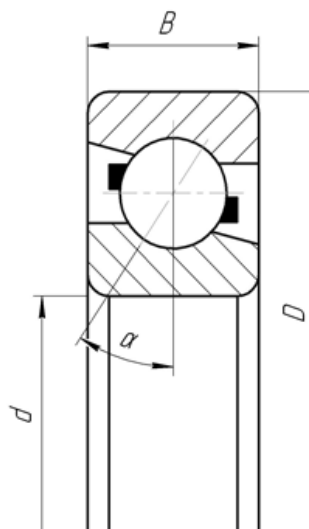
ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 7003 C | 36103 | 17 | 35 | 10 | 0,04 | 6 | 4 | 45000 | 67000 |
| 7004 C | 36104 | 20 | 42 | 12 | 0,07 | 8 | 5 | 36000 | 53000 |
| 7005 C | 36105 | 25 | 47 | 12 | 0,08 | 10 | 7 | 30000 | 45000 |
| 7006 C | 36106 | 30 | 55 | 13 | 0,12 | 12 | 9 | 26000 | 40000 |
| 7007 C | 36107 | 35 | 62 | 14 | 0,16 | 14 | 11 | 22000 | 36000 |
| 7008 C | 36108 | 40 | 68 | 15 | 0,2 | 21 | 16 | 20000 | 34000 |
| 7009 C | 36109 | 45 | 75 | 16 | 0,25 | 15 | 13 | 18000 | 30000 |
| 7010 C | 36110 | 50 | 80 | 16 | 0,27 | 39 | 21 | 17000 | 28000 |
| 7011 C | 36111 | 55 | 90 | 18 | 0,4 | * | * | * | * |
| 7012 C | 36112 | 60 | 95 | 18 | 0,42 | 39 | 33 | 14000 | 22000 |
| 7013 C | 36113 | 65 | 100 | 18 | 0,45 | * | * | * | * |
| 7014 C | 36114 | 70 | 110 | 20 | 0,62 | 46 | 42 | 12000 | 19000 |
| 7015 C | 36115 | 75 | 115 | 20 | 0,66 | * | * | * | * |
| 7016 C | 36116 | 80 | 125 | 22 | 0,88 | 59 | 55 | 11000 | 18000 |
| 7017 C | 36117 | 85 | 130 | 22 | 0,92 | 57 | 56 | 10000 | 17000 |
| 7018 C | 36118 | 90 | 140 | 24 | 1,19 | * | * | * | * |
| 7020 C | 36120 | 100 | 150 | 24 | 1,29 | * | * | * | * |
| 7022 C | 36122 | 110 | 170 | 28 | 2,02 | * | * | * | * |
| 7203 C | 36203 | 17 | 40 | 12 | 0,07 | 10 | 6 | 38000 | 56000 |
| 7204 C | 36204 | 20 | 47 | 14 | 0,11 | 10 | 7 | 32000 | 48000 |
| 7205 C | 36205 | 25 | 52 | 15 | 0,14 | 16 | 9 | 28000 | 43000 |
| 7206 C | 36206 | 30 | 62 | 16 | 0,2 | 14 | 12 | 24000 | 38000 |
| 7207 C | 36207 | 35 | 72 | 17 | 0,29 | 29 | 18 | 20000 | 34000 |
| 7208 C | 36208 | 40 | 80 | 18 | 0,37 | 27 | 20 | 18000 | 30000 |
| 7209 C | 36209 | 45 | 85 | 19 | 0,43 | 29 | 23 | 17000 | 28000 |
| 7210 C | 36210 | 50 | 90 | 20 | 0,48 | 29 | 23 | 16000 | 26000 |

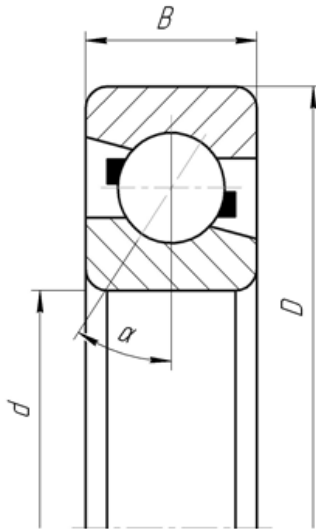


SINGLE ROW ANGULAR CONTACT BALL BEARINGS

ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 7211 C | 36211 | 55 | 100 | 21 | 0,63 | 35 | 31 | 14000 | 22000 |
| 7212 C | 36212 | 60 | 110 | 22 | 0,8 | 64 | 49 | 13000 | 20000 |
| 7214 C | 36214 | 70 | 125 | 24 | 1,1 | 77 | 60 | 11000 | 18000 |
| 7216 C | 36216 | 80 | 140 | 26 | 1,84 | * | * | * | * |
| 7217 C | 36217 | 85 | 150 | 28 | 2,2 | * | * | * | * |
| 7218 C | 36218 | 90 | 160 | 30 | 2,21 | * | * | * | * |
| 7219 C | 36219 | 95 | 170 | 32 | 2,63 | 122 | 108 | 7000 | 11000 |
| 7220 C | 36220 | 100 | 180 | 34 | 3,32 | * | * | * | * |
| 7318 C | 36318 | 90 | 190 | 43 | 5,65 | * | * | * | * |
| 7003 AC | 46103 | 17 | 35 | 10 | 0,04 | * | * | * | * |
| 7004 AC | 46104 | 20 | 42 | 12 | 0,07 | * | * | * | * |
| 7005 AC | 46105 | 25 | 47 | 12 | 0,08 | * | * | * | * |
| 7006 AC | 46106 | 30 | 55 | 13 | 0,12 | * | * | * | * |
| 7007 AC | 46107 | 35 | 62 | 14 | 0,16 | * | * | * | * |
| 7008 AC | 46108 | 40 | 68 | 15 | 0,2 | * | * | * | * |
| 7009 AC | 46109 | 45 | 75 | 16 | 0,25 | * | * | * | * |
| 7010 AC | 46110 | 50 | 80 | 16 | 0,27 | * | * | * | * |
| 7011 AC | 46111 | 55 | 90 | 18 | 0,4 | * | * | * | * |
| 7012 AC | 46112 | 60 | 95 | 18 | 0,42 | 37 | 31 | 13000 | 20000 |
| 7013 AC | 46113 | 65 | 100 | 18 | 0,45 | * | * | * | * |
| 7014 AC | 46114 | 70 | 110 | 20 | 0,62 | * | * | * | * |
| 7015 AC | 46115 | 75 | 115 | 20 | 0,66 | * | * | * | * |
| 7016 AC | 46116 | 80 | 125 | 22 | 0,88 | * | * | * | * |
| 7017 AC | 46117 | 85 | 130 | 22 | 0,92 | * | * | * | * |
| 7018 AC | 46118 | 90 | 140 | 24 | 1,19 | * | * | * | * |
| 7020 AC | 46120 | 100 | 150 | 24 | 1,29 | * | * | * | * |
| 7022 AC | 46122 | 110 | 170 | 28 | 2,02 | * | * | * | * |



SINGLE ROW ANGULAR CONTACT BALL BEARINGS

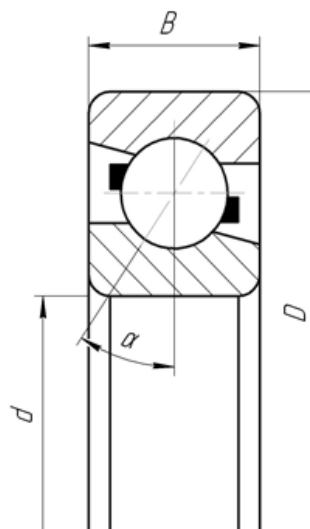
ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 7024 AC | 46124 | 120 | 180 | 28 | 2,17 | 98 | 104 | 6300 | 9500 |
| 7026 AC | 46126 | 130 | 200 | 33 | 3,28 | 125 | 137 | 5600 | 8500 |
| 7028 AC | 46128 | 140 | 210 | 33 | 3,48 | * | * | * | * |
| 7202 AC | 46202 | 15 | 35 | 11 | 0,05 | * | * | * | * |
| 7203 AC | 46203 | 17 | 40 | 12 | 0,07 | 10 | 6 | 15000 | 20000 |
| 7204 AC | 46204 | 20 | 47 | 14 | 0,11 | * | * | * | * |
| 7205 AC | 46205 | 25 | 52 | 15 | 0,14 | * | * | * | * |
| 7206 AC | 46206 | 30 | 62 | 16 | 0,2 | * | * | * | * |
| 7207 AC | 46207 | 35 | 72 | 17 | 0,29 | 29 | 19 | 19000 | 32000 |
| 7208 AC | 46208 | 40 | 80 | 18 | 0,37 | * | * | * | * |
| 7209 AC | 46209 | 45 | 85 | 19 | 0,43 | * | * | * | * |
| 7210 AC | 46210 | 50 | 90 | 20 | 0,48 | * | * | * | * |
| 7211 AC | 46211 | 55 | 100 | 21 | 0,63 | * | * | * | * |
| 7212 AC | 46212 | 60 | 110 | 22 | 0,8 | 61 | 48 | 12000 | 19000 |
| 7213 AC | 46213 | 65 | 120 | 23 | 1,00 | * | * | * | * |
| 7214 AC | 46214 | 70 | 125 | 24 | 1,10 | 72 | 57 | 10000 | 17000 |
| 7215 AC | 46215 | 75 | 130 | 25 | 1,48 | 99 | 65 | 9500 | 16000 |
| 7216 AC | 46216 | 80 | 140 | 26 | 1,84 | * | * | * | * |
| 7217 AC | 46217 | 85 | 150 | 28 | 2,21 | 90 | 80 | 3400 | 4500 |
| 7218 AC | 46218 | 90 | 160 | 30 | 2,26 | 106 | 93 | 3200 | 4300 |
| 7220 AC | 46220 | 100 | 180 | 34 | 3,32 | * | * | * | * |
| 7222 AC | 46222 | 110 | 200 | 38 | 4,62 | * | * | * | * |
| 7224 AC | 46224 | 120 | 215 | 40 | 5,48 | * | * | * | * |
| 7230 AC | 46230 | 150 | 270 | 45 | 9,7 | * | * | * | * |
| 7234 AC | 46234 | 170 | 310 | 52 | 19,3 | 303 | 300 | 1800 | 2600 |
| 7303 AC | 46303 | 17 | 47 | 14 | 0,12 | * | * | * | * |



SINGLE ROW ANGULAR CONTACT BALL BEARINGS

ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE

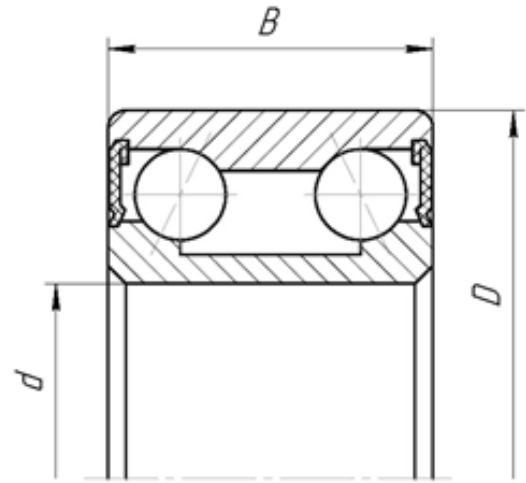
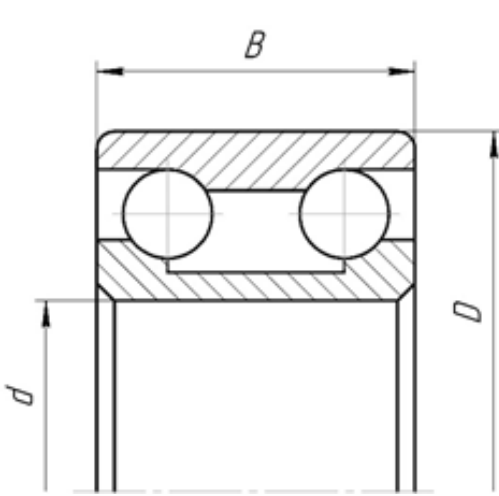


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 7304 AC | 46304 | 20 | 52 | 15 | 0,16 | * | * | * | * |
| 7305 AC | 46305 | 25 | 62 | 17 | 0,25 | * | * | * | * |
| 7306 AC | 46306 | 30 | 72 | 19 | 0,38 | * | * | * | * |
| 7307 AC | 46307 | 35 | 80 | 21 | 0,51 | 27 | 18 | 8000 | 11000 |
| 7308 AC | 46308 | 40 | 90 | 23 | 0,7 | 32 | 23 | 7000 | 9500 |
| 7309 AC | 46309 | 45 | 100 | 25 | 0,93 | 60 | 40 | 5600 | 7500 |
| 7310 AC | 46310 | 50 | 110 | 27 | 1,2 | * | * | * | * |
| 7311 AC | 46311 | 55 | 120 | 29 | 1,55 | * | * | * | * |
| 7312 AC | 46312 | 60 | 130 | 31 | 1,94 | * | * | * | * |
| 7313 AC | 46313 | 65 | 140 | 33 | 2,38 | * | * | * | * |
| 7314 AC | 46314 | 70 | 150 | 35 | 2,89 | * | * | * | * |
| 7315 AC | 46315 | 75 | 160 | 37 | 3,47 | * | * | * | * |
| 7316 AC | 46316 | 80 | 170 | 39 | 4,12 | 161 | 116 | 3200 | * |
| 7317 AC | 46317 | 85 | 180 | 41 | 4,84 | * | * | * | * |
| 7318 AC | 46318 | 90 | 190 | 43 | 5,65 | * | * | * | * |
| 7319 AC | 46319 | 95 | 200 | 45 | 6,25 | * | * | * | * |
| 7320 AC | 46320 | 100 | 215 | 47 | 8,04 | * | * | * | * |
| 7324 AC | 46324 | 120 | 260 | 55 | 13,7 | * | * | * | * |
| 7330 AC | 46330 | 150 | 320 | 65 | 24,4 | 325 | 390 | 1700 | 2400 |
| 7416 AC | 46416 | 80 | 200 | 48 | 7,25 | * | * | * | * |
| 7418 AC | 46418 | 90 | 190 | 43 | 12,00 | 208 | 162 | 2600 | 3600 |



DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

ŁOŻYSKA KULKOWE SKOŚNE DWURZĘDOWE



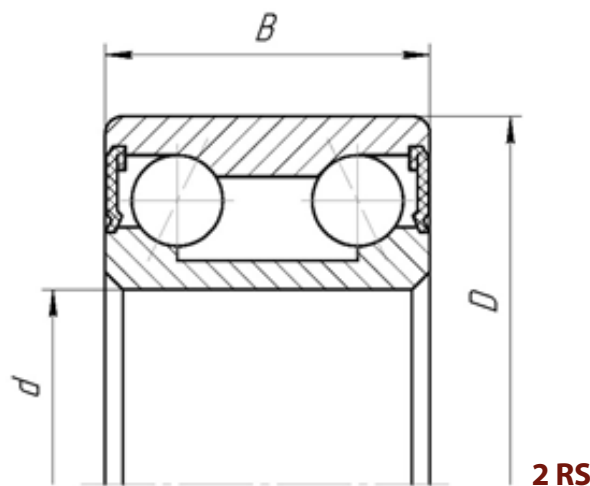
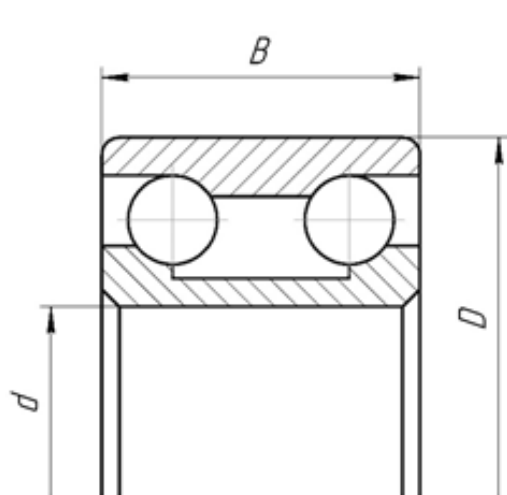
2 RS

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 3201 | 3056201 | 12 | 32 | 15,9 | 0,05 | 10 | 5 | 16800 | 19800 |
| 3202 | 3056202 | 15 | 35 | 15,9 | 0,06 | 12 | 7 | 13800 | 16200 |
| 3203 | 3056203 | 17 | 40 | 17,5 | 0,1 | 14 | 9 | 12200 | 14400 |
| 3204 | 3056204 | 20 | 47 | 20,6 | 0,17 | 20 | 12 | 10700 | 12600 |
| 3205 | 3056205 | 25 | 52 | 20,6 | 0,19 | 21 | 14 | 9200 | 10800 |
| 3206 | 3056206 | 30 | 62 | 23,8 | 0,31 | 29 | 20 | 7700 | 9000 |
| 3207 | 3056207 | 35 | 72 | 27 | 0,48 | 39 | 27 | 6900 | 8100 |
| 3208 | 3056208 | 40 | 80 | 30,2 | 0,65 | 47 | 33 | 6100 | 7200 |
| 3209 | 3056209 | 45 | 85 | 30,2 | 0,7 | 50 | 38 | 5700 | 6800 |
| 3210 | 3056210 | 50 | 90 | 30,2 | 0,74 | 50 | 38 | 5400 | 6300 |
| 3211 | 3056211 | 55 | 100 | 33,3 | 1,05 | 59 | 47 | 4800 | 5700 |
| 3212 | 3056212 | 60 | 110 | 36,5 | 1,36 | 72 | 57 | 4300 | 5000 |
| 3213 | 3056213 | 65 | 120 | 38,1 | 1,76 | 79 | 72 | 3700 | 4300 |
| 3214 | 3056214 | 70 | 125 | 39,7 | 1,93 | 87 | 78 | 3400 | 4100 |
| 3215 | 3056215 | 75 | 130 | 41,3 | 2,08 | 94 | 86 | 3400 | 4100 |
| 3216 | 3056216 | 80 | 140 | 44,4 | 2,64 | 104 | 93 | 3300 | 3900 |
| 3217 | 3056217 | 85 | 150 | 49,2 | 3,39 | 122 | 108 | 2900 | 3400 |
| 3218 | 3056218 | 90 | 160 | 52,4 | 4,14 | 127 | 118 | 2800 | 3200 |
| 3219 | 3056219 | 95 | 170 | 55,6 | 5 | 156 | 143 | 2600 | 3100 |
| 3220 | 3056220 | 100 | 180 | 60,3 | 5,4 | 157 | 173 | 2300 | 2800 |
| 3222 | 3056222 | 110 | 200 | 69,8 | 8,79 | 208 | 208 | 2100 | 2500 |
| 3301 | 3056301 | 12 | 37 | 19 | 0,09 | * | * | * | * |
| 3302 | 3056302 | 15 | 42 | 19 | 0,13 | * | * | * | * |
| 3303 | 3056303 | 17 | 47 | 22,2 | 0,19 | 21 | 12 | 10700 | 12600 |
| 3304 | 3056304 | 20 | 52 | 22,2 | 0,23 | 23 | 14 | 9900 | 11700 |
| 3305 | 3056305 | 25 | 62 | 25,4 | 0,37 | 31 | 20 | 8400 | 9900 |
| 3306 | 3056306 | 30 | 72 | 30,2 | 0,58 | 41 | 27 | 6900 | 8100 |



DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

ŁOŻYSKA KULKOWE SKOŚNE DWURZĘDOWE

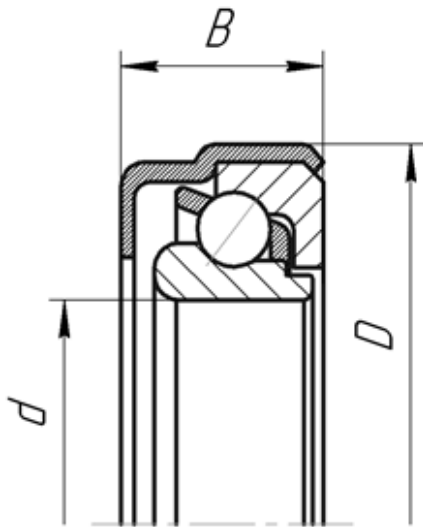


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 3307 | 3056307 | 35 | 80 | 34,9 | 0,78 | 51 | 35 | 6500 | 7700 |
| 3308 | 3056308 | 40 | 90 | 36,5 | 1,05 | 63 | 43 | 5700 | 6800 |
| 3309 | 3056309 | 45 | 100 | 39,7 | 1,41 | 74 | 52 | 5100 | 6000 |
| 3310 | 3056310 | 50 | 110 | 44,4 | 1,9 | 88 | 63 | 4600 | 5400 |
| 3311 | 3056311 | 55 | 120 | 49,2 | 2,48 | 110 | 80 | 4100 | 4800 |
| 3312 | 3056312 | 60 | 130 | 54 | 3,17 | 125 | 93 | 3800 | 4500 |
| 3313 | 3086313 | 65 | 140 | 58,7 | 3,90 | 143 | 108 | 3400 | 4100 |
| 3314 | 3056314 | 70 | 150 | 63,5 | 5,04 | 160 | 123 | 3300 | 3900 |
| 3315 | 3056315 | 75 | 160 | 68,3 | 6,16 | 173 | 137 | 3100 | 3600 |
| 3316 | 3056316 | 80 | 170 | 68,3 | 6,93 | 178 | 153 | 2800 | 3200 |
| 3317 | 3056317 | 85 | 180 | 73 | 8,3 | 191 | 172 | 2600 | 3100 |
| 3318 | 3056318 | 90 | 190 | 73 | 9,23 | 191 | 176 | 2400 | 2900 |
| 3319 | 3056319 | 95 | 200 | 77,8 | 11,4 | 221 | 212 | 2300 | 2700 |
| 3320 | 3056320 | 100 | 215 | 82,6 | 14,2 | 157 | 173 | 2300 | 2800 |
| 3321 | 3056321 | 105 | 225 | 87,3 | 16,4 | 252 | 290 | 2300 | 2700 |
| 3322 | 3056322 | 110 | 240 | 92,1 | 19,9 | 208 | 208 | 2100 | 2500 |



SPECIALLY DESIGNED SINGLE ROW ANGULAR CONTACT BALL BEARING

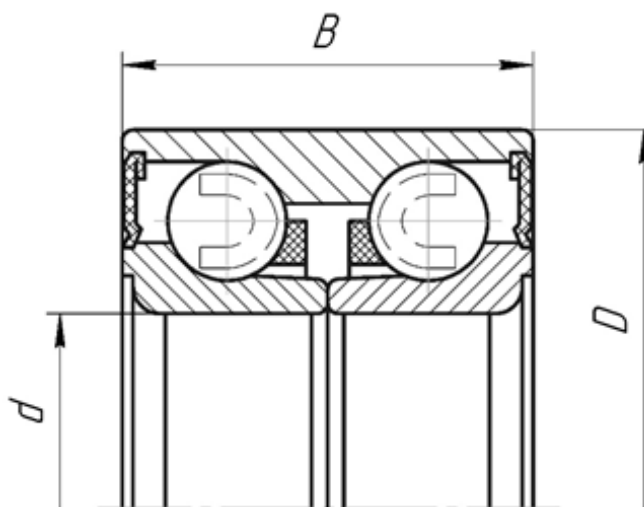
ŁOŻYSKA KULKOWE SKOŚNE JEDNORZĘDOWE O SPECJALNEJ KONSTRUKCJI



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|-----|------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 986710 | 986710 | 50 | 82 | 20 | 0,34 | * | * | * | * |
| 986714 | 986714 | 70 | 105 | 21,5 | 0,42 | * | * | * | * |

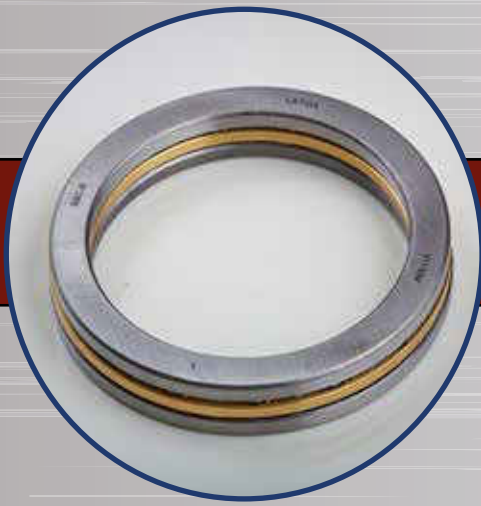


ANGULAR CONTACT BALL BEARING WITH GROOVE FOR THE BALL FITTING



ŁOŻYSKA KULKOWE SKOŚNE DWURZĘDOWE Z ROWKIEM DO MONTAŻU KULEK

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|----|----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 256907 | 256907 | 34 | 64 | 37 | 0,44 | * | * | * | * |



Thrust ball bearings

Thrust ball bearings are available in the following designs: single direction and single direction with seat washer. Basic bearing designations are indicated in the catalogue datasheets and are in accordance with international ISO and/or GOST standards. The system listed below with suffixes is applied to differentiate design variants. You can get in touch with our services to clarify a bearing design availability, to get additional bearing technical data, which is not listed in the catalogue as well as to discuss with our technical experts your specific requirements for a bearing design.

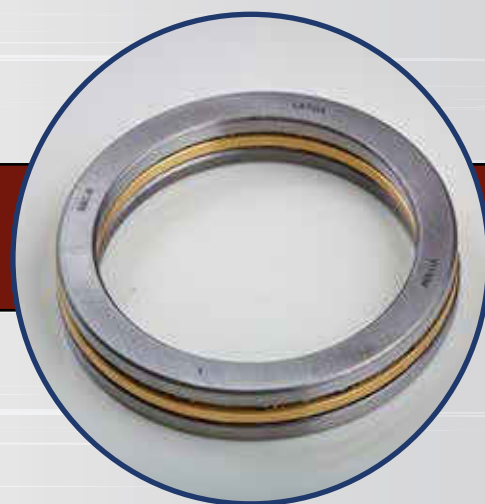
Łożyska kulkowe wzdłużne produkowane są w następujących wykonaniach: pojedyncze i pojedyncze z pierścieniem wyściełającym. W tabeli katalogowej podano podstawowe oznaczenia łożysk zgodnie z międzynarodowymi normami ISO i/lub GOST. Do oznaczania różnych wariantów konstrukcyjnych stosuje się następujący system przyrostków. Zapraszamy do kontaktu z naszym serwisem w celu sprawdzenia dostępnych wykonań, uzyskania dodatkowych parametrów dla produktów nieujętych w katalogu, jak również w celu omówienia z naszymi specjalistami technicznymi Państwa specjalnych wymagań dotyczących konstrukcji łożysk.

DESIGNATION SCHEME

WZÓR OZNACZENIA



Łożyska kulkowe wzdluzne (oporowe)



SUFFIXES DESIGNATION

OZNACZENIA PRZEDROSTKÓW

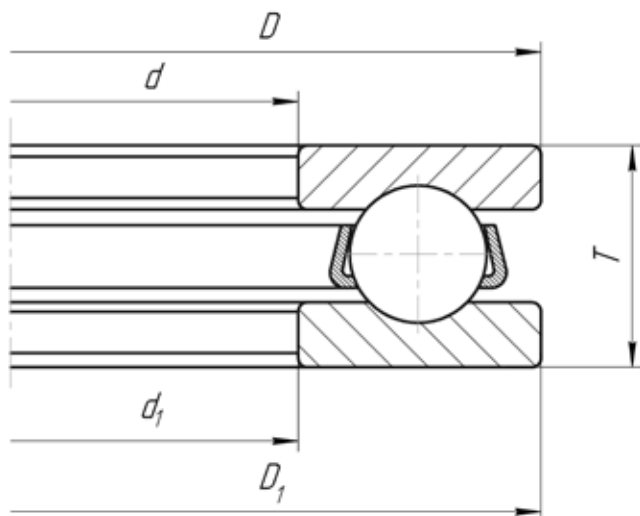
| | | |
|---|--|--|
| without suffix bez przedrostka | stamped steel cage, ball centered; dimensional and running accuracy to normal class | koszyk tłoczony ze stali wyśrodkowany na kulkach; dokładność wymiarowa i obrotowa odpowiada normalnej klasie dokładności |
| M | machined brass cage, ball centered | koszyk mosiężny obrobiony maszynowo, centrowany na kulkach |
| F | machined steel cage, ball centered | koszyk stalowy obrobiony maszynowo, centrowany na kulkach |
| P6 | dimensional and running accuracy to ISO tolerance class 6 | dokładność wymiarowa i obrotowa zgodnie z klasą ISO P6 |



ŁOŻYSKA KULKOWE WZDŁUŻNE (OPOROWE)

THRUST BALL BEARINGS

SINGLE DIRECTION THRUST BALL BEARINGSS



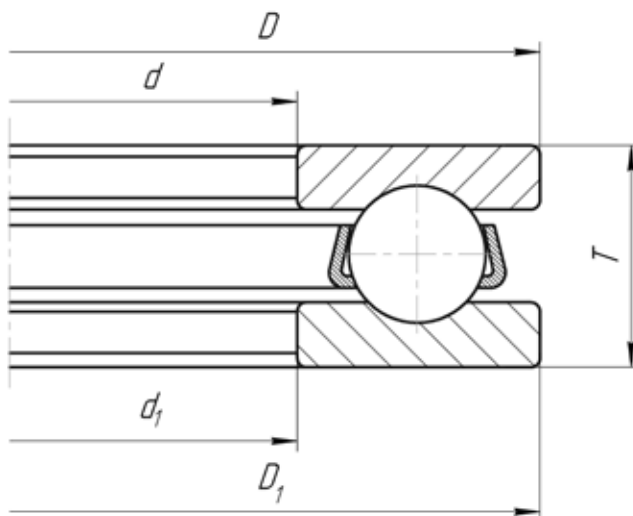
ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|-----|-------|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | D1 | d1 | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 51100 | 8100 | 10 | 24 | 24 | 10,2 | 9 | 0,02 | 10,38 | 14,43 | 7900 | 10600 |
| 51101 | 8101 | 12 | 26 | 26 | 12,2 | 9 | 0,02 | 10,73 | 15,8 | 7500 | 10000 |
| 51102 | 8102 | 15 | 28 | 28 | 15,2 | 9 | 0,02 | 10,97 | 17,3 | 7100 | 9400 |
| 51103 | 8103 | 17 | 30 | 30 | 17,2 | 9 | 0,03 | 11,8 | 20,13 | 7100 | 9400 |
| 51104 | 8104 | 20 | 35 | 35 | 20,2 | 10 | 0,04 | 15,63 | 27,4 | 6300 | 8400 |
| 51105 | 8105 | 25 | 42 | 42 | 25,2 | 11 | 0,06 | 18,87 | 36,67 | 5300 | 7100 |
| 51106 | 8106 | 30 | 47 | 47 | 30,2 | 11 | 0,07 | 19,63 | 40,93 | 5000 | 6700 |
| 51107 | 8107 | 35 | 52 | 52 | 35,2 | 12 | 0,08 | 20,83 | 48,07 | 4700 | 6300 |
| 51108 | 8108 | 40 | 60 | 60 | 40,2 | 13 | 0,12 | 27,5 | 62,93 | 4200 | 5600 |
| 51109 | 8109 | 45 | 65 | 65 | 45,2 | 14 | 0,15 | 28,57 | 69,3 | 4000 | 5300 |
| 51110 | 8110 | 50 | 70 | 70 | 50,2 | 14 | 0,16 | 29,37 | 75,33 | 3800 | 5000 |
| 51111 | 8111 | 55 | 78 | 78 | 55,2 | 16 | 0,24 | 33,83 | 89,3 | 3300 | 4500 |
| 51112 | 8112 | 60 | 85 | 85 | 60,2 | 17 | 0,29 | 43,13 | 113 | 3200 | 4200 |
| 51113 | 8113 | 65 | 90 | 90 | 65,2 | 18 | 0,34 | 39,8 | 116 | 3000 | 3900 |
| 51114 | 8114 | 70 | 95 | 95 | 70,2 | 18 | 0,36 | 43,33 | 124,67 | 2800 | 3800 |
| 51115 | 8115 | 75 | 100 | 100 | 75,2 | 19 | 0,42 | 46,17 | 135,33 | 2700 | 3500 |
| 51116 | 8116 | 80 | 105 | 105 | 80,2 | 19 | 0,43 | 46,5 | 140,67 | 2700 | 3500 |
| 51117 | 8117 | 85 | 110 | 110 | 85,2 | 19 | 0,46 | 47,47 | 148,67 | 2700 | 3500 |
| 51118 | 8118 | 90 | 120 | 120 | 90,2 | 22 | 0,68 | 61,93 | 196 | 2000 | 2700 |
| 51120 | 8120 | 100 | 135 | 135 | 100,2 | 25 | 0,99 | 87 | 267 | 2000 | 2700 |
| 51122 | 8122 | 110 | 145 | 145 | 110,2 | 25 | 1,08 | 89,43 | 287 | 1900 | 2500 |
| 51124 | 8124 | 120 | 155 | 155 | 120,2 | 25 | 1,16 | 89,73 | 307 | 1600 | 2100 |
| 51126 | 8126 | 130 | 170 | 170 | 130,3 | 30 | 1,87 | 121,77 | 417,33 | 1400 | 1900 |
| 51128 | 8128 | 140 | 180 | 180 | 140,3 | 31 | 2,07 | 122,05 | 430,05 | 1300 | 1800 |
| 51130 | 8130 | 150 | 190 | 190 | 150,3 | 31 | 2,2 | 122,87 | 445,33 | 1300 | 1800 |
| 51132 | 8132 | 160 | 200 | 200 | 160,3 | 31 | 2,33 | 123,6 | 472,33 | 1300 | 1800 |
| 51134 | 8134 | 170 | 215 | 215 | 170,3 | 34 | 3,31 | 142,03 | 540,67 | 1200 | 1600 |
| 51136 | 8136 | 180 | 225 | 225 | 180,3 | 34 | 3,48 | 145,2 | 579,67 | 1100 | 1500 |
| 51140 | 8140 | 200 | 250 | 250 | 200,3 | 37 | 4,24 | 177,8 | 701 | 1000 | 1400 |
| 51144 | 8144 | 220 | 270 | 270 | 220,3 | 37 | 4,62 | 185,37 | 779,83 | 900 | 1300 |



SINGLE DIRECTION THRUST BALL BEARINGSS

ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE



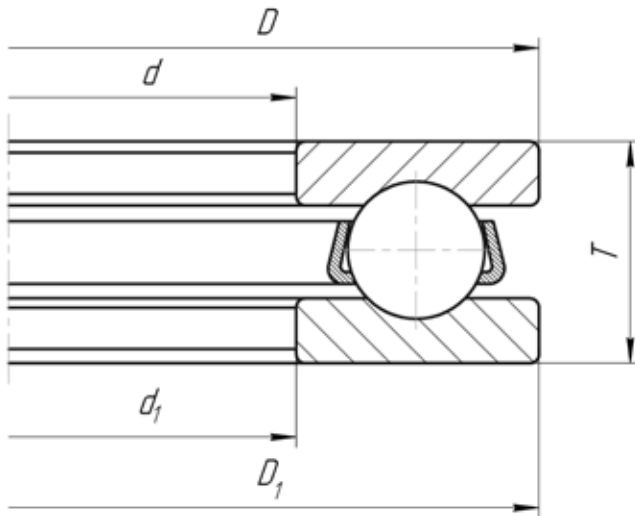
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|-----|-------|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | D1 | d1 | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 51148 | 8148 | 240 | 300 | 300 | 240,3 | 45 | 7,55 | 248,37 | 1015 | 800 | 1100 |
| 51152 | 8152 | 260 | 320 | 320 | 260,3 | 45 | 8,11 | 249,2 | 1080 | 800 | 1100 |
| 51156 | 8156 | 280 | 350 | 350 | 280,3 | 53 | 12,2 | 316,77 | 1420 | 700 | 1000 |
| 51164 | 8164 | 320 | 400 | 400 | 320,4 | 63 | 18,9 | 368,6 | 1806,67 | 600 | 800 |
| 51172 | 8172 | 360 | 440 | 440 | 360,4 | 65 | 21,8 | 386,1 | 2020 | 500 | 700 |
| 51200 | 8200 | 10 | 26 | 26 | 10,2 | 11 | 0,03 | 12,67 | 15,33 | 6600 | 8700 |
| 51201 | 8201 | 12 | 28 | 28 | 12,2 | 11 | 0,03 | 13,23 | 17,37 | 6300 | 8400 |
| 51202 | 8202 | 15 | 32 | 32 | 15,2 | 12 | 0,05 | 16,3 | 24,6 | 6000 | 7900 |
| 51203 | 8203 | 17 | 35 | 35 | 17,2 | 12 | 0,05 | 16,77 | 26,73 | 5600 | 7500 |
| 51204 | 8204 | 20 | 40 | 40 | 20,2 | 14 | 0,08 | 22,67 | 37,63 | 5000 | 6700 |
| 51205 | 8205 | 25 | 47 | 47 | 25,2 | 15 | 0,12 | 28,3 | 50,33 | 4500 | 6000 |
| 51206 | 8206 | 30 | 52 | 52 | 30,2 | 16 | 0,14 | 30,3 | 55,8 | 4000 | 5300 |
| 51207 | 8207 | 35 | 62 | 62 | 35,2 | 18 | 0,22 | 38,67 | 76,63 | 3500 | 4700 |
| 51208 | 8208 | 40 | 68 | 68 | 40,2 | 19 | 0,27 | 45,53 | 93,77 | 3200 | 4200 |
| 51209 | 8209 | 45 | 73 | 73 | 45,2 | 20 | 0,32 | 47 | 98,83 | 3000 | 4000 |
| 51210 | 8210 | 50 | 78 | 78 | 50,2 | 22 | 0,39 | 49,5 | 112,67 | 2800 | 3800 |
| 51211 | 8211 | 55 | 90 | 90 | 55,2 | 25 | 0,61 | 67,17 | 150,67 | 2500 | 3300 |
| 51212 | 8212 | 60 | 95 | 95 | 60,2 | 26 | 0,69 | 73,6 | 160 | 2400 | 3000 |
| 51213 | 8213 | 65 | 100 | 100 | 65,2 | 27 | 0,77 | 76,4 | 176 | 2400 | 3200 |
| 51214 | 8214 | 70 | 105 | 105 | 70,2 | 27 | 0,81 | 76,9 | 186 | 2200 | 3000 |
| 51215 | 8215 | 75 | 110 | 110 | 75,2 | 27 | 0,86 | 81,2 | 196 | 2200 | 3000 |
| 51216 | 8216 | 80 | 115 | 115 | 80,2 | 28 | 0,95 | 86,4 | 215,33 | 2000 | 2700 |
| 51217 | 8217 | 85 | 125 | 125 | 85,2 | 31 | 1,29 | 99,27 | 267,67 | 2000 | 2700 |
| 51218 | 8218 | 90 | 135 | 135 | 90,2 | 35 | 1,77 | 121,33 | 290,67 | 1600 | 2100 |
| 51220 | 8220 | 100 | 150 | 150 | 100,2 | 38 | 2,36 | 135 | 331 | 1400 | 1900 |
| 51222 | 8222 | 110 | 160 | 160 | 110,2 | 38 | 2,57 | 142 | 372 | 1200 | 1700 |
| 51224 | 8224 | 120 | 170 | 170 | 120,2 | 39 | 2,86 | 147 | 404 | 1100 | 1600 |
| 51226 | 8226 | 130 | 190 | 190 | 130,2 | 45 | 4,19 | 185,27 | 554,13 | 1000 | 1500 |
| 51228 | 8228 | 140 | 200 | 200 | 140,3 | 46 | 4,88 | 207,33 | 595,33 | 1000 | 1400 |



ŁOŻYSKA KULKOWE WZDŁUŻNE (OPOROWE)

THRUST BALL BEARINGS

SINGLE DIRECTION THRUST BALL BEARINGSS



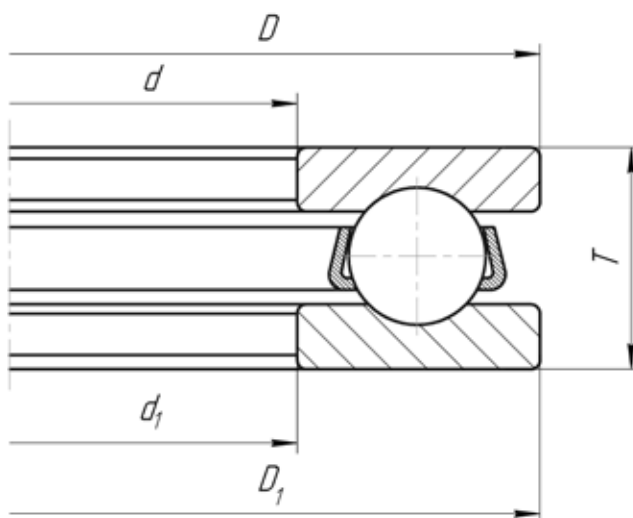
ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|-----|-------|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | D1 | d1 | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 51230 | 8230 | 150 | 215 | 215 | 150,3 | 50 | 6,19 | 252,6 | 790 | 900 | 1300 |
| 51236 | 8236 | 180 | 250 | 250 | 180,3 | 56 | 8,85 | 307,77 | 1050 | 800 | 1100 |
| 51240 | 8240 | 200 | 280 | 280 | 200,3 | 62 | 338 | 342,87 | 1223,33 | 700 | 1000 |
| 51244 | 8244 | 220 | 300 | 300 | 220,3 | 63 | 13,7 | 356,33 | 1303,33 | 600 | 900 |
| 51302 | 8302 | 15 | 37 | 37 | 15 | 15 | 0,08 | * | * | * | * |
| 51303 | 8303 | 17 | 40 | 40 | 17 | 16 | 0,1 | * | * | * | * |
| 51304 | 8304 | 20 | 47 | 47 | 20,2 | 18 | 0,16 | * | * | * | * |
| 51305 | 8305 | 25 | 52 | 52 | 25,2 | 18 | 0,18 | 36,37 | 61 | 3800 | 5000 |
| 51306 | 8306 | 30 | 60 | 60 | 30,2 | 21 | 0,27 | 41,1 | 74,3 | 3300 | 4500 |
| 51307 | 8307 | 35 | 68 | 68 | 35,2 | 24 | 0,39 | 54,57 | 102,17 | 2800 | 3800 |
| 51308 | 8308 | 40 | 78 | 78 | 40,2 | 26 | 0,55 | 68,2 | 130,67 | 2700 | 3500 |
| 51309 | 8309 | 45 | 85 | 85 | 45,2 | 28 | 0,69 | 81,1 | 160,33 | 2400 | 3200 |
| 51310 | 8310 | 50 | 95 | 95 | 50,2 | 31 | 1 | 88,83 | 162,33 | 2000 | 2700 |
| 51311 | 8311 | 55 | 105 | 105 | 55,2 | 35 | 1,34 | 114,2 | 238,67 | 1900 | 2500 |
| 51312 | 8312 | 60 | 110 | 110 | 60,2 | 35 | 1,43 | 116,73 | 254,67 | 1900 | 2500 |
| 51313 | 8313 | 65 | 115 | 115 | 65,2 | 36 | 1,57 | 121,1 | 271,33 | 1800 | 2400 |
| 51314 | 8314 | 70 | 125 | 125 | 70,2 | 40 | 2,06 | 142,8 | 320 | 1600 | 2000 |
| 51315 | 8315 | 75 | 135 | 135 | 75,2 | 44 | 2,68 | 173,07 | 360 | 1400 | 1900 |
| 51316 | 8316 | 80 | 140 | 140 | 80,2 | 44 | 2,82 | 166,33 | 380 | 1300 | 1800 |
| 51317 | 8317 | 85 | 150 | 150 | 85,2 | 49 | 3,66 | 197,17 | 449 | 1200 | 1700 |
| 51318 | 8318 | 90 | 155 | 155 | 90,2 | 50 | 3,88 | 204,53 | 487 | 1100 | 1500 |
| 51320 | 8320 | 100 | 170 | 170 | 100,2 | 55 | 6,11 | 240,03 | 586 | 1000 | 1400 |
| 51322 | 8322 | 110 | 190 | 190 | 110,2 | 63 | 7,87 | 293,43 | 780,67 | 900 | 1200 |
| 51324 | 8324 | 120 | 210 | 210 | 120,2 | 70 | 10,9 | 339,63 | 957,33 | 800 | 1100 |
| 51326 | 8326 | 130 | 225 | 225 | 130,3 | 75 | 13,3 | 358 | 1083,33 | 700 | 1000 |
| 51330 | 8330 | 150 | 250 | 250 | 150,3 | 80 | 16,7 | 418,23 | 1313,33 | 600 | 900 |
| 51336 | 8336 | 180 | 300 | 300 | 180,3 | 95 | 28,7 | 491,5 | 1790 | 500 | 700 |
| 51340 | 8340 | 200 | 340 | 340 | 200,3 | 110 | 43,7 | 566,67 | 2250 | 400 | 600 |



SINGLE DIRECTION THRUST BALL BEARINGSS

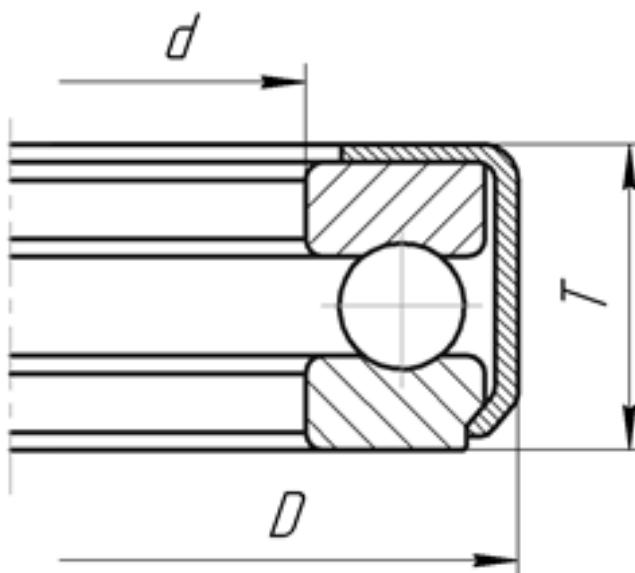
ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|---|----|----|---|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | D1 | d1 | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |

THRUST BALL BEARINGS WITH PROTECTIVE COVER

ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE
ZAMKNIĘTE



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|---|---|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |

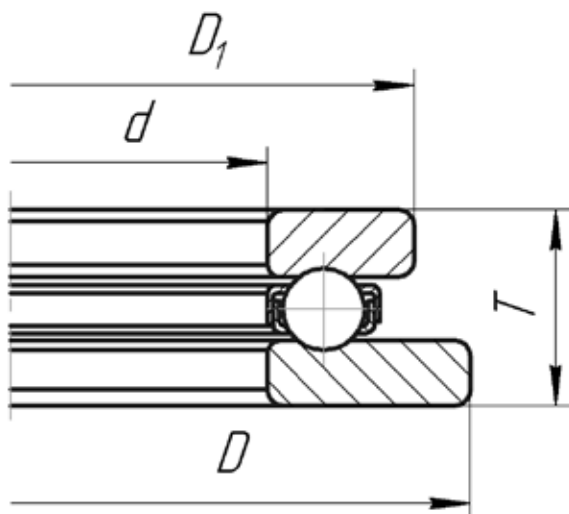
| | | | | | | | | | |
|---------|---------|------|-----|------|------|---|---|---|---|
| 98206 | 98206 | 30,1 | 53 | 16 | 0,13 | * | * | * | * |
| 9588213 | 9588213 | 65 | 100 | 21 | 0,62 | * | * | * | * |
| 9588214 | 9588214 | 70 | 105 | 21,5 | 0,65 | * | * | * | * |
| 9588217 | 9588217 | 85 | 125 | 24,5 | 0,86 | * | * | * | * |



ŁOŻYSKA KULKOWE WZDŁUŻNE (OPOROWE)

THRUST BALL BEARINGS

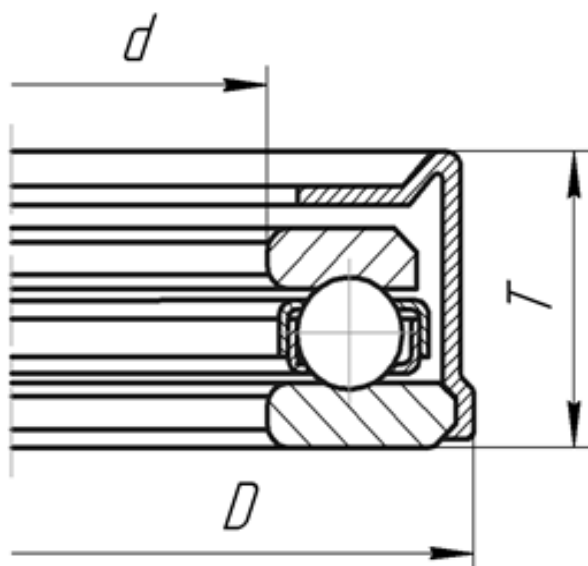
SPECIALLY DESIGNED THRUST BALL BEARING



ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE O SPECJALNEJ KONSTRUKCJI

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|----|----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | D1 | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 958705 | 958705 | 25 | 56 | 47 | 16 | 0,14 | * | * | * | * |

THRUST BALL BEARINGS WITH PROTECTIVE COVER



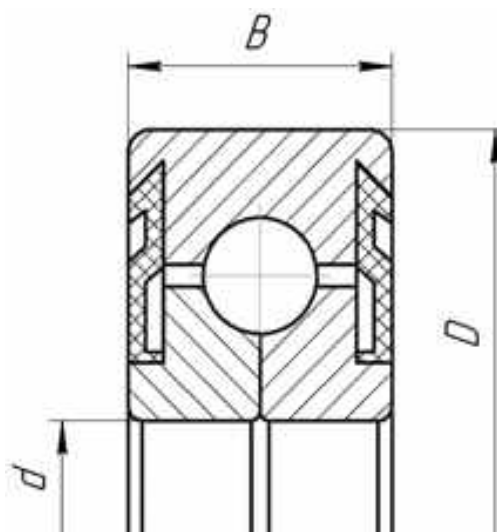
ŁOŻYSKA KULKOWE WZDŁUŻNE JEDNOKIERUNKOWE Z OCHRONNĄ POKRYWĄ

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|------|------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 688811 | 688811 | 55 | 90 | 21 | 0,41 | * | * | * | * |
| 688911 | 688911 | 52,39 | 84,5 | 20,7 | 0,37 | * | * | * | * |

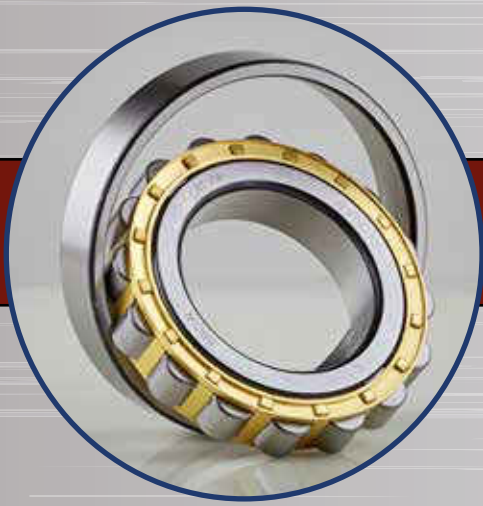


THRUST BALL BEARINGS WITH TWO INNER RINGS

ŁOŻYSKA SKOŚNE DWUKIERUNKOWE Z DZIELONYM
PIERŚCIENIEM WEWNĘTRZNYM



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 348702 | 348702 | 14,5 | 52 | 14 | 0,180 | * | * | * | * |
| QJ222 | 176222Л | 110 | 200 | 38 | 5,700 | * | * | * | * |



Cylindrical roller bearings

Different types of cylindrical roller bearings are produced. The catalogue table specifies the basic designations of bearings that comply with GOST and/or ISO international standards. A system of suffixes shown below is used to name different type variants. You may contact our services to determine the availability of specific types, obtain additional product parameters that were not included in the catalogue, and discuss your specific requirements for bearing design with our specialists.

Łożyska walcowe są dostępne w różnych wersjach. W tabeli katalogowej podano podstawowe oznaczenia łożysk zgodnie z międzynarodowymi normami ISO i/lub GOST. Poniższy system przyrostków jest stosowany do określania różnych wariantów konstrukcyjnych. Zapraszamy do kontaktu z naszymi służbami w celu sprawdzenia dostępnych wykonań, uzyskania dodatkowych parametrów dla produktów nie ujętych w katalogu, jak również w celu omówienia z naszymi specjalistami technicznymi Państwa specjalnych wymagań dotyczących konstrukcji łożysk.

BASIC DESIGNS

OZNACZENIE PODSTAWOWE

| | | |
|------------|--|--|
| N | two ribs on the inner ring and the ribless outer ring | dwa kołnierze na pierścieniu wewnętrznym i bezkołnierzowy pierścień zewnętrzny |
| NU | two ribs on the outer ring and the ribless inner ring | dwa kołnierze na pierścieniu zewnętrznym i pierścień wewnętrzny bez kołnierza |
| NF | two ribs on the inner ring and one rib on the outer ring | dwa kołnierze na pierścieniu wewnętrznym i jeden kołnierz na pierścieniu zewnętrznym |
| NJ | two ribs on the outer ring and one rib on the inner ring | dwa kołnierze na pierścieniu zewnętrznym i jeden kołnierz na pierścieniu wewnętrznym |
| NUP | with two integral ribs on the outer ring and one integral rib and one loose rib on the inner ring | dwa kołnierze na pierścieniu zewnętrznym, jeden zintegrowany i jeden wolny kołnierz na pierścieniu wewnętrznym |

DESIGNATION SCHEME

WZÓR OZNACZENIA

| | | |
|------------------------------|----------------------------|---|
| Basic designation | Cage (M, J, P, W) | Accuracy; internal clearance (without suffix, P6, C2, C3, C4) |
| Oznaczenie podstawowe | Koszyk (M, J, P, W) | Klasa dokładności; luz wewnętrzny (bez przedrostka, P6, C2, C3, C4,) |

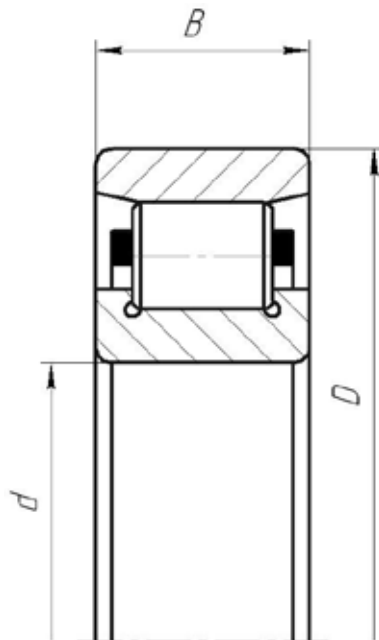
Łożyska walcowe



SUFFIXES DESIGNATION

OZNACZENIA PRZEDROSTKÓW

| | | |
|-----------|--|--|
| M | riveted machined brass cage, roller centered | kompozytowy mosiężny koszyk, wyśrodkowany na rolkach |
| J | stamped steel cage, roller centered | koszyk tłoczony ze stali, wyśrodkowany na rolkach |
| W | single row full complement cylindrical roller bearing | łożysko walcowe jednorzędowe bez koszyk |
| P | glass fiber reinforced cage, roller centered | koszyk z włókien szklanych, centrowany na rolkach |
| C2 | radial internal clearance smaller than normal | promieniowy luz wewnętrzny mniejszy od normalnego |
| C3 | radial internal clearance greater than normal | promieniowy luz wewnętrzny większy od normalnego |
| C4 | radial internal clearance greater than C3 | promieniowy luz wewnętrzny większy niż C3 |
| P6 | dimensional and running accuracy to ISO tolerance class 6 | dokładność wymiarowa i obrotowa wg klasy ISO P6 |



CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE OUTER RING

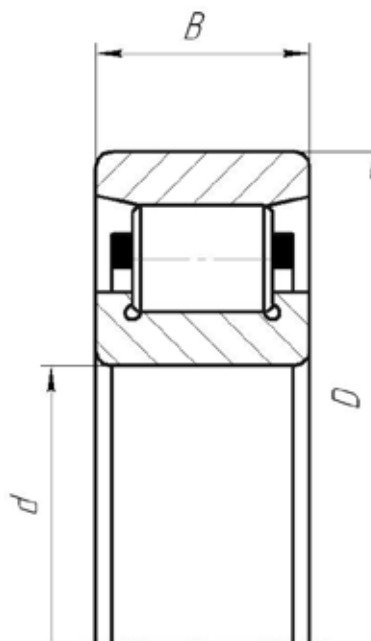
ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU ZEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| N 200 | 2200 | 10 | 30 | 9 | 0,04 | * | * | * | * |
| N 201 | 2201 | 12 | 32 | 10 | 0,05 | * | * | * | * |
| N 202 | 2202 | 15 | 35 | 11 | 0,05 | 15,1 | 10,4 | 18 000 | 21 000 |
| N 203 | 2203 | 17 | 40 | 12 | 0,07 | 16,2 | 13,1 | 15 000 | 18 000 |
| N 204 | 2204 | 20 | 47 | 14 | 0,11 | 18,1 | 15 | 14 500 | 17 500 |
| N 205 | 2205 | 25 | 52 | 15 | 0,15 | 20,7 | 18,4 | 12 800 | 15 500 |
| N 206 | 2206 | 30 | 62 | 16 | 0,2 | 30,1 | 25,9 | 10 800 | 12 800 |
| N 207 | 2207 | 35 | 72 | 17 | 0,29 | 41 | 36,4 | 9 400 | 11 000 |
| N 208 | 2208 | 40 | 80 | 18 | 0,37 | 49,2 | 44,5 | 8 200 | 9 700 |
| N 209 | 2209 | 45 | 85 | 19 | 0,43 | 53,1 | 50,7 | 7 500 | 8 900 |
| N 210 | 2210 | 50 | 90 | 20 | 0,48 | 59,8 | 61,1 | 6 600 | 8 000 |
| N 211 | 2211 | 55 | 100 | 21 | 0,64 | 70,2 | 71,2 | 6 300 | 7 500 |
| N 212 | 2212 | 60 | 110 | 22 | 0,82 | 81,1 | 81,7 | 5 800 | 6 900 |
| N 213 | 2213 | 65 | 120 | 23 | 1,05 | 95,1 | 98,3 | 5 300 | 6 000 |
| N 214 | 2214 | 70 | 125 | 24 | 1,15 | 100 | 104,8 | 5 200 | 5 900 |
| N 215 | 2215 | 75 | 130 | 25 | 1,25 | 114,2 | 121,1 | 4 700 | 5 800 |
| N 216 | 2216 | 80 | 140 | 26 | 1,5 | 124 | 134 | 4 500 | 5 300 |
| N 217 | 2217 | 85 | 150 | 28 | 1,9 | 143,7 | 157 | 4 200 | 5 000 |
| N 218 | 2218 | 90 | 160 | 30 | 2,3 | 169 | 185,3 | 4 000 | 4 700 |
| N 219 | 2219 | 95 | 170 | 32 | 2,8 | 191,7 | 209,7 | 3 800 | 4 500 |
| N 220 | 2220 | 100 | 180 | 34 | 3,4 | 215,3 | 241,7 | 3 500 | 4 200 |
| N 221 | 2221 | 105 | 190 | 36 | 4 | 233,7 | 260 | 3 300 | 4 000 |
| N 222 | 2222 | 110 | 200 | 38 | 4,65 | 267 | 302,7 | 3 200 | 3 800 |
| N 224 | 2224 | 120 | 215 | 40 | 5,65 | 299,7 | 342,7 | 3 000 | 3 400 |
| N 226 | 2226 | 130 | 230 | 40 | 6,5 | 314,7 | 365,7 | 2 600 | 3 200 |
| N 228 | 2228 | 140 | 250 | 42 | 8,25 | 355,7 | 418 | 2 400 | 3 000 |



CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE OUTER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU ZEWNĘTRZNYM

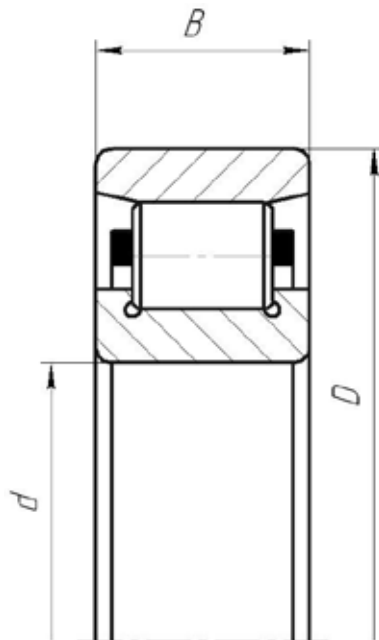


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| N 230 | 2230 | 150 | 320 | 65 | 27 | 392,5 | 510 | 2 200 | 2 600 |
| N 232 | 2232 | 160 | 340 | 68 | 32 | 497,9 | 627,1 | 2 100 | 2 500 |
| N 234 | 2234 | 170 | 360 | 72 | 38,3 | 584,3 | 724 | 1 900 | 2 300 |
| N 236 | 2236 | 180 | 380 | 75 | 42,3 | 608,7 | 770,7 | 1 800 | 2 100 |
| N 302 | 2302 | 15 | 42 | 13 | 0,1 | * | * | * | * |
| N 303 | 2303 | 17 | 47 | 14 | 0,12 | 25,1 | 20,8 | 14 000 | 17 000 |
| N 304 | 2304 | 20 | 52 | 15 | 0,15 | 27,4 | 21,6 | 12 500 | 15 500 |
| N 305 | 2305 | 25 | 62 | 17 | 0,24 | 34,5 | 27,7 | 10 000 | 12 500 |
| N 306 | 2306 | 30 | 72 | 19 | 0,36 | 44,4 | 38 | 8 700 | 10 800 |
| N 307 | 2307 | 35 | 80 | 21 | 0,48 | 55,8 | 48,7 | 7 900 | 9 400 |
| N 308 | 2308 | 40 | 90 | 23 | 0,66 | 68,9 | 61,1 | 6 900 | 8 400 |
| N 309 | 2309 | 45 | 100 | 25 | 0,87 | 85,6 | 77,6 | 6 300 | 7 500 |
| N 310 | 2310 | 50 | 110 | 27 | 1,15 | 100,5 | 92,5 | 5 600 | 6 700 |
| N 311 | 2311 | 55 | 120 | 29 | 1,45 | 125 | 118 | 5 100 | 6 300 |
| N 312 | 2312 | 60 | 130 | 31 | 1,85 | 139,3 | 133,3 | 4 700 | 5 600 |
| N 313 | 2313 | 65 | 140 | 33 | 2,25 | 159,3 | 154,3 | 4 400 | 5 300 |
| N 314 | 2314 | 70 | 150 | 35 | 2,75 | 180,3 | 180 | 4 100 | 5 000 |
| N 315 | 2315 | 75 | 160 | 37 | 3,25 | 212,3 | 210,7 | 3 800 | 4 600 |
| N 316 | 2316 | 80 | 170 | 39 | 3,9 | 227,3 | 229,7 | 3 500 | 4 200 |
| N 317 | 2317 | 85 | 180 | 41 | 4,5 | 255,7 | 259,3 | 3 300 | 4 000 |
| N 318 | 2318 | 90 | 190 | 43 | 5,4 | 279,3 | 289 | 3 200 | 3 800 |
| N 319 | 2319 | 95 | 200 | 45 | 6,2 | 301,7 | 315 | 3 100 | 3 700 |
| N 320 | 2320 | 100 | 215 | 47 | 7,7 | 349,3 | 361,7 | 2 800 | 3 300 |
| N 322 | 2322 | 110 | 240 | 50 | 10,5 | 427 | 451,3 | 2 500 | 3 000 |
| N 324 | 2324 | 120 | 260 | 55 | 13 | 527,7 | 577,7 | 2 000 | 2 600 |
| N 326 | 2326 | 130 | 280 | 58 | 16,4 | 600 | 666,7 | 1 900 | 2 400 |



ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS



CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE OUTER RING

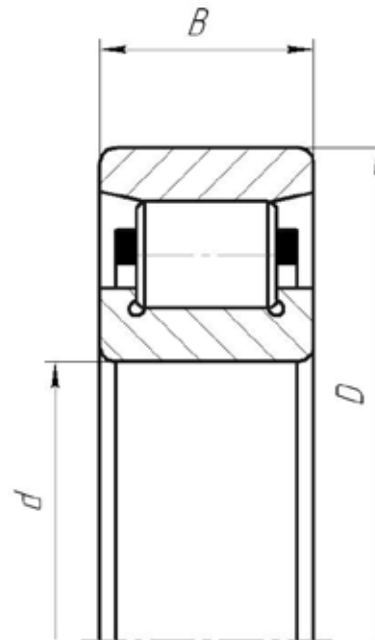
ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERSCIENIU ZEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| N 406 | 2406 | 30 | 90 | 23 | 0,75 | 63,5 | 55,9 | 7 500 | 9 300 |
| N 407 | 2407 | 35 | 100 | 25 | 1 | 75,1 | 66,6 | 6 500 | 8 200 |
| N 408 | 2408 | 40 | 110 | 27 | 1,3 | 94,9 | 84,3 | 5 800 | 7 400 |
| N 409 | 2409 | 45 | 120 | 29 | 1,65 | 109,5 | 101,5 | 5 400 | 6 800 |
| N 411 | 2411 | 55 | 140 | 33 | 2,5 | 140,5 | 133 | 4 600 | 5 500 |
| N 415 | 2415 | 75 | 190 | 45 | 6,25 | 263 | 262,5 | 3 300 | 4 100 |
| N 416 | 2416 | 80 | 200 | 48 | 7,3 | 300,5 | 304 | 3 100 | 3 900 |
| N 417 | 2417 | 85 | 210 | 52 | 8,7 | 347,5 | 366,9 | 2 900 | 3 700 |
| N 2205 | 2505 | 25 | 52 | 18 | 0,16 | 29,6 | 29,3 | 12 200 | 15 000 |
| N 2206 | 2506 | 30 | 62 | 20 | 0,26 | 45,2 | 46,1 | 9 700 | 12 000 |
| N 2207 | 2507 | 35 | 72 | 23 | 0,4 | 57,4 | 60,7 | 8 300 | 10 000 |
| N 2208 | 2508 | 40 | 80 | 23 | 0,49 | 62,6 | 65,4 | 7 300 | 8 900 |
| N 2209 | 2509 | 45 | 85 | 23 | 0,54 | 69,9 | 81,1 | 6 900 | 8 300 |
| N 2210 | 2510 | 50 | 90 | 23 | 0,58 | 73,9 | 84,3 | 6 200 | 7 500 |
| N 2211 | 2511 | 55 | 100 | 25 | 0,78 | 91,1 | 109,4 | 5 900 | 7 000 |
| N 2212 | 2512 | 60 | 110 | 28 | 1,05 | 117,9 | 140,6 | 5 300 | 6 400 |
| N 2213 | 2513 | 65 | 120 | 31 | 1,45 | 134,3 | 163 | 4 900 | 5 900 |
| N 2214 | 2514 | 70 | 125 | 31 | 1,5 | 154,6 | 193,1 | 4 600 | 5 600 |
| N 2215 | 2515 | 75 | 130 | 31 | 1,55 | 157,8 | 208,6 | 4 300 | 5 200 |
| N 2216 | 2516 | 80 | 140 | 33 | 1,95 | 174,6 | 228,3 | 4 100 | 5 000 |
| N 2217 | 2517 | 85 | 150 | 36 | 2,5 | 220,1 | 282,6 | 3 700 | 4 500 |
| N 2218 | 2218 | 90 | 160 | 40 | 3,1 | 241 | 314,4 | 3 600 | 4 200 |
| N 2219 | 2219 | 95 | 170 | 43 | 3,85 | 277,1 | 361,8 | 3 300 | 4 100 |
| N 2220 | 2220 | 100 | 180 | 46 | 4,65 | 334,3 | 442,2 | 3 100 | 3 800 |
| N 2222 | 2222 | 110 | 200 | 53 | 6,96 | 357,8 | 480,7 | 2 800 | 3 400 |
| N 2224 | 2224 | 120 | 215 | 58 | 8,55 | 425,8 | 570 | 2 500 | 3 200 |



CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE OUTER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU ZEWNĘTRZNYM



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| N 2304 | 2604 | 20 | 52 | 21 | 0,21 | 49,3 | 47,6 | 12 500 | 15 000 |
| N 2305 | 2605 | 25 | 62 | 24 | 0,34 | 51,8 | 51 | 10 000 | 12 000 |
| N 2306 | 2606 | 30 | 72 | 27 | 0,5 | 60,2 | 60,5 | 8 700 | 10 200 |
| N 2307 | 2607 | 35 | 80 | 31 | 0,7 | 87,7 | 92,8 | 7 700 | 9 300 |
| N 2308 | 2608 | 40 | 90 | 33 | 0,96 | 102,5 | 109,7 | 6 600 | 7 900 |
| N 2309 | 2609 | 45 | 100 | 36 | 1,25 | 122 | 132,5 | 5 700 | 7 000 |
| N 2310 | 2610 | 50 | 110 | 40 | 1,7 | 147,5 | 163,5 | 5 200 | 6 300 |
| N 2311 | 2611 | 55 | 120 | 43 | 2,1 | 178,1 | 202,5 | 5 000 | 6 100 |
| N 2312 | 2612 | 60 | 130 | 46 | 2,7 | 203,1 | 236,4 | 4 500 | 5 400 |
| N 2315 | 2615 | 75 | 160 | 55 | 4,85 | 289,2 | 342 | 3 700 | 4 400 |
| N 2319 | 2619 | 95 | 200 | 67 | 10,4 | 438,7 | 552,9 | 2 800 | 3 400 |
| N 2322 | 2622 | 110 | 240 | 80 | 19 | 615,3 | 783,4 | 2 400 | 2 800 |
| N 2326 | 2626 | 130 | 280 | 93 | 30 | 845 | 1105 | 1 900 | 2 400 |
| 1002908 | 1002908 | 40 | 62 | 12 | 0,16 | 14 | 10 | 13 000 | 23 000 |
| 1002909 | 1002909 | 45 | 68 | 12 | 0,18 | * | * | * | * |
| 1002910 | 1002910 | 50 | 72 | 12 | 0,21 | * | * | * | * |
| 1002911 | 1002911 | 55 | 80 | 13 | 0,23 | * | * | * | * |
| 1002912 | 1002912 | 60 | 85 | 13 | 0,25 | * | * | * | * |
| 1002913 | 1002913 | 65 | 90 | 13 | 0,3 | * | * | * | * |
| 1002914 | 1002914 | 70 | 100 | 16 | 0,37 | * | * | * | * |
| 1002915 | 1002915 | 75 | 105 | 16 | 0,41 | * | * | * | * |
| 1002916 | 1002916 | 80 | 110 | 16 | 0,47 | * | * | * | * |
| 1002917 | 1002917 | 85 | 120 | 18 | 0,6 | * | * | * | * |
| 1002918 | 1002918 | 90 | 125 | 18 | 0,72 | * | * | * | * |
| 1002920 | 1002920 | 100 | 140 | 20 | 0,88 | * | * | * | * |
| 1002922 | 1002922 | 110 | 150 | 20 | 0,94 | * | * | * | * |

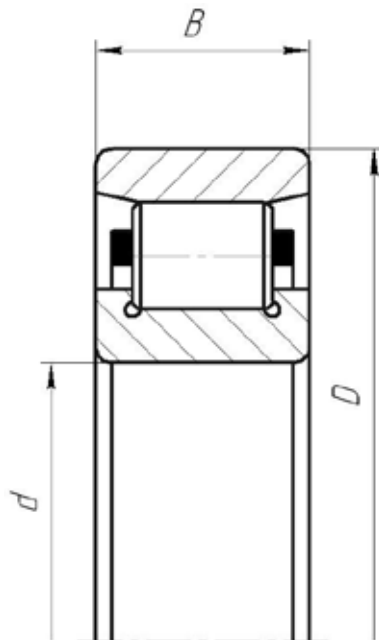


ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE OUTER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU ZEWNĘTRZNYM

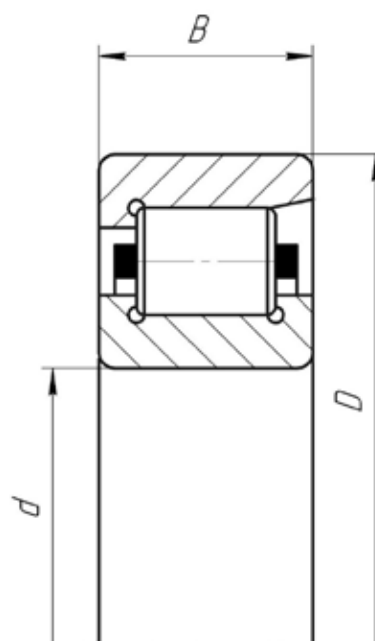


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 1002924 | 1002924 | 120 | 165 | 22 | 1,26 | * | * | * | * |
| 1002926 | 1002926 | 130 | 180 | 24 | 2,05 | * | * | * | * |
| 1002928 | 1002928 | 140 | 190 | 24 | 2,46 | * | * | * | * |
| 1002930 | 1002930 | 150 | 210 | 28 | 2,8 | * | * | * | * |
| 1002932 | 1002932 | 160 | 220 | 28 | 3,34 | * | * | * | * |



CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE OUTER RING

ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU ZEWNĘTRZNYM



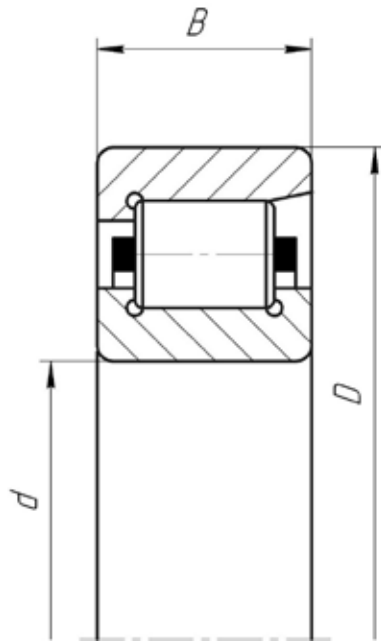
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NF 1015 | 12115 | 75 | 115 | 20 | 0,66 | 61,0 | 75,0 | 5700 | 6800 |
| NF 201 | 12201 | 12 | 32 | 10 | 0,04 | * | * | * | * |
| NF 202 | 12202 | 15 | 35 | 11 | 0,05 | 15,1 | 10,4 | 18 000 | 21 000 |
| NF 203 | 12203 | 17 | 40 | 12 | 0,07 | 16,2 | 13,1 | 15 000 | 18 000 |
| NF 204 | 12204 | 20 | 47 | 14 | 0,11 | 18,1 | 15 | 14 500 | 17 500 |
| NF 207 | 12207 | 35 | 72 | 17 | 0,29 | 41 | 36,4 | 9 400 | 11 000 |
| NF 208 | 12208 | 40 | 80 | 18 | 0,37 | 49,2 | 44,5 | 8 200 | 9 700 |
| NF 210 | 12210 | 50 | 90 | 20 | 0,48 | 59,8 | 61,1 | 6 600 | 8 000 |
| NF 211 | 12211 | 55 | 100 | 21 | 0,64 | 70,2 | 71,2 | 6 300 | 7 500 |
| NF 212 | 12212 | 60 | 110 | 22 | 0,82 | 81,1 | 81,7 | 5 800 | 6 900 |
| NF 213 | 12213 | 65 | 120 | 23 | 1,05 | 95,1 | 98,3 | 5 300 | 6 000 |
| NF 214 | 12214 | 70 | 125 | 24 | 1,15 | 100 | 104,8 | 5 200 | 5 900 |
| NF 215 | 12215 | 75 | 130 | 25 | 1,25 | 114,2 | 121,1 | 4 700 | 5 800 |
| NF 216 | 12216 | 80 | 140 | 26 | 1,5 | 124 | 134 | 4 500 | 5 300 |
| NF 217 | 12217 | 85 | 150 | 28 | 1,9 | 143,7 | 157 | 4 200 | 5 000 |
| NF 218 | 12218 | 90 | 160 | 30 | 2,3 | 169 | 185,3 | 4 000 | 4 700 |
| NF 220 | 12220 | 100 | 180 | 34 | 3,4 | 215,3 | 241,7 | 3 500 | 4 200 |
| NF 222 | 12222 | 110 | 200 | 38 | 4,65 | 267 | 302,7 | 3 200 | 3 800 |
| NF 224 | 12224 | 120 | 215 | 40 | 5,65 | 299,7 | 342,7 | 3 000 | 3 400 |
| NF 302 | 12302 | 15 | 42 | 13 | 0,11 | * | * | * | * |
| NF 303 | 12303 | 17 | 47 | 14 | 0,13 | 25,1 | 20,8 | 14 000 | 17 000 |
| NF 304 | 12304 | 20 | 52 | 15 | 0,15 | 27,4 | 21,6 | 12 500 | 15 500 |
| NF 305 | 12305 | 25 | 62 | 17 | 0,24 | 34,5 | 27,7 | 10 000 | 12 500 |
| NF 306 | 12306 | 30 | 72 | 19 | 0,36 | 44,4 | 38 | 8 700 | 10 800 |
| NF 307 | 12307 | 35 | 80 | 21 | 0,48 | 55,8 | 48,7 | 7 900 | 9 400 |
| NF 308 | 12308 | 40 | 90 | 23 | 0,66 | 68,9 | 61,1 | 6 900 | 8 400 |



ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE OUTER RING



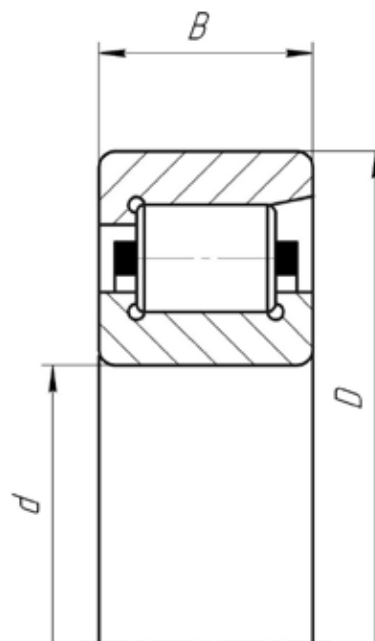
ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU ZEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NF 309 | 12309 | 45 | 100 | 25 | 0,87 | 85,6 | 77,6 | 6 300 | 7 500 |
| NF 310 | 12310 | 50 | 110 | 27 | 1,15 | 100,5 | 92,5 | 5 600 | 6 700 |
| NF 311 | 12311 | 55 | 120 | 29 | 1,45 | 125 | 118 | 5 100 | 6 300 |
| NF 312 | 12312 | 60 | 130 | 31 | 1,85 | 139,3 | 133,3 | 4 700 | 5 600 |
| NF 315 | 12315 | 75 | 160 | 37 | 3,25 | 212,3 | 210,7 | 3 800 | 4 600 |
| NF 316 | 12316 | 80 | 170 | 39 | 3,9 | 227,3 | 229,7 | 3 500 | 4 200 |
| NF 318 | 12318 | 90 | 190 | 43 | 5,4 | 279,3 | 289 | 3 200 | 3 800 |
| NF 320 | 12320 | 100 | 215 | 47 | 7,7 | 349,3 | 361,7 | 2 800 | 3 300 |
| NF 322 | 12322 | 110 | 240 | 50 | 10,5 | 427 | 451,3 | 2 500 | 3 000 |
| NF 324 | 12324 | 120 | 260 | 55 | 13 | 527,7 | 577,7 | 2 000 | 2 600 |
| NF 326 | 12326 | 130 | 280 | 58 | 16,5 | 600 | 666,7 | 1 900 | 2 400 |
| NF 409 | 12409 | 45 | 120 | 29 | 1,64 | 109,5 | 101,5 | 5400 | 6800 |
| NF 410 | 12410 | 50 | 130 | 31 | 2,05 | 135 | 123 | 4700 | 5600 |
| NF 2305 | 12605 | 25 | 62 | 24 | 0,34 | 51,8 | 51 | 10000 | 12000 |
| NF 2306 | 12606 | 30 | 72 | 27 | 0,5 | 60,2 | 60,5 | 8700 | 10200 |
| NF 2307 | 12607 | 35 | 80 | 31 | 0,7 | 87,7 | 92,8 | 7700 | 9300 |
| NF 2308 | 12608 | 40 | 90 | 33 | 0,96 | 102,5 | 109,7 | 6600 | 7900 |
| NF 2309 | 12609 | 45 | 100 | 36 | 1,25 | 122 | 132,5 | 5700 | 7000 |
| NF 2310 | 12610 | 50 | 110 | 40 | 1,7 | 147,5 | 163,5 | 5200 | 6300 |
| NF 2311 | 12611 | 55 | 120 | 43 | 2,1 | 178,1 | 202,5 | 5000 | 6100 |
| NF 2312 | 12612 | 60 | 130 | 46 | 2,7 | 203,1 | 236,4 | 4500 | 5400 |
| NF 2313 | 12613 | 65 | 140 | 48 | 3,25 | 240,7 | 259,3 | 4200 | 5100 |
| NF 2314 | 12614 | 70 | 150 | 51 | 3,95 | 268,3 | 294,3 | 3900 | 4800 |
| NF 2315 | 12615 | 75 | 160 | 55 | 4,85 | 289,2 | 342 | 3700 | 4400 |
| NF 2316 | 12616 | 80 | 170 | 58 | 5,85 | 387,6 | 419,1 | 3300 | 4000 |



CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE OUTER RING

ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU ZEWNĘTRZNYM



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NF 2317 | 12617 | 85 | 180 | 60 | 6,6 | 418,3 | 461,7 | 3000 | 3800 |
| NF 2318 | 12618 | 90 | 190 | 64 | 7,9 | 480 | 533,3 | 2900 | 3600 |
| NF 2320 | 12620 | 100 | 215 | 73 | 12 | 605,6 | 721,7 | 2600 | 3200 |
| NF 2322 | 12622 | 110 | 240 | 80 | 19 | 615,3 | 783,4 | 2400 | 2800 |
| NF 2324 | 12624 | 120 | 260 | 86 | 24 | 814 | 1014,6 | 2000 | 2600 |
| NF 2326 | 12626 | 130 | 280 | 93 | 30 | 845 | 1105 | 1900 | 2400 |

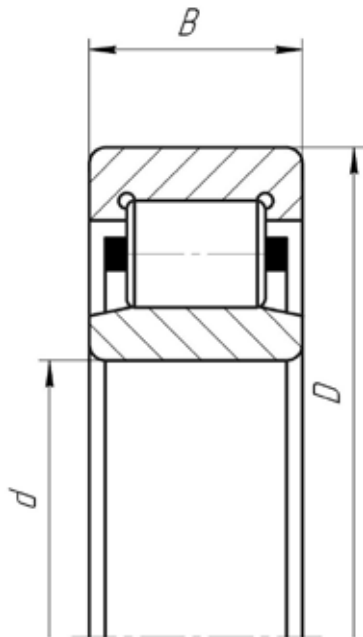


ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE INNER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU WEWNĘTRZNYM

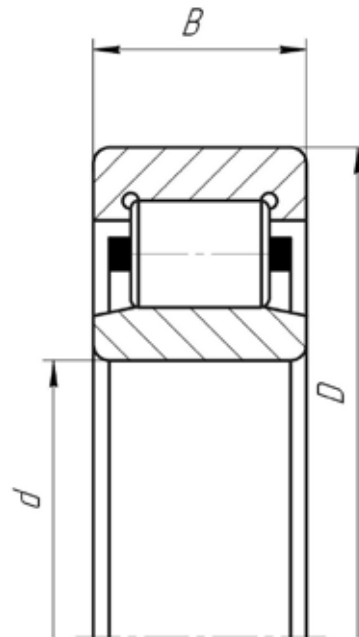


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NU 1007 | 32107 | 35 | 62 | 14 | 0,18 | 27,1 | 28,4 | 11 000 | 13 000 |
| NU 1008 | 32108 | 40 | 68 | 15 | 0,22 | 28,8 | 31,3 | 9 700 | 11 500 |
| NU 1009 | 32109 | 45 | 75 | 16 | 0,29 | 37,2 | 42,2 | 8 800 | 10 500 |
| NU 1010 | 32110 | 50 | 80 | 16 | 0,31 | 38,3 | 44,5 | 8 000 | 9 700 |
| NU 1011 | 32111 | 55 | 90 | 18 | 0,45 | 39,4 | 50,5 | 7 300 | 8 700 |
| NU 1012 | 32112 | 60 | 95 | 18 | 0,48 | 40,5 | 53 | 6 700 | 8 200 |
| NU 1013 | 32113 | 65 | 100 | 18 | 0,51 | 49,6 | 63,7 | 6 300 | 7 800 |
| NU 1014 | 32114 | 70 | 110 | 20 | 0,7 | 66,3 | 81,7 | 5 800 | 6 900 |
| NU 1015 | 32115 | 75 | 115 | 20 | 0,74 | 68,3 | 84,3 | 5 500 | 6 500 |
| NU 1016 | 32116 | 80 | 125 | 22 | 0,99 | 71,1 | 88,8 | 5 200 | 6 200 |
| NU 1017 | 32117 | 85 | 130 | 22 | 1,05 | 73,6 | 95,3 | 4 900 | 5 800 |
| NU 1018 | 32118 | 90 | 140 | 24 | 1,35 | 87,3 | 114,3 | 4 500 | 5 400 |
| NU 1019 | 32119 | 95 | 145 | 24 | 1,4 | 90,4 | 119,7 | 4 300 | 5 200 |
| NU 1020 | 32120 | 100 | 150 | 24 | 1,45 | 92,3 | 124,7 | 4 100 | 5 000 |
| NU 1021 | 32121 | 105 | 160 | 26 | 1,85 | 107,3 | 146,3 | 3 900 | 4 800 |
| NU 1022 | 32122 | 110 | 170 | 28 | 2,3 | 133 | 176,7 | 3 700 | 4 500 |
| NU 1024 | 32124 | 120 | 180 | 28 | 2,45 | 141 | 194 | 3 400 | 4 200 |
| NU 1030 | 32130 | 150 | 225 | 35 | 4,85 | 202,7 | 298 | 2 800 | 3 300 |
| NU 1034 | 32134 | 170 | 260 | 42 | 7,9 | 287,3 | 415 | 2 400 | 2 800 |
| NU 1036 | 32136 | 180 | 280 | 46 | 10,5 | 350,3 | 501,7 | 2 200 | 2 600 |
| NU 1044 | 32144 | 220 | 340 | 56 | 18,5 | 501,7 | 750 | 1 800 | 2 100 |
| NU 1052 | 32152 | 260 | 400 | 65 | 29 | 642,3 | 995 | 1 500 | 1 800 |
| NU 201 | 32201 | 12 | 32 | 10 | 0,05 | * | * | * | * |
| NU 202 | 32202 | 15 | 35 | 11 | 0,06 | 15,1 | 10,4 | 18 000 | 21 000 |
| NU 203 | 32203 | 17 | 40 | 12 | 0,07 | 16,2 | 13,1 | 15 000 | 18 000 |
| NU 204 | 32204 | 20 | 47 | 14 | 0,11 | 18,1 | 15 | 14 500 | 17 500 |



CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE INNER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU WEWNĘTRZNYM



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NU 205 | 32205 | 25 | 52 | 15 | 0,13 | 20,7 | 18,4 | 12 800 | 15 500 |
| NU 206 | 32206 | 30 | 62 | 16 | 0,2 | 30,1 | 25,9 | 10 800 | 12 800 |
| NU 207 | 32207 | 35 | 72 | 17 | 0,29 | 41 | 36,4 | 9 400 | 11 000 |
| NU 208 | 32208 | 40 | 80 | 18 | 0,37 | 49,2 | 44,5 | 8 200 | 9 700 |
| NU 209 | 32209 | 45 | 85 | 19 | 0,43 | 53,1 | 50,7 | 7 500 | 8 900 |
| NU 210 | 32210 | 50 | 90 | 20 | 0,48 | 59,8 | 61,1 | 6 600 | 8 000 |
| NU 211 | 32211 | 55 | 100 | 21 | 0,64 | 70,2 | 71,2 | 6 300 | 7 500 |
| NU 212 | 32212 | 60 | 110 | 22 | 0,82 | 81,1 | 81,7 | 5 800 | 6 900 |
| NU 213 | 32213 | 65 | 120 | 23 | 1,05 | 95,1 | 98,3 | 5 300 | 6 000 |
| NU 214 | 32214 | 70 | 125 | 24 | 1,15 | 100 | 104,8 | 5 200 | 5 900 |
| NU 215 | 32215 | 75 | 130 | 25 | 1,25 | 114,2 | 121,1 | 4 700 | 5 800 |
| NU 216 | 32216 | 80 | 140 | 26 | 1,5 | 124 | 134 | 4 500 | 5 300 |
| NU 218 | 32218 | 90 | 160 | 30 | 2,3 | 169 | 185,3 | 4 000 | 4 700 |
| NU 219 | 32219 | 95 | 170 | 32 | 2,8 | 191,7 | 209,7 | 3 800 | 4 500 |
| NU 220 | 32220 | 100 | 180 | 34 | 3,4 | 215,3 | 241,7 | 3 500 | 4 200 |
| NU 221 | 32221 | 105 | 190 | 36 | 4 | 233,7 | 260 | 3 300 | 4 000 |
| NU 222 | 32222 | 110 | 200 | 38 | 4,65 | 267 | 302,7 | 3 200 | 3 800 |
| NU 224 | 32224 | 120 | 215 | 40 | 5,65 | 299,7 | 342,7 | 3 000 | 3 400 |
| NU 226 | 32226 | 130 | 230 | 40 | 6,5 | 314,7 | 365,7 | 2 600 | 3 200 |
| NU 228 | 32228 | 140 | 250 | 42 | 8,25 | 355,7 | 418 | 2 400 | 3 000 |
| NU 234 | 32234 | 170 | 310 | 52 | 18,5 | 584,3 | 724 | 1 900 | 2 300 |
| NU 238 | 32238 | 190 | 340 | 55 | 23,5 | 750 | 953,3 | 1 700 | 2 000 |
| NU 240 | 32240 | 200 | 360 | 58 | 27,5 | 808 | 1040 | 1 600 | 1 900 |
| NU 244 | 32244 | 220 | 400 | 65 | 38,5 | 956,7 | 1220 | 1 500 | 1 700 |
| NU 301 | 32301 | 12 | 37 | 12 | 0,07 | * | * | * | * |
| NU 302 | 32302 | 15 | 42 | 13 | 0,1 | * | * | * | * |

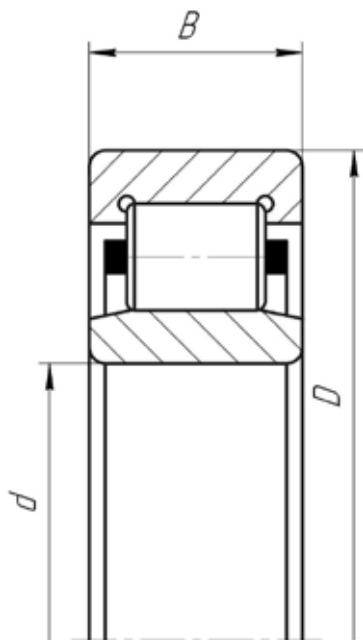


ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE INNER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU WEWNĘTRZNYM

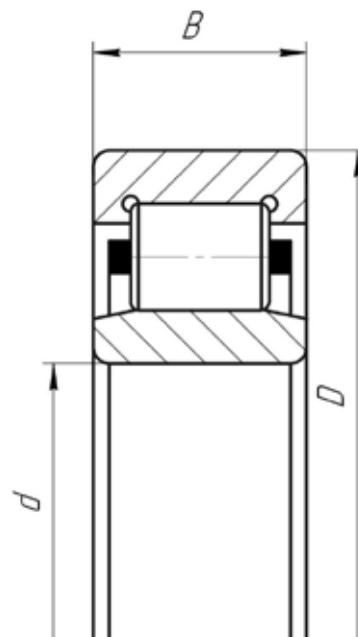


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NU 303 | 32303 | 17 | 47 | 14 | 0,13 | 25,1 | 20,8 | 14 000 | 17 000 |
| NU 304 | 32304 | 20 | 52 | 15 | 0,16 | 27,4 | 21,6 | 12 500 | 15 500 |
| NU 305 | 32305 | 25 | 62 | 17 | 0,28 | 34,5 | 27,7 | 10 000 | 12 500 |
| NU 306 | 32306 | 30 | 72 | 19 | 0,36 | 44,4 | 38 | 8 700 | 10 800 |
| NU 308 | 32308 | 40 | 90 | 23 | 0,66 | 68,9 | 61,1 | 6 900 | 8 400 |
| NU 309 | 32309 | 45 | 100 | 25 | 0,87 | 85,6 | 77,6 | 6 300 | 7 500 |
| NU 310 | 32310 | 50 | 110 | 27 | 1,15 | 100,5 | 92,5 | 5 600 | 6 700 |
| NU 311 | 32311 | 55 | 120 | 29 | 1,45 | 125 | 118 | 5 100 | 6 300 |
| NU 312 | 32312 | 60 | 130 | 31 | 1,85 | 139,3 | 133,3 | 4 700 | 5 600 |
| NU 313 | 32313 | 65 | 140 | 33 | 2,25 | 159,3 | 154,3 | 4 400 | 5 300 |
| NU 314 | 32314 | 70 | 150 | 35 | 2,75 | 180,3 | 180 | 4 100 | 5 000 |
| NU 315 | 32315 | 75 | 160 | 37 | 3,25 | 212,3 | 210,7 | 3 800 | 4 600 |
| NU 316 | 32316 | 80 | 170 | 39 | 3,9 | 227,3 | 229,7 | 3 500 | 4 200 |
| NU 317 | 32317 | 85 | 180 | 41 | 4,5 | 255,7 | 259,3 | 3 300 | 4 000 |
| NU 318 | 32318 | 90 | 190 | 43 | 5,4 | 279,3 | 289 | 3 200 | 3 800 |
| NU 319 | 32319 | 95 | 200 | 45 | 6,2 | 301,7 | 315 | 3 100 | 3 700 |
| NU 320 | 32320 | 100 | 215 | 47 | 7,7 | 349,3 | 361,7 | 2 800 | 3 300 |
| NU 322 | 32322 | 110 | 240 | 50 | 10,5 | 427 | 451,3 | 2 500 | 3 000 |
| NU 324 | 32324 | 120 | 260 | 55 | 13 | 527,7 | 577,7 | 2 000 | 2 600 |
| NU 326 | 32326 | 130 | 280 | 58 | 16,5 | 600 | 666,7 | 1 900 | 2 400 |
| NU 328 | 32328 | 140 | 300 | 62 | 20 | 729,7 | 779,3 | 1 900 | 2 300 |
| NU 330 | 32330 | 150 | 320 | 65 | 27 | 827 | 891,3 | 1 800 | 2 100 |
| NU 332 | 32332 | 160 | 340 | 68 | 32 | 920 | 1070 | 1 700 | 2 000 |
| NU 334 | 32334 | 170 | 360 | 72 | 38,5 | 955,7 | 1193,3 | 1 500 | 1 800 |
| NU 336 | 32336 | 180 | 380 | 75 | 42,5 | 1008,3 | 1270 | 1 400 | 1 700 |
| NU 406 | 32406 | 30 | 90 | 23 | 0,75 | 63,5 | 55,9 | 7 500 | 9 300 |



CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE INNER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU WEWNĘTRZNYM



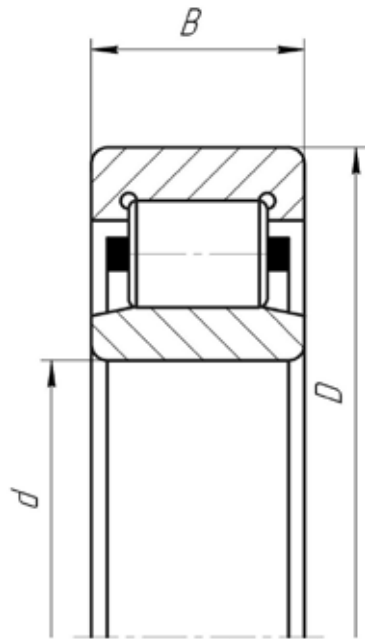
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NU 407 | 32407 | 35 | 100 | 25 | 1 | 75,1 | 66,6 | 6 500 | 8 200 |
| NU 408 | 32408 | 40 | 110 | 27 | 1,3 | 94,9 | 84,3 | 5 800 | 7 400 |
| NU 409 | 32409 | 45 | 120 | 29 | 1,65 | 109,5 | 101,5 | 5 400 | 6 800 |
| NU 410 | 32410 | 50 | 130 | 31 | 2 | 135 | 123 | 4 700 | 5 600 |
| NU 411 | 32411 | 55 | 140 | 33 | 2,5 | 140,5 | 133 | 4 600 | 5 500 |
| NU 412 | 32412 | 60 | 150 | 35 | 3 | 172,3 | 172,7 | 4 100 | 4 900 |
| NU 413 | 32413 | 65 | 160 | 37 | 3,6 | 182 | 183,3 | 3 900 | 4 600 |
| NU 414 | 32414 | 70 | 180 | 42 | 5,25 | 233 | 238,3 | 3 300 | 4 000 |
| NU 417 | 32417 | 85 | 210 | 52 | 8,7 | 347,5 | 366,9 | 2 900 | 3 700 |
| NU 418 | 32418 | 90 | 225 | 54 | 10,5 | 382 | 407 | 2 700 | 3 300 |
| NU 419 | 32419 | 95 | 240 | 55 | 13,5 | 414,3 | 449 | 2 500 | 3 100 |
| NU 2205 | 32505 | 25 | 52 | 18 | 0,19 | 29,6 | 29,3 | 12 200 | 15 000 |
| NU 2206 | 32506 | 30 | 62 | 20 | 0,3 | 45,2 | 46,1 | 9 700 | 12 000 |
| NU 2207 | 32507 | 35 | 72 | 23 | 0,4 | 57,4 | 60,7 | 8 300 | 10 000 |
| NU 2208 | 32508 | 40 | 80 | 23 | 0,49 | 62,6 | 65,4 | 7 300 | 8 900 |
| NU 2209 | 32509 | 45 | 85 | 23 | 0,54 | 69,9 | 81,1 | 6 900 | 8 300 |
| NU 2210 | 32510 | 50 | 90 | 23 | 0,58 | 73,9 | 84,3 | 6 200 | 7 500 |
| NU 2211 | 32511 | 55 | 100 | 25 | 0,78 | 91,1 | 109,4 | 5 900 | 7 000 |
| NU 2212 | 32512 | 60 | 110 | 28 | 1,05 | 117,9 | 140,6 | 5 300 | 6 400 |
| NU 2213 | 32513 | 65 | 120 | 31 | 1,45 | 134,3 | 163 | 4 900 | 5 900 |
| NU 2214 | 32514 | 70 | 125 | 31 | 1,5 | 154,6 | 193,1 | 4 600 | 5 600 |
| NU 2215 | 32515 | 75 | 130 | 31 | 1,55 | 157,8 | 208,6 | 4 300 | 5 200 |
| NU 2216 | 32516 | 80 | 140 | 33 | 1,95 | 174,6 | 228,3 | 4 100 | 5 000 |
| NU 2217 | 32517 | 85 | 150 | 36 | 2,5 | 220,1 | 282,6 | 3 700 | 4 500 |
| NU 2218 | 32518 | 90 | 160 | 40 | 3,1 | 241 | 314,4 | 3 600 | 4 200 |
| NU 2219 | 32519 | 95 | 170 | 43 | 3,85 | 277,1 | 361,8 | 3 300 | 4 100 |



ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE INNER RING



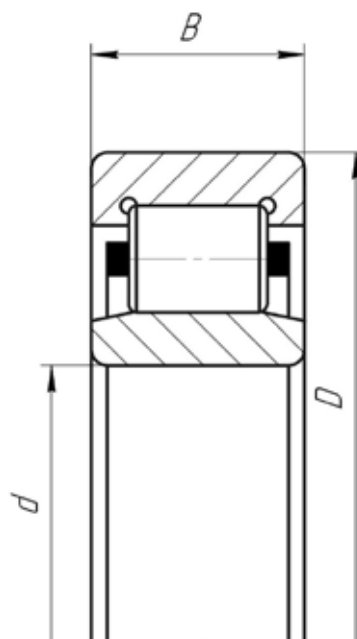
ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERSCIENIU WEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NU 2220 | 32520 | 100 | 180 | 46 | 4,65 | 334,3 | 442,2 | 3 100 | 3 800 |
| NU 2222 | 32522 | 110 | 200 | 53 | 6,96 | 357,8 | 480,7 | 2 800 | 3 400 |
| NU 2224 | 32524 | 120 | 215 | 58 | 8,55 | 425,8 | 570 | 2 500 | 3 200 |
| NU 2232 | 32532 | 160 | 290 | 80 | 27,2 | 830,6 | 1157 | 1 900 | 2 400 |
| NU 2244 | 32544 | 220 | 400 | 108 | 61,5 | 1280 | 1966,7 | 1 200 | 1 600 |
| NU 2305 | 32605 | 25 | 62 | 24 | 0,34 | 51,8 | 51 | 10 000 | 12 000 |
| NU 2306 | 32606 | 30 | 72 | 27 | 0,5 | 60,2 | 60,5 | 8 700 | 10 200 |
| NU 2307 | 32607 | 35 | 80 | 31 | 0,7 | 87,7 | 92,8 | 7 700 | 9 300 |
| NU 2308 | 32608 | 40 | 90 | 33 | 0,96 | 102,5 | 109,7 | 6 600 | 7 900 |
| NU 2309 | 32609 | 45 | 100 | 36 | 1,25 | 122 | 132,5 | 5 700 | 7 000 |
| NU 2310 | 32610 | 50 | 110 | 40 | 1,7 | 147,5 | 163,5 | 5 200 | 6 300 |
| NU 2311 | 32611 | 55 | 120 | 43 | 2,1 | 178,1 | 202,5 | 5 000 | 6 100 |
| NU 2312 | 32612 | 60 | 130 | 46 | 2,7 | 203,1 | 236,4 | 4 500 | 5 400 |
| NU 2313 | 32613 | 65 | 140 | 48 | 3,25 | 240,7 | 259,3 | 4 200 | 5 100 |
| NU 2314 | 32614 | 70 | 150 | 51 | 3,95 | 268,3 | 294,3 | 3 900 | 4 800 |
| NU 2315 | 32615 | 75 | 160 | 55 | 4,85 | 289,2 | 342 | 3 700 | 4 400 |
| NU 2316 | 32616 | 80 | 170 | 58 | 5,85 | 387,6 | 419,1 | 3 300 | 4 000 |
| NU 2317 | 32617 | 85 | 180 | 60 | 6,6 | 418,3 | 461,7 | 3 000 | 3 800 |
| NU 2318 | 32618 | 90 | 190 | 64 | 7,9 | 480 | 533,3 | 2 900 | 3 600 |
| NU 2319 | 32619 | 95 | 200 | 67 | 10,4 | 508,3 | 583,3 | 2 700 | 3 300 |
| NU 2320 | 32620 | 100 | 215 | 73 | 12 | 605,6 | 721,7 | 2 600 | 3 200 |
| NU 2322 | 32622 | 110 | 240 | 80 | 19 | 615,3 | 783,4 | 2 400 | 2 800 |
| NU 2324 | 32624 | 120 | 260 | 86 | 24 | 814 | 1014,6 | 2 000 | 2 600 |
| NU 2326 | 32626 | 130 | 280 | 93 | 30 | 845 | 1105 | 1 900 | 2 400 |
| NU 2328 | 32628 | 140 | 300 | 102 | 37,5 | 1143,3 | 1400 | 1 700 | 2 300 |
| NU 2330 | 32630 | 150 | 320 | 108 | 45 | 1291 | 1586,2 | 1 600 | 2 100 |



CYLINDRICAL ROLLER BEARINGS WITHOUT RIBS ON THE INNER RING

ŁOŻYSKA WALCOWE BEZ KOŁNIERZY NA PIERŚCIENIU WEWNĘTRZNYM



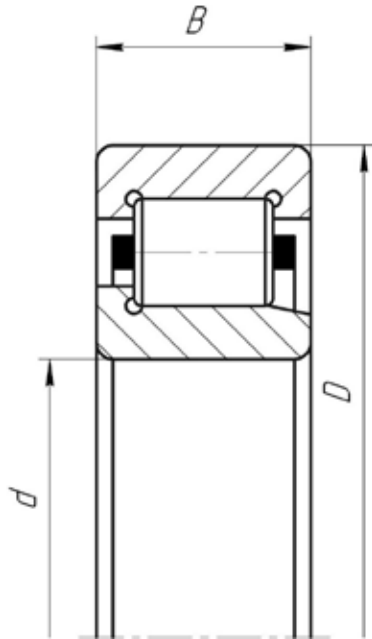
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NU 2332 | 32632 | 160 | 340 | 114 | 53,5 | 1293,3 | 1793,3 | 1 500 | 2 000 |
| NU 2334 | 32634 | 170 | 360 | 120 | 62,5 | 1435,3 | 1985,3 | 1 400 | 1 700 |
| 1032907 | 1032907 | 35 | 55 | 10 | 0,14 | * | * | * | * |
| 1032908 | 1032908 | 40 | 62 | 12 | 0,16 | * | * | * | * |
| 1032909 | 1032909 | 45 | 68 | 12 | 0,18 | * | * | * | * |
| 1032910 | 1032910 | 50 | 72 | 12 | 0,21 | * | * | * | * |
| 1032911 | 1032911 | 55 | 80 | 13 | 0,23 | * | * | * | * |
| 1032912 | 1032912 | 60 | 85 | 13 | 0,25 | * | * | * | * |
| 1032913 | 1032913 | 65 | 90 | 13 | 0,3 | * | * | * | * |
| 1032914 | 1032914 | 70 | 100 | 16 | 0,37 | * | * | * | * |
| 1032915 | 1032915 | 75 | 105 | 16 | 0,41 | * | * | * | * |
| 1032916 | 1032916 | 80 | 110 | 16 | 0,47 | * | * | * | * |
| 1032917 | 1032917 | 85 | 120 | 18 | 0,6 | * | * | * | * |
| 1032918 | 1032918 | 90 | 125 | 18 | 0,72 | * | * | * | * |
| 1032920 | 1032920 | 100 | 140 | 20 | 0,88 | * | * | * | * |
| 1032922 | 1032922 | 110 | 150 | 20 | 0,94 | * | * | * | * |
| 1032924 | 1032924 | 120 | 165 | 22 | 1,26 | * | * | * | * |
| 1032926 | 1032926 | 130 | 180 | 24 | 2,05 | * | * | * | * |
| 1032928 | 1032928 | 140 | 190 | 24 | 2,46 | * | * | * | * |
| 1032930 | 1032930 | 150 | 210 | 28 | 2,8 | * | * | * | * |
| 1032932 | 1032932 | 160 | 220 | 28 | 3,34 | * | * | * | * |



ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE INNER RING



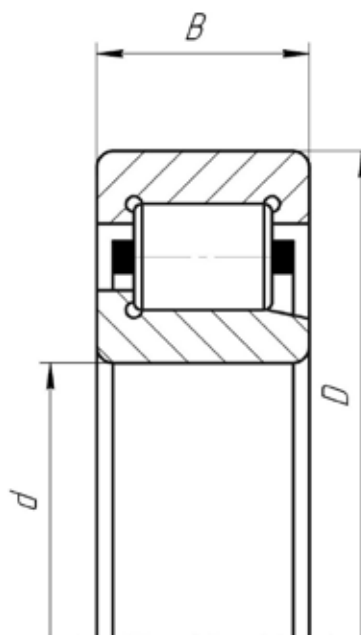
ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NJ 1034 | 42134 | 170 | 260 | 42 | 8,2 | 287,3 | 415 | 2 400 | 2 800 |
| NJ 1036 | 42136 | 180 | 280 | 46 | 10,1 | 350,3 | 501,7 | 2 200 | 2 600 |
| NJ 1052 | 42152 | 260 | 400 | 65 | 30,9 | 642,3 | 995 | 1 500 | 1 800 |
| NJ 201 | 42201 | 12 | 32 | 10 | 0,04 | * | * | * | * |
| NJ 202 | 42202 | 15 | 35 | 11 | 0,05 | 15,1 | 10,4 | 18 000 | 21 000 |
| NJ 203 | 42203 | 17 | 40 | 12 | 0,08 | 16,2 | 13,1 | 15 000 | 18 000 |
| NJ 204 | 42204 | 20 | 47 | 14 | 0,12 | 18,1 | 15 | 14 500 | 17 500 |
| NJ 205 | 42205 | 25 | 52 | 15 | 0,13 | 20,7 | 18,4 | 12 800 | 15 500 |
| NJ 206 | 42206 | 30 | 62 | 16 | 0,2 | 30,1 | 25,9 | 10 800 | 12 800 |
| NJ 207 | 42207 | 35 | 72 | 17 | 0,29 | 41 | 36,4 | 9 400 | 11 000 |
| NJ 208 | 42208 | 40 | 80 | 18 | 0,37 | 49,2 | 44,5 | 8 200 | 9 700 |
| NJ 209 | 42209 | 45 | 85 | 19 | 0,43 | 53,1 | 50,7 | 7 500 | 8 900 |
| NJ 210 | 42210 | 50 | 90 | 20 | 0,48 | 59,8 | 61,1 | 6 600 | 8 000 |
| NJ 211 | 42211 | 55 | 100 | 21 | 0,64 | 70,2 | 71,2 | 6 300 | 7 500 |
| NJ 212 | 42212 | 60 | 110 | 22 | 0,82 | 81,1 | 81,7 | 5 800 | 6 900 |
| NJ 213 | 42213 | 65 | 120 | 23 | 1,05 | 95,1 | 98,3 | 5 300 | 6 000 |
| NJ 215 | 42215 | 75 | 130 | 25 | 1,25 | 114,2 | 121,1 | 4 700 | 5 800 |
| NJ 216 | 42216 | 80 | 140 | 26 | 1,5 | 124 | 134 | 4 500 | 5 300 |
| NJ 217 | 42217 | 85 | 150 | 28 | 1,9 | 143,7 | 157 | 4 200 | 5 000 |
| NJ 218 | 42218 | 90 | 160 | 30 | 2,3 | 169 | 185,3 | 4 000 | 4 700 |
| NJ 221 | 42221 | 105 | 190 | 36 | 4 | 233,7 | 260 | 3 300 | 4 000 |
| NJ 226 | 42226 | 130 | 230 | 40 | 6,5 | 314,7 | 365,7 | 2 600 | 3 200 |
| NJ 228 | 42228 | 140 | 250 | 42 | 8,25 | 355,7 | 418 | 2 400 | 3 000 |
| NJ 234 | 42234 | 170 | 310 | 52 | 18,5 | 584,3 | 724 | 1 900 | 2 300 |
| NJ 240 | 42240 | 200 | 360 | 58 | 27,5 | 808 | 1040 | 1 600 | 1 900 |
| NJ 244 | 42244 | 220 | 400 | 65 | 38,5 | 956,7 | 1220 | 1 500 | 1 700 |



CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE INNER RING

ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM



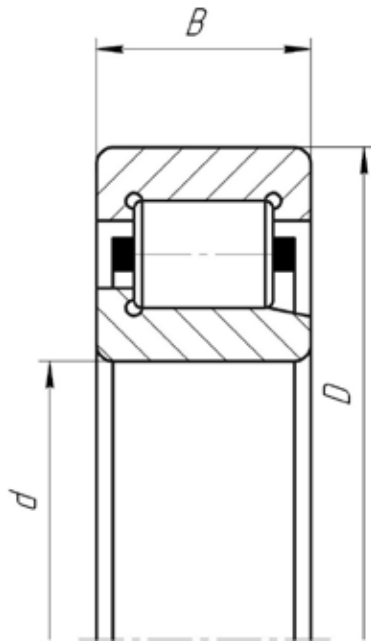
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NJ 301 | 42301 | 12 | 37 | 12 | 0,07 | * | * | * | * |
| NJ 302 | 42302 | 15 | 42 | 13 | 0,1 | * | * | * | * |
| NJ 303 | 42303 | 17 | 47 | 14 | 0,13 | 25,1 | 20,8 | 14 000 | 17 000 |
| NJ 304 | 42304 | 20 | 52 | 15 | 0,16 | 27,4 | 21,6 | 12 500 | 15 500 |
| NJ 305 | 42305 | 25 | 62 | 17 | 0,24 | 34,5 | 27,7 | 10 000 | 12 500 |
| NJ 306 | 42306 | 30 | 72 | 19 | 0,36 | 44,4 | 38 | 8 700 | 10 800 |
| NJ 307 | 42307 | 35 | 80 | 21 | 0,48 | 55,8 | 48,7 | 7 900 | 9 400 |
| NJ 308 | 42308 | 40 | 90 | 23 | 0,66 | 68,9 | 61,1 | 6 900 | 8 400 |
| NJ 309 | 42309 | 45 | 100 | 25 | 0,87 | 85,6 | 77,6 | 6 300 | 7 500 |
| NJ 310 | 42310 | 50 | 110 | 27 | 1,15 | 100,5 | 92,5 | 5 600 | 6 700 |
| NJ 311 | 42311 | 55 | 120 | 29 | 1,45 | 125 | 118 | 5 100 | 6 300 |
| NJ 312 | 42312 | 60 | 130 | 31 | 1,85 | 139,3 | 133,3 | 4 700 | 5 600 |
| NJ 313 | 42313 | 65 | 140 | 33 | 2,25 | 159,3 | 154,3 | 4 400 | 5 300 |
| NJ 314 | 42314 | 70 | 150 | 35 | 2,75 | 180,3 | 180 | 4 100 | 5 000 |
| NJ 315 | 42315 | 75 | 160 | 37 | 3,25 | 212,3 | 210,7 | 3 800 | 4 600 |
| NJ 317 | 42317 | 85 | 180 | 41 | 4,5 | 255,7 | 259,3 | 3 300 | 4 000 |
| NJ 318 | 42318 | 90 | 190 | 43 | 5,4 | 279,3 | 289 | 3 200 | 3 800 |
| NJ 320 | 42320 | 100 | 215 | 47 | 7,7 | 349,3 | 361,7 | 2 800 | 3 300 |
| NJ 322 | 42322 | 110 | 240 | 50 | 10,5 | 427 | 451,3 | 2 500 | 3 000 |
| NJ 324 | 42324 | 120 | 260 | 55 | 13 | 527,7 | 577,7 | 2 000 | 2 600 |
| NJ 326 | 42326 | 130 | 280 | 58 | 16,5 | 600 | 666,7 | 1 900 | 2 400 |
| NJ 328 | 42328 | 140 | 300 | 62 | 20 | 729,7 | 779,3 | 1 900 | 2 300 |
| NJ 330 | 42330 | 150 | 320 | 65 | 27 | 827 | 891,3 | 1 800 | 2 100 |
| NJ 406 | 42406 | 30 | 90 | 23 | 0,75 | 63,5 | 55,9 | 7 500 | 9 300 |
| NJ 407 | 42407 | 35 | 100 | 25 | 1 | 75,1 | 66,6 | 6 500 | 8 200 |
| NJ 408 | 42408 | 40 | 110 | 27 | 1,3 | 94,9 | 84,3 | 5 800 | 7 400 |



ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE INNER RING



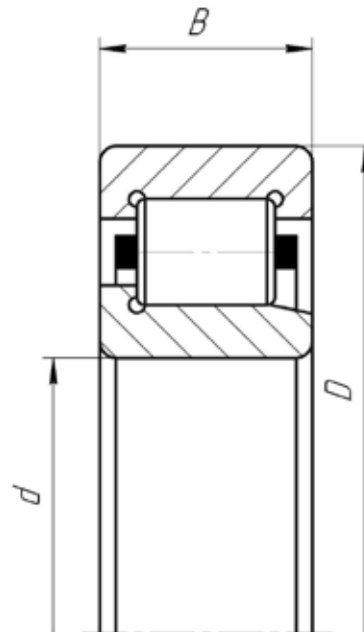
ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NJ 409 | 42409 | 45 | 120 | 29 | 1,65 | 109,5 | 101,5 | 5 400 | 6 800 |
| NJ 410 | 42410 | 50 | 130 | 31 | 2 | 135 | 123 | 4 700 | 5 600 |
| NJ 411 | 42411 | 55 | 140 | 33 | 2,5 | 140,5 | 133 | 4 600 | 5 500 |
| NJ 412 | 42412 | 60 | 150 | 35 | 3 | 172,3 | 172,7 | 4 100 | 4 900 |
| NJ 413 | 42413 | 65 | 160 | 37 | 3,6 | 182 | 183,3 | 3 900 | 4 600 |
| NJ 414 | 42414 | 70 | 180 | 42 | 5,25 | 233 | 238,3 | 3 300 | 4 000 |
| NJ 415 | 42415 | 75 | 190 | 45 | 6,25 | 263 | 262,5 | 3 300 | 4 100 |
| NJ 416 | 42416 | 80 | 200 | 48 | 7,3 | 300,5 | 304 | 3 100 | 3 900 |
| NJ 417 | 42417 | 85 | 210 | 52 | 8,7 | 347,5 | 366,9 | 2 900 | 3 700 |
| NJ 418 | 42418 | 90 | 225 | 54 | 10,5 | 382 | 407 | 2 700 | 3 300 |
| NJ 420 | 42420 | 100 | 250 | 58 | 14 | 460 | 507 | 2 500 | 2 900 |
| NJ 422 | 42422 | 110 | 280 | 65 | 20 | 561,3 | 627 | 2 100 | 2 600 |
| NJ 2205 | 42505 | 25 | 52 | 18 | 0,16 | 29,6 | 29,3 | 12 200 | 15 000 |
| NJ 2206 | 42506 | 30 | 62 | 20 | 0,26 | 45,2 | 46,1 | 9 700 | 12 000 |
| NJ 2207 | 42507 | 35 | 72 | 23 | 0,4 | 57,4 | 60,7 | 8 300 | 10 000 |
| NJ 2208 | 42508 | 40 | 80 | 23 | 0,49 | 62,6 | 65,4 | 7 300 | 8 900 |
| NJ 2209 | 42509 | 45 | 85 | 23 | 0,54 | 69,9 | 81,1 | 6 900 | 8 300 |
| NJ 2210 | 42510 | 50 | 90 | 23 | 0,58 | 73,9 | 84,3 | 6 200 | 7 500 |
| NJ 2211 | 42511 | 55 | 100 | 25 | 0,78 | 91,1 | 109,4 | 5 900 | 7 000 |
| NJ 2212 | 42512 | 60 | 110 | 28 | 1,05 | 117,9 | 140,6 | 5 300 | 6 400 |
| NJ 2213 | 42513 | 65 | 120 | 31 | 1,45 | 134,3 | 163 | 4 900 | 5 900 |
| NJ 2214 | 42514 | 70 | 125 | 31 | 1,5 | 154,6 | 193,1 | 4 600 | 5 600 |
| NJ 2215 | 42515 | 75 | 130 | 31 | 1,55 | 157,8 | 208,6 | 4 300 | 5 200 |
| NJ 2216 | 42516 | 80 | 140 | 33 | 1,95 | 174,6 | 228,3 | 4 100 | 5 000 |
| NJ 2217 | 42517 | 85 | 150 | 36 | 2,5 | 220,1 | 282,6 | 3 700 | 4 500 |
| NJ 2218 | 42518 | 90 | 160 | 40 | 3,1 | 241 | 314,4 | 3 600 | 4 200 |



CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE INNER RING

ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM



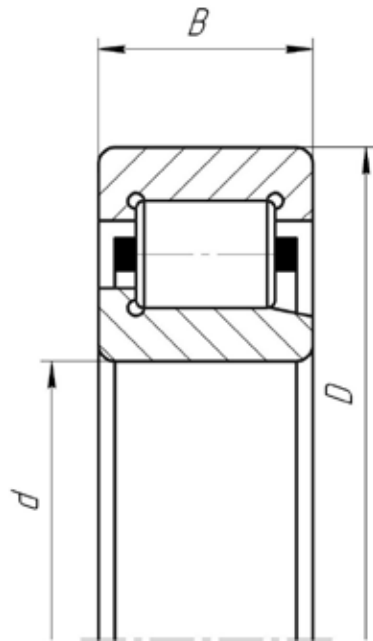
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NJ 2219 | 42519 | 95 | 170 | 43 | 3,85 | 277,1 | 361,8 | 3 300 | 4 100 |
| NJ 2220 | 42520 | 100 | 180 | 46 | 4,65 | 334,3 | 442,2 | 3 100 | 3 800 |
| NJ 2222 | 42522 | 110 | 200 | 53 | 6,96 | 357,8 | 480,7 | 2 800 | 3 400 |
| NJ 2224 | 42524 | 120 | 215 | 58 | 8,55 | 425,8 | 570 | 2 500 | 3 200 |
| NJ 2226 | 42526 | 130 | 230 | 64 | 10,5 | 573,6 | 710,7 | 2 300 | 2 850 |
| NJ 2305 | 42605 | 25 | 62 | 24 | 0,34 | 51,8 | 51 | 10 000 | 12 000 |
| NJ 2306 | 42606 | 30 | 72 | 27 | 0,5 | 60,2 | 60,5 | 8 700 | 10 200 |
| NJ 2307 | 42607 | 35 | 80 | 31 | 0,7 | 87,7 | 92,8 | 7 700 | 9 300 |
| NJ 2308 | 42608 | 40 | 90 | 33 | 0,96 | 102,5 | 109,7 | 6 600 | 7 900 |
| NJ 2309 | 42609 | 45 | 100 | 36 | 1,25 | 122 | 132,5 | 5 700 | 7 000 |
| NJ 2310 | 42610 | 50 | 110 | 40 | 1,7 | 147,5 | 163,5 | 5 200 | 6 300 |
| NJ 2311 | 42611 | 55 | 120 | 43 | 2,1 | 178,1 | 202,5 | 5 000 | 6 100 |
| NJ 2312 | 42612 | 60 | 130 | 46 | 2,7 | 203,1 | 236,4 | 4 500 | 5 400 |
| NJ 2313 | 42613 | 65 | 140 | 48 | 3,25 | 240,7 | 259,3 | 4 200 | 5 100 |
| NJ 2314 | 42614 | 70 | 150 | 51 | 3,95 | 268,3 | 294,3 | 3 900 | 4 800 |
| NJ 2315 | 42615 | 75 | 160 | 55 | 4,85 | 289,2 | 342 | 3 700 | 4 400 |
| NJ 2316 | 42616 | 80 | 170 | 58 | 5,85 | 387,6 | 419,1 | 3 300 | 4 000 |
| NJ 2317 | 42617 | 85 | 180 | 60 | 6,6 | 418,3 | 461,7 | 3 000 | 3 800 |
| NJ 2318 | 42618 | 90 | 190 | 64 | 7,9 | 480 | 533,3 | 2 900 | 3 600 |
| NJ 2319 | 42619 | 95 | 200 | 67 | 10,4 | 508,3 | 583,3 | 2 700 | 3 300 |
| NJ 2320 | 42620 | 100 | 215 | 73 | 12 | 605,6 | 721,7 | 2 600 | 3 200 |
| NJ 2322 | 42622 | 110 | 240 | 80 | 19 | 615,3 | 783,4 | 2 400 | 2 800 |
| NJ 2324 | 42624 | 120 | 260 | 86 | 24 | 814 | 1014,6 | 2 000 | 2 600 |
| NJ 2326 | 42626 | 130 | 280 | 93 | 30 | 845 | 1105 | 1 900 | 2 400 |
| 42722 | 42722 | 110 | 215 | 73 | 12,1 | * | * | * | * |



ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

CYLINDRICAL ROLLER BEARINGS WITH ONE INTEGRAL RIB ON THE INNER RING



ŁOŻYSKA WALCOWE Z POJEDYNCZYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 42724 | 42724 | 120 | 220 | 70 | 12,9 | * | * | * | * |



CYLINDRICAL ROLLER BEARINGS WITH TWO INTEGRAL RIBS ON THE OUTER RING, ONE INTEGRAL RIB AND ONE LOOSE RIB ON THE INNER RING

BBC-R

ŁOŻYSKA WALCOWE Z DWOMA KOŁNIERZAMI NA PIERŚCIENIU ZEWNĘTRZNYM, JEDNYM KOŁNIERZEM ZINTEGROWANYM I JEDNYM WOLNYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM.

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NUP 201 | 92201 | 12 | 32 | 10 | 0,05 | * | * | * | * |
| NUP 202 | 92202 | 15 | 35 | 11 | 0,06 | 15,1 | 10,4 | 18 000 | 21 000 |
| NUP 203 | 92203 | 17 | 40 | 12 | 0,07 | 16,2 | 13,1 | 15 000 | 18 000 |
| NUP 204 | 92204 | 20 | 47 | 14 | 0,12 | 18,1 | 15 | 14 500 | 17 500 |
| NUP 205 | 92205 | 25 | 52 | 15 | 0,14 | 20,7 | 18,4 | 12 800 | 15 500 |
| NUP 206 | 92206 | 30 | 62 | 16 | 0,21 | 30,1 | 25,9 | 10 800 | 12 800 |
| NUP 207 | 92207 | 35 | 72 | 17 | 0,31 | 41 | 36,4 | 9 400 | 11 000 |
| NUP 208 | 92208 | 40 | 80 | 18 | 0,39 | 49,2 | 44,5 | 8 200 | 9 700 |
| NUP 209 | 92209 | 45 | 85 | 19 | 0,46 | 53,1 | 50,7 | 7 500 | 8 900 |
| NUP 210 | 92210 | 50 | 90 | 20 | 0,52 | 59,8 | 61,1 | 6 600 | 8 000 |
| NUP 211 | 92211 | 55 | 100 | 21 | 0,69 | 70,2 | 71,2 | 6 300 | 7 500 |
| NUP 212 | 92212 | 60 | 110 | 22 | 0,86 | 81,1 | 81,7 | 5 800 | 6 900 |
| NUP 213 | 92213 | 65 | 120 | 23 | 1,13 | 95,1 | 98,3 | 5 300 | 6 000 |
| NUP 214 | 92214 | 70 | 125 | 24 | 1,2 | 100 | 104,8 | 5 200 | 5 900 |
| NUP 215 | 92215 | 75 | 130 | 25 | 1,32 | 114,2 | 121,1 | 4 700 | 5 800 |
| NUP 216 | 92216 | 80 | 140 | 26 | 1,57 | 124 | 134 | 4 500 | 5 300 |
| NUP 217 | 92217 | 85 | 150 | 28 | 1,9 | 143,7 | 157 | 4 200 | 5 000 |
| NUP 218 | 92218 | 90 | 160 | 30 | 2,44 | 169 | 185,3 | 4 000 | 4 700 |
| NUP 219 | 92219 | 95 | 170 | 32 | 2,89 | 191,7 | 209,7 | 3 800 | 4 500 |
| NUP 220 | 92220 | 100 | 180 | 34 | 3,61 | 215,3 | 241,7 | 3 500 | 4 200 |
| NUP 221 | 92221 | 105 | 190 | 36 | 4,19 | 233,7 | 260 | 3 300 | 4 000 |
| NUP 222 | 92222 | 110 | 200 | 38 | 5 | 267 | 302,7 | 3 200 | 3 800 |
| NUP 224 | 92223 | 120 | 215 | 40 | 6,35 | 299,7 | 342,7 | 3 000 | 3 400 |
| NUP 226 | 92224 | 130 | 230 | 40 | 7,3 | 314,7 | 365,7 | 2 600 | 3 200 |
| NUP 228 | 92228 | 140 | 250 | 42 | 9,22 | 355,7 | 418 | 2 400 | 3 000 |
| NUP 230 | 92230 | 150 | 270 | 45 | 12,2 | 392,5 | 510 | 2 200 | 2 600 |



CYLINDRICAL ROLLER BEARINGS WITH TWO INTEGRAL RIBS ON THE OUTER RING, ONE INTEGRAL RIB AND ONE LOOSE RIB ON THE INNER RING

ŁOŻYSKA WALCOWE Z DWOMA KOŁNIERZAMI NA PIERŚCIENIU ZEWNĘTRZNYM, JEDNYM KOŁNIERZEM ZINTEGROWANYM I JEDNYM WOLNYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM.

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NUP 232 | 92232 | 160 | 290 | 48 | 16,8 | 497,9 | 627,1 | 2 100 | 2 500 |
| NUP 234 | 92234 | 170 | 310 | 52 | 19,3 | 584,3 | 724 | 1 900 | 2 300 |
| NUP 236 | 92236 | 180 | 320 | 52 | 20 | 608,7 | 770,7 | 1 800 | 2 100 |
| NUP 238 | 92238 | 190 | 340 | 55 | 23,8 | 750 | 953,3 | 1 700 | 2 000 |
| NUP 240 | 92240 | 200 | 360 | 58 | 27,7 | 808 | 1040 | 1 600 | 1 900 |
| NUP 244 | 92244 | 220 | 400 | 65 | 38,8 | 956,7 | 1220 | 1 500 | 1 700 |
| NUP 305 | 92305 | 25 | 62 | 17 | 0,24 | 34,5 | 27,7 | 10 000 | 12 500 |
| NUP 306 | 92306 | 30 | 72 | 19 | 0,36 | 44,4 | 38 | 8 700 | 10 800 |
| NUP 307 | 92307 | 35 | 80 | 21 | 4,8 | 55,8 | 48,7 | 7 900 | 9 400 |
| NUP 308 | 92308 | 40 | 90 | 23 | 0,66 | 68,9 | 61,1 | 6 900 | 8 400 |
| NUP 309 | 92309 | 45 | 100 | 25 | 0,87 | 85,6 | 77,6 | 6 300 | 7 500 |
| NUP 310 | 92310 | 50 | 110 | 27 | 1,15 | 100,5 | 92,5 | 5 600 | 6 700 |
| NUP 311 | 92311 | 55 | 120 | 29 | 1,45 | 125 | 118 | 5 100 | 6 300 |
| NUP 312 | 92312 | 60 | 130 | 31 | 1,85 | 139,3 | 133,3 | 4 700 | 5 600 |
| NUP 313 | 92313 | 65 | 140 | 33 | 2,25 | 159,3 | 154,3 | 4 400 | 5 300 |
| NUP 314 | 92314 | 70 | 150 | 35 | 2,75 | 180,3 | 180 | 4 100 | 5 000 |
| NUP 315 | 92315 | 75 | 160 | 37 | 3,25 | 212,3 | 210,7 | 3 800 | 4 600 |
| NUP 316 | 92316 | 80 | 170 | 39 | 3,9 | 227,3 | 229,7 | 3 500 | 4 200 |
| NUP 317 | 92317 | 85 | 180 | 41 | 4,5 | 255,7 | 259,3 | 3 300 | 4 000 |
| NUP 318 | 92318 | 90 | 190 | 43 | 5,4 | 279,3 | 289 | 3 200 | 3 800 |
| NUP 319 | 92319 | 95 | 200 | 45 | 6,2 | 301,7 | 315 | 3 100 | 3 700 |
| NUP 320 | 92320 | 100 | 215 | 47 | 7,7 | 349,3 | 361,7 | 2 800 | 3 300 |
| NUP 321 | 92321 | 105 | 225 | 49 | 8,75 | 425,3 | 448 | 2 600 | 3 100 |
| NUP 322 | 92322 | 110 | 240 | 50 | 10,5 | 427 | 451,3 | 2 500 | 3 000 |
| NUP 324 | 92324 | 120 | 260 | 55 | 13 | 527,7 | 577,7 | 2 000 | 2 600 |
| NUP 407 | 92407 | 35 | 100 | 25 | 1,06 | 75,1 | 66,6 | 6 500 | 8 200 |



CYLINDRICAL ROLLER BEARINGS WITH TWO INTEGRAL RIBS ON THE OUTER RING, ONE INTEGRAL RIB AND ONE LOOSE RIB ON THE INNER RING

BBC-R

ŁOŻYSKA WALCOWE Z DWOMA KOŁNIERZAMI NA PIERŚCIENIU ZEWNĘTRZNYM, JEDNYM KOŁNIERZEM ZINTEGROWANYM I JEDNYM WOLNYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM.

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NUP 408 | 92408 | 40 | 110 | 27 | 1,3 | 94,9 | 84,3 | 5 800 | 7 400 |
| NUP 409 | 92408 | 45 | 120 | 29 | 1,64 | 109,5 | 101,5 | 5 400 | 6 800 |
| NUP 410 | 92410 | 50 | 130 | 31 | 2,1 | 135 | 123 | 4 700 | 5 600 |
| NUP 411 | 92411 | 55 | 140 | 33 | 2,62 | 140,5 | 133 | 4 600 | 5 500 |
| NUP 412 | 92412 | 60 | 150 | 35 | 3,2 | 172,3 | 172,7 | 4 100 | 4 900 |
| NUP 413 | 92413 | 65 | 160 | 37 | 3,58 | 182 | 183,3 | 3 900 | 4 600 |
| NUP 414 | 92414 | 70 | 180 | 42 | 5,28 | 233 | 238,3 | 3 300 | 4 000 |
| NUP 416 | 92416 | 80 | 200 | 48 | 7,28 | 300,5 | 304 | 3 100 | 3 900 |
| NUP 417 | 92417 | 85 | 210 | 52 | 8,68 | 347,5 | 366,9 | 2 900 | 3 700 |
| NUP 2203 | 92503 | 17 | 40 | 16 | 0,089 | 25,4 | 21,8 | 15 000 | 18 000 |
| NUP 2204 | 92504 | 20 | 47 | 18 | 0,14 | 28,9 | 28,9 | 13 000 | 16 000 |
| NUP 2205 | 92505 | 25 | 52 | 18 | 0,16 | 29,6 | 29,3 | 12 200 | 15 000 |
| NUP 2206 | 92506 | 30 | 62 | 20 | 0,26 | 45,2 | 46,1 | 9 700 | 12 000 |
| NUP 2207 | 92507 | 35 | 72 | 23 | 0,4 | 57,4 | 60,7 | 8 300 | 10 000 |
| NUP 2208 | 92508 | 40 | 80 | 23 | 0,49 | 62,6 | 65,4 | 7 300 | 8 900 |
| NUP 2209 | 92509 | 45 | 85 | 23 | 0,54 | 69,9 | 81,1 | 6 900 | 8 300 |
| NUP 2210 | 92510 | 50 | 90 | 23 | 0,58 | 73,9 | 84,3 | 6 200 | 7 500 |
| NUP 2211 | 92511 | 55 | 100 | 25 | 0,78 | 91,1 | 109,4 | 5 900 | 7 000 |
| NUP 2212 | 92512 | 60 | 110 | 28 | 1,05 | 117,9 | 140,6 | 5 300 | 6 400 |
| NUP 2213 | 92513 | 65 | 120 | 31 | 1,45 | 134,3 | 163 | 4 900 | 5 900 |
| NUP 2214 | 92514 | 70 | 125 | 31 | 1,5 | 154,6 | 193,1 | 4 600 | 5 600 |
| NUP 2215 | 92515 | 75 | 130 | 31 | 1,55 | 157,8 | 208,6 | 4 300 | 5 200 |
| NUP 2216 | 92516 | 80 | 140 | 33 | 1,95 | 174,6 | 228,3 | 4 100 | 5 000 |
| NUP 2217 | 92517 | 85 | 150 | 36 | 2,5 | 220,1 | 282,6 | 3 700 | 4 500 |
| NUP 2218 | 92518 | 90 | 160 | 40 | 3,1 | 241 | 314,4 | 3 600 | 4 200 |
| NUP 2219 | 92519 | 95 | 170 | 43 | 3,85 | 277,1 | 361,8 | 3 300 | 4 100 |



ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

BBC-R

CYLINDRICAL ROLLER BEARINGS WITH TWO INTEGRAL RIBS ON THE OUTER RING, ONE INTEGRAL RIB AND ONE LOOSE RIB ON THE INNER RING

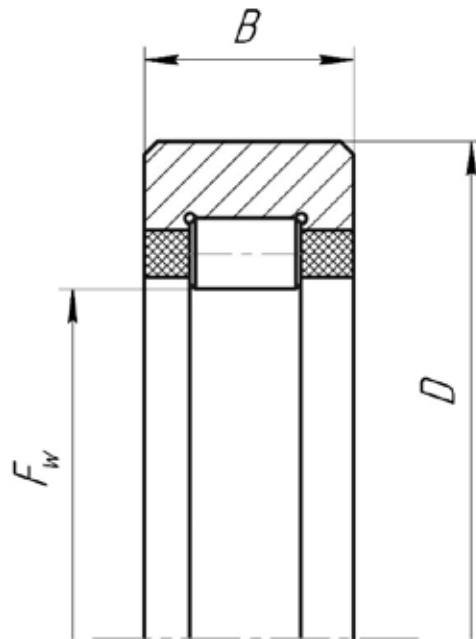
ŁOŻYSKA WALCOWE Z DWOMA KOŁNIERZAMI NA PIERŚCIENIU ZEWNĘTRZNYM, JEDNYM KOŁNIERZEM ZINTEGROWANYM I JEDNYM WOLNYM KOŁNIERZEM NA PIERŚCIENIU WEWNĘTRZNYM.

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| NUP 2220 | 92520 | 100 | 180 | 46 | 4,65 | 334,3 | 442,2 | 3 100 | 3 800 |
| NUP 2222 | 92522 | 110 | 200 | 53 | 6,96 | 357,8 | 480,7 | 2 800 | 3 400 |
| NUP 2224 | 92524 | 120 | 215 | 58 | 8,55 | 425,8 | 570 | 2 500 | 3 200 |
| NUP 2305 | 92605 | 25 | 62 | 24 | 0,34 | 51,8 | 51 | 10 000 | 12 000 |
| NUP 2306 | 92606 | 30 | 72 | 27 | 0,5 | 60,2 | 60,5 | 8 700 | 10 200 |
| NUP 2307 | 92607 | 35 | 80 | 31 | 0,7 | 87,7 | 92,8 | 7 700 | 9 300 |
| NUP 2308 | 92608 | 40 | 90 | 33 | 0,96 | 102,5 | 109,7 | 6 600 | 7 900 |
| NUP 2309 | 92609 | 45 | 100 | 36 | 1,25 | 122 | 132,5 | 5 700 | 7 000 |
| NUP 2310 | 92610 | 50 | 110 | 40 | 1,7 | 147,5 | 163,5 | 5 200 | 6 300 |
| NUP 2311 | 92611 | 55 | 120 | 43 | 2,1 | 178,1 | 202,5 | 5 000 | 6 100 |
| NUP 2312 | 92612 | 60 | 130 | 46 | 2,7 | 203,1 | 236,4 | 4 500 | 5 400 |
| NUP 2313 | 92613 | 65 | 140 | 48 | 3,25 | 240,7 | 259,3 | 4 200 | 5 100 |
| NUP 2314 | 92614 | 70 | 150 | 51 | 3,95 | 268,3 | 294,3 | 3 900 | 4 800 |
| NUP 2315 | 92615 | 75 | 160 | 55 | 4,85 | 289,2 | 342 | 3 700 | 4 400 |
| NUP 2316 | 92616 | 80 | 170 | 58 | 5,85 | 387,6 | 419,1 | 3 300 | 4 000 |
| NUP 2317 | 92617 | 85 | 180 | 60 | 6,6 | 418,3 | 461,7 | 3 000 | 3 800 |
| NUP 2318 | 92618 | 90 | 190 | 64 | 7,9 | 480 | 533,3 | 2 900 | 3 600 |
| NUP 2319 | 92619 | 95 | 200 | 67 | 10,4 | 508,3 | 583,3 | 2 700 | 3 300 |
| NUP 2320 | 92620 | 100 | 215 | 73 | 12 | 605,6 | 721,7 | 2 600 | 3 200 |
| NUP 2322 | 92622 | 110 | 240 | 80 | 19 | 615,3 | 783,4 | 2 400 | 2 800 |
| NUP 2324 | 92624 | 120 | 260 | 86 | 24 | 814 | 1014,6 | 2 000 | 2 600 |
| 92705 | 92705 | 25 | 55 | 18 | 0,21 | * | * | * | * |
| 92714 | 92714 | 70 | 150 | 45 | 3,20 | * | * | * | * |



CYLINDRICAL ROLLER BEARING WITH SHORT
CYLINDRICAL ROLLERS WITH INTEGRAL RIBS ON OUTER
RING AND WITHOUT INNER RING

ŁOŻYSKA WALCOWE Z KRÓTKIMI ROLKAMI
CYLINDRYCZNYMI Z KOŁNIERZAMI NA PIERŚCIENIU
ZEWNĘTRZNYM I BEZ PIERŚCIENIA WEWNĘTRZNEGO



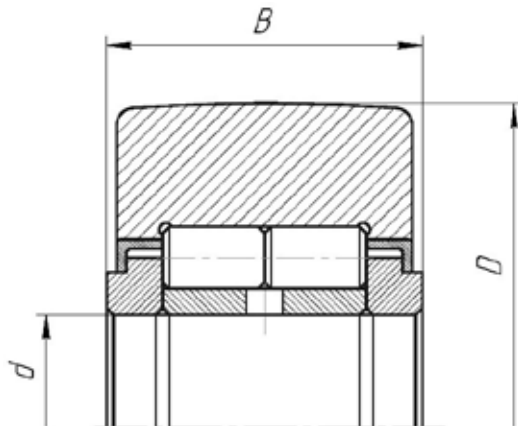
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| RNU208 | 292208 | 50 | 80 | 18 | 0,28 | * | * | * | * |
| RNU211 | 292211 | 66,5 | 100 | 21 | 0,50 | * | * | * | * |
| RNU212 | 292212 | 73,5 | 110 | 22 | 0,63 | * | * | * | * |
| RNU213 | 292213 | 79,6 | 120 | 23 | 0,75 | * | * | * | * |
| RNU218 | 292218 | 107 | 160 | 30 | 1,70 | * | * | * | * |
| RNU305 | 292305 | 35 | 62 | 17 | 0,17 | * | * | * | * |
| RNU306 | 292306 | 42 | 72 | 19 | 0,25 | * | * | * | * |
| RNU308 | 292308 | 53,5 | 90 | 23 | 0,50 | * | * | * | * |
| RNU310 | 292310 | 65 | 110 | 27 | 0,88 | * | * | * | * |



ŁOŻYSKA WALCOWE

CYLINDRICAL ROLLER BEARINGS

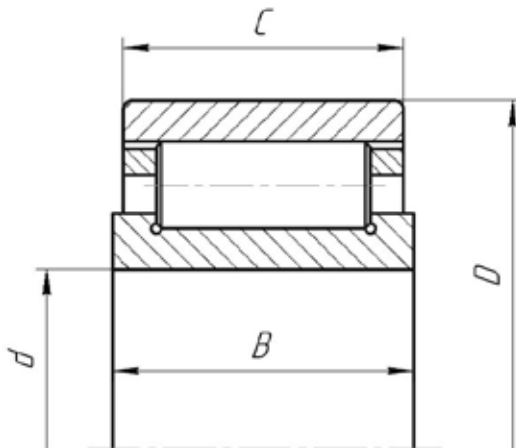
CYLINDRICAL ROLLER BEARING WITH SHORT CYLINDRICAL ROLLERS WITH TWO INTEGRAL RIBS ON THE INNER AND OUTER RINGS WITH A PROTRUDING INNER RING



ŁOŻYSKA WALCOWE DWURZĘDOWE Z KOŁNIERZAMI NA PIERŚCIENIU ZEWNĘTRZNYM ORAZ WYSTAJĄCYMI PIERŚCIENIAMI WEWNĘTRZNYMI

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 962715 | 962715 | 75 | 129 | 30 | 1,69 | * | * | * | * |

SINGLE ROW RADIAL NEEDLE ROLLER BEARING (WITH LONG CYLINDRICAL ROLLERS) WITHOUT RIBS ON THE OUTER RING



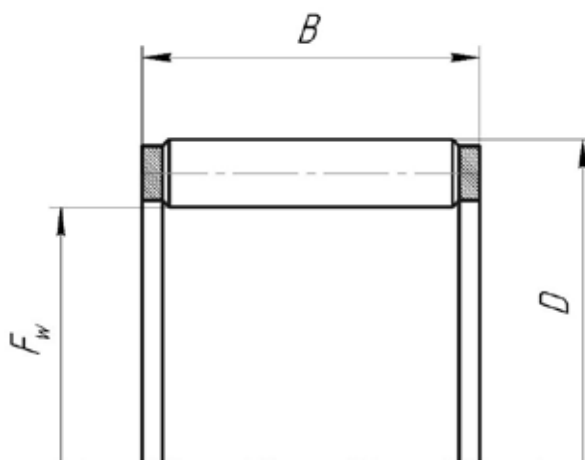
ŁOŻYSKA IGEŁKOWE Z KOŁNIERZAMI NA PIERŚCIENIU WEWNĘTRZNYM I BEZ KOŁNIERZY NA PIERŚCIENIU ZEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | WEIGHT, kg MASE, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|-----|----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | C | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 954712 | 954712 | 60 | 120 | 60 | 58 | 2,9 | 240 | 320 | 3700 | 4500 |



SINGLE ROW RADIAL NEEDLE ROLLER BEARING (WITH LONG CYLINDRICAL ROLLERS) WITHOUT RINGS

ZŁOŻENIE IGŁKOWE JEDNORZĘDOWE



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|----|------|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | F _w | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 64706 | 64706 | 29,975 | 42 | 44,1 | 0,15 | * | * | * | * |



Tapered roller bearings

Tapered roller bearings are available in many designs and sizes. Main designs are single row, double row and four row tapered roller bearings. Basic bearing designations are indicated in the catalogue datasheets and are in accordance with international ISO and/or GOST standards. The system listed below with suffixes is applied to differentiate design variants. You can get in touch with our services to clarify a bearing design availability, to get additional bearing technical data, which is not listed in the catalogue as well as to discuss with our technical experts your specific requirements for a bearing design.

Łożyska stożkowe są produkowane w różnych wersjach i rozmiarach. Podstawowe wykonania to łożyska stożkowe jednorzędowe, dwurzędowe i czterorzędowe. Podstawowe oznaczenia łożysk zgodnie z międzynarodowymi normami ISO i/lub GOST są przedstawione w tabeli katalogowej. Do oznaczania różnych wariantów konstrukcyjnych stosuje się następujący system przyrostków. Prosimy o kontakt w celu uzyskania szczegółowych informacji na temat dostępnych wykonań, dodatkowych parametrów produktów nie ujętych w katalogu, jak również w celu omówienia z naszymi specjalistami technicznymi Państwa specjalnych wymagań dotyczących konstrukcji łożysk.

DESIGNATION SCHEME

WZÓR OZNACZENIA

| | | | |
|------------------------------|--------------------------------|------------------------------------|--|
| Basic designation | Internal design (B,R) | Cage (without suffix, P) | Accuracy (without suffix, P6) |
| Oznaczenie podstawowe | Budowa wewnętrzna (B,R) | koszyk (bez przedrostka, P) | Klasa dokładności (bez przedrostka, P6) |

ŁOŻYSKA STOŻKOWE



SUFFIXES DESIGNATION

OZNACZENIA PRZEDROSTKÓW

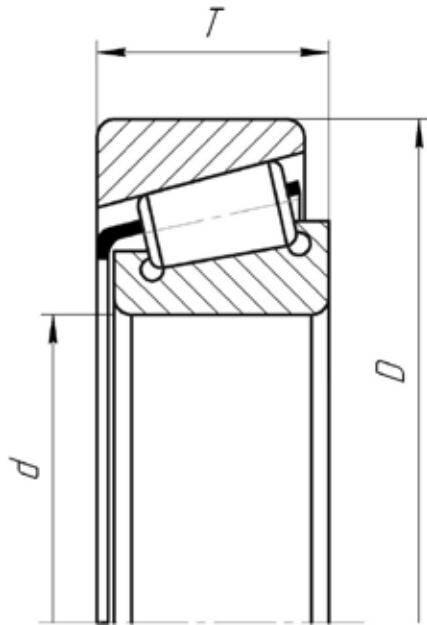
| | | |
|--------------------------------|---|--|
| without suffix без суффикса | stamped steel cage, roller centered; dimensional and running accuracy to normal class | koszyk stalowy tłoczony wyśrodkowany na rolkach; dokładność wymiarowa i obrotowa odpowiada normalnej klasie dokładności; |
| B | contact angle is greater than a standard bearing contact angle | kąt styku większy niż w przypadku standardowych łożysk |
| P | koszyk cage | koszyk z tworzywa sztucznego |
| P6 | dimensional and running accuracy to ISO tolerance class 6 | dokładność wymiarowa i obrotowa wg ISO klasa 6 |
| R | the outer ring with one rib | pierścień zewnętrzny z jednym kołnierzem |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

SINGLE ROW TAPERED ROLLER BEARINGS



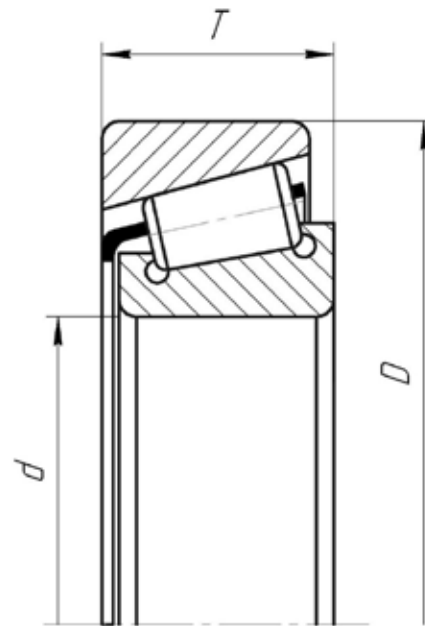
ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|-------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 30201 | 7201 | 12 | 32 | 10,75 | 0,05 | * | * | * | * |
| 30202 | 7202 | 15 | 35 | 11,75 | 0,0544 | 16,5 | 14,6 | 10 500 | 15 000 |
| 30203 | 7203 | 17 | 40 | 13,25 | 0,075 | 20,8 | 20,6 | 9 500 | 13 000 |
| 30204 | 7204 | 20 | 47 | 15,25 | 0,127 | 26,9 | 28,2 | 8 450 | 11 500 |
| 30205 | 7205 | 25 | 52 | 16,25 | 0,15 | 32 | 35,5 | 7 300 | 10 000 |
| 30206 | 7206 | 30 | 62 | 17,25 | 0,157 | 41,6 | 45,8 | 6 200 | 8 500 |
| 30207 | 7207 | 35 | 72 | 18,25 | 0,326 | 51,9 | 56,4 | 5 200 | 7 100 |
| 30208 | 7208 | 40 | 80 | 19,75 | 0,446 | 59,9 | 67,6 | 4 600 | 6 400 |
| 30209 | 7209 | 45 | 85 | 20,75 | 0,491 | 65 | 73,8 | 4 300 | 6 000 |
| 30210 | 7210 | 50 | 90 | 21,75 | 0,539 | 74,4 | 89,3 | 3 600 | 5 000 |
| 30211 | 7211 | 55 | 100 | 22,75 | 0,709 | 93,2 | 105 | 3 600 | 5 000 |
| 30212 | 7212 | 60 | 110 | 23,75 | 0,931 | 105,8 | 121,7 | 3 300 | 4 500 |
| 30213 | 7213 | 65 | 120 | 24,75 | 1,13 | 123,4 | 140,9 | 2 900 | 4 000 |
| 30214 | 7214 | 70 | 125 | 26,25 | 1,25 | 128,1 | 160,9 | 2 900 | 4 000 |
| 30215 | 7215 | 75 | 130 | 27,25 | 1,42 | 140,6 | 172 | 2 700 | 3 700 |
| 30216 | 7216 | 80 | 140 | 28,25 | 1,67 | 151,7 | 187 | 2 600 | 3 600 |
| 30217 | 7217 | 85 | 150 | 30,25 | 2,113 | 186,5 | 219,7 | 2 500 | 3 300 |
| 30218 | 7218 | 90 | 160 | 32,5 | 2,52 | 195,7 | 251,3 | 2 300 | 3 100 |
| 30219 | 7219 | 95 | 170 | 34,5 | 3,1 | 218,7 | 279 | 2 100 | 2 900 |
| 30220 | 7220 | 100 | 180 | 37 | 3,63 | 256,7 | 333,7 | 2 000 | 2 800 |
| 30221 | 7221 | 105 | 190 | 39 | 3,8 | 283,3 | 374 | 2 000 | 2 800 |
| 30222 | 7222 | 110 | 200 | 41 | 4,15 | 312,3 | 414 | 1 800 | 2 400 |
| 30224 | 7224 | 120 | 215 | 43,5 | 6,28 | 341,7 | 462,3 | 1 600 | 2 200 |
| 30230 | 7230 | 150 | 270 | 49 | 10,7 | 422 | 565 | 1 500 | 2 000 |
| 30244 | 7244 | 220 | 400 | 70 | 34,9 | 927,7 | 1305,7 | 800 | 1 100 |
| 30302 | 7302 | 15 | 42 | 14,25 | 0,095 | 22,8 | 20,8 | 9 900 | 13 500 |



SINGLE ROW TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE



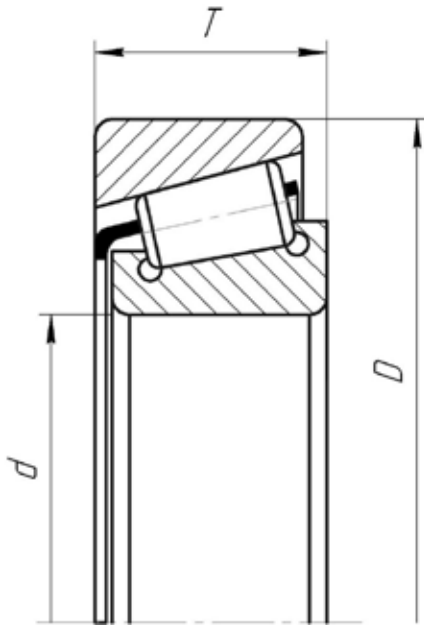
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|-------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 30303 | 7303 | 17 | 47 | 15,25 | 0,13 | 27,6 | 25 | 9 200 | 12 000 |
| 30304 | 7304 | 20 | 52 | 16,25 | 0,17 | 33,1 | 31,9 | 7 900 | 10 500 |
| 30305 | 7305 | 25 | 62 | 18,25 | 0,27 | 45,9 | 44,4 | 6 500 | 8 900 |
| 30306 | 7306 | 30 | 72 | 20,75 | 0,41 | 57 | 57,4 | 5 400 | 7 400 |
| 30307 | 7307 | 35 | 80 | 22,75 | 0,54 | 72,2 | 75,2 | 4 800 | 6000 |
| 30308 | 7308 | 40 | 90 | 25,25 | 0,77 | 88,4 | 98,6 | 4 300 | 5 900 |
| 30309 | 7309 | 45 | 100 | 27,25 | 1,02 | 109,7 | 122,6 | 3 800 | 5 200 |
| 30310 | 7310 | 50 | 110 | 29,25 | 1,31 | 137 | 144,3 | 3 700 | 4 900 |
| 30311 | 7311 | 55 | 120 | 31,5 | 1,67 | 152,3 | 168 | 3 300 | 4 400 |
| 30312 | 7312 | 60 | 130 | 33,5 | 2,06 | 170 | 198 | 3 000 | 4 000 |
| 30313 | 7313 | 65 | 140 | 36 | 2,55 | 194 | 228,7 | 2 800 | 3 700 |
| 30314 | 7314 | 70 | 150 | 38 | 3,09 | 224,3 | 264,3 | 2 600 | 3 500 |
| 30315 | 7315 | 75 | 160 | 40 | 3,68 | 247,7 | 294 | 2 400 | 3 200 |
| 30316 | 7316 | 80 | 170 | 42,5 | 4,41 | 283,7 | 341,7 | 2 200 | 3 100 |
| 30317 | 7317 | 85 | 180 | 44,5 | 5,13 | 305,7 | 367,7 | 2 000 | 2 800 |
| 30318 | 7318 | 90 | 190 | 46,5 | 5,93 | 332,7 | 402,7 | 1 900 | 2 600 |
| 30319 | 7319 | 95 | 200 | 49,5 | 6,92 | 348,3 | 418,3 | 1 800 | 2 500 |
| 30320 | 7320 | 100 | 215 | 51,5 | 8,47 | 407,7 | 496,7 | 1 700 | 2 400 |
| 30321 | 7321 | 105 | 225 | 53,5 | 9,66 | 443 | 548,7 | 1 600 | 2 200 |
| 30322 | 7322 | 110 | 240 | 54,5 | 12,5 | 475,7 | 586 | 1 500 | 2 100 |
| 30324 | 7324 | 120 | 260 | 59,5 | 14,5 | 562,3 | 705 | 1 400 | 1 900 |
| 32202 | 7502 | 15 | 35 | 11 | 0,1 | * | * | * | * |
| 32203 | 7503 | 17 | 40 | 17,25 | 0,1 | 30,6 | 30,9 | 9 100 | 11 900 |
| 32204 | 7504 | 20 | 47 | 19,25 | 0,17 | 35,8 | 39 | 8 700 | 11 800 |
| 32205 | 7505 | 25 | 52 | 19,25 | 0,19 | 37,9 | 45,4 | 7 500 | 10 200 |
| 32206 | 7506 | 30 | 62 | 21,25 | 0,3 | 50,1 | 57,2 | 6 200 | 8 500 |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

SINGLE ROW TAPERED ROLLER BEARINGS



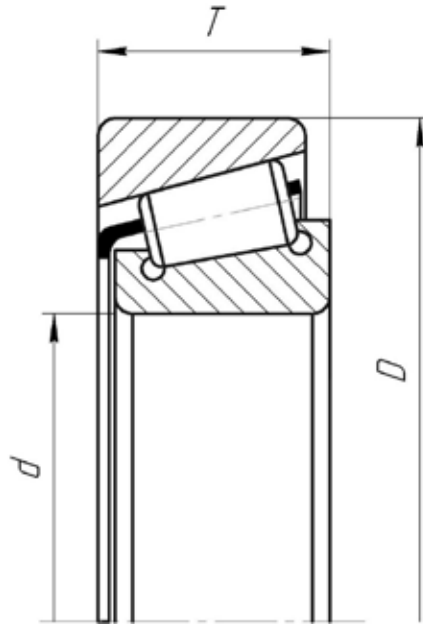
ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|-------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 32207 | 7507 | 35 | 72 | 24,25 | 0,46 | 66,8 | 78,1 | 5 100 | 7 000 |
| 32208 | 7508 | 40 | 80 | 24,75 | 0,56 | 74,5 | 86,7 | 4 500 | 6 200 |
| 32209 | 7509 | 45 | 85 | 24,75 | 0,6 | 83,1 | 97,3 | 4 200 | 5 800 |
| 32210 | 7510 | 50 | 90 | 24,75 | 0,64 | 86,8 | 103,7 | 4 100 | 5 400 |
| 32211 | 7511 | 55 | 100 | 26,75 | 0,88 | 106,9 | 132,8 | 3 600 | 4 800 |
| 32212 | 7512 | 60 | 110 | 29,75 | 1,2 | 129,9 | 166,9 | 3 200 | 4 400 |
| 32213 | 7513 | 65 | 120 | 32,75 | 1,58 | 156,6 | 204,9 | 2 900 | 3 900 |
| 32214 | 7514 | 70 | 125 | 33,25 | 1,68 | 161,7 | 216 | 2 800 | 3 800 |
| 32215 | 7515 | 75 | 130 | 33,25 | 1,76 | 163,7 | 218,7 | 2 700 | 3 700 |
| 32216 | 7516 | 80 | 140 | 35,25 | 2,18 | 189 | 253,7 | 2 600 | 3 600 |
| 32217 | 7517 | 85 | 150 | 38,5 | 2,75 | 216,1 | 291,7 | 2 400 | 3 200 |
| 32218 | 7518 | 90 | 160 | 42,5 | 3,49 | 254,7 | 351,7 | 2 300 | 3 100 |
| 32219 | 7519 | 95 | 170 | 45,5 | 4,32 | 296,7 | 414 | 2 200 | 3 000 |
| 32220 | 7520 | 100 | 180 | 49 | 5,21 | 332,3 | 467 | 2 200 | 3 000 |
| 32221 | 7521 | 105 | 190 | 53 | 6,38 | 377 | 540 | 2 100 | 2 800 |
| 32222 | 7522 | 110 | 200 | 56 | 7,43 | 418,3 | 601,7 | 2 000 | 2 700 |
| 32224 | 7524 | 120 | 215 | 61,5 | 9,42 | 463,3 | 686,7 | 1 600 | 2 200 |
| 32226 | 7526 | 130 | 230 | 67,75 | 11,8 | 545 | 830 | 1 500 | 2 000 |
| 32228 | 7528 | 140 | 250 | 71,75 | 14,876 | 633,7 | 973,3 | 1 400 | 1 900 |
| 32230 | 7530 | 150 | 270 | 77 | 18,52 | 725,3 | 1120 | 1 300 | 1 700 |
| 32232 | 7532 | 160 | 290 | 84 | 22,2 | 881,7 | 1405 | 1 200 | 1 600 |
| 32236 | 7536 | 180 | 320 | 92 | 27,6 | 1018,3 | 1656,7 | 1 100 | 1 400 |
| 32238 | 7538 | 190 | 340 | 97 | 35,4 | 1163,3 | 1873,3 | 1 000 | 1 300 |
| 32244 | 7544 | 220 | 400 | 114 | 58,4 | 1592,5 | 2662,5 | 850 | 1 100 |
| 32302 | 7602 | 15 | 42 | 17 | 0,12 | * | * | * | * |
| 32303 | 7603 | 17 | 47 | 15,25 | 0,13 | 35,9 | 34,8 | 8 500 | 11 000 |



SINGLE ROW TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE



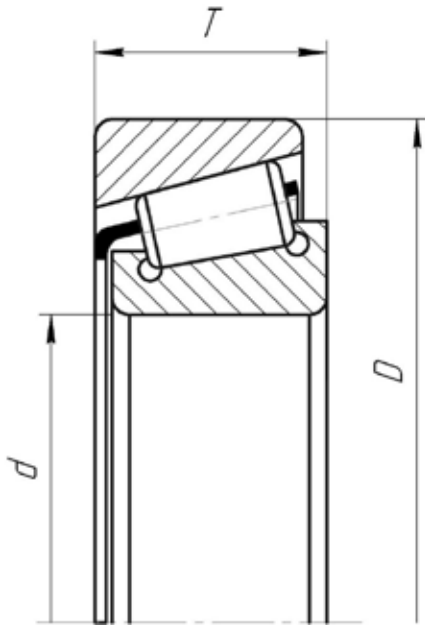
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|-----|-------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 32304 | 7604 | 20 | 52 | 22,25 | 0,236 | 44,1 | 45,8 | 8 000 | 10 500 |
| 32305 | 7605 | 25 | 62 | 25,25 | 0,38 | 60,8 | 64,2 | 6 500 | 8 500 |
| 32306 | 7606 | 30 | 72 | 28,75 | 0,5 | 79,5 | 89,1 | 5 500 | 7 200 |
| 32307 | 7607 | 35 | 80 | 32,75 | 0,79 | 97,7 | 111,4 | 4 700 | 6 300 |
| 32308 | 7608 | 40 | 90 | 35,25 | 1,08 | 117,3 | 142,7 | 4 200 | 5 500 |
| 32309 | 7609 | 45 | 100 | 38,25 | 1,48 | 145,3 | 179,3 | 3 700 | 5 000 |
| 32310 | 7610 | 50 | 110 | 42,25 | 1,96 | 174,5 | 224 | 3 300 | 4 500 |
| 32311 | 7611 | 55 | 120 | 45,5 | 2,46 | 201,3 | 260,3 | 3 100 | 4 300 |
| 32312 | 7612 | 60 | 130 | 48,5 | 3,05 | 233,7 | 301,3 | 2 900 | 3 900 |
| 32313 | 7613 | 65 | 140 | 51 | 3,4 | 266 | 338,7 | 2 800 | 3 700 |
| 32314 | 7614 | 70 | 150 | 54 | 4,53 | 300 | 394,3 | 2 600 | 3 500 |
| 32315 | 7615 | 75 | 160 | 58 | 5,54 | 344 | 458 | 2 400 | 3 200 |
| 32316 | 7616 | 80 | 170 | 61,5 | 6,6 | 389,3 | 515 | 2 200 | 3 000 |
| 32317 | 7617 | 85 | 180 | 63,5 | 7,57 | 406,7 | 541,7 | 2 000 | 2 800 |
| 32318 | 7618 | 90 | 190 | 67,5 | 9,06 | 461,7 | 629,3 | 1 900 | 2 700 |
| 32319 | 7619 | 95 | 200 | 71,5 | 11 | 507,3 | 678,3 | 1 800 | 2 500 |
| 32320 | 7620 | 100 | 215 | 77,5 | 13,1 | 579,3 | 788,3 | 1 700 | 2 400 |
| 32322 | 7622 | 110 | 240 | 84,5 | 17,7 | 672 | 910 | 1 500 | 2 100 |
| 32324 | 7624 | 120 | 260 | 90,5 | 22,4 | 779,3 | 1098,3 | 1 400 | 1 900 |
| 32334 | 7634 | 170 | 360 | 127 | 58 | 1505 | 2300 | 1 000 | 1 300 |
| 7705 | 7705 | 28 | 67 | 20,5 | 0,38 | * | * | * | * |
| 7706 | 7706 | 28 | 58 | 17,25 | 0,21 | * | * | * | * |
| 7707 | 7707 | 33 | 62 | 16 | 0,21 | * | * | * | * |
| 7709 | 7709 | 45 | 100 | 27,5 | 1,06 | * | * | * | * |
| 7710 | 7710 | 50 | 82 | 21,5 | 0,43 | * | * | * | * |
| 7712 | 7712 | 60 | 120 | 45,5 | 2,38 | * | * | * | * |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

SINGLE ROW TAPERED ROLLER BEARINGS



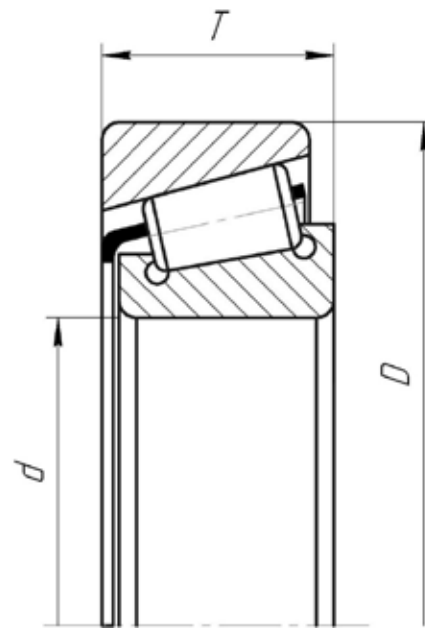
ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|------|-------------------------------|---------|--------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 7713 | 7713 | 65 | 120 | 44,5 | 2,64 | * | * | * | * |
| 7714 | 7714 | 70 | 120 | 45,5 | 1,93 | * | * | * | * |
| 7716 | 7716 | 80 | 130 | 32 | 1,6 | * | * | * | * |
| 7717 | 7717 | 85,025 | 200,025 | 52,7 | 7,54 | * | * | * | * |
| 7718 | 7718 | 90 | 160 | 49,5 | 4,12 | * | * | * | * |
| 7721 | 7721 | 105 | 215 | 77,5 | 12,7 | * | * | * | * |
| 7723 | 7723 | 115 | 190 | 48,5 | 5,2 | * | * | * | * |
| 7724 | 7724 | 120 | 175 | 38 | 2,87 | * | * | * | * |
| 7728 | 7728 | 140 | 225 | 37,25 | 5,6 | * | * | * | * |
| 7804 | 7804 | 19,05 | 45,25 | 15,494 | 0,13 | * | * | * | * |
| 7805 | 7805 | 26 | 57,15 | 17,462 | 0,23 | * | * | * | * |
| 7806 | 7806 | 32 | 72 | 29,75 | 0,34 | * | * | * | * |
| 7807 | 7807 | 34,938 | 73,03 | 26,99 | 0,54 | * | * | * | * |
| 7809 | 7809 | 45 | 90 | 38,25 | 1,14 | * | * | * | * |
| 7810 | 7810 | 52,388 | 92,075 | 24,61 | 0,65 | * | * | * | * |
| 7813 | 7813 | 65 | 110 | 31 | 1,1 | * | * | * | * |
| 7814 | 7814 | 70 | 115 | 35 | 1,47 | * | * | * | * |
| 7815 | 7815 | 75 | 135 | 44,5 | 2,57 | * | * | * | * |
| 7816 | 7816 | 80 | 140 | 45 | 2,74 | * | * | * | * |
| 7818 | 7818 | 90 | 170 | 61,5 | 6,84 | * | * | * | * |
| 7819 | 7819 | 95,275 | 161,95 | 36 | 2,72 | * | * | * | * |
| 7821 | 7821 | 105 | 180 | 49 | 5,02 | * | * | * | * |
| 7906 | 7906 | 30,238 | 63,527 | 20,25 | 0,32 | * | * | * | * |
| 7907 | 7907 | 34,988 | 59,974 | 24,5 | 0,77 | * | * | * | * |
| 7909 | 7909 | 47 | 100 | 42,75 | 1,56 | * | * | * | * |



SINGLE ROW TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE



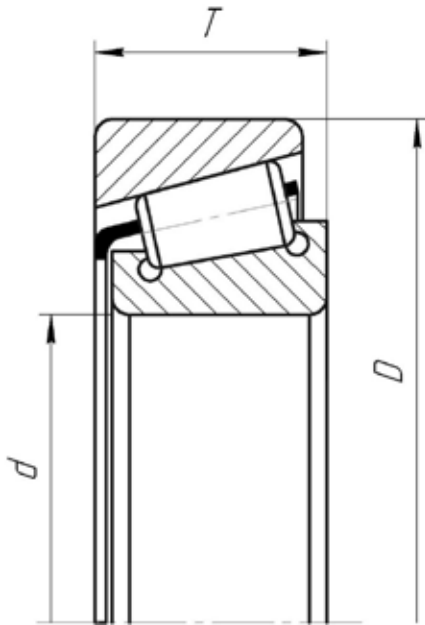
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|---------|--------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 7910 | 7910 | 50,8 | 101,6 | 31,75 | 1,12 | * | * | * | * |
| 7915 | 7915 | 75 | 120 | 31 | 1,3 | * | * | * | * |
| 7918 | 7918 | 88,91 | 152,4 | 39,7 | 2,85 | * | * | * | * |
| 7919 | 7919 | 95,25 | 128,588 | 15,875 | 1,33 | * | * | * | * |
| 7921 | 7921 | 107,95 | 158,75 | 23,02 | 1,33 | * | * | * | * |
| 7923 | 7923 | 114,325 | 177,825 | 40,25 | 1,35 | * | * | * | * |
| 7927 | 7927 | 133,35 | 173,038 | 19,05 | 1,03 | * | * | * | * |
| 33212R | 67512 | 60 | 110/117 | 29,75 | 1,223 | 183 | 249 | 3 740 | 4 950 |
| 127509 | 127509 | 45 | 85 | 24,75 | 0,577 | * | * | * | * |
| 127919 | 127919 | 95,25 | 128,588 | 15,88 | 1,33 | * | * | * | * |
| 1007706 | 1007706 | 31,75 | 62 | 18,161 | 0,24 | * | * | * | * |
| 1007806 | 1007806 | 31,75 | 69,012 | 19,583 | 0,37 | * | * | * | * |
| 807713 | 807713 | 65 | 150 | 53,5 | 4,77 | * | * | * | * |
| 807813 | 807813 | 65 | 110 | 30,25 | 1,1 | * | * | * | * |
| 877907 | 877907 | 33,02 | 58 | 18 | 0,214 | * | * | * | * |
| 977907 | 977907 | 33,02 | 49,225 | 12,4 | 0,081 | * | * | * | * |
| 977908 | 977908 | 40,62 | 66 | 13,5 | 0,17 | * | * | * | * |
| 32004 | 2007104 | 20 | 42 | 15 | 0,101 | 24 | 28 | 9200 | 13000 |
| 32005 | 2007105 | 25 | 47 | 15 | 0,114 | 26,6 | 30,9 | 8000 | 10500 |
| 32006 | 2007106 | 30 | 55 | 17 | 0,17 | 36,6 | 44,3 | 6700 | 8700 |
| 32007 | 2007107 | 35 | 62 | 18 | 0,22 | 42,3 | 52,7 | 5900 | 8100 |
| 32008 | 2007108 | 40 | 68 | 19 | 0,28 | 51,3 | 66,8 | 5100 | 7000 |
| 32009 | 2007109 | 45 | 75 | 20 | 0,35 | 58,2 | 77,5 | 4600 | 6300 |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

SINGLE ROW TAPERED ROLLER BEARINGS



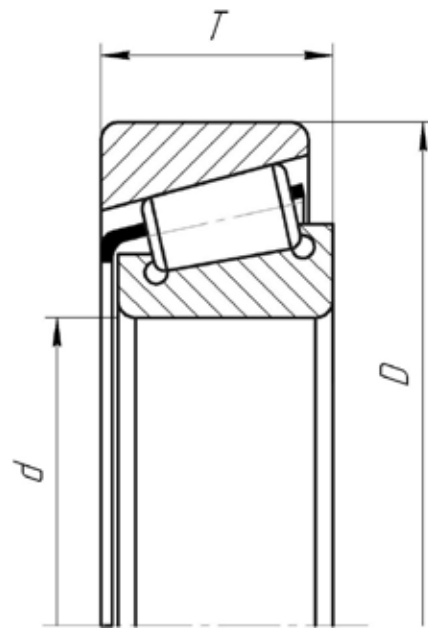
ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 32010 | 2007110 | 50 | 80 | 20 | 0,38 | 63 | 90,1 | 4300 | 5900 |
| 32011 | 2007111 | 55 | 90 | 23 | 0,57 | 79 | 113,2 | 3800 | 5200 |
| 32012 | 2007112 | 60 | 95 | 23 | 0,61 | 86,6 | 120,8 | 3600 | 4900 |
| 32013 | 2007113 | 65 | 100 | 23 | 0,64 | 86,8 | 126 | 3300 | 4500 |
| 32014 | 2007114 | 70 | 110 | 25 | 0,88 | 101,4 | 153,3 | 3200 | 4300 |
| 32015 | 2007115 | 75 | 115 | 25 | 0,92 | 105,3 | 162,7 | 3000 | 4000 |
| 32016 | 2007116 | 80 | 125 | 29 | 1,29 | 136 | 213 | 2800 | 3700 |
| 32017 | 2007117 | 85 | 130 | 29 | 1,35 | 139,3 | 221 | 2700 | 3600 |
| 32018 | 2007118 | 90 | 140 | 32 | 1,76 | 162 | 256 | 2600 | 3400 |
| 32019 | 2007119 | 95 | 145 | 32 | 1,85 | 171 | 276,7 | 2500 | 3300 |
| 32020 | 2007120 | 100 | 150 | 32 | 1,92 | 173,3 | 294 | 2400 | 3200 |
| 32021 | 2007121 | 105 | 160 | 35 | 2,44 | 202,3 | 335,7 | 2300 | 3100 |
| 32022 | 2007122 | 110 | 170 | 38 | 3,09 | 238,3 | 390 | 2200 | 3000 |
| 32024 | 2007124 | 120 | 180 | 38 | 3,32 | 247 | 421,7 | 2100 | 2800 |
| 32026 | 2007126 | 130 | 200 | 45 | 5,05 | 321,3 | 548,3 | 1900 | 2500 |
| 32028 | 2007128 | 140 | 210 | 45 | 5,37 | 331,7 | 581,7 | 1600 | 2100 |
| 32032 | 2007132 | 160 | 240 | 51 | 7,919 | 436 | 779 | 1300 | 1800 |
| 32036 | 2007136 | 180 | 280 | 64 | 14,1 | 678,8 | 1177,3 | 1200 | 1600 |
| 32038 | 2007138 | 190 | 290 | 64 | 14,8 | 725,3 | 1213,7 | 1100 | 1500 |
| 32040 | 2007140 | 200 | 310 | 70 | 19,1 | 779 | 1389,7 | 1000 | 1400 |
| 32044 | 2007144 | 220 | 340 | 76 | 24,7 | 926,7 | 1695,3 | 950 | 1300 |
| 32048 | 2007148 | 240 | 360 | 76 | 26,3 | 978,7 | 1788 | 860 | 1200 |
| 32052 | 2007152 | 260 | 400 | 87 | 40 | 1187 | 2241,7 | 800 | 1100 |
| 32056 | 2007156 | 280 | 420 | 87 | 41,2 | 1208 | 2364 | 700 | 1000 |
| 32060 | 2007160 | 300 | 460 | 100 | 55,9 | 1528 | 2922 | 670 | 900 |
| 32064 | 2007164 | 320 | 480 | 100 | 64 | 1558,3 | 3046,3 | 630 | 850 |



SINGLE ROW TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE



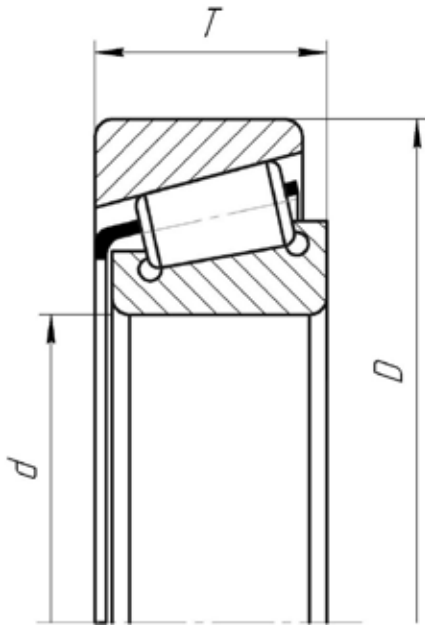
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|--------|--------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 2007407 | 2007407 | 34,988 | 59,974 | 15,875 | 0,17 | * | * | * | * |
| 2007409 | 2007409 | 45,987 | 74,975 | 18 | 0,3 | * | * | * | * |
| 2007707 | 2007707 | 34,988 | 59,131 | 16,764 | 0,18 | * | * | * | * |
| 2007807 | 2007807 | 34,988 | 61,973 | 16,7 | 0,19 | * | * | * | * |
| 2007808 | 2007808 | 40,988 | 67,975 | 17,5 | 0,24 | * | * | * | * |
| 2007809 | 2007809 | 45,242 | 77,788 | 19,842 | 0,37 | * | * | * | * |
| 32908 | 2007909 | 40 | 62 | 15 | 0,18 | * | * | * | * |
| 32909 | 2007909 | 45 | 68 | 15 | 0,19 | * | * | * | * |
| 32910 | 2007910 | 50 | 72 | 15 | 0,2 | * | * | * | * |
| 32911 | 2007911 | 55 | 80 | 17 | 0,28 | * | * | * | * |
| 32912 | 2007912 | 60 | 85 | 17 | 0,3 | * | * | * | * |
| 32913 | 2007913 | 65 | 90 | 17 | 0,32 | * | * | * | * |
| 32914 | 2007914 | 70 | 100 | 20 | 0,49 | * | * | * | * |
| 32915 | 2007915 | 75 | 105 | 20 | 0,51 | * | * | * | * |
| 32916 | 2007916 | 80 | 110 | 20 | 0,55 | * | * | * | * |
| 32917 | 2007917 | 85 | 120 | 23 | 0,78 | * | * | * | * |
| 32918 | 2007918 | 90 | 125 | 23 | 0,83 | * | * | * | * |
| 32919 | 2007919 | 95 | 130 | 23 | 0,86 | * | * | * | * |
| 32920 | 2007920 | 100 | 140 | 25 | 1,17 | * | * | * | * |
| 32921 | 2007921 | 105 | 145 | 25 | 1,2 | * | * | * | * |
| 32922 | 2007922 | 110 | 150 | 25 | 1,25 | * | * | * | * |
| 32924 | 2007924 | 120 | 165 | 29 | 1,78 | * | * | * | * |
| 32926 | 2007926 | 130 | 180 | 32 | 2,4 | * | * | * | * |
| 32928 | 2007928 | 140 | 190 | 32 | 2,55 | * | * | * | * |
| 32930 | 2007930 | 150 | 210 | 38 | 3,88 | * | * | * | * |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

SINGLE ROW TAPERED ROLLER BEARINGS



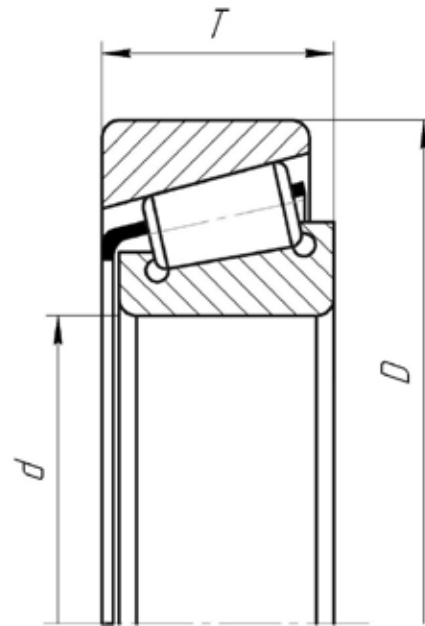
ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 32932 | 2007932 | 160 | 220 | 38 | 4,2 | * | * | * | * |
| 32934 | 2007934 | 170 | 230 | 38 | 4,5 | * | * | * | * |
| 32936 | 2007936 | 180 | 250 | 45 | 6,65 | * | * | * | * |
| 32938 | 2007938 | 190 | 260 | 45 | 7 | * | * | * | * |
| 32940 | 2007940 | 200 | 280 | 51 | 9,5 | * | * | * | * |
| 32944 | 2007944 | 220 | 300 | 51 | 10,1 | * | * | * | * |
| 32948 | 2007948 | 240 | 320 | 51 | 11 | * | * | * | * |
| 32952 | 2007952 | 260 | 360 | 63,5 | 19 | * | * | * | * |
| 32956 | 2007956 | 280 | 380 | 63,5 | 20 | * | * | * | * |
| 32960 | 2007960 | 300 | 420 | 76 | 32 | * | * | * | * |
| 32964 | 2007964 | 320 | 440 | 76 | 33,6 | * | * | * | * |
| 32968 | 2007968 | 340 | 460 | 76 | 35,4 | * | * | * | * |
| 32972 | 2007972 | 360 | 480 | 76 | 37 | * | * | * | * |
| 33005 | 3007105 | 25 | 47 | 17 | 0,13 | 32,8 | 41 | 8 000 | 11 000 |
| 33006 | 3007106 | 30 | 55 | 20 | 0,21 | 43,8 | 55,5 | 6 900 | 9 200 |
| 33007 | 3007107 | 35 | 62 | 21 | 0,27 | 51 | 67,5 | 5 600 | 8 000 |
| 33008 | 3007108 | 40 | 68 | 22 | 0,33 | 60,5 | 84,3 | 5 300 | 7 100 |
| 33009 | 3007109 | 45 | 75 | 24 | 0,42 | 72 | 102,7 | 4 800 | 6 300 |
| 33010 | 3007110 | 50 | 80 | 24 | 0,46 | 80,2 | 111 | 4 300 | 6 000 |
| 33011 | 3007111 | 55 | 90 | 27 | 0,67 | 97,7 | 142,3 | 3 900 | 5 300 |
| 33012 | 3007112 | 60 | 95 | 27 | 0,71 | 100,1 | 150 | 3 600 | 4 900 |
| 33013 | 3007113 | 65 | 100 | 27 | 0,78 | 103,6 | 160 | 3 400 | 4 500 |
| 33014 | 3007114 | 70 | 110 | 31 | 1,12 | 134,3 | 217,3 | 3 100 | 4 200 |
| 33015 | 3007115 | 75 | 115 | 31 | 1,17 | 129,7 | 214,7 | 2 900 | 4 000 |
| 33016 | 3007116 | 80 | 125 | 36 | 1,65 | 179 | 296,3 | 2 800 | 3 600 |
| 33017 | 3007117 | 85 | 130 | 36 | 1,73 | 185 | 310 | 2 700 | 3 500 |



SINGLE ROW TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE



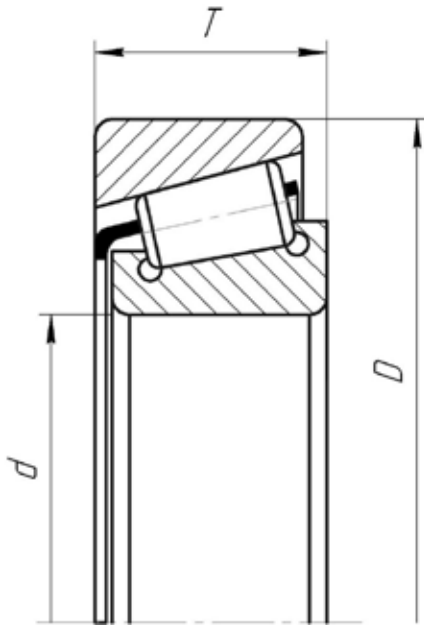
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 33018 | 3007118 | 90 | 140 | 39 | 2,25 | 218 | 365 | 2 600 | 3 300 |
| 33019 | 3007119 | 95 | 145 | 39 | 2,34 | 230,4 | 380 | 2 400 | 3 200 |
| 33020 | 3007120 | 100 | 150 | 39 | 2,43 | 239 | 395 | 2 300 | 3 100 |
| 33021 | 3007121 | 105 | 160 | 43 | 3,06 | 267,7 | 438,3 | 2 200 | 3 000 |
| 33022 | 3007122 | 110 | 170 | 47 | 3,87 | 294,3 | 513,3 | 2 100 | 2 800 |
| 33024 | 3007124 | 120 | 180 | 48 | 4,22 | 301,7 | 539,7 | 1 800 | 2 500 |
| 33026 | 3007126 | 130 | 200 | 55 | 6,32 | 402,5 | 727,5 | 1 700 | 2 200 |
| 33028 | 3007128 | 140 | 210 | 56 | 6,75 | 412,5 | 770 | 1 600 | 2 100 |
| 33030 | 3007130 | 150 | 225 | 59 | 8,26 | 492,5 | 847,5 | 1 400 | 2 000 |
| 33205 | 3007205 | 25 | 52 | 22 | 0,23 | 49,6 | 57,3 | 7 600 | 9 900 |
| 33206 | 3007206 | 30 | 62 | 25 | 0,37 | 68,1 | 78,5 | 6 100 | 8 200 |
| 33207 | 3007207 | 35 | 72 | 28 | 0,56 | 88 | 105,7 | 5 400 | 7 200 |
| 33208 | 3007208 | 40 | 80 | 32 | 0,77 | 111 | 135,3 | 4 800 | 6 400 |
| 33209 | 3007209 | 45 | 85 | 32 | 0,82 | 114,8 | 145,7 | 4 300 | 5 900 |
| 33210 | 3007210 | 50 | 90 | 32 | 0,9 | 121,1 | 160,3 | 4 000 | 5 300 |
| 33211 | 3007211 | 55 | 100 | 35 | 1,21 | 148,2 | 195 | 3 600 | 4 900 |
| 33212 | 3007212 | 60 | 110 | 38 | 1,61 | 169 | 233,7 | 3 400 | 4 500 |
| 33213 | 3007213 | 65 | 120 | 41 | 2,06 | 195,7 | 272,3 | 2 900 | 4 000 |
| 33214 | 3007214 | 70 | 125 | 41 | 2,17 | 208,7 | 293 | 2 800 | 3 900 |
| 33215 | 3007215 | 75 | 130 | 41 | 2,27 | 224 | 299 | 2 700 | 3 700 |
| 33216 | 3007216 | 80 | 140 | 46 | 3,02 | 252,3 | 378 | 2 500 | 3 400 |
| 33217 | 3007217 | 85 | 150 | 49 | 3,7 | 282,7 | 422,7 | 2 300 | 3 200 |
| 33218 | 3007218 | 90 | 160 | 55 | 4,8 | 327,8 | 494,9 | 2 200 | 3 000 |
| 33219 | 3007219 | 95 | 170 | 58 | 5,68 | 377,4 | 568,4 | 2 100 | 2 800 |
| 33220 | 3007220 | 100 | 180 | 63 | 6,97 | 426,8 | 657,1 | 2 000 | 2 700 |
| 33221 | 3007221 | 105 | 190 | 68 | 8,38 | 497 | 790 | 1 900 | 2 600 |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

SINGLE ROW TAPERED ROLLER BEARINGS



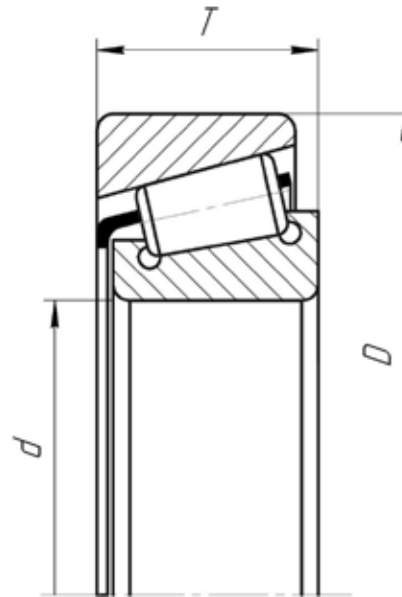
ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 33222 | 3007222 | 110 | 180 | 56 | 5,49 | * | * | * | * |
| 33108 | 3007708 | 40 | 75 | 26 | 0,51 | 82 | 107,1 | 4 700 | 6 500 |
| 33109 | 3007709 | 45 | 80 | 26 | 0,56 | 90,8 | 117,7 | 4 400 | 5 900 |
| 33110 | 3007710 | 50 | 85 | 26 | 0,6 | 98,3 | 119 | 4 100 | 5 500 |
| 33111 | 3007711 | 55 | 95 | 30 | 0,88 | 115,6 | 157 | 3 800 | 5 100 |
| 33112 | 3007712 | 60 | 100 | 30 | 0,94 | 123,3 | 169,3 | 3 500 | 4 700 |
| 33113 | 3007713 | 65 | 110 | 34 | 1,32 | 145,8 | 208,7 | 3 400 | 4 600 |
| 33114 | 3007714 | 70 | 120 | 37 | 1,73 | 175,7 | 260 | 3 100 | 4 100 |
| 33115 | 3007715 | 75 | 125 | 37 | 1,82 | 184,4 | 270 | 2 900 | 3 700 |
| 33116 | 3007716 | 80 | 130 | 37 | 1,93 | 192,7 | 285,3 | 2 800 | 3 600 |
| 33117 | 3007717 | 85 | 140 | 41 | 2,5 | 220,3 | 346 | 2 400 | 3 400 |
| 33118 | 3007718 | 90 | 150 | 45 | 3,2 | 256,3 | 403,3 | 2 500 | 3 300 |
| 33119 | 3007719 | 95 | 160 | 49 | 4,03 | 304,5 | 481,5 | 2 200 | 3 000 |
| 33120 | 3007720 | 100 | 165 | 52 | 4,45 | 320 | 527,5 | 2 100 | 2 800 |
| 33121 | 3007721 | 105 | 175 | 56 | 5,44 | 352,5 | 595,3 | 2 000 | 2 700 |
| 33122 | 3007722 | 110 | 180 | 56 | 5,63 | 364,7 | 620 | 1 800 | 2 600 |
| 33124 | 3007724 | 120 | 200 | 62 | 7,85 | 460 | 762,5 | 1 700 | 2 400 |



SINGLE ROW TAPERED ROLLER BEARINGS WITH LARGE CONE ANGLE

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE



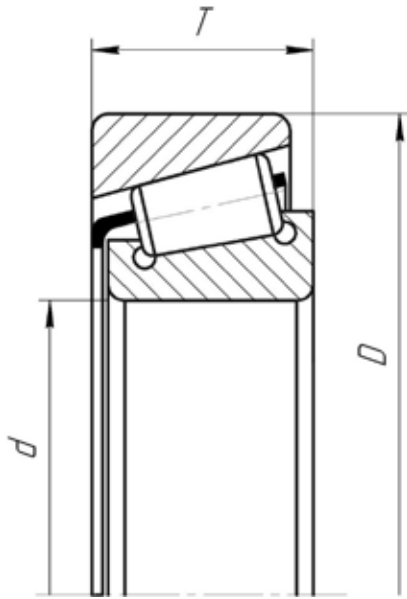
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|-------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 27305 | 27305 | 25 | 62 | 18,25 | 0,26 | * | * | * | * |
| 27306 | 27306 | 30 | 72 | 20,75 | 0,39 | * | * | * | * |
| 27307 | 27307 | 35 | 80 | 22,75 | 0,52 | * | * | * | * |
| 27308 | 27308 | 40 | 90 | 25,25 | 0,77 | * | * | * | * |
| 27309 | 27309 | 45 | 100 | 27,25 | 0,95 | * | * | * | * |
| 27310 | 27310 | 50 | 110 | 29,25 | 1,24 | * | * | * | * |
| 27311 | 27311 | 55 | 120 | 31,5 | 1,58 | * | * | * | * |
| 27312 | 27312 | 60 | 130 | 33,5 | 1,91 | * | * | * | * |
| 27313 | 27313 | 65 | 140 | 36 | 2,4 | * | * | * | * |
| 27314 | 27314 | 70 | 150 | 38 | 2,95 | * | * | * | * |
| 27315 | 27315 | 75 | 160 | 40 | 3,5 | * | * | * | * |
| 27316 | 27316 | 80 | 170 | 42,5 | 4 | * | * | * | * |
| 27317 | 27317 | 85 | 180 | 44,5 | 4,7 | * | * | * | * |
| 27318 | 27318 | 90 | 190 | 46,5 | 5,9 | * | * | * | * |
| 27319 | 27319 | 95 | 200 | 49,5 | 6 | * | * | * | * |
| 32306 B | 27606 | 30 | 72 | 28,75 | 0,6 | 79,5 | 89,1 | 5500 | 7200 |
| 32307 B | 27607 | 35 | 80 | 32,75 | 0,8 | 94,9 | 109,3 | 4600 | 6300 |
| 32310 B | 27610 | 50 | 110 | 42,25 | 1,96 | 168,5 | 220 | 3300 | 4400 |
| 32311 B | 27611 | 55 | 120 | 45,5 | 2,54 | 201,3 | 260,3 | 3100 | 4300 |
| 32312 B | 27612 | 60 | 130 | 48,5 | 2,8 | 224,3 | 299,3 | 2700 | 3600 |
| 32313 B | 27613 | 65 | 140 | 51 | 3,75 | 266,7 | 347 | 2600 | 3500 |
| 32314 B | 27614 | 70 | 150 | 54 | 4,56 | 298,3 | 394,3 | 2500 | 3400 |
| 32315 B | 27615 | 75 | 160 | 58 | 5,55 | 321,7 | 439,7 | 2200 | 3000 |
| 32316 B | 27616 | 80 | 170 | 61,5 | 5,7 | 389,3 | 515 | 2100 | 2900 |
| 32317 B | 27617 | 85 | 180 | 63,5 | 7,5 | 406,7 | 541,7 | 2000 | 2800 |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

SINGLE ROW TAPERED ROLLER BEARINGS WITH LARGE CONE ANGLE



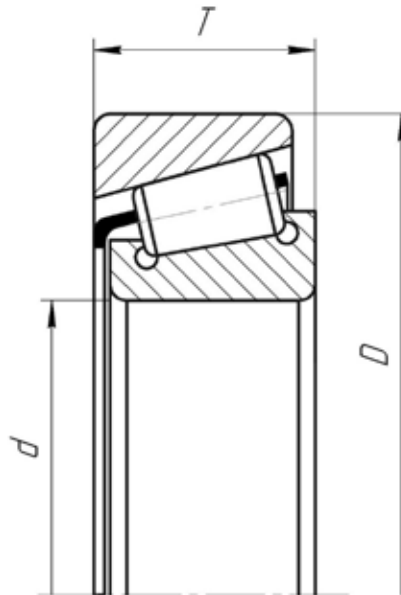
ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE O DUŻYM KĄCIE STOŻKA

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|---------|-------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 27705 | 27705 | 25 | 62 | 18,25 | 0,27 | * | * | * | * |
| 27706 | 27706 | 30 | 72 | 24,5 | 0,47 | * | * | * | * |
| 27709 | 27709 | 45 | 100 | 31,75 | 1,04 | * | * | * | * |
| 27711 | 27711 | 55 | 125 | 37 | 2,1 | * | * | * | * |
| 27714 | 27714 | 70 | 140 | 39 | 2,8 | * | * | * | * |
| 27715 | 27715 | 75 | 150 | 42 | 3,25 | * | * | * | * |
| 27719 | 27719 | 96,838 | 188,912 | 50,8 | 6 | * | * | * | * |
| 27907 | 27907 | 35 | 70 | 24,25 | 0,43 | * | * | * | * |
| 27908 | 27908 | 38,113 | 88,53 | 25,25 | 0,75 | * | * | * | * |
| 27911 | 27911 | 53,975 | 123,825 | 39,5 | 2,23 | * | * | * | * |
| 31303 | 1027303 | 17 | 47 | 15,25 | 0,13 | * | * | * | * |
| 31304 | 1027304 | 20 | 25 | 16,25 | 0,17 | 29,5 | 28,7 | 7 500 | 9 900 |
| 31305 | 1027305 | 25 | 62 | 18,25 | 0,27 | 38,2 | 40,9 | 6 300 | 8 300 |
| 31306 | 1027306 | 30 | 72 | 20,75 | 0,4 | 48,7 | 53,5 | 5 200 | 7 000 |
| 31307 | 1027307 | 35 | 80 | 22,75 | 0,53 | 62,5 | 68,8 | 4 600 | 6 200 |
| 31308 | 1027308 | 40 | 90 | 25,25 | 0,75 | 82,1 | 87,7 | 3 900 | 5 400 |
| 31309 | 1027309 | 45 | 100 | 27,25 | 1 | 101,6 | 105 | 3 600 | 4 800 |
| 31310 | 1027310 | 50 | 110 | 29,25 | 1,27 | 116,3 | 121,3 | 3 200 | 4 300 |
| 31311 | 1027311 | 55 | 120 | 31,5 | 1,62 | 128 | 142,3 | 2 900 | 3 900 |
| 31312 | 1027312 | 60 | 130 | 33,5 | 2,01 | 149 | 166,7 | 2 700 | 3 700 |
| 31313 | 1027313 | 65 | 140 | 36 | 2,47 | 168,8 | 191,7 | 2 600 | 3 500 |
| 31314 | 1027314 | 70 | 150 | 38 | 3,01 | 186 | 220 | 2 500 | 3 200 |
| 31315 | 1027315 | 75 | 160 | 40 | 3,54 | 210 | 247,3 | 2 100 | 2 900 |
| 31316 | 1027316 | 80 | 170 | 42,5 | 4,2 | 228 | 272 | 2 000 | 2 700 |
| 31317 | 1027317 | 85 | 180 | 44,5 | 5,1 | 245,3 | 290,3 | 1 900 | 2 500 |



SINGLE ROW TAPERED ROLLER BEARINGS WITH LARGE CONE ANGLE

ŁOŻYSKA STOŻKOWE JEDNORZĘDOWE O DUŻYM KĄCIE STOŻKA



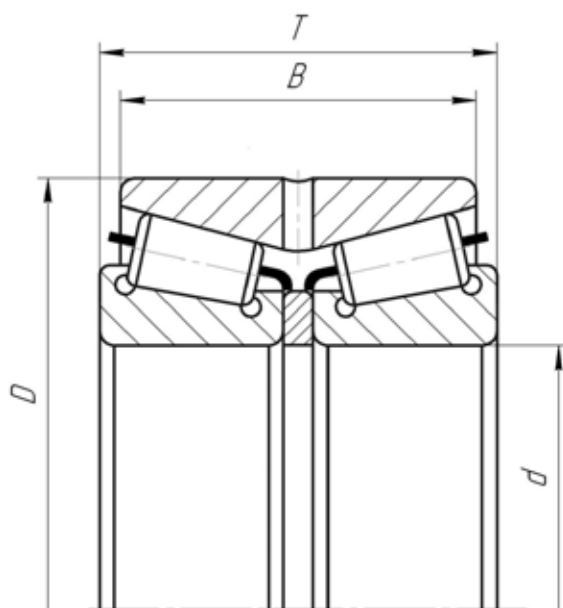
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 31318 | 1027318 | 90 | 190 | 46,5 | 5,9 | 268 | 318,3 | 1 800 | 2 400 |
| 31319 | 1027319 | 95 | 200 | 49,5 | 6,95 | 295 | 357,3 | 1 700 | 2 300 |
| 31320 | 1027320 | 100 | 215 | 56,5 | 9,07 | 386 | 474 | 1 500 | 2 100 |
| 31322 | 1027322 | 110 | 240 | 63 | 12,23 | 461,3 | 591 | 1 400 | 1 900 |
| 31324 | 1027324 | 120 | 260 | 67,5 | 15,4 | 547 | 708,3 | 1 300 | 1 800 |
| 31328 | 1027328 | 140 | 300 | 77 | 23 | 694,3 | 919,3 | 1 100 | 1 500 |
| 31336 | 1027336 | 180 | 380 | 97 | 46 | * | * | * | * |
| 31340 | 1027340 | 200 | 420 | 107 | 63 | * | * | * | * |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

DOUBLE ROW TAPERED ROLLER BEARINGS



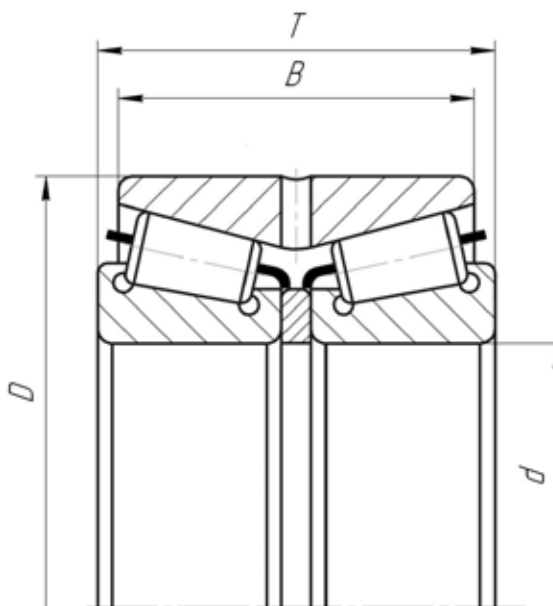
ŁOŻYSKA STOŻKOWE DWURZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|--------|-----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 97168 | 97168 | 340 | 520 | 180 | 135 | 118 | * | * | * | * |
| 97172 | 97172 | 360 | 540 | 185 | 140 | 132 | * | * | * | * |
| 97176 | 97176 | 380 | 560 | 189 | 141 | 169 | * | * | * | * |
| 97180 | 97180 | 400 | 600 | 206 | 150 | 188 | * | * | * | * |
| 97184 | 97184 | 420 | 620 | 206 | 150 | 187 | * | * | * | * |
| 97188 | 97188 | 440 | 650 | 212 | 152 | 213 | * | * | * | * |
| 97192 | 97192 | 460 | 680 | 230 | 175 | 248 | * | * | * | * |
| 97506 | 97506 | 30 | 62 | 49,625 | 41 | 1 | * | * | * | * |
| 97515 | 97515 | 75 | 130 | 75 | 62 | 4 | * | * | * | * |
| 97516 | 97516 | 80 | 140 | 80 | 65 | 5 | * | * | * | * |
| 97517 | 97517 | 85 | 150 | 86 | 68 | 6 | * | * | * | * |
| 97518 | 97518 | 90 | 160 | 96 | 78 | 7 | * | * | * | * |
| 97519 | 97519 | 95 | 170 | 108 | 90 | 9 | * | * | * | * |
| 97520 | 97520 | 100 | 180 | 112 | 92 | 12 | * | * | * | * |
| 97521 | 97521 | 105 | 190 | 118 | 96 | 14 | * | * | * | * |
| 97522 | 97522 | 110 | 200 | 126 | 105 | 16 | * | * | * | * |
| 97524 | 97524 | 120 | 215 | 136 | 112 | 20 | * | * | * | * |
| 97526 | 97526 | 130 | 230 | 150 | 120 | 25 | * | * | * | * |
| 97528 | 97528 | 140 | 250 | 160 | 131 | 33 | * | * | * | * |
| 97530 | 97530 | 150 | 270 | 172 | 138 | 39 | * | * | * | * |
| 97720 | 97720 | 100 | 190 | 125 | 100 | 15 | * | * | * | * |
| 97726 | 97726 | 130 | 235 | 145 | 115 | 25 | * | * | * | * |
| 97727 | 97727 | 135 | 220 | 107 | 81 | 14 | * | * | * | * |
| 97732 | 97732 | 160 | 270 | 140 | 110 | 30 | * | * | * | * |
| 97741 | 97741 | 205 | 320 | 150 | 110 | 41 | * | * | * | * |
| 97746 | 97746 | 230 | 355 | 145 | 110 | 45 | * | * | * | * |



DOUBLE ROW TAPERED ROLLER BEARINGS

ŁOŻYSKA STOŻKOWE DWURZĘDOWE



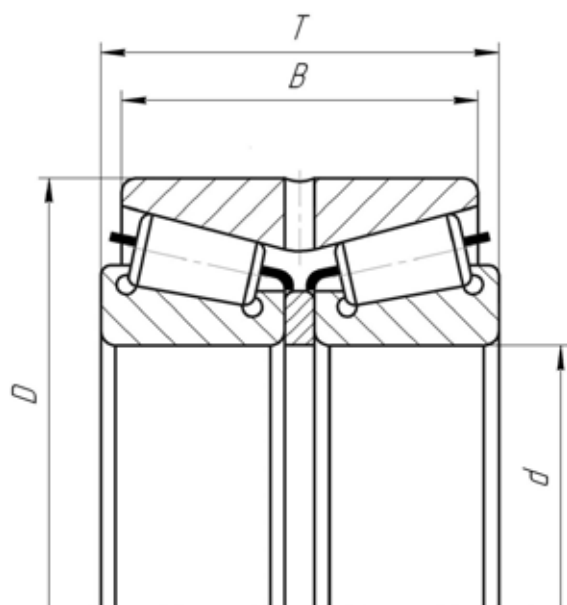
| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 97752 | 97752 | 260 | 430 | 180 | 130 | 94 | * | * | * | * |
| 97760 | 97760 | 300 | 500 | 179 | 125 | 132 | * | * | * | * |
| 97772 | 97772 | 360 | 530 | 154 | 110 | 104 | * | * | * | * |
| 97852 | 97852 | 260 | 400 | 149 | 110 | 59 | * | * | * | * |
| 97860 | 97860 | 300 | 440 | 139 | 100 | 61 | * | * | * | * |
| 2097132 | 2097132 | 160 | 240 | 115 | 91 | 17 | * | * | * | * |
| 2097134 | 2097134 | 170 | 260 | 125 | 102 | 22 | * | * | * | * |
| 2097136 | 2097136 | 180 | 280 | 134 | 108 | 28 | * | * | * | * |
| 2097138 | 2097138 | 190 | 290 | 139 | 114 | 32 | * | * | * | * |
| 2097140 | 2097140 | 200 | 310 | 152 | 123 | 39 | * | * | * | * |
| 2097144 | 2097144 | 220 | 340 | 165 | 130 | 47 | * | * | * | * |
| 2097148 | 2097148 | 240 | 360 | 165 | 130 | 53 | * | * | * | * |
| 2097152 | 2097152 | 260 | 400 | 186 | 146 | 76 | * | * | * | * |
| 2097156 | 2097156 | 280 | 420 | 189 | 154 | 83 | * | * | * | * |
| 2097722 | 2097722 | 110 | 180 | 100 | 84 | 9 | * | * | * | * |
| 2097724 | 2097724 | 120 | 200 | 110 | 90 | 12 | * | * | * | * |
| 2097726 | 2097726 | 130 | 210 | 110 | 90 | 14 | * | * | * | * |
| 2097728 | 2097728 | 140 | 225 | 120 | 100 | 16 | * | * | * | * |
| 2097730 | 2097730 | 150 | 250 | 138 | 112 | 26 | * | * | * | * |
| 2097732 | 2097732 | 160 | 270 | 150 | 120 | 32 | * | * | * | * |
| 2097734 | 2097734 | 170 | 280 | 150 | 120 | 36 | * | * | * | * |
| 2097736 | 2097736 | 180 | 300 | 164 | 134 | 43 | * | * | * | * |
| 2097738 | 2097738 | 190 | 320 | 172 | 134 | 51 | * | * | * | * |
| 2097740 | 2097740 | 200 | 340 | 184 | 150 | 64 | * | * | * | * |
| 2097744 | 2097744 | 220 | 370 | 200 | 166 | 78 | * | * | * | * |



ŁOŻYSKA STOŻKOWE

TAPERED ROLLER BEARINGS

DOUBLE ROW TAPERED ROLLER BEARINGS



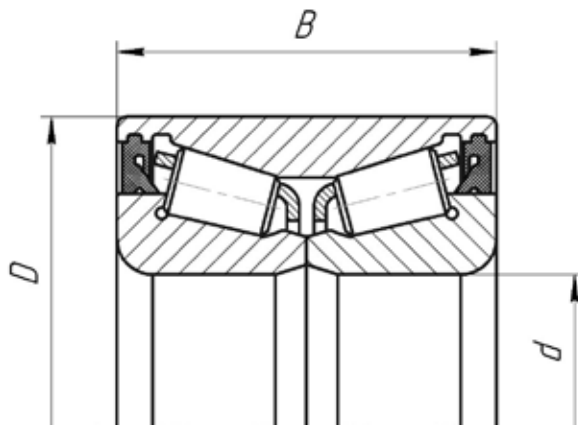
ŁOŻYSKA STOŻKOWE DWURZĘDOWE

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|-----|-----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | T | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 2097748 | 2097748 | 240 | 400 | 210 | 168 | 98 | * | * | * | * |
| 2097752 | 2097752 | 260 | 440 | 225 | 180 | 124 | * | * | * | * |
| 2097926 | 2097926 | 130 | 180 | 75 | 62 | 5 | * | * | * | * |
| 2097928 | 2097928 | 140 | 190 | 75 | 62 | 7 | * | * | * | * |
| 2097930 | 2097930 | 150 | 210 | 85 | 70 | 9 | * | * | * | * |
| 2097932 | 2097932 | 160 | 220 | 88 | 73 | 8 | * | * | * | * |
| 2097934 | 2097934 | 170 | 230 | 88 | 73 | 8 | * | * | * | * |
| 2097936 | 2097936 | 180 | 250 | 95 | 76 | 13 | * | * | * | * |
| 2097938 | 2097938 | 190 | 260 | 95 | 76 | 13 | * | * | * | * |
| 2097940 | 2097940 | 200 | 280 | 118 | 97 | 18 | * | * | * | * |
| 2097944 | 2097944 | 220 | 300 | 110 | 88 | 21 | * | * | * | * |
| 2097948 | 2097948 | 240 | 320 | 110 | 90 | 22 | * | * | * | * |
| 2097952 | 2097952 | 260 | 360 | 134 | 109 | 39 | * | * | * | * |
| 2097956 | 2097956 | 280 | 380 | 140 | 114 | 44 | * | * | * | * |
| 2097960 | 2097960 | 300 | 420 | 160 | 128 | 61 | * | * | * | * |
| 2097964 | 2097964 | 320 | 440 | 160 | 128 | 66 | * | * | * | * |
| 2097968 | 2097968 | 340 | 460 | 160 | 128 | 71 | * | * | * | * |
| 2097972 | 2097972 | 360 | 480 | 160 | 128 | 75 | * | * | * | * |
| 57707 | 57707 | 35 | 80 | 57 | - | 1 | * | * | * | * |



DOUBLE ROW TAPERED ROLLER BEARINGS WITH SEALS

ŁOŻYSKA STOŻKOWE DWURZĘDOWE Z USZCZELNIENIEM



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|--------|-------------------------------|----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 537906 | 537906 | 30 | 60 | 37 | 0,51 | * | * | * | * |
| 537907 | 537907 | 34 | 64 | 37 | 0,556 | * | * | * | * |
| 537908 | 537908 | 37 | 72 | 37 | 0,718 | * | * | * | * |
| 537909 | 537909 | 49 | 84 | 43 | 0,97 | * | * | * | * |



Spherical roller bearings

Spherical roller bearings are manufactured as one standard type. The catalogue table specifies the basic designations of bearings that comply with GOST and/or ISO international standards. A system of suffixes shown below is used to name different type variants. You may contact our services to determine the availability of specific types, obtain additional product parameters that were not included in the catalogue, and discuss your specific requirements for bearing design with our specialists.

Łożyska baryłkowe są dostępne w wykonaniu standardowym. W tabeli katalogowej podano podstawowe oznaczenia łożysk zgodnie z międzynarodowymi normami ISO i/lub GOST. Poniższy system przyrostków jest stosowany do określania różnych wariantów konstrukcyjnych. Możecie Państwo zwrócić się do naszego serwisu w celu wyjaśnienia dostępnych wykonań, uzyskania dodatkowych parametrów dla produktów nie ujętych w katalogu, jak również w celu omówienia z naszymi specjalistami technicznymi Państwa specjalnych wymagań dotyczących konstrukcji łożysk.

DESIGNATION FORMULA

WZÓR OZNACZENIA

| | | | | | |
|-----------------------|---|---|----------------------------------|---|--------------------------------------|
| Basic designation | Internal design (without suffix, CA, CC) | External design (without suffix, K, K30) | Cage (without suffix, MA, MB) | Accuracy; internal clearance (without suffix, P6, C2, C3, C4) | Lubrication (without suffix, W33) |
| Oznaczenie podstawowe | Budowa wewnętrzna (bez przedrostka, CA, CC) | Budowa zewnętrzna (bez przedrostka, K, K30) | Koszyk (bez przedrostka, MA, MB) | Klasa dokładności; wewnętrzny luz promieniowy (bez przedrostka, P6, C2, C3, C4) | Smarowanie (bez przedrostka, W33) |

Łożyska baryłkowe



SUFFIX DESIGNATIONS

OZNACZENIA PRZEDROSTKÓW

| | | |
|------------|--|---|
| CA | retaining flanges on the inner ring, guide ring centered on the inner ring, machined brass cage | kołnierze zabezpieczające na pierścieniu wewnętrznym i pierścień prowadzący centrowany na pierścieniu wewnętrznym, jednoczęściowy koszyk z mosiądzu obrabianego maszynowo |
| CC | ribless inner ring, guide ring centered on the inner ring, two stamped steel cages | pierścień wewnętrzny bez kołnierzy i pierścień prowadzący centrowany na pierścieniu wewnętrznym, dwa tłoczone stalowe koszyki |
| K | tapered bore, taper 1:12 | z otworem stożkowym, zbieżność 1:12 |
| K30 | tapered bore, taper 1:30 | z otworem stożkowym, zbieżność 1:30 |
| MA | ribless inner ring, guide ring centered on the outer ring, two machined brass cages | dwa obrabiane maszynowo koszyki mosiężne, pierścień wewnętrzny bez kołnierzy i pierścień prowadzący centrowany na pierścieniu zewnętrznym |
| MB | ribless inner ring, guide ring centered on the inner ring, two machined brass cages | dwa obrabiane maszynowo koszyki mosiężne, pierścień wewnętrzny bez kołnierzy i pierścień prowadzący centrowany na pierścieniu wewnętrznym |
| P6 | dimensional and running accuracy to ISO tolerance class | dokładność wymiarowa i obrotowa odpowiada klasie ISO P6 |
| C2 | radial internal clearance smaller than normal | promieniowy luz wewnętrzny mniejszy od normalnego |
| C3 | radial internal clearance greater than normal | promieniowy luz wewnętrzny większy od normalnego |
| C4 | radial internal clearance greater than C3 | wewnętrzny luz promieniowy większy niż C3 |
| W33 | annular groove and three lubrication holes in the outer ring | rowek i trzy otwory smarowe na pierścieniu zewnętrznym |

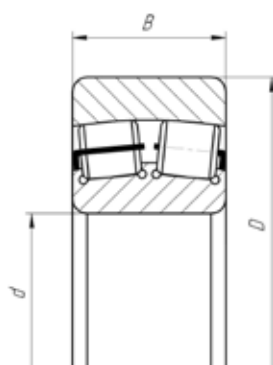


ŁOŻYSKA BARYŁKOWE

SPHERICAL ROLLER BEARINGS

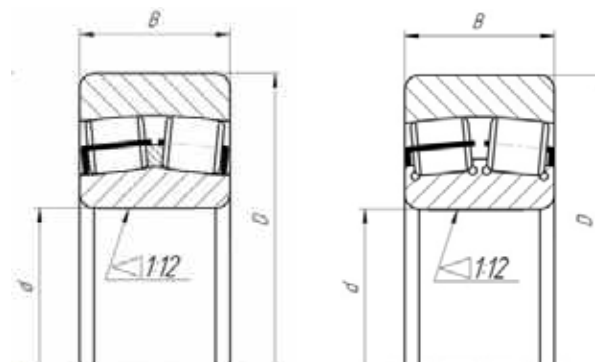
SPHERICAL ROLLER BEARINGS WITH RIBS ON THE INNER RING

Internal design variations: CA suffix



SPHERICAL ROLLER BEARINGS ON THE INNER RING WITH TAPERED BORE, TAPER 1:12

External design: K suffix



ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z KOŁNIERZAMI NA PIERŚCIENIU WEWNĘTRZNYM
WYKONANIE WEWNĘTRZNE: Z PRZEDROSTKIEM CA

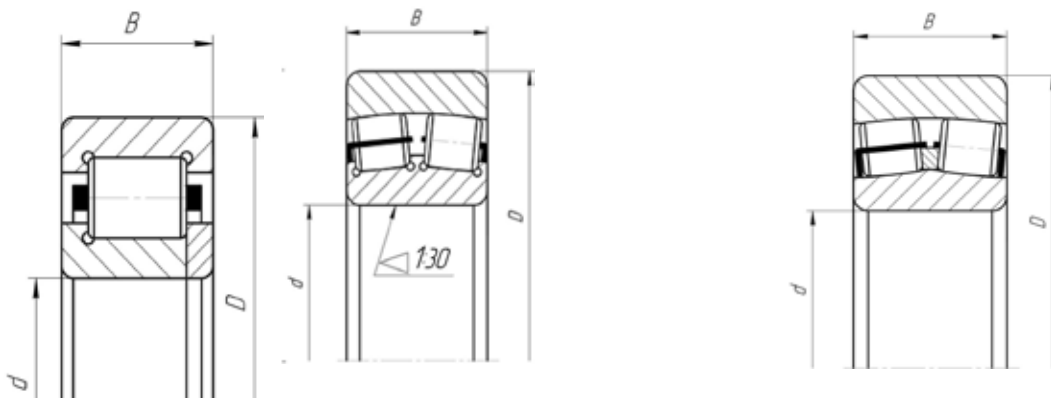
ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, BEZ KOŁNIERZY NA PIERŚCIENIU WEWNĘTRZNYM
ZBIĘŻNOŚĆ 1:12

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 22205 | 3505 | 25 | 52 | 18 | 0,26 | 51,8 | 46,8 | 8 500 | 11 000 |
| | 53505 | | | | | | | | |
| 22206 | 3506 | 30 | 62 | 20 | 0,29 | 68 | 63,6 | 7 300 | 9 400 |
| | 53506 | | | | | | | | |
| 22207 | 3507 | 35 | 72 | 23 | 0,45 | 90,6 | 90,2 | 6 200 | 7 900 |
| | 53507 | | | | | | | | |
| 22208 | 3508 | 40 | 80 | 23 | 0,58 | 101,5 | 98,2 | 5 700 | 7 300 |
| | 53508 | | | | | | | | |
| 22209 | 3509 | 45 | 85 | 23 | 0,6 | 107,3 | 107 | 5 200 | 6 600 |
| | 53509 | | | | | | | | |
| 22210 | 3510 | 50 | 90 | 23 | 0,65 | 113,3 | 117,3 | 4 900 | 6 200 |
| | 53510 | | | | | | | | |
| 22211 | 3511 | 55 | 100 | 25 | 0,88 | 136,3 | 140,7 | 4 400 | 5 500 |
| | 53511 | | | | | | | | |
| 22212 | 3512 | 60 | 110 | 28 | 1,2 | 167,3 | 176,7 | 3 900 | 5 000 |
| | 53512 | | | | | | | | |
| 22213 | 3513 | 65 | 120 | 31 | 1,59 | 202,7 | 221,3 | 3 700 | 4 700 |
| | 53513 | | | | | | | | |
| 22214 | 3514 | 70 | 125 | 31 | 1,67 | 213,3 | 235,7 | 3 500 | 4 400 |
| | 53514 | | | | | | | | |
| 22215 | 3515 | 75 | 130 | 31 | 1,76 | 220 | 248 | 3 300 | 4 200 |
| | 53515 | | | | | | | | |
| 22216 | 3516 | 80 | 140 | 33 | 2,2 | 249 | 284 | 3 100 | 3 900 |
| | 53516 | | | | | | | | |
| 22217 | 3517 | 85 | 150 | 36 | 2,8 | 293 | 330,7 | 2 900 | 3 700 |
| | 53517 | | | | | | | | |
| 22218 | 3518 | 90 | 160 | 40 | 3,55 | 343,3 | 393 | 2 600 | 3 400 |
| | 53518 | | | | | | | | |



SPHERICAL ROLLER BEARINGS ON THE INNER RING
WITH TAPERED BORE, TAPER 1:30
External design: K30 suffix

SPHERICAL ROLLER BEARINGS WITH THE RIBLESS
INNER RING
Internal design variations: CC; MA; MB suffixes



ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM
STOŻKOWYM NA PIERŚCIENIU
WEWNĘTRZNYM,
ZBIĘŻNOŚĆ 1:30

ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z PIERŚCIENIEM
WEWNĘTRZNYM BEZ KOŁNIERZY

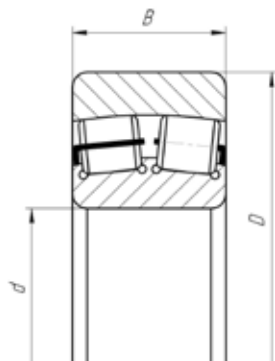
WYKONANIE WEWNĘTRZNE: CA, MA, MB

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 22219 | 3519 | 95 | 170 | 43 | 4,31 | 385,3 | 443,7 | 2 400 | 3 200 |
| | 53519 | | | | | | | | |
| 22220 | 3520 | 100 | 180 | 46 | 5,2 | 430,3 | 498,3 | 2 300 | 3 000 |
| | 53520 | | | | | | | | |
| 22222 | 3522 | 110 | 200 | 53 | 7,5 | 556,7 | 645,3 | 2 100 | 2 800 |
| | 53522 | | | | | | | | |
| 22224 | 3524 | 120 | 215 | 58 | 9,3 | 630,7 | 764,3 | 1 900 | 2 500 |
| | 53524 | | | | | | | | |
| 22226 | 3526 | 130 | 230 | 64 | 11,7 | 737 | 925,3 | 1 800 | 2 400 |
| | 53526 | | | | | | | | |
| 22228 | 3528 | 140 | 250 | 68 | 15 | 799,7 | 996,7 | 1 700 | 2 200 |
| | 53528 | | | | | | | | |
| 22230 | 3530 | 150 | 270 | 73 | 18,5 | 939,7 | 1186,7 | 1 500 | 2 000 |
| | 53530 | | | | | | | | |
| 22232 | 3532 | 160 | 290 | 80 | 23,4 | 1080 | 1373,3 | 1 400 | 1 900 |
| | 53530 | | | | | | | | |
| 22234 | 3534 | 170 | 310 | 86 | 29 | 1213,3 | 1556,7 | 1 300 | 1 700 |
| | 53532 | | | | | | | | |
| 22236 | 3536 | 180 | 320 | 86 | 30,5 | 1263,3 | 1640 | 1 200 | 1 600 |
| | 53536 | | | | | | | | |
| 22238 | 3538 | 190 | 340 | 92 | 37,4 | 1403,3 | 1823,3 | 1 100 | 1 500 |
| | 53538 | | | | | | | | |
| 22240 | 3540 | 200 | 360 | 98 | 45 | 1580 | 2056,7 | 1 000 | 1 400 |
| | 53540 | | | | | | | | |
| 22244 | 3544 | 220 | 400 | 108 | 63 | 1920 | 2560 | 950 | 1 300 |
| | 53544 | | | | | | | | |
| 22248 | 3548 | 240 | 440 | 120 | 85 | 1806,7 | 2673,3 | 800 | 1 000 |
| | 53548 | | | | | | | | |



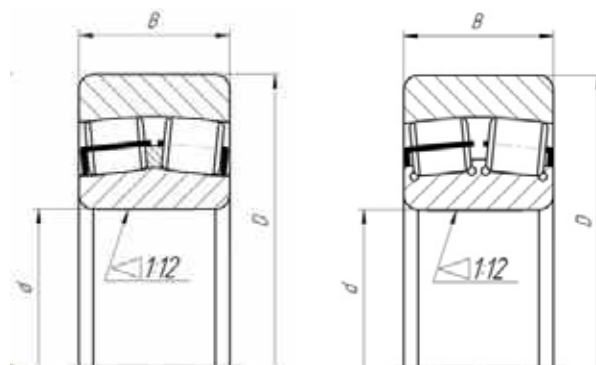
SPHERICAL ROLLER BEARINGS WITH RIBS ON THE INNER RING

Internal design variations: CA suffix



SPHERICAL ROLLER BEARINGS ON THE INNER RING WITH TAPERED BORE, TAPER 1:12

External design: K suffix



**ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z KOŁNIERZAMI NA PIERŚCIENIU WEWNĘTRZNYM
WYKONANIE WEWNĘTRZNE: Z PRZEDOSTKIEM CA**

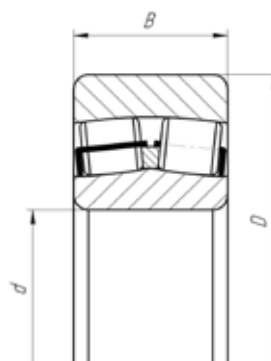
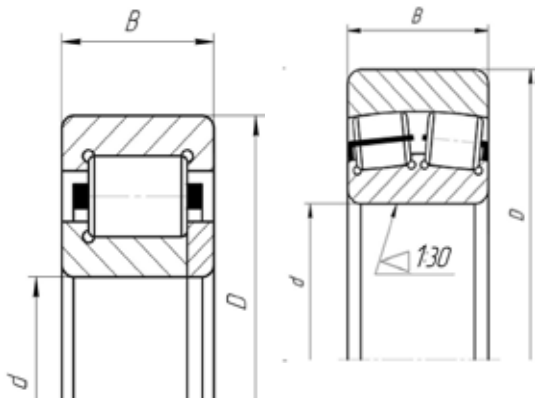
**ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM STOŻKOWYM NA PIERŚCIENIU WEWNĘTRZNYM,
ZBIĘŻNOŚĆ 1:12**

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 22252 | 3552 | 260 | 480 | 130 | 110 | 2493,3 | 3516,7 | 750 | 950 |
| | 53552 | | | | | | | | |
| 22256 | 3556 | 280 | 500 | 130 | 114 | 2560 | 3750 | 700 | 900 |
| | 53556 | | | | | | | | |
| 22306 | 3606 | 30 | 72 | 27 | 0,57 | * | * | * | * |
| | 53606 | | | | | | | | |
| 22307 | 3607 | 35 | 80 | 35 | 0,75 | 128 | 122 | 5 200 | 6 800 |
| | 53607 | | | | | | | | |
| 22308 | 3608 | 40 | 90 | 33 | 1,03 | 155 | 150,7 | 4 100 | 5 200 |
| | 53608 | | | | | | | | |
| 22309 | 3609 | 45 | 100 | 36 | 1,4 | 187,3 | 188 | 3 700 | 4 600 |
| | 53609 | | | | | | | | |
| 22310 | 3610 | 50 | 110 | 40 | 1,9 | 225,7 | 231,3 | 3 300 | 4 200 |
| | 53610 | | | | | | | | |
| 22311 | 3611 | 55 | 120 | 43 | 2,4 | 268,3 | 277,7 | 3 000 | 3 900 |
| | 53611 | | | | | | | | |
| 22312 | 3612 | 60 | 130 | 46 | 3,1 | 312,3 | 323 | 2 800 | 3 600 |
| | 53612 | | | | | | | | |
| 22313 | 3613 | 65 | 140 | 48 | 3,7 | 340 | 351,3 | 2 600 | 3 400 |
| | 53613 | | | | | | | | |
| 22314 | 3614 | 70 | 150 | 51 | 4,35 | 392 | 409,3 | 2 400 | 3 100 |
| | 53614 | | | | | | | | |
| 22315 | 3615 | 75 | 160 | 55 | 5,4 | 447,7 | 477 | 2 300 | 3 000 |
| | 53615 | | | | | | | | |
| 22316 | 3616 | 80 | 170 | 58 | 6,6 | 497,3 | 537,7 | 2 200 | 2 800 |
| | 53616 | | | | | | | | |
| 22317 | 3617 | 85 | 180 | 60 | 7,4 | 550 | 609 | 2 000 | 2 600 |
| | 53617 | | | | | | | | |



SPHERICAL ROLLER BEARINGS ON THE INNER RING
WITH TAPERED BORE, TAPER 1:30
External design: K30 suffix

SPHERICAL ROLLER BEARINGS WITH THE RIBLESS
INNER RING
Internal design variations: CC; MA; MB suffixes



ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM
STOŻKOWYM NA PIERŚCIENIU WEWNĘTRZNYM,
ZBIĘŻNOŚĆ 1:30

ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z PIERŚCIENIEM
WEWNĘTRZNYM BEZ KOŁNIERZY

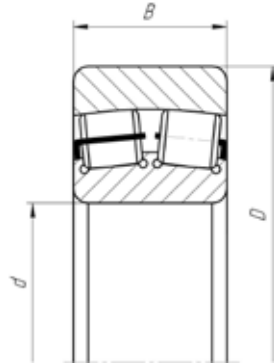
WYKONANIE WEWNĘTRZNE: CA, MA, MB

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|-------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA C ₀ | IN GREASE W SMARZE | IN OIL W OLEJU |
| 22318 | 3618 | 90 | 190 | 64 | 9,3 | 612 | 673,3 | 1 900 | 2 400 |
| | 53618 | | | | | | | | |
| 22319 | 3619 | 95 | 200 | 67 | 10,3 | 677 | 753,3 | 1 800 | 2 300 |
| | 53619 | | | | | | | | |
| 22320 | 3620 | 100 | 215 | 73 | 13 | 784 | 878,7 | 1 700 | 2 200 |
| | 53620 | | | | | | | | |
| 22322 | 3622 | 110 | 240 | 80 | 18,2 | 915,3 | 1030,7 | 1 500 | 1 900 |
| | 53622 | | | | | | | | |
| 22324 | 3624 | 120 | 260 | 86 | 24 | 1031,7 | 1193,3 | 1 400 | 1 800 |
| | 53624 | | | | | | | | |
| 22326 | 3626 | 130 | 280 | 93 | 28,6 | 1186,7 | 1366,7 | 1 300 | 1 700 |
| | 53626 | | | | | | | | |
| 22328 | 3628 | 140 | 300 | 102 | 36,2 | 1360 | 1613,3 | 1 200 | 1 500 |
| | 53626 | | | | | | | | |
| 22330 | 3630 | 150 | 320 | 108 | 43,6 | 1546,7 | 1833,3 | 1 100 | 1 400 |
| | 53630 | | | | | | | | |
| 22332 | 3632 | 160 | 340 | 114 | 51,9 | 1713,3 | 2086,7 | 1 000 | 1 300 |
| | 53632 | | | | | | | | |
| 22334 | 3634 | 170 | 360 | 120 | 62 | 1880 | 2356,7 | 950 | 1 200 |
| | 53634 | | | | | | | | |
| 22336 | 3636 | 180 | 380 | 126 | 71,4 | 1976,7 | 2390 | 850 | 1 100 |
| | 53636 | | | | | | | | |
| 22338 | 3638 | 190 | 400 | 132 | 84,1 | 2030 | 2703,3 | 800 | 1 050 |
| | 53638 | | | | | | | | |
| 22340 | 3640 | 200 | 420 | 138 | 95,4 | 2163,3 | 2886,7 | 750 | 1 000 |
| | 53640 | | | | | | | | |
| 22344 | 3644 | 220 | 460 | 145 | 128 | 2490 | 3390 | 700 | 950 |
| | 53644 | | | | | | | | |



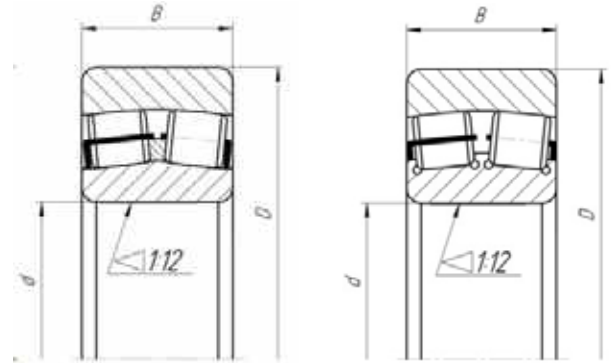
SPHERICAL ROLLER BEARINGS WITH RIBS ON THE INNER RING

Internal design variations: CA suffix



SPHERICAL ROLLER BEARINGS ON THE INNER RING WITH TAPERED BORE, TAPER 1:12

External design: K suffix



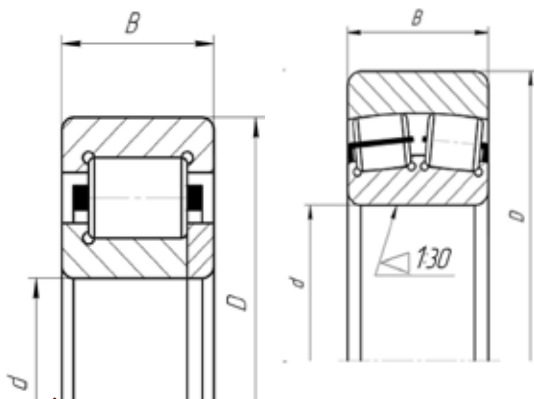
**ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z KOŁNIERZAMI NA PIERŚCIENIU WEWNĘTRZNYM
WYKONANIE WEWNĘTRZNE: Z PRZEDROSTKIEM CA**

**ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM STOŻKOWYM NA PIERŚCIENIU WEWNĘTRZNYM,
ZBIĘŻNOŚĆ 1:12**

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 22352 | 3652 | 260 | 540 | 165 | 196 | 3350 | 4656,7 | 640 | 800 |
| | 53652 | | | | | | | | |
| 22356 | 3656 | 280 | 580 | 175 | 239 | 3756,3 | 5240,7 | 600 | 750 |
| | 53656 | | | | | | | | |
| 23017 | 3003117 | 85 | 130 | 34 | 2 | * | * | * | * |
| | 3053117 | | | | | | | | |
| 23018 | 3003118 | 90 | 140 | 37 | 2,2 | * | * | * | * |
| | 3053118 | | | | | | | | |
| 23020 | 3003120 | 100 | 150 | 37 | 2,35 | * | * | * | * |
| | 3053120 | | | | | | | | |
| 23022 | 3003122 | 110 | 170 | 45 | 3,87 | 356,3 | 491 | 2 200 | 3 000 |
| | 3053122 | | | | | | | | |
| 23024 | 3003124 | 120 | 180 | 46 | 4,5 | 386,3 | 553 | 2 100 | 2 800 |
| | 3053124 | | | | | | | | |
| 23026 | 3003126 | 130 | 200 | 52 | 6,37 | 485,3 | 680,7 | 1 900 | 2 600 |
| | 3053126 | | | | | | | | |
| 23028 | 3003128 | 140 | 210 | 53 | 6,87 | 514,7 | 748 | 1 800 | 2 400 |
| | 3053128 | | | | | | | | |
| 23030 | 3003130 | 150 | 225 | 56 | 8,25 | 551,7 | 841,3 | 1 700 | 2 200 |
| | 3053130 | | | | | | | | |
| 23032 | 3003132 | 160 | 240 | 60 | 10,3 | 647,3 | 963,3 | 1 700 | 2 200 |
| | 3053132 | | | | | | | | |
| 23034 | 3003134 | 170 | 260 | 67 | 13,4 | 783 | 1163,3 | 1 600 | 2 000 |
| | 3053134 | | | | | | | | |
| 23036 | 3003136 | 180 | 280 | 74 | 17,6 | 923,3 | 1370 | 1 400 | 1 800 |
| | 3053136 | | | | | | | | |
| 23038 | 3003138 | 190 | 290 | 75 | 18,6 | 969 | 1473,3 | 1 300 | 1 700 |
| | 3053138 | | | | | | | | |

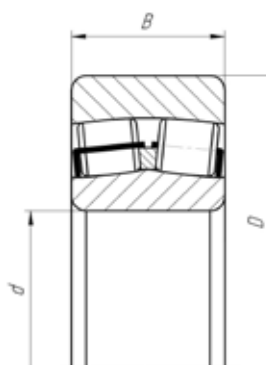


SPHERICAL ROLLER BEARINGS ON THE INNER RING
WITH TAPERED BORE, TAPER 1:30
External design: K30 suffix



ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM
STOŻKOWYM NA PIERŚCIENIU WEWNĘTRZNYM,
ZBIĘŻNOŚĆ 1:30

SPHERICAL ROLLER BEARINGS WITH THE RIBLESS
INNER RING
Internal design variations: CC; MA; MB suffixes



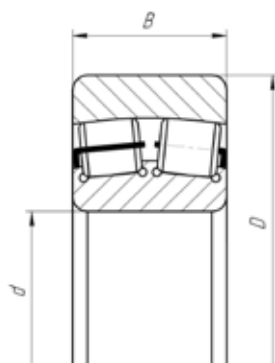
ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z PIERŚCIENIEM
WEWNĘTRZNYM BEZ KOŁNIERZY
WYKONANIE WEWNĘTRZNE: CA, MA, MB

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|------|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 23040 | 3003140 | 200 | 310 | 82 | 23 | 1123,3 | 1683,3 | 1 200 | 1 600 |
| | 3053140 | | | | | | | | |
| 23044 | 3003144 | 220 | 340 | 90 | 31 | 1296,7 | 2020 | 1 100 | 1 500 |
| | 3053144 | | | | | | | | |
| 23048 | 3003148 | 240 | 360 | 92 | 35,5 | 1360 | 2146,7 | 1 000 | 1 300 |
| | 3053148 | | | | | | | | |
| 23052 | 3003152 | 260 | 400 | 104 | 49,9 | 1580 | 2590 | 900 | 1 200 |
| | 3053152 | | | | | | | | |
| 23056 | 3003156 | 280 | 420 | 106 | 63 | 1656,7 | 2920 | 850 | 1 100 |
| | 3053156 | | | | | | | | |
| 23218 | 3003218 | 90 | 160 | 52,4 | 4,7 | 402,3 | 491,7 | 2 000 | 2 700 |
| | 3053218 | | | | | | | | |
| 23220 | 3003220 | 100 | 180 | 60,3 | 6,9 | 515 | 642,7 | 1 800 | 2 400 |
| | 3053220 | | | | | | | | |
| 23222 | 3003222 | 110 | 200 | 69,8 | 9,9 | 653,7 | 833,7 | 1 600 | 2 100 |
| | 3053222 | | | | | | | | |
| 23224 | 3003224 | 120 | 215 | 76 | 12,3 | 752 | 982,7 | 1 500 | 2 000 |
| | 3053224 | | | | | | | | |
| 23226 | 3003226 | 130 | 230 | 80 | 14,6 | 840 | 1123,3 | 1 400 | 1 800 |
| | 3053226 | | | | | | | | |
| 23228 | 3003228 | 140 | 250 | 88 | 19,2 | 996,7 | 1330 | 1 300 | 1 700 |
| | 3053228 | | | | | | | | |
| 23230 | 3003230 | 150 | 270 | 96 | 24,5 | 1166,7 | 1566,7 | 1 200 | 1 600 |
| | 3053230 | | | | | | | | |
| 23232 | 3003232 | 160 | 290 | 104 | 31 | 1316,7 | 1796,7 | 1 100 | 1 500 |
| | 3053232 | | | | | | | | |
| 23120 | 3003720 | 100 | 165 | 52 | 5,83 | 407,7 | 550,7 | 2 100 | 2 800 |
| | 3053720 | | | | | | | | |



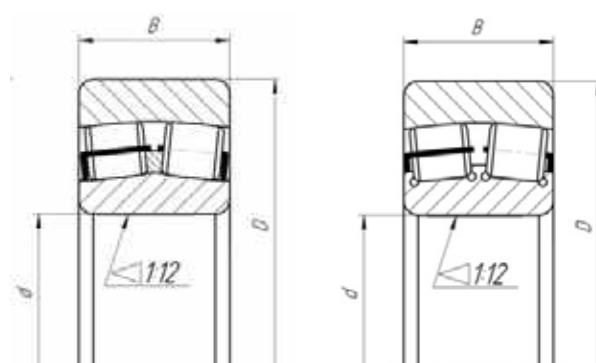
SPHERICAL ROLLER BEARINGS WITH RIBS ON THE INNER RING

Internal design variations: CA suffix



SPHERICAL ROLLER BEARINGS ON THE INNER RING WITH TAPERED BORE, TAPER 1:12

External design: K suffix



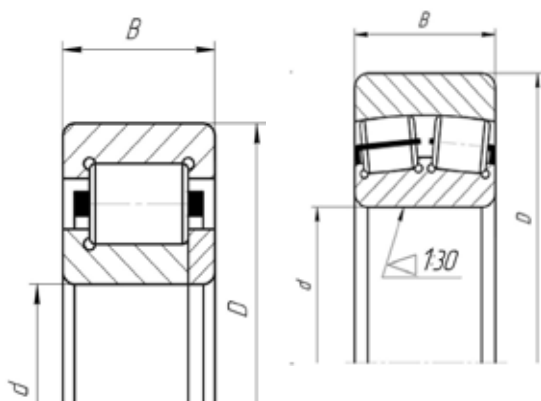
**ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z KOŁNIERZAMI NA PIERŚCIENIU WEWNĘTRZNYM
WYKONANIE WEWNĘTRZNE: Z PRZEDROSTKIEM CA**

**ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM STOŻKOWYM NA PIERŚCIENIU WEWNĘTRZNYM,
ZBIEŻNOŚĆ 1:12**

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 23122 | 3003722 | 110 | 180 | 56 | 5,83 | 453,7 | 613 | 1 900 | 2 600 |
| | 3053722 | | | | | | | | |
| 23124 | 3003724 | 120 | 200 | 62 | 8,33 | 571,7 | 771 | 1 800 | 2 400 |
| | 3053724 | | | | | | | | |
| 23126 | 3003726 | 130 | 210 | 64 | 9,1 | 618,3 | 866,3 | 1 700 | 2 200 |
| | 3053726 | | | | | | | | |
| 23128 | 3003728 | 140 | 225 | 68 | 10,8 | 694,3 | 986,7 | 1 600 | 2 000 |
| | 3053728 | | | | | | | | |
| 23130 | 3003730 | 150 | 250 | 80 | 16,4 | 915 | 1286,7 | 1 400 | 1 800 |
| | 3053730 | | | | | | | | |
| 23132 | 3003732 | 160 | 270 | 86 | 20,8 | 1060 | 1476,7 | 1 300 | 1 700 |
| | 3053732 | | | | | | | | |
| 23134 | 3003734 | 170 | 280 | 88 | 22,4 | 1103,3 | 1606,7 | 1 200 | 1 600 |
| | 3053734 | | | | | | | | |
| 23144 | 3003744 | 220 | 370 | 120 | 59 | 1740 | 2746,7 | 900 | 1 100 |
| | 3053744 | | | | | | | | |
| 23148 | 3003748 | 240 | 400 | 128 | 65,1 | 1986,7 | 3163,3 | 800 | 1 000 |
| | 3053748 | | | | | | | | |
| 23152 | 3003752 | 260 | 440 | 144 | 96,1 | 2416,7 | 3926,7 | 750 | 950 |
| | 3053752 | | | | | | | | |
| 24024 | 4003124 | 120 | 180 | 60 | 5,4 | 449,7 | 693,3 | 1 600 | 2 000 |
| | 4053124 | | | | | | | | |
| 24026 | 4003126 | 130 | 200 | 69 | 7,95 | 574 | 862,7 | 1 500 | 1 900 |
| | 4053126 | | | | | | | | |
| 24028 | 4003128 | 140 | 210 | 69 | 8,45 | 599,3 | 946,7 | 1 400 | 1 800 |
| | 4053128 | | | | | | | | |
| 24030 | 4003130 | 150 | 225 | 75 | 10,5 | 689,3 | 1086,7 | 1 300 | 1 600 |
| | 4053130 | | | | | | | | |

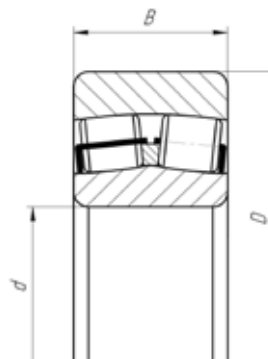


SPHERICAL ROLLER BEARINGS ON THE INNER RING
WITH TAPERED BORE , TAPER 1:30
External design: K30 suffix



ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z OTWOREM
STOŻKOWYM NA PIERŚCIENIU WEWNĘTRZNYM,
ZBIEŻNOŚĆ 1:30

SPHERICAL ROLLER BEARINGS WITH THE RIBLESS
INNER RING
Internal design variations: CC; MA; MB suffixes



ŁOŻYSKA BARYŁKOWE, DWURZĘDOWE, Z PIERŚCIENIEM
WEWNĘTRZNYM BEZ KOŁNIERZY

WYKONANIE WEWNĘTRZNE: CA, MA, MB

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | WEIGHT, kg MASA, kg | LOAD RATINGS, kN NOŚNOŚĆ, kN | | LIMITING SPEED RATINGS r/min PRĘDKOŚĆ GRANICZNA r/min | |
|---------------------------|---------|-------------------------------|-----|-----|------------------------|---------------------------------|---------------------------|--|-------------------|
| BBC-R | GOST | d | D | B | | DYNAMIC DYNAMICZNA C | STATIC STATYCZNA Co | IN GREASE W SMARZE | IN OIL W OLEJU |
| 24032 | 4003132 | 160 | 240 | 80 | 13 | 775 | 1230 | 1 100 | 1 500 |
| | 4053132 | | | | | | | | |
| 24034 | 4003134 | 170 | 260 | 90 | 17,5 | 967,3 | 1516,7 | 1 000 | 1 400 |
| | 4053134 | | | | | | | | |
| 24036 | 4003136 | 180 | 280 | 100 | 23 | 1140 | 1803,3 | 950 | 1 300 |
| | 4053136 | | | | | | | | |
| 24038 | 4003138 | 190 | 290 | 100 | 24 | 1183,3 | 1890 | 950 | 1 200 |
| | 4053138 | | | | | | | | |
| 24040 | 4003130 | 200 | 310 | 109 | 30,5 | 1373,3 | 2203,3 | 900 | 1 100 |
| | 4053130 | | | | | | | | |
| 24122 | 4003722 | 110 | 180 | 69 | 6,85 | 533,3 | 758 | 1 300 | 1 600 |
| | 4053722 | | | | | | | | |
| 24124 | 4003724 | 120 | 200 | 80 | 10 | 684 | 985 | 1 100 | 1 500 |
| | 4053724 | | | | | | | | |
| 24126 | 4003726 | 130 | 210 | 80 | 11 | 707,3 | 1041,7 | 1 000 | 1 400 |
| | 4053726 | | | | | | | | |
| 24128 | 4003728 | 140 | 225 | 85 | 13 | 803 | 1203,3 | 950 | 1 300 |
| | 4053728 | | | | | | | | |
| 24130 | 4003730 | 150 | 250 | 100 | 19,5 | 1050 | 1540 | 900 | 1 200 |
| | 4053730 | | | | | | | | |
| 24132 | 4003730 | 160 | 270 | 109 | 25 | 1186,7 | 1826,7 | 850 | 1 100 |
| | 4053730 | | | | | | | | |
| 24134 | 4003734 | 170 | 280 | 109 | 26 | 1263,3 | 1930 | 800 | 1 000 |
| | 4053734 | | | | | | | | |



Spherical plain bearings

Spherical plain bearings are available in many designs and sizes. Basic bearing designations are indicated in the catalogue datasheets and are in accordance with international ISO and/or GOST standards. The system listed below with suffixes is applied to differentiate design variants. You can get in touch with our services to clarify a bearing design availability, to get additional bearing technical data, which is not listed in the catalogue as well as to discuss with our technical experts your specific requirements for a bearing design.

Łożyska przegubowe są produkowane w różnych wersjach i rozmiarach. Tabela katalogowa przedstawia podstawowe oznaczenia łożysk zgodnie z międzynarodowymi normami ISO i/lub GOST. Do oznaczania różnych wariantów konstrukcyjnych stosuje się następujący system przyrostków. Prosimy o kontakt w celu uzyskania informacji o dostępnych wykonaniach, dodatkowych parametrach produktów nie ujętych w katalogu, jak również w celu omówienia z naszymi specjalistami technicznymi Państwa specjalnych wymagań dotyczących konstrukcji łożysk.

DESIGNATION SCHEME

WZÓR OZNACZENIA

| |
|---|
| <p>Basic designation (GE ... , GEH ...)</p> |
| <p>Oznaczenie podstawowe (GE ... , GEH ...)</p> |

| |
|--|
| <p>External design (C, S, E, EX)</p> |
| <p>Budowa zewnętrzna (C, S, E, EX)</p> |

Łożyska przegubowe



DESIGNS AND SUFFIXES DESIGNATION

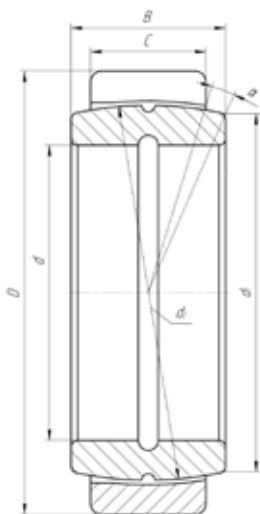
OZNACZENIA PRZEDROSTKÓW

| | | |
|----------------|--|---|
| GE ... | standard design | standardowa konstrukcja |
| GEH ... | wider inner ring and larger outside diameter compared to GE | zwiększona szerokość pierścienia wewnętrznego i średnicy zewnętrznej w stosunku do GE |
| C | lubrication holes and an annular groove in the inner ring | otwory i rowki do smarowania w pierścieniu wewnętrznym |
| S | lubrication holes and an annular groove in both rings | otwory i rowki do smarowania w pierścieniach wewnętrznych i zewnętrznych |
| E | outer ring fractured at one point | pierścień zewnętrzny pojedynczo dzielony |
| EX | outer ring fractured at two points | pierścień zewnętrzny podwójnie dzielony |
| 2RS | NRB contact seal on both sides | uszczelnienie stykowe z gumy butadienowo-akrylonitrylowej po obu stronach łożyska |



ŁOŻYSKA PRZEGUBOWE

SPHERICAL PLAIN BEARINGS



SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN THE INNER RING AND WITH THE OUTER RING FRACTURED AT ONE POINT

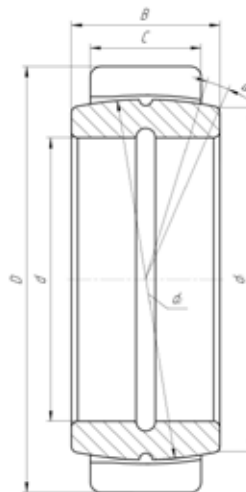
ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI DO SMAROWANIA W PIERŚCIENIU WEWNĘTRZNYM Z POJEDYNCZO DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|--------|-------------------------------|-----|-----|----|----------|-----|-----|------------------------|
| BBC-R | GOST | d | D | B | C | α | d1 | d2 | |
| GE 8 EC | ШСП8 | 8 | 17 | 8 | 5 | * | 10 | 13 | 0,01 |
| GE 10 EC | ЕШСП10 | 10 | 19 | 9 | 6 | 12 | 13 | 16 | 0,01 |
| GE 10 EC | ШСП10 | 10 | 20 | 9 | 6 | * | 13 | 16 | 0,01 |
| GE 12 EC | ШСП12 | 12 | 22 | 10 | 7 | 10 | 15 | 18 | 0,02 |
| GE 15 EC | ШСП15 | 15 | 28 | 12 | 8 | * | 18 | 23 | 0,04 |
| GE 15 EC | ЕШСП15 | 15 | 26 | 12 | 9 | 8 | 18 | 22 | 0,04 |
| GE 17 EC | ШСП17 | 17 | 32 | 14 | 10 | * | 22 | 26 | 0,05 |
| GE 17 EC | ЕШСП17 | 17 | 30 | 14 | 10 | 10 | 20 | 25 | 0,05 |
| GE 20 EC | ШСП20 | 20 | 35 | 16 | 12 | 9 | 24 | 29 | 0,07 |
| GEH 20 EC | 2ШСП20 | 20 | 47 | 26 | 15 | 22 | 23 | 35 | 0,19 |
| GE 25 EC | ШСП25 | 25 | 42 | 20 | 16 | 7 | 29 | 35 | 0,12 |
| GEH 25 EC | 2ШСП25 | 25 | 52 | 28 | 15 | 22 | 28 | 40 | 0,26 |
| GE 30 EC | ШСП30 | 30 | 47 | 22 | 18 | 6 | 33 | 40 | 0,16 |
| GE 35 EC | ШСП35 | 35 | 55 | 26 | 21 | 7 | 39 | 47 | 0,23 |
| GE 35 EC | ЕШСП35 | 35 | 55 | 25 | 20 | 6 | 39 | 47 | 0,24 |
| GE 40 EC | ШСП40 | 40 | 62 | 28 | 22 | 7 | 45 | 53 | 0,33 |
| GE 42 EC | ШСП42 | 42 | 62 | 25 | 22 | 6 | 47 | 56 | 0,35 |
| GE 45 EC | ШСП45 | 45 | 70 | 32 | 25 | 6 | 50 | 60 | 0,46 |
| GE 45 EC | ЕШСП45 | 45 | 68 | 32 | 25 | 7 | 50 | 60 | 0,43 |
| GE 50 EC | ШСП50 | 50 | 75 | 35 | 28 | 6 | 55 | 66 | 0,66 |
| GE 55 EC | ШСП55 | 55 | 85 | 40 | 32 | 7 | 62 | 74 | 0,88 |
| GE 60 EC | ШСП60 | 60 | 90 | 44 | 34 | * | 66 | 80 | 0,98 |
| GE 60 EC | ЕШСП60 | 60 | 90 | 44 | 36 | 6 | 66 | 80 | 1,10 |
| GE 70 EC | ШСП70 | 70 | 105 | 49 | 40 | 6 | 77 | 92 | 1,59 |
| GE 80 EC | ШСП80 | 80 | 120 | 55 | 45 | 6 | 88 | 105 | 2,33 |
| GE 90 EC | ШСП90 | 90 | 130 | 60 | 50 | 5 | 98 | 115 | 2,82 |
| GE 100 EC | ШСП100 | 100 | 150 | 70 | 55 | 7 | 109 | 130 | 4,48 |
| GE 110 EC | ШСП110 | 110 | 160 | 70 | 55 | 6 | 120 | 140 | 4,90 |
| GE 120 EC | ШСП120 | 120 | 180 | 85 | 70 | 6 | 130 | 160 | 8,19 |
| GE 140 EC | ШСП140 | 140 | 210 | 90 | 70 | 7 | 150 | 180 | 11,11 |
| GE 160 EC | ШСП160 | 160 | 230 | 105 | 80 | 8 | 170 | 200 | 14,06 |
| GE 180 EC | ШСП180 | 180 | 260 | 105 | 80 | 6 | 192 | 225 | 18,60 |



SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN THE INNER RING AND WITH THE OUTER RING FRACTURED AT TWO POINTS

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI DO SMAROWANIA W PIERŚCIENIU WEWNĘTRZNYM Z PODWÓJNIE DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

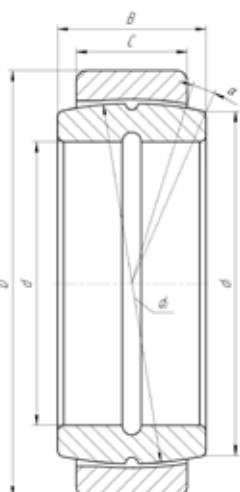


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|--------|-------------------------------|-----|-----|----|----------|-----|-----|------------------------|
| BBC-R | GOST | d | D | B | C | α | d1 | d2 | |
| GE 8 EXC | ШСЛ8 | 8 | 17 | 8 | 5 | * | 10 | 13 | 0,01 |
| GE 10 EXC | ЕШСЛ10 | 10 | 19 | 9 | 6 | 12 | 13 | 16 | 0,01 |
| GE 10 EXC | ШСЛ10 | 10 | 20 | 9 | 6 | * | 13 | 16 | 0,01 |
| GE 12 EXC | ШСЛ12 | 12 | 22 | 10 | 7 | 10 | 15 | 18 | 0,02 |
| GE 15 EXC | ШСЛ15 | 15 | 28 | 12 | 8 | * | 18 | 23 | 0,04 |
| GE 15 EXC | ЕШСЛ15 | 15 | 26 | 12 | 9 | 8 | 18 | 22 | 0,04 |
| GE 17 EXC | ШСЛ17 | 17 | 32 | 14 | 10 | * | 22 | 26 | 0,05 |
| GE 17 EXC | ЕШСЛ17 | 17 | 30 | 14 | 10 | 10 | 20 | 25 | 0,05 |
| GE 20 EXC | ШСЛ20 | 20 | 35 | 16 | 12 | 9 | 24 | 29 | 0,07 |
| GEH 20 EXC | 2ШСЛ20 | 20 | 47 | 26 | 15 | 22 | 23 | 35 | 0,19 |
| GE 25 EXC | ШСЛ25 | 25 | 42 | 20 | 16 | 7 | 29 | 35 | 0,12 |
| GEH 25 EXC | 2ШСЛ25 | 25 | 52 | 28 | 15 | 22 | 28 | 40 | 0,26 |
| GE 30 EXC | ШСЛ30 | 30 | 47 | 22 | 18 | 6 | 33 | 40 | 0,16 |
| GE35 EXC | ШСЛ35 | 35 | 55 | 26 | 21 | 7 | 39 | 47 | 0,24 |
| GE 35 EXC | ЕШСЛ35 | 35 | 55 | 25 | 20 | 6 | 39 | 47 | 0,24 |
| GE 40 EXC | ШСЛ40 | 40 | 62 | 28 | 22 | 7 | 45 | 53 | 0,33 |
| GE 40 EXC | ШСЛ45 | 45 | 70 | 32 | 25 | 6 | 50 | 60 | 0,46 |
| GE 45 EXC | ЕШСЛ45 | 45 | 68 | 32 | 25 | 7 | 50 | 60 | 0,43 |
| GE 50 EXC | ШСЛ50 | 50 | 75 | 35 | 28 | 6 | 55 | 66 | 0,66 |
| GE 55 EXC | ШСЛ55 | 55 | 85 | 40 | 32 | 7 | 62 | 74 | 0,88 |
| GE 60 EXC | ШСЛ60 | 60 | 90 | 44 | 34 | 7 | 66 | 80 | 0,94 |
| GE 60 EXC | ЕШСЛ60 | 60 | 90 | 44 | 36 | 6 | 66 | 80 | 1,10 |
| GE 70 EXC | ШСЛ70 | 70 | 105 | 49 | 40 | 6 | 77 | 92 | 1,59 |
| GE 80 EXC | ШСЛ80 | 80 | 120 | 55 | 45 | 6 | 88 | 105 | 2,33 |
| GE 90 EXC | ШСЛ90 | 90 | 130 | 60 | 50 | 5 | 98 | 115 | 2,82 |
| GE 100 EXC | ШСЛ100 | 100 | 150 | 70 | 55 | 7 | 109 | 130 | 4,48 |
| GE 110 EXC | ШСЛ110 | 110 | 160 | 70 | 55 | 6 | 120 | 140 | 4,90 |
| GE 120 EXC | ШСЛ120 | 120 | 180 | 85 | 70 | 6 | 130 | 160 | 8,19 |
| GE 140 EXC | ШСЛ140 | 140 | 210 | 90 | 70 | 7 | 150 | 180 | 11,11 |
| GE 160 EXC | ШСЛ160 | 160 | 230 | 105 | 80 | 8 | 170 | 200 | 14,06 |
| GE 180 EXC | ШСЛ180 | 180 | 260 | 105 | 80 | 6 | 192 | 225 | 18,60 |



ŁOŻYSKA PRZEGUBOWE

SPHERICAL PLAIN BEARINGS



SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN THE INNER RING

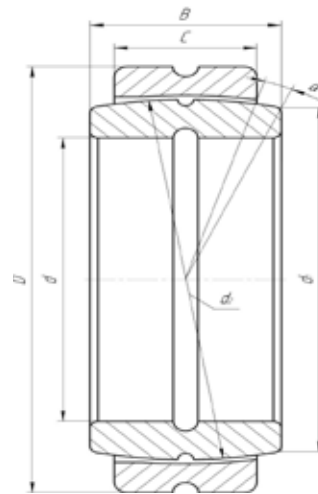
ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI DO SMAROWANIA W PIERŚCIENIU WEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|-------|-------------------------------|-----|-----|----|----------|-----|-----|------------------------|
| BBC-R | GOST | d | D | B | C | α | d1 | d2 | |
| GE 8 C | ШС8 | 8 | 17 | 8 | 5 | * | 10 | 13 | 0,01 |
| GE 10 C | ЕШС10 | 10 | 19 | 9 | 6 | 12 | 13 | 16 | 0,01 |
| GE 10 C | ШС10 | 10 | 20 | 9 | 6 | * | 13 | 16 | 0,01 |
| GE 12 C | ШС12 | 12 | 22 | 10 | 7 | 10 | 18 | 10 | 0,02 |
| GE 15 C | ШС15 | 15 | 28 | 12 | 8 | * | 18 | 23 | 0,04 |
| GE 15 C | ЕШС15 | 15 | 26 | 12 | 9 | 8 | 18 | 22 | 0,04 |
| GE 17 C | ШС17 | 17 | 32 | 14 | 10 | * | 22 | 26 | 0,05 |
| GE 17 C | ЕШС17 | 17 | 30 | 14 | 10 | 10 | 20 | 25 | 0,05 |
| GE 20 C | ШС20 | 20 | 35 | 16 | 12 | 9 | 24 | 29 | 0,07 |
| GEH 20 C | 2ШС20 | 20 | 47 | 26 | 15 | 22 | 23 | 35 | 0,19 |
| GE 25 C | ШС25 | 25 | 42 | 20 | 16 | 7 | 29 | 35 | 0,12 |
| GEH 25 C | 2ШС25 | 25 | 52 | 28 | 15 | 22 | 28 | 40 | 0,26 |
| GE 30 C | ШС30 | 30 | 47 | 22 | 18 | 6 | 33 | 40 | 0,16 |
| GE 35 C | ШС 35 | 35 | 55 | 26 | 21 | * | 39 | 47 | 0,24 |
| GE 35 C | ЕШС35 | 35 | 55 | 25 | 20 | 6 | 39 | 47 | 0,24 |
| GE 40 C | ШС40 | 40 | 62 | 28 | 22 | 7 | 45 | 53 | 0,33 |
| GE45 C | ШС 45 | 45 | 70 | 32 | 25 | * | 50 | 60 | 0,43 |
| GE 45 C | ЕШС45 | 45 | 68 | 32 | 25 | 7 | 50 | 60 | 0,43 |
| GE 50 C | ШС50 | 50 | 75 | 35 | 28 | 6 | 55 | 66 | 0,66 |
| GE 55 C | ШС55 | 55 | 85 | 40 | 32 | 7 | 62 | 74 | 0,88 |
| GE 55 C | ШС60 | 60 | 90 | 44 | 34 | * | 66 | 80 | 1,10 |
| GE 60 C | ЕШС60 | 60 | 90 | 44 | 36 | 6 | 66 | 80 | 1,10 |
| GE 70 C | ШС70 | 70 | 105 | 49 | 40 | 6 | 77 | 92 | 1,59 |
| GE 80 C | ШС80 | 80 | 120 | 55 | 45 | 6 | 88 | 105 | 2,33 |
| GE 90 C | ШС90 | 90 | 130 | 60 | 50 | 5 | 98 | 115 | 2,82 |
| GE 100 C | ШС100 | 100 | 150 | 70 | 55 | 7 | 109 | 130 | 4,48 |
| GE 110 C | ШС110 | 110 | 160 | 70 | 55 | 6 | 120 | 140 | 4,90 |
| GE 120 C | ШС120 | 120 | 180 | 85 | 70 | 6 | 130 | 160 | 8,19 |
| GE 140 C | ШС140 | 140 | 210 | 90 | 70 | 7 | 150 | 180 | 11,11 |
| GE 160 C | ШС160 | 160 | 230 | 105 | 80 | 8 | 170 | 200 | 14,06 |
| GE 180 C | ШС180 | 180 | 260 | 105 | 80 | 6 | 192 | 225 | 18,60 |



SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN THE INNER RING AND WITH THE OUTER RING FRACTURED AT TWO POINTS

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI SMAROWYMI W PIERŚCIENIU WEWNĘTRZNYM I ZEWNĘTRZNYM

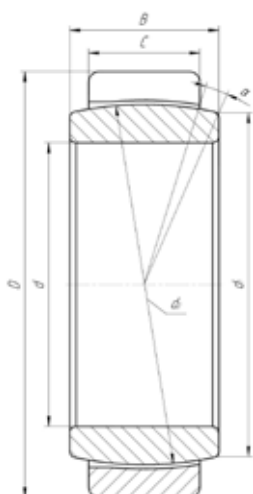


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|--------|-------------------------------|-----|-----|----|----------|-----|-----|------------------------|
| BBC-R | GOST | d | D | B | C | α | d1 | d2 | |
| GE 8 S | ШС8К | 8 | 17 | 8 | 5 | * | 10 | 13 | 0,008 |
| GE 10 S | ЕШС10К | 10 | 19 | 9 | 6 | 12 | 13 | 16 | 0,01 |
| GE 10 S | ШС10К | 10 | 20 | 9 | 6 | * | 13 | 16 | 0,01 |
| GE 12 S | ШС12К | 12 | 22 | 10 | 7 | 10 | 15 | 18 | 0,02 |
| GE 15 S | ШС15К | 15 | 28 | 12 | 8 | * | 18 | 23 | 0,04 |
| GE 15 S | ЕШС15К | 15 | 26 | 12 | 9 | 8 | 18 | 22 | 0,04 |
| GE 15 S | ШС17К | 17 | 32 | 14 | 10 | * | 22 | 26 | 0,05 |
| GE 17 S | ЕШС17К | 17 | 30 | 14 | 10 | 10 | 20 | 25 | 0,05 |
| GE 20 S | ШС20К | 20 | 35 | 16 | 12 | 9 | 24 | 29 | 0,07 |
| GEH 20 S | 2ШС20К | 20 | 47 | 26 | 15 | 22 | 23 | 35 | 0,19 |
| GE 25 S | ШС25К | 25 | 42 | 20 | 16 | 7 | 29 | 35 | 0,12 |
| GEH 25 S | 2ШС25К | 25 | 52 | 28 | 15 | 22 | 28 | 40 | 0,26 |
| GE 30 S | ШС30К | 30 | 47 | 22 | 18 | 6 | 33 | 40 | 0,16 |
| GE 35 S | ШС35К | 35 | 55 | 26 | 21 | * | 39 | 47 | 0,24 |
| GE 35 S | ЕШС35К | 35 | 55 | 25 | 20 | 6 | 39 | 47 | 0,24 |
| GE 40 S | ШС40К | 40 | 62 | 28 | 22 | 7 | 45 | 53 | 0,33 |
| GE 45 S | ШС45К | 45 | 70 | 32 | 25 | * | 50 | 60 | 0,43 |
| GE 45 S | ЕШС45К | 45 | 68 | 32 | 25 | 7 | 50 | 60 | 0,43 |
| GE 50 S | ШС50К | 50 | 75 | 35 | 28 | 6 | 55 | 66 | 0,66 |
| GE 55 S | ШС55К | 55 | 85 | 40 | 32 | 7 | 62 | 74 | 0,88 |
| GE 60 S | ЕШС60К | 60 | 90 | 44 | 36 | 6 | 66 | 80 | 1,1 |
| GE 70 S | ШС70К | 70 | 105 | 49 | 40 | 6 | 77 | 92 | 1,59 |
| GE 80 S | ШС80К | 80 | 120 | 55 | 45 | 6 | 88 | 105 | 2,33 |
| GE 90 S | ШС90К | 90 | 130 | 60 | 50 | 5 | 98 | 115 | 2,82 |
| GE 100 S | ШС100К | 100 | 150 | 70 | 55 | 7 | 109 | 130 | 4,48 |
| GE 110 S | ШС110К | 110 | 160 | 70 | 55 | 6 | 120 | 140 | 4,9 |
| GE 120 S | ШС120К | 120 | 180 | 85 | 70 | 6 | 130 | 160 | 8,19 |
| GE 140 S | ШС140К | 140 | 210 | 90 | 70 | 7 | 150 | 180 | 11,11 |
| GE 160 S | ШС160К | 160 | 230 | 105 | 80 | 8 | 170 | 200 | 14,06 |
| GE 180 S | ШС180К | 180 | 260 | 105 | 80 | 6 | 192 | 225 | 18,6 |



ŁOŻYSKA PRZEGUBOWE

SPHERICAL PLAIN BEARINGS



SPHERICAL PLAIN BEARINGS WITHOUT LUBRICATION
GROOVES AND HOLES AND WITH THE OUTER RING
FRACTURED AT ONE POINT

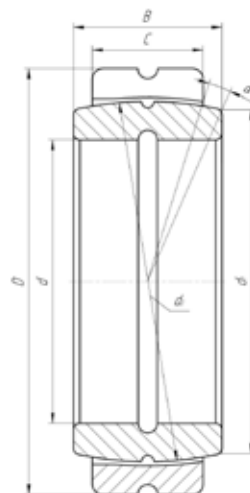
ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE BEZ OTWORÓW I
ROWKÓW SMAROWYCH Z POJEDYNCZO DZIELONYM
PIERŚCIENIEM ZEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | | WEIGHT, kg MASA, kg | |
|---------------------------|-------|-------------------------------|-----|-----|----|----------|-----|------------------------|-------|
| BBC-R | GOST | d | D | B | C | α | d1 | d2 | |
| GE 8 E | ШП80 | 8 | 17 | 8 | 5 | * | 10 | 13 | 0,01 |
| GE 10 E | ЕШП10 | 10 | 19 | 9 | 6 | 12 | 13 | 16 | 0,01 |
| GE 10 E | ШП10 | 10 | 20 | 9 | 6 | * | 13 | 16 | 0,01 |
| GE 12 E | ШП12 | 12 | 22 | 10 | 7 | 10 | 15 | 18 | 0,02 |
| GE 15 E | ШП 15 | 15 | 28 | 12 | 8 | * | 18 | 23 | 0,04 |
| GE 15 E | ЕШП15 | 15 | 26 | 12 | 9 | 8 | 18 | 22 | 0,04 |
| GE 17 E | ШП17 | 17 | 32 | 24 | 10 | * | 22 | 26 | 0,05 |
| GE 17 E | ЕШП17 | 17 | 30 | 14 | 10 | 10 | 20 | 25 | 0,05 |
| GE 20 E | ШП20 | 20 | 35 | 16 | 12 | 9 | 24 | 29 | 0,07 |
| GEH 20 E | 2ШП20 | 20 | 47 | 26 | 15 | 22 | 23 | 35 | 0,19 |
| GE 25 E | ШП25 | 25 | 42 | 20 | 16 | 7 | 29 | 35 | 0,12 |
| GEH 25 E | 2ШП25 | 25 | 52 | 28 | 15 | 22 | 28 | 40 | 0,26 |
| GE 30 E | ШП30 | 30 | 47 | 22 | 18 | 6 | 33 | 40 | 0,16 |
| GE 35 E | ШП35 | 35 | 55 | 26 | 21 | * | 39 | 47 | 0,24 |
| GE 35 E | ЕШП35 | 35 | 55 | 25 | 20 | 7 | 39 | 47 | 0,24 |
| GE 40 E | ШП40 | 40 | 62 | 28 | 22 | 7 | 45 | 53 | 0,33 |
| GE 45 E | ЕШП45 | 45 | 68 | 32 | 25 | 7 | 50 | 60 | 0,46 |
| GE 45 E | ШП 45 | 45 | 70 | 32 | 25 | * | 50 | 60 | 0,46 |
| GE 50 E | ШП50 | 50 | 75 | 35 | 28 | 6 | 55 | 66 | 0,66 |
| GE 55 E | ШП55 | 55 | 85 | 40 | 32 | 7 | 62 | 74 | 0,88 |
| GE 60 E | ЕШП60 | 60 | 90 | 44 | 36 | 6 | 66 | 80 | 1,10 |
| GE 70 E | ШП70 | 70 | 105 | 49 | 40 | 6 | 77 | 92 | 1,59 |
| GE 80 E | ШП80 | 80 | 120 | 55 | 46 | 6 | 88 | 105 | 2,33 |
| GE 90 E | ШП90 | 90 | 130 | 60 | 50 | 5 | 98 | 115 | 2,82 |
| GE 100 E | ШП100 | 100 | 150 | 70 | 55 | 7 | 109 | 130 | 4,48 |
| GE 110 E | ШП110 | 110 | 160 | 70 | 55 | 6 | 120 | 140 | 4,90 |
| GE 120 E | ШП120 | 120 | 180 | 85 | 70 | 6 | 130 | 160 | 8,19 |
| GE 140 E | ШП140 | 140 | 210 | 90 | 70 | 7 | 150 | 180 | 11,11 |
| GE 160 E | ШП160 | 160 | 230 | 105 | 80 | 8 | 170 | 200 | 14,06 |
| GE 180 E | ШП180 | 180 | 260 | 105 | 80 | 6 | 192 | 225 | 18,60 |



SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN BOTH RINGS AND WITH THE OUTER RING FRACTURED AT ONE POINT

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI SMARNYMI NA PIERŚCIENIU WEWNĘTRZNYM I ZEWNĘTRZNYM Z POJEDYNCZO DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

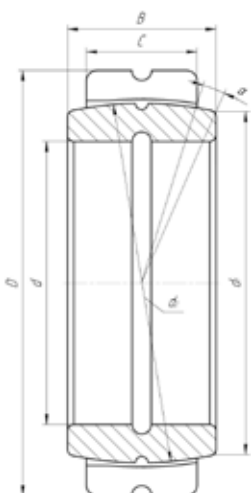


| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|---------|-------------------------------|-----|-----|----|----------|-----|-----|------------------------|
| BBC-R | GOST | d | D | B | C | α | d1 | d2 | |
| GE 8 ES | ШСП8К | 8 | 17 | 8 | 5 | * | 10 | 13 | 0,01 |
| GE 10 ES | ШСП10К | 10 | 20 | 14 | 9 | * | 13 | 16 | 0,01 |
| GE 12 ES | ШСП12К | 12 | 22 | 10 | 7 | 10 | 15 | 18 | 0,02 |
| GE 15 ES | ШСП15К | 15 | 28 | 12 | 8 | * | 18 | 23 | 0,04 |
| GE 17 ES | ШСП17К | 17 | 32 | 14 | 10 | * | 22 | 26 | 0,05 |
| GE 20 ES | ШСП20К | 20 | 35 | 16 | 12 | 9 | 24 | 29 | 0,07 |
| GE 25 ES | ШСП25К | 25 | 42 | 20 | 16 | 7 | 29 | 35 | 0,12 |
| GE 30 ES | ШСП30К | 30 | 47 | 22 | 18 | 6 | 33 | 40 | 0,16 |
| GE 35 ES | ШСП35К | 35 | 55 | 26 | 21 | * | 39 | 47 | 0,24 |
| GE 40 ES | ШСП40К | 40 | 62 | 28 | 22 | 7 | 45 | 53 | 0,33 |
| GE 42 ES | ШСП42К | 42 | 62 | 25 | 22 | * | 47 | 56 | 0,35 |
| GE 45 ES | ШСП45К | 45 | 70 | 32 | 25 | * | 50 | 60 | 0,46 |
| GE 50 ES | ШСП50К | 50 | 75 | 35 | 28 | 6 | 55 | 66 | 0,66 |
| GE 55 ES | ШСП55К | 55 | 85 | 40 | 32 | 7 | 62 | 74 | 0,88 |
| GE 70 ES | ШСП70К | 70 | 105 | 49 | 40 | 6 | 77 | 92 | 1,59 |
| GE 80 ES | ШСП80К | 80 | 120 | 55 | 45 | 6 | 88 | 105 | 2,33 |
| GE 90 ES | ШСП90К | 90 | 130 | 60 | 50 | 5 | 98 | 115 | 2,82 |
| GE 100 ES | ШСП100К | 100 | 150 | 70 | 55 | 7 | 109 | 130 | 4,48 |
| GE 110 ES | ШСП110К | 110 | 160 | 70 | 55 | 6 | 120 | 140 | 4,90 |
| GE 120 ES | ШСП120К | 120 | 180 | 85 | 70 | 6 | 130 | 160 | 8,19 |
| GE 140 ES | ШСП140К | 140 | 210 | 90 | 70 | 7 | 150 | 180 | 11,11 |
| GE 160 ES | ШСП160К | 160 | 230 | 105 | 80 | 8 | 170 | 200 | 14,06 |
| GE 180 ES | ШСП180К | 180 | 260 | 105 | 80 | 6 | 192 | 225 | 18,60 |



ŁOŻYSKA PRZEGUBOWE

SPHERICAL PLAIN BEARINGS



SPHERICAL PLAIN BEARINGS WITH LUBRICATION GROOVES AND HOLES IN BOTH RINGS AND WITH THE OUTER RING FRACTURED AT TWO POINTS

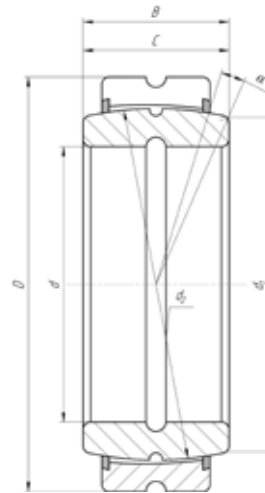
ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z OTWORAMI I ROWKAMI SMARNYMI NA PIERŚCIENIU WEWNĘTRZNYM I ZEWNĘTRZNYM Z PODWUJNIE DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM

| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|---------|-------------------------------|-----|-----|----|----------|-----|-----|------------------------|
| BBC-R | GOST | d | D | B | C | α | d1 | d2 | |
| GE 8 EXS | ШСЛ8К | 8 | 17 | 8 | 5 | * | 10 | 13 | 0,01 |
| GE 10 EXS | ЕШСЛ10К | 10 | 19 | 9 | 6 | 12 | 13 | 16 | 0,01 |
| GE 10 EXS | ШСЛ10К | 10 | 20 | 9 | 6 | * | 13 | 16 | 0,01 |
| GE 12 EXS | ШСЛ12К | 12 | 22 | 10 | 7 | 10 | 15 | 18 | 0,02 |
| GE 15 EXS | ШСЛ15К | 15 | 28 | 12 | 8 | * | 18 | 23 | 0,04 |
| GE 15 EXS | ЕШСЛ15К | 15 | 26 | 12 | 9 | 8 | 18 | 22 | 0,04 |
| GE 15 EXS | ШСЛ17К | 17 | 32 | 14 | 10 | * | 22 | 26 | 0,05 |
| GE 17 EXS | ЕШСЛ17К | 17 | 30 | 14 | 10 | 10 | 20 | 25 | 0,05 |
| GE 20 EXS | ШСЛ20К | 20 | 35 | 16 | 12 | 9 | 24 | 29 | 0,07 |
| GEH 20 EXS | 2ШСЛ20К | 20 | 47 | 26 | 15 | 22 | 23 | 35 | 0,19 |
| GE 25 EXS | ШСЛ25К | 25 | 42 | 20 | 16 | 7 | 29 | 35 | 0,12 |
| GEH 25 EXS | 2ШСЛ25К | 25 | 52 | 28 | 15 | 22 | 28 | 40 | 0,26 |
| GE 30 EXS | ШСЛ30К | 30 | 47 | 22 | 18 | 6 | 33 | 40 | 0,16 |
| GE 35 EXS | ШСЛ35К | 35 | 55 | 25 | 20 | 6 | 39 | 47 | 0,24 |
| GE 35 EXS | ЕШСЛ35К | 35 | 55 | 25 | 20 | 6 | 39 | 47 | 0,24 |
| GE 40 EXS | ШСЛ40К | 40 | 62 | 28 | 22 | 7 | 45 | 53 | 0,33 |
| GE 45 EXS | ЕШСЛ45К | 45 | 68 | 32 | 26 | 7 | 50 | 60 | 0,43 |
| GE 45 EXS | ШСЛ45К | 45 | 70 | 32 | 25 | * | 50 | 60 | 0,43 |
| GE 50 EXS | ШСЛ50К | 50 | 75 | 35 | 28 | 6 | 55 | 66 | 0,66 |
| GE 55 EXS | ШСЛ55К | 55 | 85 | 40 | 32 | 7 | 62 | 74 | 0,88 |
| GE 60 EXS | ШСЛ60 К | 60 | 90 | 44 | 34 | * | 66 | 80 | 0,94 |
| GE 60 EXS | ЕШСЛ60К | 60 | 90 | 44 | 36 | 6 | 66 | 80 | 1,10 |
| GE 70 EXS | ШСЛ70К | 70 | 105 | 49 | 40 | 6 | 77 | 92 | 1,59 |
| GE 80 EXS | ШСЛ80К | 80 | 120 | 55 | 45 | 6 | 88 | 105 | 2,33 |
| GE 90 EXS | ШСЛ90К | 90 | 130 | 60 | 50 | 5 | 98 | 115 | 2,82 |
| GE 100 EXS | ШСЛ100К | 100 | 150 | 70 | 55 | 7 | 109 | 130 | 4,48 |
| GE 110 EXS | ШСЛ110К | 110 | 160 | 70 | 55 | 6 | 120 | 140 | 4,90 |
| GE 120 EXS | ШСЛ120К | 120 | 180 | 85 | 70 | 6 | 130 | 160 | 8,19 |
| GE 140 EXS | ШСЛ140К | 140 | 210 | 90 | 70 | 7 | 150 | 180 | 11,11 |
| GE 160 EXS | ШСЛ160К | 160 | 230 | 105 | 80 | 8 | 170 | 200 | 14,06 |
| GE 180 EXS | ШСЛ180К | 180 | 260 | 105 | 80 | 6 | 192 | 225 | 18,60 |

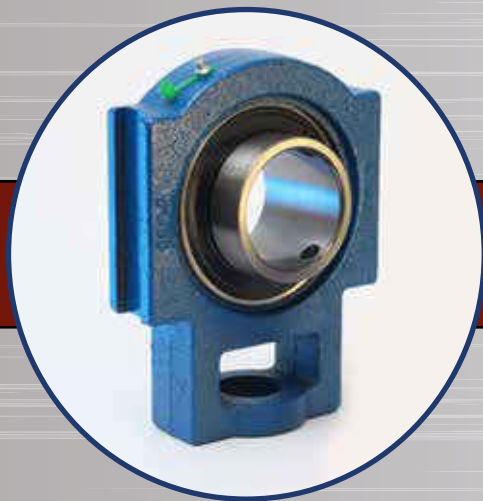


SPHERICAL PLAIN BEARINGS WITH A SEAL ON BOTH SIDES, LUBRICATION GROOVES AND HOLES IN BOTH RINGS AND WITH THE OUTER RING FRACTURED AT ONE POINT

ŁOŻYSKA ŚLIZGOWE PRZEGUBOWE Z DWUSTRONNYM USZCZELNIENIEM, OTWORAMI I ROWKAMI DO SMAROWANIA NA PIERŚCIENIACH WEWNĘTRZNYCH I ZEWNĘTRZNYCH Z POJEDYNCZO DZIELONYM PIERŚCIENIEM ZEWNĘTRZNYM



| DESIGNATION OZNACZENIA | | DIMENSIONS, mm WYMIARY, mm | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|------|-------------------------------|-----|-----|----|----------|-----|-----|------------------------|
| BBC-R | GOST | d | D | B | C | α | d1 | d2 | |
| GE 8 ES 2RS | * | 8 | 17 | 8 | 5 | * | 10 | 13 | 0,01 |
| GE 10 ES 2RS | * | 10 | 20 | 14 | 9 | * | 13 | 16 | 0,01 |
| GE 12 ES 2RS | * | 12 | 22 | 10 | 7 | 10 | 15 | 18 | 0,02 |
| GE 15 ES 2RS | * | 15 | 28 | 12 | 8 | * | 18 | 23 | 0,04 |
| GE 17 ES 2RS | * | 17 | 32 | 14 | 10 | * | 22 | 26 | 0,05 |
| GE 20 ES 2RS | * | 20 | 35 | 16 | 12 | 9 | 24 | 29 | 0,07 |
| GE 25 ES 2RS | * | 25 | 42 | 20 | 16 | 7 | 29 | 35 | 0,12 |
| GE 30 ES 2RS | * | 30 | 47 | 22 | 18 | 6 | 33 | 40 | 0,16 |
| GE 35 ES 2RS | * | 35 | 55 | 26 | 21 | * | 39 | 47 | 0,24 |
| GE 40 ES 2RS | * | 40 | 62 | 28 | 22 | 7 | 45 | 53 | 0,33 |
| GE 45 ES 2RS | * | 42 | 62 | 25 | 22 | * | 47 | 56 | 0,35 |
| GE 50 ES 2RS | * | 45 | 70 | 32 | 25 | * | 50 | 60 | 0,46 |
| GE 55 ES 2RS | * | 50 | 75 | 35 | 28 | 6 | 55 | 66 | 0,66 |
| GE 60 ES 2RS | * | 55 | 85 | 40 | 32 | 7 | 62 | 74 | 0,88 |
| GE 70 ES 2RS | * | 70 | 105 | 49 | 40 | 6 | 77 | 92 | 1,59 |
| GE 80 ES 2RS | * | 80 | 120 | 55 | 45 | 6 | 88 | 105 | 2,33 |
| GE 90 ES 2RS | * | 90 | 130 | 60 | 50 | 5 | 98 | 115 | 2,82 |
| GE 100 ES 2RS | * | 100 | 150 | 70 | 55 | 7 | 109 | 130 | 4,48 |
| GE 110 ES 2RS | * | 110 | 160 | 70 | 55 | 6 | 120 | 140 | 4,90 |
| GE 120 ES 2RS | * | 120 | 180 | 85 | 70 | 6 | 130 | 160 | 8,19 |
| GE 140 ES 2RS | * | 140 | 210 | 90 | 70 | 7 | 150 | 180 | 11,11 |
| GE 160 ES 2RS | * | 160 | 230 | 105 | 80 | 8 | 170 | 200 | 14,06 |
| GE 180 ES 2RS | * | 180 | 260 | 105 | 80 | 6 | 192 | 225 | 18,60 |



Spherical ball bearing inserts and bearing units

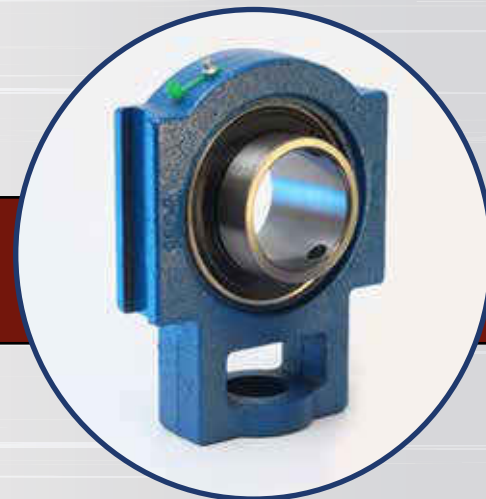
The bearing unit is a combination of spherical ball bearing and housing. Bearings and bearing units are available in many designs and sizes. Basic designations of spherical ball bearing inserts and bearing units are indicated in the catalogue datasheets. The system listed below with prefixes is applied to differentiate design variants. You can get in touch with our services to clarify a bearing design availability, to get additional bearing technical data, which is not listed in the catalogue as well as to discuss with our technical experts your specific requirements for a bearing design.

Zespoły łożyskowe z oprawą składają się z łożysk kulkowych ze sferyczną powierzchnią pierścienia zewnętrznego i opraw. Łożyska i zespoły łożyskowe są dostępne w różnych wersjach i rozmiarach. W tabeli w katalogu podano ich podstawowe oznaczenia. System oznaczeń służy do identyfikacji różnych wariantów konstrukcyjnych opraw łożyskowych. Prosimy o kontakt z naszym działem obsługi klienta w celu uzyskania szczegółowych informacji o dostępnych produktach, dodatkowych parametrach nieujętych w katalogu lub w celu omówienia z naszymi ekspertami technicznymi Państwa specyficznych wymagań dotyczących konstrukcji łożysk.

DESIGNATION FORMULA

WZÓR OZNACZENIA

| | | |
|---------------------------------|---|-----------------------------|
| Bearing designation (UC, UK) | Bearing Unit Designation (P, F, FL, PA, T, FC) | Dimension series (200, 300) |
| Oznaczenie łożyska (UC, UK) | Oznaczenie oprawy (P, F, FL, PA, T, FC) | Seria wymiarowa (200, 300) |



PREFIX DESIGNATIONS

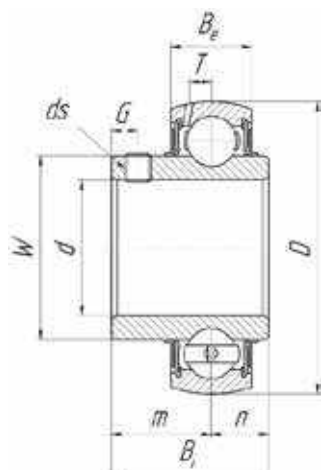
OZNACZENIA PRZEDROSTKÓW

| | | |
|-----------|---|--|
| UC | Spherical Ball Bearing Inserts | Łożyska kulkowe w oprawie z kulistą powierzchnią pierścienia zewnętrznego |
| UK | Spherical Ball Bearing Inserts with tapered bore, taper 1:12 | Łożyska kulkowe w oprawie z kulistą powierzchnią pierścienia zewnętrznego i otworem stożkowym (1:12) |
| P | 2-Bolt Plummer Block Housing with Long Base | Szeroka, nieruchoma oprawa z 2 otworami na śruby mocujące |
| F | 4-Bolt Flanged Square Housing | Oprawa kołnierzowa kwadratowa i 4 otworami na śruby mocujące |
| FL | 2-Bolt Flanged Oval Housing | Oprawa kołnierzowa rombowa (owalna) 2 x otwory na śruby mocujące |
| PA | 2-Bolt Plummer Block Housing with Short Base | Wąska oprawa stacjonarna z 2 otworami |
| T | Take-up Unit Housing | Oprawa zespołu łożyska naciągowego |
| FC | 4-Bolt Flanged Round Housing | Oprawa kołnierzowa okrągła i 4 otworami na śruby mocujące |

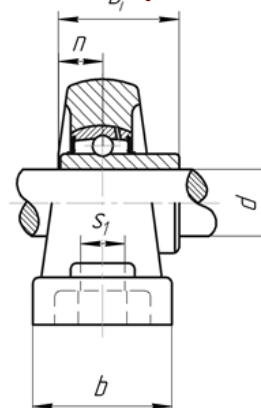
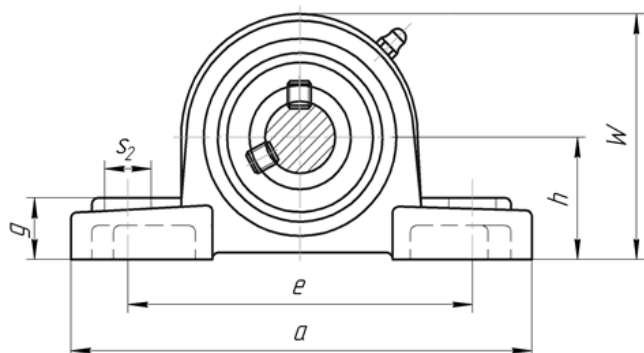


SPHERICAL BALL BEARING INSERTS
UC200 AND UC300 SERIES

ŁOŻYSKA KULKOWE SAMONASTAWNE ZE SFERYCZNYM
PIERŚCIENIEM ZEWNĘTRZNYM SERII UC200 I UC300



| DESIGNATION OZNACZENIA | DIMENSIONS, mm WYMIARY, mm | | | | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|-------------------------------|-----|------|----|------|------|-----|----------|------|-------|------------------------|
| | BBC-R | d | D | Bi | Be | n | m | G | ds | T | |
| UC 201 | 12 | 47 | 31 | 17 | 12,7 | 18,3 | 4,5 | M6x0,75 | 4,5 | 29 | 0,21 |
| UC 202 | 15 | 47 | 31 | 17 | 12,7 | 18,3 | 4,5 | M6x0,75 | 4,5 | 29 | 0,19 |
| UC 203 | 17 | 47 | 31 | 17 | 12,7 | 18,3 | 4,5 | M6x0,75 | 4,5 | 29 | 0,18 |
| UC 204 | 20 | 47 | 31 | 17 | 12,7 | 18,3 | 4,5 | M6x0,75 | 4,5 | 29 | 0,16 |
| UC 205 | 25 | 52 | 34 | 17 | 14,3 | 19,8 | 5 | M6x0,75 | 4,5 | 34 | 0,19 |
| UC 206 | 30 | 62 | 38,1 | 19 | 15,9 | 22,2 | 5 | M6x0,75 | 5,1 | 40,5 | 0,31 |
| UC 207 | 35 | 72 | 42,9 | 20 | 17,5 | 25,4 | 6 | M8x1 | 5,8 | 48 | 0,48 |
| UC 208 | 40 | 80 | 49,2 | 21 | 19 | 30,2 | 8 | M8x1 | 6,2 | 53 | 0,62 |
| UC 209 | 45 | 85 | 49,2 | 22 | 19 | 3,2 | 8 | M8x1 | 6,5 | 57,3 | 0,67 |
| UC 210 | 50 | 90 | 51,6 | 23 | 19 | 32,6 | 9 | M10x1,25 | 6,5 | 63 | 0,78 |
| UC 211 | 55 | 100 | 55,6 | 24 | 22,2 | 33,4 | 9 | M10x1,25 | 7,3 | 70 | 1,03 |
| UC 212 | 60 | 110 | 65,1 | 26 | 25,4 | 39,7 | 10 | M10x1,25 | 7,7 | 77 | 1,45 |
| UC 213 | 65 | 120 | 65,1 | 27 | 25,4 | 39,7 | 10 | M10x1,25 | 8,3 | 82,1 | 1,71 |
| UC 214 | 70 | 125 | 74,6 | 29 | 30,2 | 44,4 | 12 | M12x1,5 | 8,7 | 87 | 2,06 |
| UC 215 | 75 | 130 | 77,8 | 30 | 33,3 | 44,5 | 14 | M12x1,5 | 9,2 | 91,5 | 2,22 |
| UC 216 | 80 | 140 | 82,6 | 32 | 33,3 | 49,3 | 14 | M12x1,5 | 9,6 | 98,5 | 2,82 |
| UC 217 | 85 | 150 | 85,7 | 34 | 34,1 | 51,6 | 14 | M12x1,5 | 10,5 | 105 | 3,38 |
| UC 218 | 90 | 160 | 96 | 36 | 39,7 | 56,3 | 15 | M12x1,5 | 11,1 | 111,5 | 4,34 |
| UC 305 | 25 | 62 | 38 | 21 | 15 | 23 | 6 | M6x0,75 | 6,1 | 36,9 | 0,44 |
| UC 306 | 30 | 72 | 43 | 23 | 17 | 26 | 6 | M6x0,75 | 6,7 | 45 | 0,56 |
| UC 307 | 35 | 80 | 48 | 25 | 19 | 29 | 8 | M8x1 | 7,4 | 50,5 | 0,71 |
| UC 308 | 40 | 90 | 52 | 27 | 19 | 33 | 10 | M10x1,25 | 8,2 | 56 | 1,00 |
| UC 309 | 45 | 100 | 57 | 30 | 22 | 35 | 10 | M10x1,25 | 9 | 63 | 1,28 |
| UC 310 | 50 | 110 | 61 | 32 | 22 | 39 | 12 | M12x1,5 | 10 | 70,5 | 1,65 |
| UC 311 | 55 | 120 | 66 | 34 | 25 | 41 | 12 | M12x1,5 | 10,7 | 76,5 | 2,07 |
| UC 312 | 60 | 130 | 71 | 36 | 26 | 45 | 12 | M12x1,5 | 11,5 | 82,5 | 2,59 |
| UC 313 | 65 | 140 | 75 | 38 | 30 | 45 | 12 | M12x1,5 | 12,2 | 88,5 | 3,15 |
| UC 314 | 70 | 150 | 78 | 40 | 33 | 45 | 12 | M12x1,5 | 13 | 95,2 | 3,83 |
| UC 315 | 75 | 160 | 82 | 42 | 32 | 50 | 14 | M14x1,5 | 13,8 | 101,5 | 4,59 |
| UC 316 | 80 | 170 | 86 | 44 | 34 | 52 | 14 | M14x1,5 | 14,5 | 108 | 5,40 |
| UC 317 | 85 | 180 | 96 | 46 | 40 | 56 | 16 | M16x1,5 | 15 | 114,5 | 6,58 |
| UC 318 | 90 | 190 | 96 | 48 | 40 | 56 | 16 | M16x1,5 | 15,9 | 121 | 7,34 |

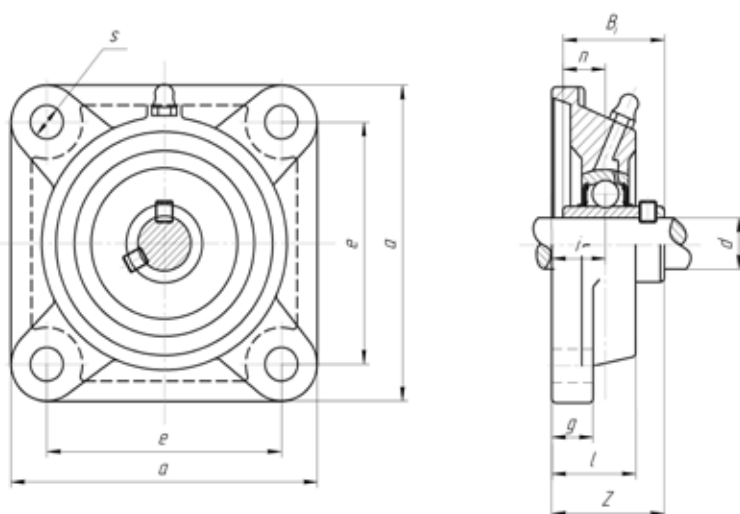
MOUNTED BEARING UNIT. UCP200 AND UCP300 SERIES
2-BOLT FLANGED OVAL UNITZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII
UCP200 I UCP300

| DESIGNATION OZNACZENIA | DIMENSIONS, mm WYMIARY, mm | | | | | | | | | | | BOLT ŚRUBA | WEIGHT, kg MASA, kg |
|---------------------------|-------------------------------|-------|-----|-----|-----|----|----|----|-----|------|------|---------------|------------------------|
| | BBC-R | d | h | a | e | b | s2 | s1 | g | W | Bi | | |
| UCP201 | 12 | 30,2 | 125 | 95 | 38 | 19 | 13 | 14 | 65 | 31 | 12,7 | M10 | 0,6 |
| UCP202 | 15 | 30,2 | 125 | 95 | 38 | 19 | 13 | 14 | 65 | 31 | 12,7 | M10 | 0,6 |
| UCP203 | 17 | 30,2 | 125 | 95 | 38 | 19 | 13 | 14 | 65 | 31 | 12,7 | M10 | 0,6 |
| UCP204 | 20 | 33,3 | 127 | 95 | 38 | 19 | 13 | 14 | 65 | 31 | 12,7 | M10 | 0,7 |
| UCP205 | 25 | 36,5 | 140 | 105 | 38 | 19 | 13 | 15 | 71 | 34 | 14,3 | M10 | 0,8 |
| UCP206 | 30 | 42,9 | 160 | 121 | 44 | 20 | 17 | 17 | 84 | 38,1 | 15,9 | M14 | 1,3 |
| UCP207 | 35 | 47,6 | 167 | 127 | 48 | 20 | 17 | 18 | 93 | 42,9 | 17,5 | M14 | 1,6 |
| UCP208 | 40 | 49,2 | 184 | 137 | 54 | 20 | 17 | 18 | 98 | 49,2 | 19 | M14 | 1,9 |
| UCP209 | 45 | 54 | 190 | 146 | 54 | 20 | 17 | 20 | 106 | 49,2 | 19 | M14 | 2,2 |
| UCP210 | 50 | 57,2 | 206 | 159 | 60 | 23 | 20 | 21 | 113 | 51,6 | 19 | M16 | 2,7 |
| UCP211 | 55 | 63,5 | 219 | 171 | 60 | 23 | 20 | 22 | 125 | 55,6 | 22,2 | M17 | 3,3 |
| UCP212 | 60 | 69,8 | 241 | 184 | 70 | 23 | 20 | 25 | 138 | 65,1 | 25,4 | M18 | 4,7 |
| UCP213 | 65 | 76,2 | 265 | 203 | 70 | 28 | 25 | 27 | 150 | 65,1 | 25,4 | M20 | 5,2 |
| UCP214 | 70 | 79,4 | 266 | 210 | 72 | 28 | 25 | 27 | 156 | 74,6 | 30,2 | M20 | 6,4 |
| UCP215 | 75 | 82,6 | 275 | 217 | 74 | 31 | 25 | 28 | 163 | 77,8 | 33,3 | M20 | 7,9 |
| UCP216 | 80 | 88,9 | 292 | 232 | 78 | 31 | 25 | 30 | 175 | 82,6 | 33,3 | M20 | 10 |
| UCP217 | 85 | 95,2 | 310 | 247 | 83 | 31 | 25 | 32 | 187 | 85,7 | 34,1 | M20 | 12,2 |
| UCP218 | 90 | 101,6 | 327 | 262 | 88 | 33 | 22 | 34 | 200 | 96 | 39,7 | M20 | 14,7 |
| UCP305 | 25 | 45 | 175 | 132 | 45 | 20 | 17 | 15 | 85 | 38 | 15 | M14 | 1,6 |
| UCP306 | 30 | 50 | 180 | 140 | 50 | 20 | 17 | 18 | 95 | 43 | 17 | M14 | 2,1 |
| UCP307 | 35 | 56 | 210 | 160 | 56 | 25 | 17 | 20 | 106 | 48 | 19 | M14 | 2,8 |
| UCP308 | 40 | 60 | 220 | 170 | 60 | 27 | 17 | 22 | 116 | 52 | 19 | M14 | 3,6 |
| UCP309 | 45 | 67 | 245 | 190 | 67 | 30 | 20 | 24 | 129 | 57 | 22 | M16 | 4,7 |
| UCP310 | 50 | 75 | 275 | 212 | 75 | 35 | 20 | 27 | 143 | 61 | 22 | M16 | 6,4 |
| UCP311 | 55 | 80 | 310 | 236 | 80 | 38 | 20 | 30 | 154 | 66 | 25 | M16 | 7,8 |
| UCP312 | 60 | 85 | 330 | 250 | 85 | 38 | 25 | 32 | 165 | 71 | 26 | M20 | 9,4 |
| UCP313 | 65 | 90 | 340 | 260 | 90 | 38 | 25 | 33 | 176 | 75 | 30 | M20 | 10,3 |
| UCP314 | 70 | 95 | 360 | 280 | 90 | 40 | 27 | 35 | 187 | 78 | 33 | M22 | 11,9 |
| UCP315 | 75 | 100 | 380 | 290 | 100 | 40 | 27 | 35 | 198 | 82 | 32 | M22 | 14,5 |
| UCP316 | 80 | 106 | 400 | 300 | 110 | 40 | 27 | 40 | 210 | 86 | 34 | M22 | 17,1 |
| UCP317 | 85 | 112 | 420 | 320 | 110 | 45 | 33 | 40 | 220 | 96 | 40 | M27 | 19,2 |
| UCP318 | 90 | 118 | 430 | 330 | 110 | 45 | 33 | 45 | 235 | 96 | 40 | M27 | 21,1 |



Zespoły łożyskowe

Spherical ball bearing inserts and bearing units



MOUNTED BEARING UNIT UCF200 AND UCF300 SERIES 4-BOLT FLANGED SQUARE UNIT

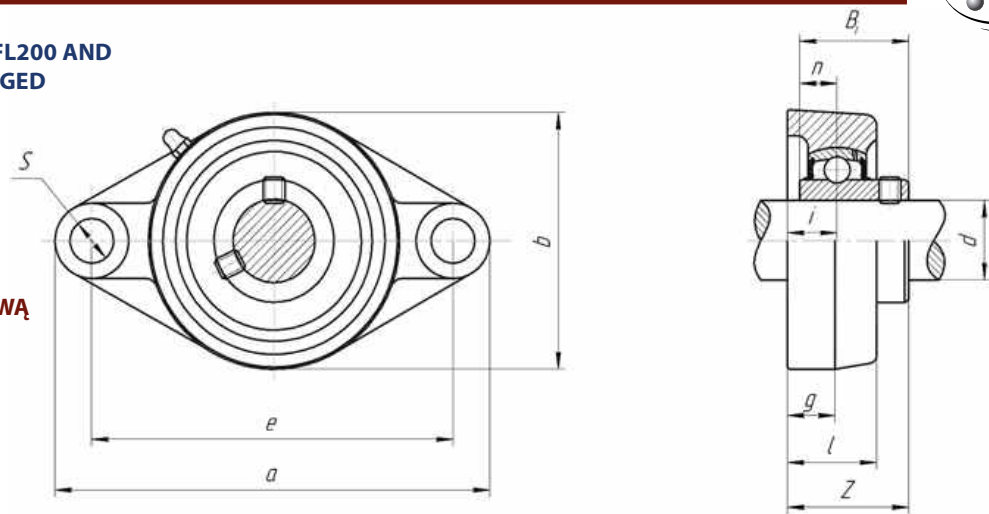
ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCF200 I UCF300

| DESIGNATION OZNACZENIA | DIMENSIONS, mm WYMIARY, mm | | | | | | | | | | BOLT SRUBA | WEIGHT, kg MASA, kg |
|---------------------------|-------------------------------|-----|-----|----|----|------|----|------|------|------|---------------|------------------------|
| | BBC-R | d | a | e | i | g | l | s | Z | Bi | | |
| UCF201 | 12 | 86 | 64 | 15 | 12 | 25,5 | 12 | 33,3 | 31 | 12,7 | M10 | 0,64 |
| UCF202 | 15 | 86 | 64 | 15 | 12 | 25,5 | 12 | 33,3 | 31 | 12,7 | M10 | 0,62 |
| UCF203 | 17 | 86 | 64 | 15 | 12 | 25,5 | 12 | 33,3 | 31 | 12,7 | M10 | 0,61 |
| UCF204 | 20 | 86 | 64 | 15 | 12 | 25,5 | 12 | 33,3 | 31 | 12,7 | M10 | 0,59 |
| UCF205 | 25 | 95 | 70 | 16 | 14 | 27 | 12 | 35,7 | 34 | 14,3 | M10 | 0,82 |
| UCF206 | 30 | 108 | 83 | 18 | 14 | 31 | 12 | 40,2 | 38,1 | 15,9 | M10 | 1,1 |
| UCF207 | 35 | 117 | 92 | 19 | 16 | 34 | 14 | 44,4 | 42,9 | 17,5 | M12 | 1,5 |
| UCF208 | 40 | 130 | 102 | 21 | 16 | 36 | 14 | 51,2 | 49,2 | 19 | M14 | 2 |
| UCF209 | 45 | 137 | 105 | 22 | 18 | 38 | 16 | 52,2 | 49,2 | 19 | M14 | 2,4 |
| UCF210 | 50 | 143 | 111 | 22 | 18 | 40 | 16 | 54,6 | 51,6 | 19 | M14 | 2,5 |
| UCF211 | 55 | 162 | 130 | 25 | 20 | 43 | 19 | 58,4 | 55,6 | 22,2 | M16 | 3,4 |
| UCF212 | 60 | 175 | 143 | 29 | 20 | 48 | 19 | 68,7 | 65,1 | 25,4 | M16 | 4,6 |
| UCF213 | 65 | 187 | 149 | 30 | 20 | 50 | 19 | 69,7 | 65,1 | 25,4 | M16 | 5,5 |
| UCF214 | 70 | 193 | 152 | 31 | 24 | 54 | 19 | 75,4 | 74,6 | 30,2 | M16 | 6,1 |
| UCF215 | 75 | 200 | 159 | 34 | 24 | 56 | 19 | 78,5 | 77,8 | 33,3 | M16 | 6,9 |
| UCF216 | 80 | 208 | 165 | 34 | 24 | 58 | 23 | 83,3 | 82,6 | 33,3 | M20 | 7,8 |
| UCF217 | 85 | 220 | 175 | 36 | 26 | 63 | 23 | 87,6 | 85,7 | 34,1 | M20 | 9,3 |
| UCF218 | 90 | 235 | 187 | 40 | 26 | 68 | 23 | 96,3 | 96 | 39,7 | M20 | 11,3 |
| UCF305 | 25 | 110 | 80 | 16 | 13 | 29 | 16 | 39 | 38 | 15 | M14 | 1,1 |
| UCF306 | 30 | 125 | 95 | 18 | 15 | 32 | 16 | 44 | 43 | 17 | M14 | 1,53 |
| UCF307 | 35 | 135 | 100 | 20 | 16 | 36 | 19 | 49 | 48 | 19 | M16 | 1,86 |
| UCF308 | 40 | 150 | 112 | 23 | 17 | 40 | 19 | 56 | 52 | 19 | M16 | 2,65 |
| UCF309 | 45 | 160 | 125 | 25 | 18 | 44 | 19 | 60 | 57 | 22 | M16 | 3,21 |
| UCF310 | 50 | 175 | 132 | 28 | 19 | 48 | 23 | 67 | 61 | 22 | M20 | 4,32 |
| UCF311 | 55 | 185 | 140 | 30 | 20 | 52 | 23 | 71 | 66 | 25 | M20 | 5,24 |
| UCF312 | 60 | 195 | 150 | 33 | 22 | 56 | 23 | 78 | 71 | 26 | M20 | 6,4 |
| UCF313 | 65 | 208 | 166 | 33 | 22 | 58 | 23 | 78 | 75 | 30 | M20 | 2,8 |
| UCF314 | 70 | 226 | 178 | 36 | 25 | 61 | 25 | 81 | 78 | 33 | M22 | 10,1 |
| UCF315 | 75 | 236 | 184 | 39 | 25 | 66 | 25 | 89 | 82 | 32 | M22 | 11,6 |
| UCF316 | 80 | 250 | 196 | 38 | 27 | 68 | 31 | 90 | 86 | 34 | M27 | 12,8 |
| UCF317 | 85 | 260 | 204 | 44 | 27 | 74 | 31 | 100 | 96 | 40 | M27 | 15,3 |
| UCF318 | 90 | 280 | 216 | 44 | 30 | 76 | 35 | 100 | 96 | 40 | M30 | 18,9 |



MOUNTED BEARING UNIT UCFL200 AND UCFL300 SERIES 2-BOLT FLANGED OVAL UNIT

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCFL200 I UCFL300

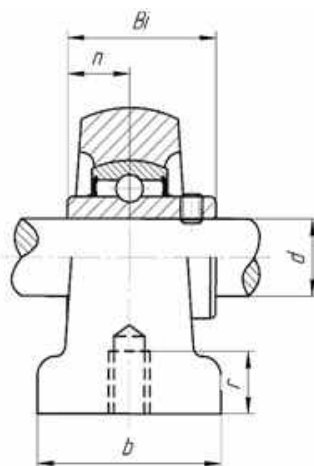
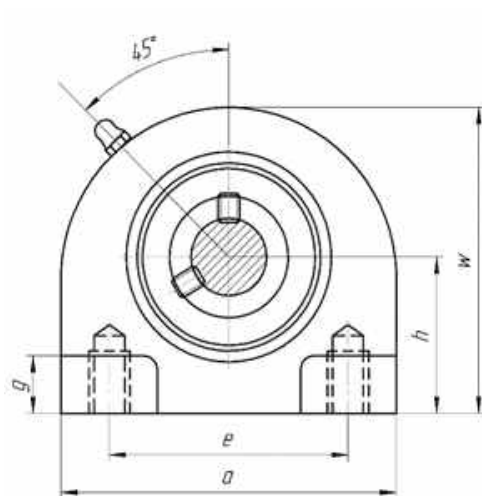


| DESIGNATION OZNACZENIA | DIMENSIONS, mm WYMIARY, mm | | | | | | | | | | | BOLT BOLT | WEIGHT, kg MASA, kg |
|---------------------------|-------------------------------|-----|-----|----|----|------|----|-----|------|------|-------|--------------|------------------------|
| | BBC-R | d | a | e | i | g | l | s | b | z | Bi | | |
| UCFL201 | 12 | 113 | 90 | 15 | 12 | 25,5 | 12 | 60 | 33,3 | 31 | 12,7 | M10 | 0,50 |
| UCFL202 | 15 | 113 | 90 | 15 | 12 | 25,5 | 12 | 60 | 33,3 | 31 | 12,7 | M10 | 0,48 |
| UCFL203 | 17 | 113 | 90 | 15 | 12 | 25,5 | 12 | 60 | 33,3 | 31 | 12,7 | M10 | 0,47 |
| UCFL204 | 20 | 113 | 90 | 15 | 12 | 25,5 | 12 | 60 | 33,3 | 31 | 12,7 | M10 | 0,45 |
| UCFL205 | 25 | 130 | 99 | 16 | 14 | 27 | 16 | 68 | 35,7 | 34 | 14,33 | M14 | 0,63 |
| UCFL206 | 30 | 148 | 117 | 18 | 14 | 31 | 16 | 80 | 40,2 | 38,1 | 15,9 | M14 | 0,96 |
| UCFL207 | 35 | 161 | 130 | 19 | 16 | 34 | 16 | 90 | 44,4 | 42,9 | 17,5 | M14 | 1,20 |
| UCFL208 | 40 | 175 | 144 | 21 | 16 | 36 | 16 | 100 | 51,2 | 49,2 | 19 | M14 | 1,60 |
| UCFL209 | 45 | 188 | 148 | 22 | 18 | 38 | 19 | 108 | 52,2 | 49,2 | 19 | M16 | 1,90 |
| UCFL210 | 50 | 197 | 157 | 22 | 18 | 40 | 19 | 115 | 54,6 | 51,6 | 19 | M16 | 2,20 |
| UCFL211 | 55 | 224 | 184 | 25 | 20 | 43 | 19 | 130 | 58,4 | 55,6 | 22,2 | M16 | 3,20 |
| UCFL212 | 60 | 250 | 202 | 29 | 20 | 48 | 23 | 140 | 68,7 | 65,1 | 25,4 | M20 | 4,10 |
| UCFL213 | 65 | 258 | 210 | 30 | 24 | 50 | 23 | 155 | 69,7 | 65,1 | 25,4 | M20 | 5,10 |
| UCFL214 | 70 | 265 | 216 | 31 | 24 | 54 | 23 | 160 | 75,4 | 74,6 | 30,2 | M20 | 6,00 |
| UCFL215 | 75 | 275 | 225 | 34 | 24 | 56 | 23 | 165 | 78,5 | 77,8 | 33,3 | M20 | 6,50 |
| UCFL216 | 80 | 290 | 233 | 34 | 24 | 58 | 25 | 180 | 83,3 | 82,6 | 33,3 | M22 | 8,00 |
| UCFL217 | 85 | 305 | 248 | 36 | 26 | 63 | 25 | 190 | 85,7 | 85,7 | 34,1 | M22 | 9,50 |
| UCFL218 | 90 | 320 | 265 | 40 | 26 | 68 | 25 | 205 | 96 | 96 | 39,7 | M22 | 11,90 |
| UCFL305 | 25 | 150 | 113 | 16 | 13 | 29 | 19 | 80 | 39 | 38 | 15 | M16 | 1,10 |
| UCFL306 | 30 | 180 | 134 | 18 | 15 | 32 | 23 | 90 | 44 | 43 | 17 | M20 | 1,50 |
| UCFL307 | 35 | 185 | 141 | 20 | 16 | 36 | 23 | 100 | 49 | 48 | 19 | M20 | 1,80 |
| UCFL308 | 40 | 200 | 158 | 23 | 17 | 40 | 23 | 112 | 56 | 52 | 19 | M20 | 2,40 |
| UCFL309 | 45 | 230 | 177 | 25 | 18 | 44 | 25 | 125 | 60 | 57 | 22 | M22 | 3,40 |
| UCFL310 | 50 | 240 | 187 | 28 | 19 | 48 | 25 | 140 | 67 | 61 | 22 | M22 | 4,30 |
| UCFL311 | 55 | 250 | 198 | 30 | 20 | 52 | 25 | 150 | 71 | 66 | 25 | M22 | 5,10 |
| UCFL312 | 60 | 270 | 212 | 33 | 22 | 56 | 31 | 160 | 78 | 71 | 26 | M27 | 6,20 |
| UCFL313 | 65 | 295 | 240 | 33 | 25 | 58 | 31 | 175 | 78 | 75 | 30 | M27 | 7,40 |
| UCFL314 | 70 | 315 | 250 | 36 | 28 | 61 | 35 | 185 | 81 | 78 | 33 | M30 | 9,00 |
| UCFL315 | 75 | 320 | 260 | 39 | 30 | 66 | 35 | 195 | 89 | 82 | 32 | M33 | 10,00 |
| UCFL316 | 80 | 355 | 285 | 38 | 32 | 68 | 38 | 210 | 90 | 86 | 34 | M33 | 12,60 |
| UCFL317 | 85 | 370 | 300 | 44 | 32 | 74 | 38 | 220 | 100 | 96 | 40 | M33 | 14,50 |
| UCFL318 | 90 | 385 | 315 | 44 | 36 | 76 | 38 | 235 | 100 | 96 | 40 | M33 | 17,10 |



Zespoły łożyskowe

Spherical ball bearing inserts and bearing units



MOUNTED BEARING UNIT UCPA200 SERIES PILLOW BLOCK

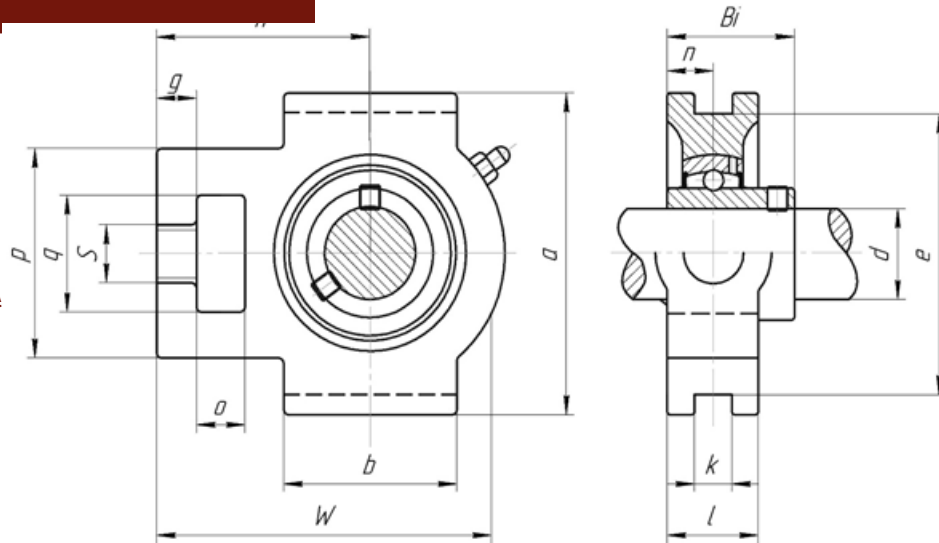
ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCPA200

| DESIGNATION OZNACZENIA | DIMENSIONS, mm WYMIARY, mm | | | | | | | | | | BOLT SRUBA | WEIGHT, kg MASA, kg |
|---------------------------|-------------------------------|------|-----|----|----|----|-----|-----|------|------|---------------|------------------------|
| | BBC-R | d | h | a | e | b | r | g | w | Bi | | |
| UCPA201 | 12 | 30.2 | 76 | 52 | 40 | 12 | 11 | 62 | 31 | 12.7 | M10x1,5 | 0.65 |
| UCPA202 | 15 | 30.2 | 76 | 52 | 40 | 12 | 11 | 62 | 31 | 12.7 | M10x1,5 | 0.63 |
| UCPA203 | 17 | 30.2 | 76 | 52 | 40 | 12 | 11 | 62 | 31 | 12.7 | M10x1,5 | 0.62 |
| UCPA204 | 20 | 30.2 | 76 | 52 | 40 | 12 | 1.1 | 62 | 31 | 12.7 | M10x1,5 | 0.6 |
| UCPA205 | 25 | 36.5 | 84 | 56 | 45 | 15 | 12 | 72 | 34 | 14.3 | M10x1,5 | 0.81 |
| UCPA206 | 30 | 42.9 | 94 | 66 | 50 | 18 | 12 | 84 | 38.1 | 15.9 | M14x2 | 1.2 |
| UCPA207 | 35 | 47.6 | 110 | 80 | 55 | 20 | 13 | 95 | 42.9 | 17.5 | M14x2 | 1.7 |
| UCPA208 | 40 | 49.2 | 116 | 84 | 58 | 20 | 13 | 100 | 49.2 | 19 | M14x2 | 1.9 |
| UCPA209 | 45 | 54.2 | 120 | 90 | 60 | 22 | 13 | 108 | 49.2 | 19 | M14x2 | 2.2 |
| UCPA210 | 50 | 57.2 | 130 | 94 | 64 | 25 | 14 | 116 | 51.6 | 19 | M16x2 | 2.6 |



MOUNTED BEARING UNIT
UCT200 AND UCT300 SERIES
TAKE-UP UNIT

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ
SERII UCT200 I UCT300

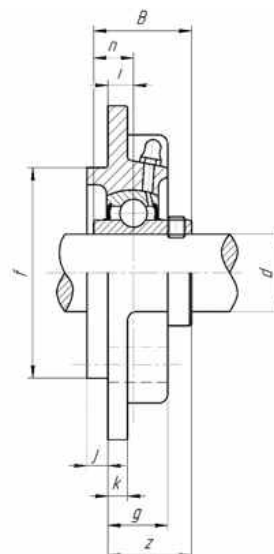
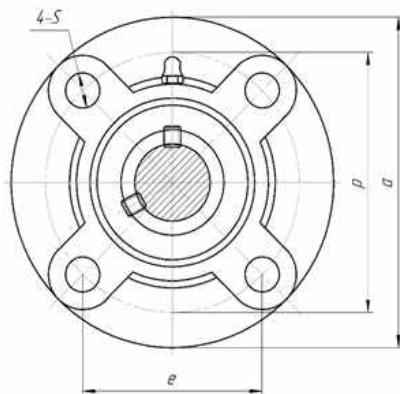


| DESIGNATION OZNACZENIA | DIMENSIONS, mm WYMIARY, mm | | | | | | | | | | | | | | | WEIGHT, kg MASA, kg |
|---------------------------|-------------------------------|----|----|-----|-----|----|------|----|-----|-----|-----|----|-----|------|-------|------------------------|
| | BBC-R | d | o | g | p | q | S | b | k | e | a | w | l | h | Bi, m | |
| UCT201 | 12 | 16 | 10 | 51 | 32 | 19 | 51 | 12 | 76 | 89 | 94 | 21 | 61 | 31 | 12,7 | 0,79 |
| UCT202 | 15 | 16 | 10 | 51 | 32 | 19 | 0,51 | 12 | 76 | 89 | 94 | 21 | 61 | 31 | 12,7 | 0,77 |
| UCT203 | 17 | 16 | 10 | 51 | 32 | 19 | 51 | 12 | 76 | 89 | 94 | 21 | 61 | 31 | 12,7 | 0,76 |
| UCT204 | 20 | 16 | 10 | 51 | 32 | 19 | 51 | 12 | 76 | 89 | 94 | 21 | 61 | 31 | 12,7 | 0,79 |
| UCT205 | 25 | 16 | 10 | 51 | 32 | 19 | 51 | 12 | 76 | 89 | 97 | 24 | 62 | 34 | 14,3 | 0,82 |
| UCT206 | 30 | 16 | 10 | 56 | 37 | 22 | 57 | 12 | 89 | 102 | 113 | 28 | 70 | 38,1 | 15,9 | 1,30 |
| UCT207 | 35 | 16 | 13 | 64 | 37 | 22 | 64 | 12 | 89 | 102 | 129 | 30 | 78 | 42,9 | 17,5 | 1,60 |
| UCT208 | 40 | 19 | 16 | 83 | 49 | 29 | 83 | 16 | 102 | 114 | 144 | 33 | 88 | 49,2 | 19 | 2,40 |
| UCT209 | 45 | 19 | 16 | 83 | 49 | 29 | 83 | 16 | 102 | 117 | 144 | 35 | 87 | 49,2 | 19 | 2,40 |
| UCT210 | 50 | 19 | 16 | 83 | 49 | 29 | 86 | 16 | 102 | 117 | 149 | 37 | 90 | 51,6 | 19 | 2,50 |
| UCT211 | 55 | 25 | 19 | 102 | 64 | 35 | 95 | 22 | 130 | 146 | 171 | 38 | 106 | 55,6 | 22,2 | 4,00 |
| UCT212 | 60 | 32 | 19 | 102 | 64 | 35 | 102 | 22 | 130 | 146 | 194 | 42 | 119 | 65,1 | 25,4 | 5,10 |
| UCT213 | 65 | 32 | 21 | 111 | 70 | 41 | 121 | 26 | 151 | 167 | 224 | 44 | 137 | 65,1 | 25,4 | 7,00 |
| UCT214 | 70 | 32 | 21 | 111 | 70 | 41 | 121 | 26 | 151 | 167 | 224 | 46 | 137 | 74,6 | 30,2 | 7,10 |
| UCT215 | 75 | 32 | 21 | 111 | 70 | 41 | 121 | 26 | 151 | 167 | 232 | 48 | 140 | 77,8 | 33,3 | 7,50 |
| UCT216 | 80 | 32 | 21 | 111 | 70 | 41 | 121 | 26 | 165 | 184 | 235 | 51 | 140 | 82,6 | 33,3 | 8,50 |
| UCT217 | 85 | 38 | 29 | 124 | 73 | 48 | 157 | 30 | 173 | 198 | 260 | 54 | 162 | 85,7 | 34,1 | 11,20 |
| UCT218 | 90 | 40 | 30 | 130 | 80 | 48 | 140 | 30 | 190 | 215 | 275 | 55 | 170 | 96 | 39,7 | 12,40 |
| UCT305 | 25 | 16 | 12 | 62 | 36 | 26 | 65 | 12 | 80 | 89 | 122 | 26 | 76 | 38 | 15 | 1,40 |
| UCT306 | 30 | 18 | 14 | 70 | 41 | 28 | 74 | 16 | 90 | 100 | 137 | 28 | 85 | 43 | 17 | 1,80 |
| UCT307 | 35 | 20 | 15 | 75 | 45 | 30 | 80 | 16 | 100 | 111 | 150 | 32 | 94 | 48 | 19 | 2,40 |
| UCT308 | 40 | 22 | 17 | 83 | 50 | 32 | 89 | 18 | 112 | 124 | 162 | 34 | 100 | 52 | 19 | 3,00 |
| UCT309 | 45 | 24 | 18 | 90 | 55 | 34 | 97 | 18 | 125 | 138 | 178 | 38 | 110 | 57 | 22 | 4,10 |
| UCT310 | 50 | 27 | 20 | 98 | 61 | 37 | 106 | 20 | 140 | 151 | 191 | 40 | 117 | 61 | 22 | 5,20 |
| UCT311 | 55 | 29 | 21 | 105 | 66 | 39 | 115 | 22 | 150 | 163 | 207 | 44 | 127 | 66 | 25 | 6,40 |
| UCT312 | 60 | 31 | 23 | 113 | 71 | 41 | 123 | 22 | 160 | 178 | 220 | 46 | 135 | 71 | 26 | 7,60 |
| UCT313 | 65 | 32 | 25 | 116 | 70 | 43 | 134 | 26 | 170 | 190 | 238 | 50 | 146 | 75 | 30 | 9,20 |
| UCT314 | 70 | 36 | 25 | 130 | 85 | 46 | 140 | 26 | 180 | 202 | 252 | 52 | 155 | 78 | 33 | 11,20 |
| UCT315 | 75 | 36 | 25 | 132 | 85 | 46 | 150 | 26 | 192 | 216 | 262 | 55 | 160 | 82 | 32 | 13,00 |
| UCT316 | 80 | 42 | 28 | 150 | 98 | 53 | 160 | 30 | 204 | 230 | 282 | 60 | 174 | 86 | 34 | 15,60 |
| UCT317 | 85 | 42 | 30 | 152 | 98 | 53 | 170 | 32 | 214 | 240 | 298 | 64 | 183 | 96 | 40 | 19,30 |
| UCT318 | 90 | 46 | 30 | 160 | 106 | 57 | 175 | 32 | 228 | 255 | 312 | 66 | 192 | 96 | 40 | 21,20 |

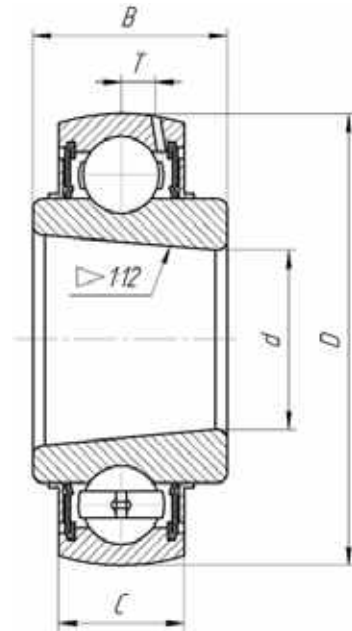


MOUNTED BEARING UNIT
UCFC200 SERIES 4-BOLT CARTRIDGE FLANGED UNIT

ZESPOŁY ŁOŻYSKOWE Z OPRAWĄ SERII UCFC200



| DESIGNATION OZNACZENIA | DIMENSIONS, mm WYMIARY, mm | | | | | | | | | | | | | BOLT ŚRUBA | WEIGHT, kg MASA, kg |
|---------------------------|-------------------------------|-----|-----|-------|----|----|----|----|------|-----|------|------|------|---------------|------------------------|
| | d | a | p | e | i | s | j | k | g | f | z | B | n | | |
| UCFC201 | 12 | 100 | 78 | 55,1 | 10 | 12 | 5 | 7 | 20,5 | 62 | 28,3 | 31 | 12,7 | M10 | 0,78 |
| UCFC202 | 15 | 100 | 78 | 55,1 | 10 | 12 | 5 | 7 | 20,5 | 62 | 28,3 | 31 | 12,7 | M10 | 0,78 |
| UCFC203 | 17 | 100 | 78 | 55,1 | 10 | 12 | 5 | 7 | 20,5 | 62 | 28,3 | 31 | 12,7 | M10 | 0,78 |
| UCFC204 | 20 | 100 | 78 | 55,1 | 10 | 12 | 5 | 7 | 20,5 | 62 | 28,3 | 31 | 12,7 | M10 | 0,78 |
| UCFC205 | 25 | 115 | 90 | 63,6 | 10 | 12 | 6 | 7 | 21 | 70 | 29,7 | 34,1 | 14,3 | M10 | 0,95 |
| UCFC206 | 30 | 125 | 100 | 70,7 | 10 | 12 | 8 | 8 | 23 | 80 | 32,2 | 38,1 | 15,9 | M10 | 1,4 |
| UCFC207 | 35 | 135 | 110 | 77,8 | 11 | 14 | 8 | 9 | 26 | 90 | 36,4 | 42,9 | 17,5 | M12 | 1,7 |
| UCFC208 | 40 | 145 | 120 | 84,8 | 11 | 14 | 10 | 9 | 26 | 100 | 41,2 | 49,2 | 19 | M12 | 2 |
| UCFC209 | 45 | 160 | 132 | 93,3 | 10 | 16 | 12 | 14 | 26 | 105 | 40,2 | 49,2 | 19 | M14 | 2,8 |
| UCFC210 | 50 | 165 | 138 | 97,6 | 10 | 16 | 12 | 14 | 28 | 110 | 42,6 | 51,6 | 19 | M14 | 3 |
| UCFC211 | 55 | 185 | 150 | 106,1 | 13 | 19 | 12 | 15 | 31 | 125 | 46,4 | 55,6 | 22,2 | M16 | 4 |
| UCFC212 | 60 | 195 | 160 | 113,1 | 17 | 19 | 12 | 15 | 36 | 135 | 56,7 | 65,1 | 25,4 | M16 | 4,7 |
| UCFC213 | 65 | 205 | 170 | 120,2 | 16 | 19 | 14 | 15 | 36 | 145 | 55,7 | 65,1 | 25,4 | M16 | 5,4 |
| UCFC214 | 70 | 215 | 177 | 125,1 | 17 | 19 | 14 | 18 | 40 | 150 | 61,4 | 74,6 | 30,2 | M16 | 6,8 |
| UCFC215 | 75 | 220 | 184 | 130,1 | 18 | 19 | 16 | 18 | 40 | 160 | 62,5 | 77,8 | 33,3 | M16 | 7,3 |
| UCFC216 | 80 | 240 | 200 | 141,4 | 18 | 23 | 16 | 18 | 42 | 170 | 67,3 | 82,6 | 33,3 | M20 | 8,9 |
| UCFC217 | 85 | 250 | 208 | 147,1 | 18 | 23 | 18 | 20 | 45 | 180 | 69,6 | 85,7 | 34,1 | M20 | 10,4 |
| UCFC218 | 90 | 265 | 220 | 155,5 | 22 | 23 | 18 | 20 | 50 | 190 | 78,3 | 96 | 39,7 | M20 | 13 |


**RADIAL INSERT BALL BEARINGS
UK200 AND UK300 SERIES**
**ŁOŻYSKA SAMONASTAWNE ZE SFERYCZNYM PIERŚCIENIEM
ZEWNĘTRZNYM I OTWOREM STOŻKOWYM**


| DESIGNATION OZNACZENIA | DIMENSIONS, mm WYMIARY, mm | | | | | WEIGHT, kg MASA, kg |
|---------------------------|-------------------------------|-----|----|------|------|------------------------|
| | BBC-R | d | D | B | C | |
| UK205 | 25 | 52 | 23 | 17 | 4,2 | 0,25 |
| UK206 | 30 | 62 | 26 | 19 | 5 | 0,37 |
| UK207 | 35 | 72 | 29 | 20 | 5,7 | 0,54 |
| UK208 | 40 | 80 | 31 | 21 | 6,2 | 0,7 |
| UK209 | 45 | 85 | 32 | 22 | 6,3 | 0,83 |
| UK210 | 50 | 90 | 34 | 24 | 6,5 | 0,98 |
| UK211 | 55 | 100 | 36 | 25 | 7 | 1,24 |
| UK212 | 60 | 110 | 40 | 27 | 7,4 | 1,58 |
| UK213 | 65 | 120 | 41 | 28 | 8,2 | 1,88 |
| UK215 | 70 | 130 | 32 | 44,5 | 8,5 | 2,62 |
| UK216 | 75 | 140 | 46 | 33 | 9,3 | 3,23 |
| UK217 | 80 | 150 | 48 | 35 | 10 | 3,9 |
| UK218 | 85 | 160 | 51 | 38 | 11 | 4,62 |
| UK305 | 25 | 62 | 26 | 20 | 5,4 | 0,4 |
| UK306 | 30 | 72 | 29 | 23 | 5,7 | 0,56 |
| UK307 | 35 | 80 | 33 | 25 | 6,2 | 0,72 |
| UK308 | 40 | 90 | 34 | 27 | 7 | 0,99 |
| UK309 | 45 | 100 | 37 | 29 | 7,8 | 1,29 |
| UK310 | 50 | 110 | 41 | 32 | 8,5 | 1,71 |
| UK311 | 55 | 120 | 44 | 34 | 9,2 | 2,08 |
| UK312 | 60 | 130 | 47 | 36 | 9,8 | 2,88 |
| UK313 | 65 | 140 | 49 | 39 | 10,5 | 3,1 |
| UK315 | 75 | 160 | 55 | 43 | 11,8 | 4,76 |
| UK316 | 80 | 170 | 58 | 45 | 12,5 | 5,51 |
| UK317 | 85 | 180 | 60 | 47 | 13,1 | 6,75 |
| UK318 | 90 | 190 | 64 | 49 | 13,8 | 7,62 |
| UK319 | 95 | 200 | 67 | 51 | 14,7 | 9,23 |
| UK320 | 100 | 215 | 73 | 55 | 15,7 | 10,85 |
| UK322 | 110 | 240 | 80 | 59 | 17,7 | 14,94 |
| UK324 | 120 | 260 | 86 | 63 | 19 | 19,29 |
| UK326 | 130 | 280 | 90 | 67 | 20 | 23,4 |
| UK328 | 140 | 300 | 95 | 71 | 22 | 29,45 |



LIFE IN MOTION|||||

BALTIC BEARING COMPANY-RIGA

PRZEDSTAWICIELSTWA

Latvia

Traleru 2C Str.,Riga, LV-1030

Phone:+ 371 660 525 20

Phone:+ 371 660 525 25

E-mail:sales@bbcr.eu

Poland

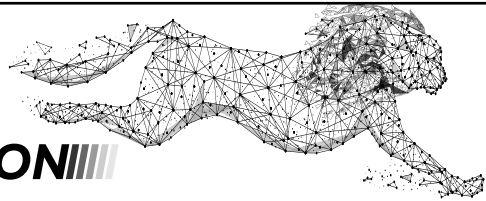
126 Traktorova Str., office 304

Lodz, 91-204

Phone: +48 42 206 74 79

Mob.: +48 507 446 680

E-mail:company.pl@bbcr.eu



LIFE IN MOTION////

BALTIC BEARING COMPANY-RIGA



® BBC-R is a trademark of BBC Group. © BBC Group 2021

The contents of this publication may not be reproduced (even extracts) unless permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained here in.

® BBC-R jest zarejestrowaną marką handlową BBC Group. © BBC Group 2021

Treść danej publikacji nie może być powielana (nawet częściowo) bez uprzedniej pisemnej zgody. Mimo podjęcia wszelkich środków dla zapewnienia dokładności informacji, zawartej w danej publikacji, wydawca nie ponosi odpowiedzialności za jakąkolwiek szkodę, pośrednią lub bezpośrednią, wynikającą z korzystania z danych informacji.