BNL Bearing Products

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A Global Innovator in Plastic Bearing Design & Manufacture

BNL is a world leading designer and manufacturer of high quality plastic bearings and assemblies. Our experience, accumulated knowledge and unique production methods result in a superior product that offers significant benefits over steel bearing equivalents, bushes and other plastic bearings. BNL is synonymous with innovation and high quality across the globe.

We employ dedicated and established teams in Engineering, Production and Sales, who possess unparalleled knowledge and experience of plastic bearing design and manufacture obtained over more than 40 years.

Our range includes:

- radial bearings - popular as a practical, and often preferable, alternative to steel bearings
- wheels - in a range of sizes and profiles
- pulleys - light, medium and heavy duty
- thrust races - from 6.6mm to 322.4mm
- conveyor bearings - in sizes suitable for the majority of lines

In addition to our range of standard products, we design and manufacture customised solutions using our expert understanding of plastic materials and bearing design. We provide engineered solutions to Original Equipment Manufacturers (OEMs) and market leading companies for applications from CCTV cameras to steering columns, from textile manufacturing machinery to mail handling equipment and from cash dispensing equipment to photocopiers.

Our Technology Centre, is focussed on developing our capabilities and continuous innovation in materials and technologies. This way we ensure we always offer cutting edge solutions and products, in turn keeping our customers ahead of their competition.

If you would like to know more about BNL's design expertise visit us at www.bnl-bearings.com/designexpertise

Contact us now for a competitive quotation: www.bnl-bearings.com/productquotation





Chosen By Engineers Worldwide

Our customer base includes some of the world's largest and well-known brands and our parts feature in globally respected products. The following industries and applications are some of those which have benefitted from BNL's bearing technology:

- Anemometers (wind measuring devices)
- Cash dispensing & handling equipment
- Automotive interiors and instrumentation
- Automotive steering column systems
- Liquid Crystal Display (LCD) manufacture
- Household appliances & white goods
- Mail handling and processing
- Material conveyors
- Medical equipment
- Packaging machines
- Photocopiers & printers
- Poultry & food processing
- Roof ventilation
- Rotating beacons
- Satellite antennae
- Security cameras
- Showers
- Swimming pool cleaners
- Textile machinery
- Ticketing machines/kiosks

Everyday we discover new ways in which our bearings can be used to improve customer applications. We love to hear of new uses for our technology. Please contact us if you believe you have an application that could benefit from using our plastic bearings and we will be happy to discuss a solution with you.

Contact us now for a competitive quotation: www.bnl-bearings.com/productquotation

Customer Focussed

BNL is renowned world-wide for its design and manufacture of high quality bearings. We strive to offer all of our customers the very best in terms of solutions, value and service.

World Class Manufacturing

Our customers benefit from two global manufacturing sites, one in the UK and the other in Thailand. Our moulding machines have a wide clamping force range and are complemented by twin-shot moulding machines for manufacturing bearings using multiple materials. For low volume bearing manufacture, we have high quality CNC machines suitable for small production runs. Our investment in the consistency of our assembly lines enables high quality levels to be maintained throughout the production of large volumes.

Employee Expertise and Experience

We employ highly-skilled staff in both the UK and Thailand, who manufacture products expertly with the support of precision equipment. We invest in our staff with continuous training and progression programmes, as well as recognising and rewarding their initiative and achievements individually and in teams.

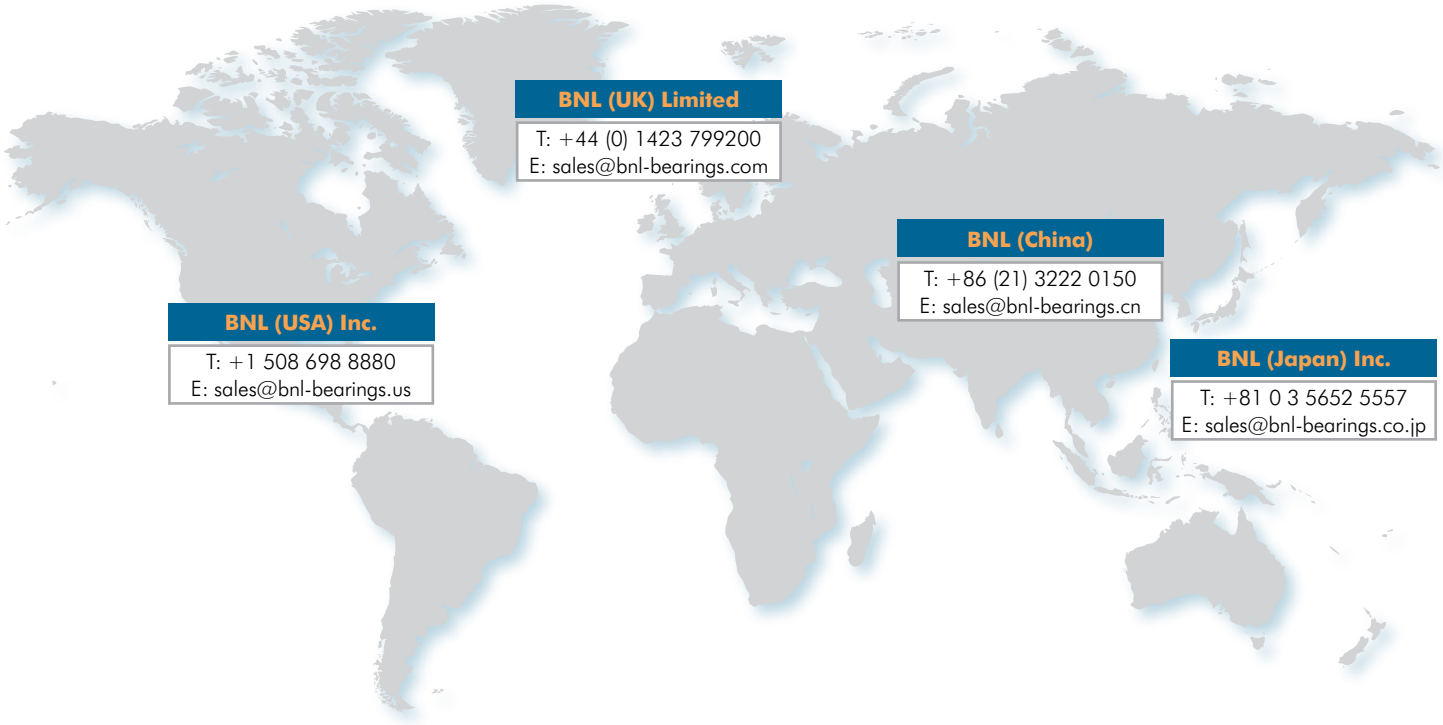
Quality, Environment and Health & Safety

BNL is ISO 9001:2008 and ISO/TS 16949:2009 accredited and it has become second nature to us to meet stringent quality requirements. We are also accredited to ISO 14001:2004, the international standard for environmental performance. We are extremely proud to have been awarded certification from our customers in recognition of our delivery times, high quality, environmental achievements, green procurement methods and chemical safety compliance.

Global Service and Support

We offer support to all of our customers through a network of offices across the globe, providing customer service, sales and engineering support in Europe, Japan, the USA and China.

Make BNL your first and only choice for high quality plastic bearings and experience first-hand the advantages we offer. For further information on our products and solutions please contact your nearest sales office as shown on the map below.



Contact us now for a competitive quotation: www.bnl-bearings.com/productquotation

Increase Your Performance and Efficiency

Plastic is becoming an increasingly popular alternative to metal in many industries. Our bearings harness the material properties of plastic and combine them with expert design and manufacturing techniques to offer the following benefits:

Contact us for more information on how our plastic bearings can save you time, money and increase your competitive advantage.

- Increased performance - our lightweight plastic bearings can be used in applications where decreased weight can increase performance and speed

- Chemical/Corrosion resistance - the performance of our bearings is not diminished by frequent wash-downs or exposure to chemicals giving them excellent wear rates, even in harsh environments

- Reduced energy usage - exhibiting low friction, BNL's plastic bearings will need less energy at start- up and in operation, lowering energy use and motor specifications

- Less maintenance - no need to replace lubricants and or change corroded bearings, our bearings will continue to perform without frequent maintenance

- Improved hygiene - our bearings do not need lubrication, eliminating contamination of other components or processed products by leaching lubricants

- Non-magnetic - completely metal-free options make BNL bearings ideal for applications where metal can distort magnetic resonance

- Low torque - Plastic bearings have an inertial torque that is less than 10% that of metal bearing

- Design flexibility - Injection-moulding techniques make it possible for the bearing function to be combined with other features such as clips, shafts and tyres, significantly broadening design possibilities.

Contact us now for a competitive quotation: www.bnl-bearings.com/productquotation

Material Choice

Made of thermoplastic materials, BNL bearings are all lightweight, have low inertia, are water-resistant, non-magnetic and need no lubrication. We use a range of materials to meet a variety of application requirements, from room temperature operation and immersion in water, to high operating temperatures and significant chemical exposure. Our most commonly used materials are below.

Acetal / Polyoxymethylene (POM)

Most of our products are made from Acetal. This is a widely used engineering plastic that is dimensionally stable when subjected to a range of loads, temperature fluctuation and fluids. It has excellent abrasion and fatigue resistance and low moisture absorption. It has a low co-efficient of friction delivering good long-term wear performance.

Polypropylene (PP)

Polypropylene offers excellent chemical resistance, especially to acids , alkalis and alcohol. It has good fatigue and impact resistance. It is also lighter than water and has low moisture absorption.

If you would like advice on the best bearing material for your application, please contact us and we will be happy to advise you.

	POM	PP
Temperature		
Min Service Temperature	-50°C	-10°C
Max Service Temperature	90°C	70°C
Chemical Resistance*		
Petrol	✔	
Brake Fluid	✔	✔
Diesel Fuel	✔	
Kerosene	✔	
Mineral Oil	✔	
Chlorine Water	✔	✔
Ozone		
Hydrochloric Acid		
Hydrofluoric Acid		✔
Sulphuric Acid		✔
Ammonia		✔
Sodium Hydroxide	✔	✔
Ammonium Hydroxide		✔
Methyl Alcohol (Methanol)	✔	✔
Ethyl Alcohol (Ethanol)	✔	✔
Acetone	✔	✔
Formaldehyde	✔	✔
Methyl Ethyl Ketone		
Sea Water	✔	✔
Distilled Water	✔	✔

*The above table is for guidance only. Resistance is affected by variation in the concentration of solution. All details based on operation at approx 23°C.

Material Choice

Polyetheretherketone (PEEK)
PEEK is a high performance engineering plastic that is resistant to a wide range of chemicals even at very high service temperatures.

Ultra High Molecular Weight Poly Ethylene (UHMWPE)
UHMWPE has good resistance to a range of chemicals, a very low co-efficient of friction and can operate effectively at low temperatures.

Both PEEK and UHMPWE are featured in our speciality bearing range for their ability to withstand the chemical baths and high temperature drying procedures used manufacturing in processes such as the etching process in Liquid Crystal Display (LCD) manufacture.

If you require bearings in any other materials or would like advice on the best bearing material for your application, please contact us and we will be happy to advise you.

	PEEK	UHMWPE
Temperature		
Min Service Temperature	-30°C	-40°C
Max Service Temperature	250°C	80°C
Chemical Resistance*		
Petrol		✔
Brake Fluid	✔	
Diesel Fuel	✔	✔
Kerosene		✔
Mineral Oil	✔	✔
Chlorine Water	✔	
Ozone	✔	✔
Hydrochloric Acid	✔	
Hydrofluoric Acid		
Sulphuric Acid	✔	✔
Ammonia	✔	
Sodium Hydroxide	✔	
Ammonium Hydroxide		✔
Methyl Alcohol (Methanol)		
Ethyl Alcohol (Ethanol)		✔
Acetone	✔	✔
Formaldehyde	✔	✔
Methyl Ethyl Ketone	✔	✔
Sea Water	✔	✔
Distilled Water	✔	✔

*The above table is for guidance only. Resistance is affected by variation in the concentration of solution. All details based on operation at approx 23°C.

Material Choice

Ball Materials

Our products are made with stainless steel balls as standard but there are some exceptions and options.

Information on the ball materials used in each product can be found on the specific product pages in this catalogue.

Our most popular ball options are:

Stainless steel - Stainless steel balls offer excellent corrosion resistance. We offer two types of stainless steel ball.

- The SS420 ball is resistant to steam, oil, alcohol, ammonia, and mildly acidic environments. It is magnetic.
- The SS316 ball has superior corrosion resistance to the SS420, withstanding acidic environments including sulphuric and nitric acid, photographic chemicals, bleach and solvents. It is non-magnetic.

Glass (Borosilicate) - Suitable for applications with highly corrosive environments or when excellent electrical insulation is needed. Borosilicate glass has a low co-efficient of thermal expansion (approx. 1/3 of ordinary glass) making it more resistant to stresses caused by temperature.

Carbon steel - Cost-effective, hard-wearing balls, for use in semi-precision and commercial applications such as conveyors, casters, drawer slides and trolleys. They have poor corrosion resistance to water and chemicals.

Our speciality bearings are also available with balls made of:

Zirconium oxide - An extremely tough ceramic, this material withstands extremely high temperatures and most chemicals. These balls are used in our speciality range of bearings for use in highly corrosive environments and high temperatures

Polyethylene - A cost-effective plastic ball, offering excellent abrasion resistance. Their very smooth surface prevents chemical build up on the balls. These balls are used in our speciality range of bearings because of their excellent chemical resistance.

For applications where other ball materials may be more suitable, we can suggest alternatives and provide prices on request. If you specifically require a certain ball material, please contact us for more information.

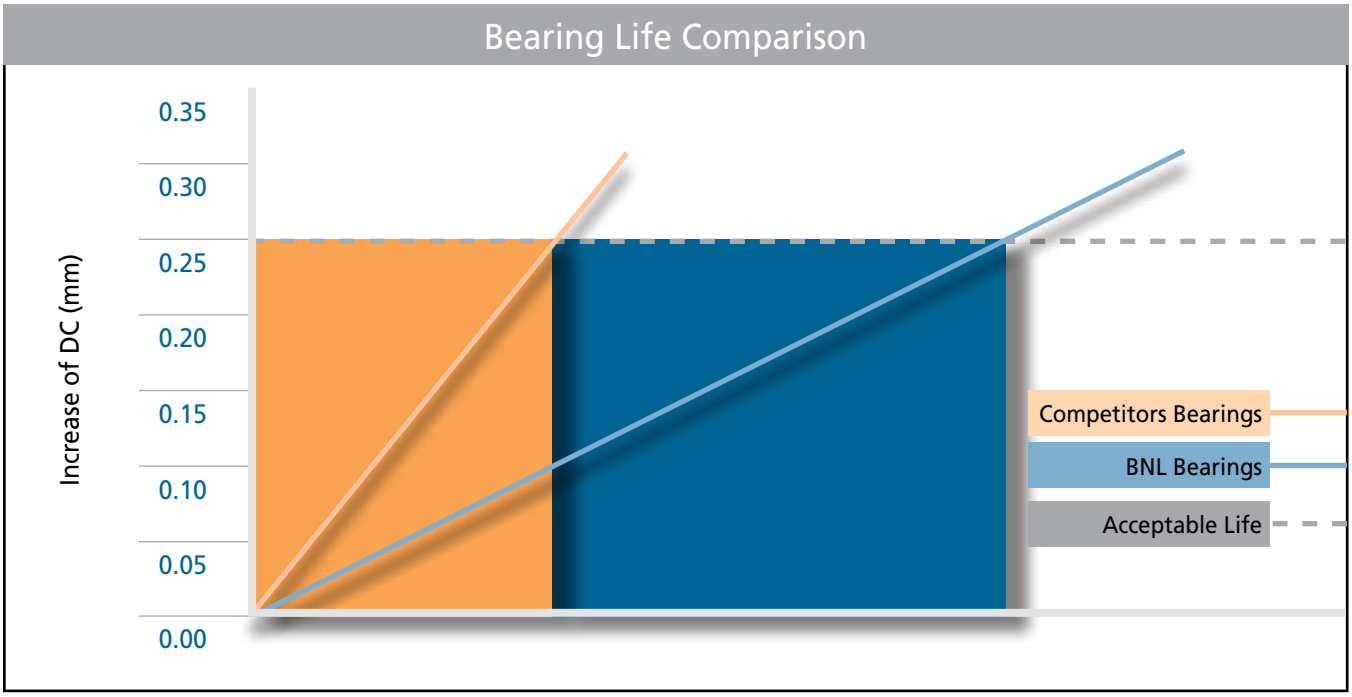
Bearing Life

We use our unique moulding techniques, careful material selection, decades of product knowledge and design expertise to manufacture bearings that outperform other plastic bearings on the market today.

We tested our bearings against our competitors' versions. The graph below shows the results of this test. BNL bearings and our competitors' bearings were both run in the same operating conditions and to the same number of revolutions ('Acceptable Life') and the levels of internal clearance (or DC) were measured. This measurement shows the different wear rates of the two types of bearing based on the change in internal clearance. In this test, BNL's bearings consistently outperformed the competition, lasting approximately three times longer before reaching the same level of internal clearance.

Different operating conditions and environments affect the life of a bearing. The bearings used in this test were identically loaded bearings, running at a constant speed and at room temperature. Fluctuations in conditions and combinations of these factors can all affect the wear rate and life of a bearing. The specific factors that can affect plastic bearing life are covered on the next page.

We are confident that we always offer our customers high quality, plastic bearings. We would be happy to discuss your requirements and provide you with a world-class bearing product to match the needs of your application.



Load, Speed and Environment

The life of a bearing is affected by its environment, the load it must carry, the speed it operates at, plus how much these vary across its service life. Plastic bearings are affected in different ways to metal bearings by these different conditions.

The diagram below shows the suitability of plastic bearings in situations where load, speed and environment are all factors. Each factor is shown as a different coloured circle. Where they intersect the operating conditions include more than one factor, for example, an environment where harsh chemicals are used and there is a high load on the bearing. The suitability of a bearing when exposed to one or more factor is shown as 'High', 'Medium' or 'Low' on the diagram.

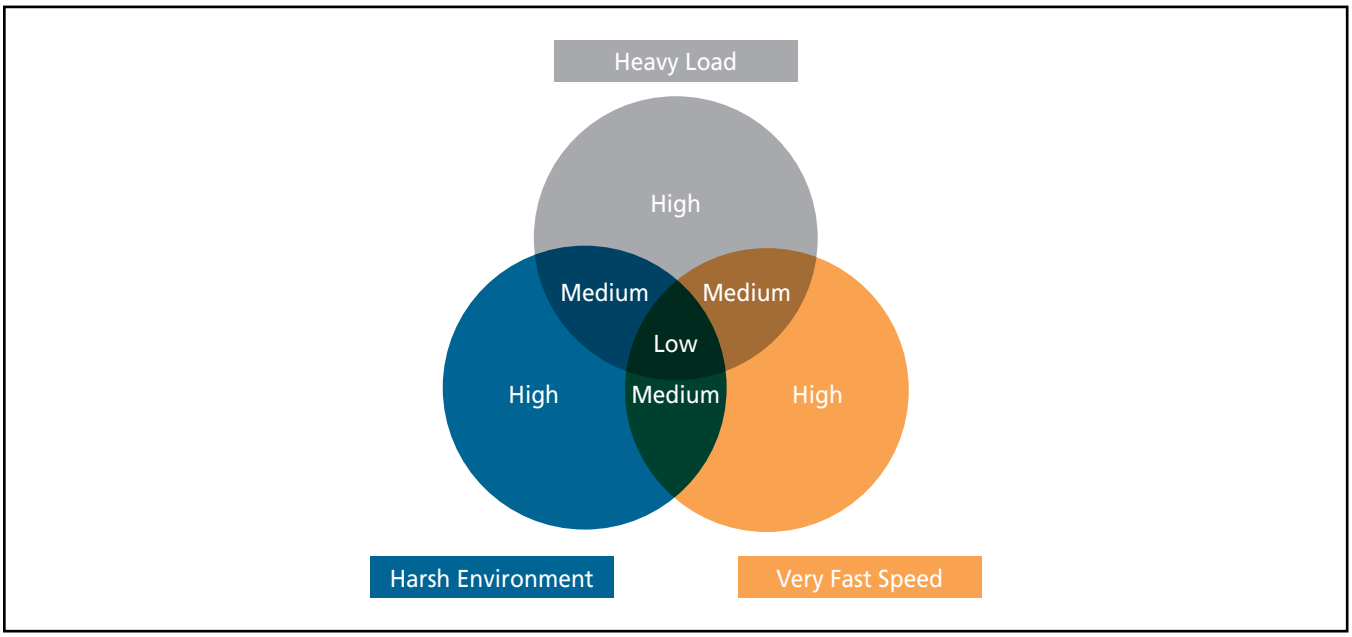
High: High Suitability. Under this single condition a plastic bearing will operate efficiently and achieve a good life.

Medium: Medium Suitability. Under this combination of conditions a plastic bearing will operate efficiently but the wear rates will be higher and the bearing life less certain.

Low: Low Suitability. This combination of factors will affect both efficiency and life.

A plastic bearing can carry heavy loads, reach high speeds and is suitable for many specialist and severe environments. However, as shown in the diagram, if an application is exposed to more than one of these factors, the potential life of the bearing can be affected. In these instances we are happy to discuss your requirements and recommend a solution. Many application requirements can be met by carefully choosing an appropriate material and product for the purpose.

If you have any questions on the life and wear rates of our products please contact us.



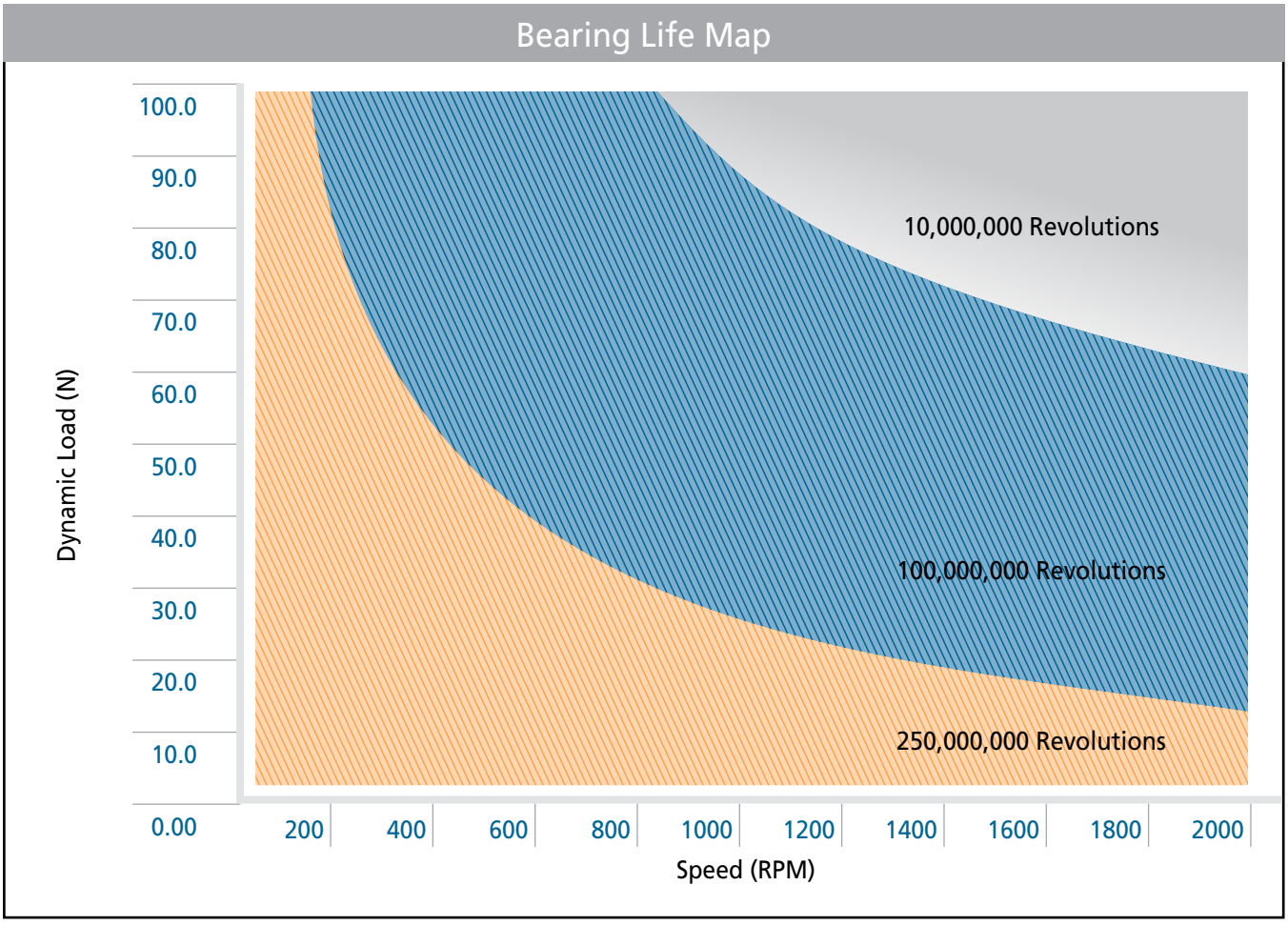
Bearing Life Map

Below is a Bearing Life Map. This helpful guide can be used to find out the average life of a BNL bearing if you know the required speed of operation and load for your application.

On the vertical axis is the Load range in Newtons (N). On the horizontal axis you will find a range of Speeds from 0 to 2000 Revolutions per Minute (RPM). The coloured blocks within the graph show the approximate number of revolutions a BNL bearing will achieve at the referenced speed and load. For example, at a load of 60N and at a speed of 1000RPM, the point where these two intersect falls within the block of colour labelled '100,000,000 revolutions', indicating that for this load and speed requirement, the bearing will have an approximate life of 100,000,000 revolutions.

Please remember that this is a guide and that the actual life of a bearing will be affected by the environment in which the bearing is operating and the type of bearing used (for example, full complement bearings can often take a higher load at a lower speed).

For more detailed information on the suitability of our bearings under particular loads, speeds and within specific operating environments please contact us.



* The above graph is for guidance only. Please contact us if you require more detailed information on the life of our products. Results are based on a radial bearing running at 23°C.

Contact us now for a competitive quotation: www.bnl-bearings.com/productquotation

RADIAL BEARINGS

As the most commonly used bearings, radial bearings keep machinery and products moving in industries the world over.

BNL's plastic radial bearings are popular alternatives to steel that:

- Require less energy to operate
- Are lightweight and low friction
- Withstand chemical and corrosive environments
- Do not need lubricants
- Withstand magnetic and electrical interference

Our product range includes full complement bearings, miniature bearings with flanges, keyways and shields. All our radial bearings are made in Acetal with stainless steel balls. They are also available in other materials such as Polypropylene, or with glass balls.

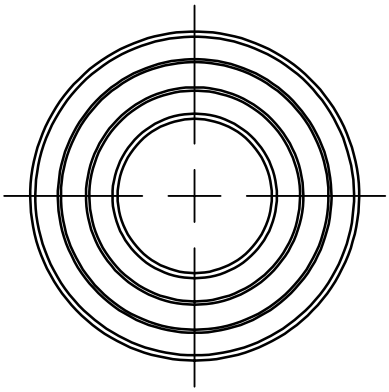
For radial bearings that need to withstand high temperatures and exposure to harsh chemical environments, please see our Speciality Bearing section, which contains bearings made from UHMWPE or PEEK and with ceramic, glass or Polyethylene balls.

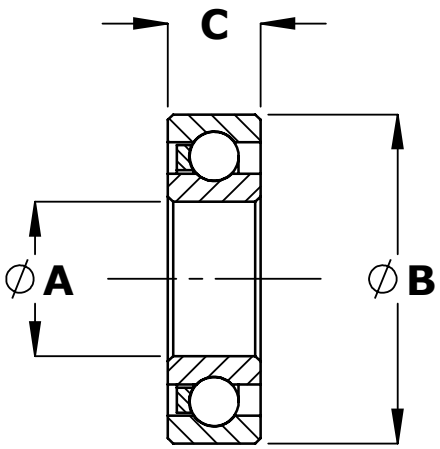
If you require a specific material combination or you need advice on which type of bearing would be best for your application, please contact us.

Radial Bearings (Metric sizes)

Acetal races fitted with stainless steel balls as standard. Please contact us for other material options.

All dimensions are in mm.



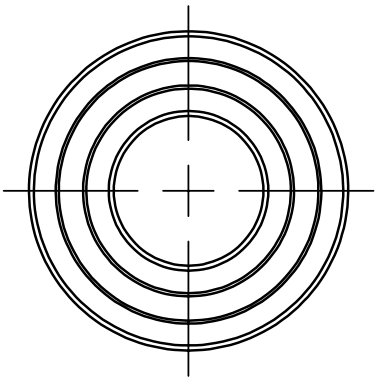


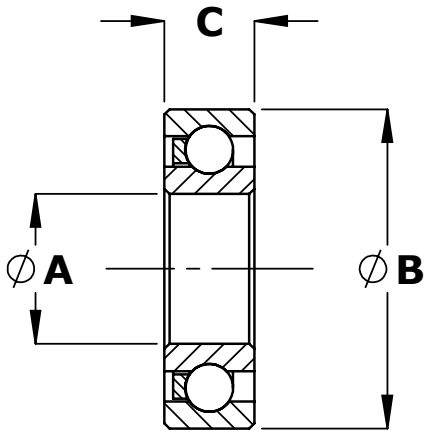
BNL Part No.	Ball Size	No. of Balls	A	B	C	Static Load Rating (kg)	Dynamic Load Rating (kg)
CM624	3/32	6	4.00	13.00	5.00	2.50	6.00
CM625	3/32	8	5.00	16.00	5.00	3.00	8.00
CM626	5/32	6	6.00	19.00	6.00	6.50	16.50
CM627	5/32	7	7.00	22.00	7.00	7.50	19.00
CM606	1/8	7	6.00	17.00	6.00	5.00	12.00
CM628	5/32	7	8.00	24.00	8.00	7.50	19.00
CM629	3/16	7	9.00	26.00	8.00	11.00	27.50
CM635	5/32	6	5.00	19.00	6.00	6.50	16.50
CM634	3/32	8	4.00	16.00	5.00	3.00	8.00
CM608	5/32	7	8.00	22.00	7.00	7.50	19.00
CM618\6	1.5mm	8	6.00	13.00	3.50	1.25	3.00
CM607	1/8	8	7.00	19.00	6.00	5.50	14.00
CM618\8	2.0mm	9	8.00	16.00	4.00	2.50	6.00
CM609	5/32	7	9.00	24.00	7.00	7.50	19.00
CM618\9	3/32	9	9.00	17.00	4.00	3.50	8.50
CM6000	5/32	7	10.00	26.00	8.00	7.50	19.00
CM16100	3/16	8	10.00	28.00	8.00	12.50	31.50
CM6200	3/16	8	10.00	30.00	9.00	12.00	30.00
CM6300	3/16	8	10.00	35.00	11.00	12.00	30.00
CM6001	3/16	8	12.00	28.00	8.00	12.50	31.50
CM16101	3/16	8	12.00	30.00	8.00	12.50	31.50
CM6201	3/16	8	12.00	32.00	10.00	12.50	31.50
CM6301	1/4	8	12.00	37.00	12.00	23.00	55.00
CM6002	3/16	8	15.00	32.00	9.00	12.50	31.50
CM6202	1/4	8	15.00	35.00	11.00	23.00	55.00
CM16002	3/16	8	15.00	32.00	8.00	12.50	31.50
CM6003	3/16	9	17.00	35.00	10.00	14.50	35.00
CM6203	1/4	8	17.00	40.00	12.00	23.00	55.00
CM16003	3/16	9	17.00	35.00	8.00	14.50	35.00
CM6004	1/4	9	20.00	42.00	12.00	25.00	63.00
CM6204	5/16	8	20.00	47.00	14.00	35.00	75.00
CM6005	1/4	10	25.00	47.00	12.00	28.00	70.00
CM6205	1/4	10	25.00	52.00	15.00	28.00	65.00
CM16005	1/4	10	25.00	47.00	8.00	28.00	70.00

Radial Bearings (Imperial sizes)

Acetal races fitted with stainless steel balls as standard. Please contact us for other material options.

All dimensions are in inches.



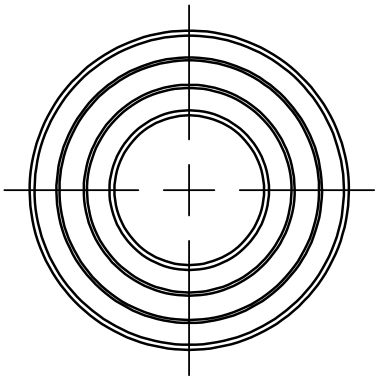


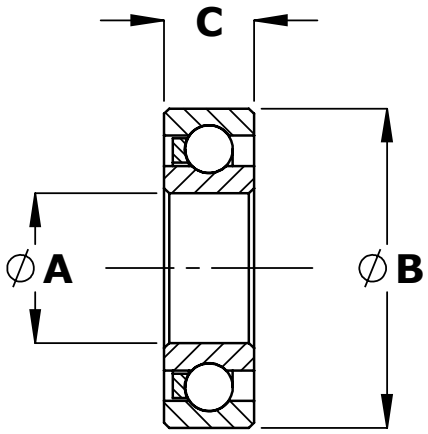
BNL Part No.	Ball Size	No. of Balls	A	B	C	Static Load Rating (kg)	Dynamic Load Rating (kg)
CMR3	3/32	6	3/16	1/2	5/32	2.50	6.00
CMR3A	3/32	9	3/16	5/8	0.196	3.50	8.50
CMR4	3/32	9	1/4	5/8	0.196	3.50	8.50
CMR4A	1/8	7	1/4	3/4	7/32	5.00	12.00
CM4	5/32	6	1/4	3/4	9/32	6.00	17.00
CMEE3	5/32	7	3/8	7/8	7/32	7.50	19.00
CMR6A	5/32	8	3/8	7/8	9/32	9.00	22.00
CM3/8x11/8x3/8	3/16	8	3/8	1 1/8	3/8	12.00	30.00
CMEE4	3/16	8	1/2	1 1/8	1/4	12.50	31.50
CMR8A	3/16	8	1/2	1 1/8	3/8	12.50	31.50
CM8	1/4	8	1/2	1 3/8	7/16	23.00	55.00
CMR10	1/4	8	5/8	1 3/8	11/32	22.00	56.00
CMR10A	3/16	9	5/8	1 3/8	3/8	14.50	35.00
CM10	1/4	8	5/8	1 3/8	7/16	22.00	56.00
CMR12	3/16	12	3/4	1 5/8	5/16	19.00	47.50
CMR12A	1/4	9	3/4	1 5/8	7/16	25.00	63.00
CMR16	1/4	10	1	2	1/2	28.00	70.00

Radial Bearings (Metric - Miniature)

Acetal races fitted with stainless steel balls as standard. Please contact us for other material options.

All dimensions are in mm.





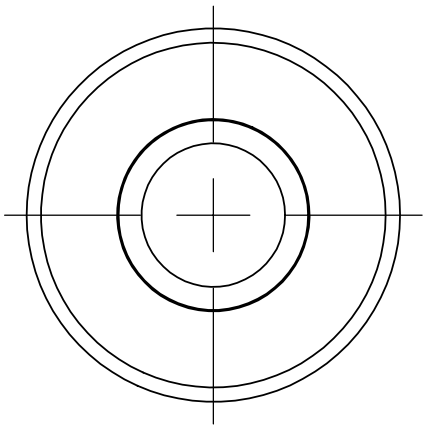
BNL Part No.	Ball Size	No. of Balls	A	B	C	Static Load Rating (kg)	Dynamic Load Rating (kg)
AC686ZZ	1.5mm	8	6.00	13.00	5.00	1.25	3.00
AC686FZZ	1.5mm	8	6.00	13.00	5.00	1.25	3.00
AC686FZZK	1.5mm	8	6.00	13.00	5.00	1.25	3.00
AC626Z	1/8	7	6.00	19.00	6.00	5.00	12.00
AC636ZZ	5/32	7	6.00	22.00	7.00	7.50	19.00
AC6M12	1.5mm	8	6.00	12.00	4.00	1.25	3.00
AC688ZZ	2.0mm	9	8.00	16.00	5.00	2.50	6.00
AC688ZZF	2.0mm	9	8.00	16.00	5.00	2.50	6.00
AC608Z	5/32	7	8.00	22.00	7.00	7.50	19.00
AC608ZF	5/32	7	8.00	22.00	7.00	7.50	19.00

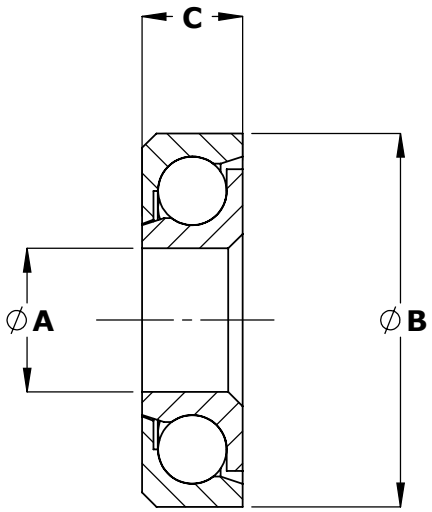
Z = Shield
ZZ = Double Shield
F = Flanged
K= Keyway

Radial Bearings (Metric - Full Complement)

Acetal races fitted with stainless steel balls as standard. Please contact us for other material options.

All dimensions are in mm.





BNL Part No.	Ball Size	No. of Balls	A	B	C	Static Load Rating (kg)	Dynamic Load Rating (kg)
AF47MW127MT	3/32	11	4.70	12.70	4.00	4.00	12.00
AF4MW30	5/32	13	4.20	30.00	9.50	14.00	35.00
AF6200	3/16	13	10.00	30.00	9.00	20.00	50.00
AF16002	3/16	15	16.00	32.00	8.00	24.00	57.00
MF6305	3/8	15	25.00	62.00	17.00	85.00	170.00

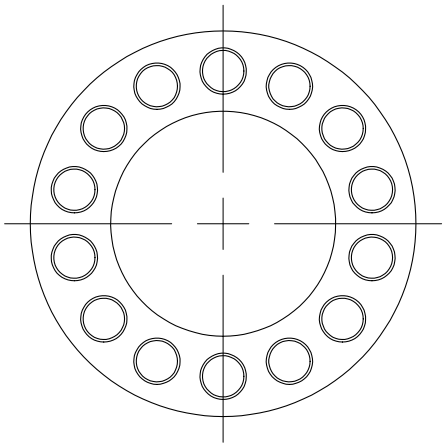
THRUST RACE BEARINGS

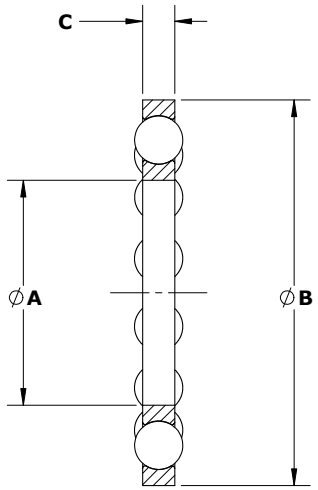
Designed to bear a purely axial load (a load that is at 90 degrees to the shaft it is mounted to), these bearings are most suited to applications that have a steady rotation rather than a high speed spin. The loads these bearings can take are dependent on the crush load of the ball and whether the part will be used with or without a washer. For advice on dynamic or static loads for our thrust race bearings please contact us.

All our thrust race bearings are made from Acetal with carbon or stainless steel balls. Please contact us for other material options or if you require a specific material combination for your application.

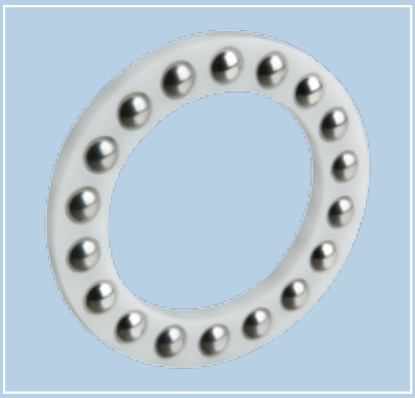
THRUST RACE BEARINGS

Acetal races fitted Carbon or Stainless steel balls as standard. Please contact us for other material options.





All dimensions are in mm.



BNL Part No.	Ball Size	No. of Balls	A	B	C
FT4	3/32	8	6.60	14.24	1.52
FT8M	5/32	7	8.00	21.97	2.54
FT8.5	3/16	5	8.00	21.80	2.50
FT10M	5/32	7	10.13	22.00	2.54
FT7/8	3/16	14	23.11	37.95	3.00
51105M	7/32	13	27.43	41.02	3.18
51108	9/32	18	41.28	59.44	4.57
51111	8.0 mm	20	57.50	77.80	5.90
FT320	7/16	30	322.40	359.00	3.58

Load ratings are dependent on the crush load of the balls used. Please contact us if you need more information.

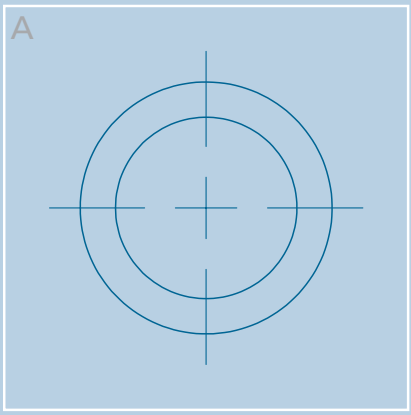
TWO-BOLT FLANGED BEARINGS

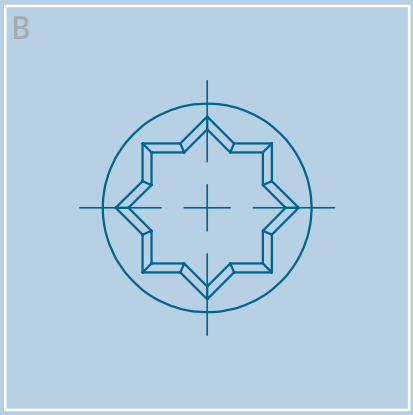


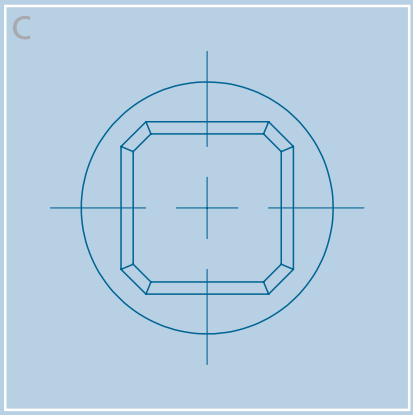


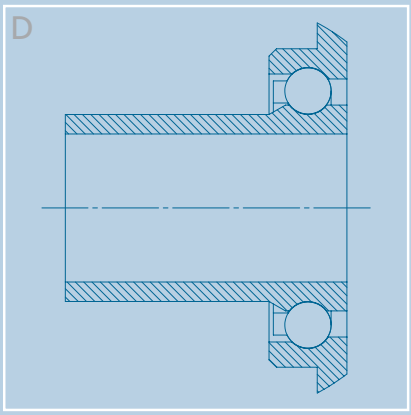
Used to support shafts in a vast range of industries and applications, BNL's plastic version of this widely utilised product will handle loads up to 95kg. All parts are made with Acetal and have stainless steel balls as standard.

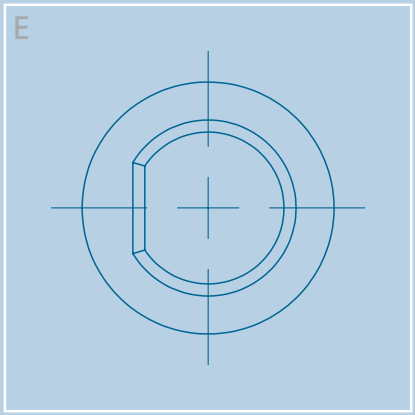
Made to fit a variety of shaft shapes, our parts have different bores to fit different requirements. **Please use the guide below to select the correct bore type for your product.**









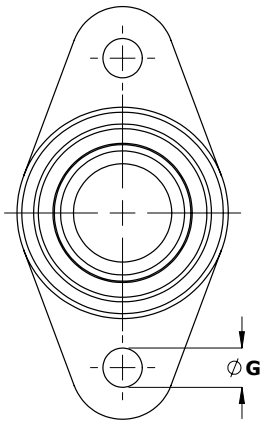


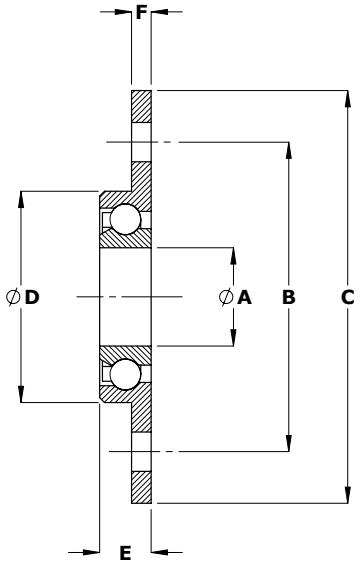
Contact us now for a competitive quotation: www.bnl-bearings.com/productquotation

TWO-BOLT FLANGED BEARINGS

Acetal bearings with stainless steel balls as standard. Please contact us for other material options.

All dimensions are in mm.



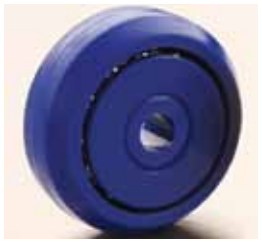


BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	F	G	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Bore
SFT6	1/8	7	6.00	20.75	27.00	16.00	6.00	4.00	2.50	5.00	12.00	**A**
SFT10	3/16	8	10.00	40.00	50.00	31.80	9.90	4.80	5.25	12.00	30.00	**A**
SFT125EXW	3/16	8	11.82	40.00	50.00	31.90	9.90	4.75	5.00	12.00	30.00	**D/E**
SFT125FP	3/16	8	11.84/12.55	40.00	50.00	31.80	9.90	4.75	5.00	12.00	30.00	**E**
SFT12M	3/16	8	12.00	47.00	63.50	31.00	8.25	3.30	6.70	12.00	30.00	**A**
SFT12S	3/16	8	12.25/15.25	40.00	50.00	31.80	9.90	4.80	5.25	12.00	30.00	**C**
SFT13S	3/16	24	13.08	60.00	78.00	42.00	16.00	5.00	6.60	38.00	95.00	**B**
SFT15	3/16	8	15.00	40.00	50.00	31.80	9.90	4.80	5.25	12.00	30.00	**A**
SFT16S	3/16	24	16.20	60.00	78.00	42.00	16.00	5.00	6.50	38.00	95.00	**B**
SFT20	1/4	9	20.00	63.00	84.00	43.00	10.50	4.00	8.00	25.00	64.00	**A**
SFT19S	3/16	24	20.50	60.00	78.00	42.00	16.00	5.00	6.50	38.00	95.00	**B**
SFT22EXW	1/4	9	22.23	63.00	84.00	43.00	12.85	4.00	8.00	25.00	64.00	**A**

WHEELS & POULTRY WHEELS







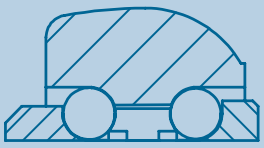

Our high quality wheels are suitable for a wide range of applications which require durability and reliability and are especially popular for food processing and overhead conveyor applications. They have been used for decades by the world's leading poultry processing equipment manufacturers to ensure high performance and consistent productivity.

Our range includes wheels suitable for use in most leading poultry processing systems, including X348, T-Track and pipe track systems. Our wheels are made of Acetal with stainless steel balls.

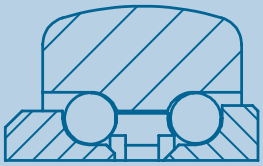
Due to their wide application, our wheels are made with different combinations of bores and profiles. **Please use our guide below to identify the correct profile and bore for your product.**

PROFILES

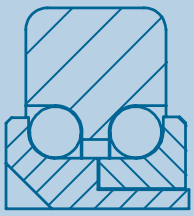
P1



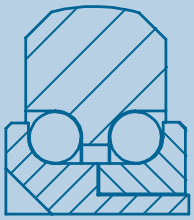
P2



P3

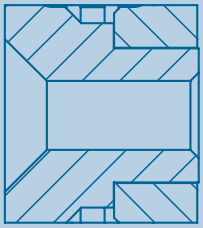


P4

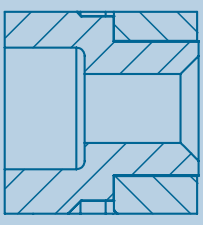


BORES

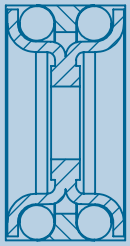
B1



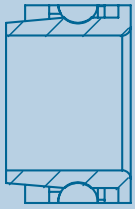
B2



B3



B4

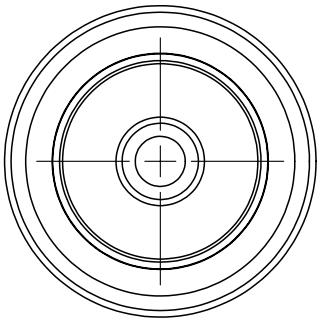


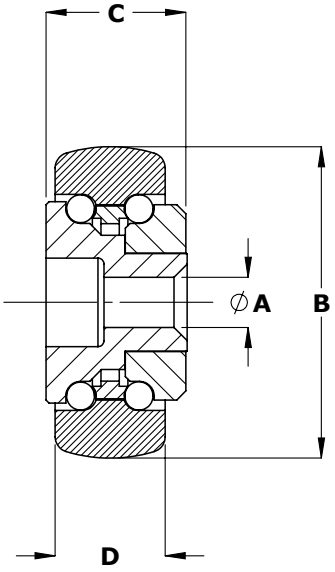
Contact us now for a competitive quotation: www.bnl-bearings.com/productquotation

WHEELS & POULTRY WHEELS

Acetal bearings with stainless steel balls as standard. Please contact us for other ball material options.

All dimensions are in mm.

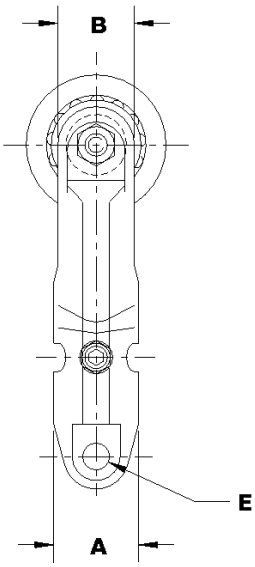


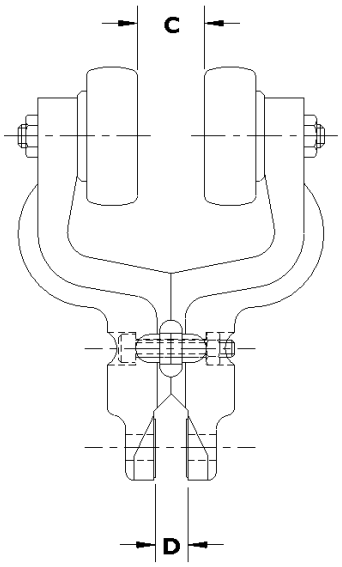


BNL Part No	Ball Size	No. of Balls	A	B	C	D	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Profile	Bore
AF6MDW31SHC	1/8	32	6.10	31.00	10.00	6.50	22.00	55.00	**P1**	**B2**
AF6MDW31SH	1/8	32	6.10	31.30	11.00	6.50	22.00	55.00	**P3**	**B2**
AF8MDW37	5/32	34	8.10	37.00	11.90	11.40	37.00	90.00	**P4**	**B1**
AC82MDW490PW	3/16	26	8.20	49.00	22.00	18.10	40.00	100.00	**P2**	**B1**
AC82MDW495	3/16	26	8.20	49.75	19.00	18.00	40.00	100.00	**P1**	**B1**
AF5DWSGCSK	3/16	32	8.20	47.50	16.60	12.83	40.00	100.00	**P3**	**B1**
AF8MDWL	3/16	32	8.20	49.00	16.60	12.82	50.00	120.00	**P4**	**B1**
AF8MDWLSY	3/16	32	8.20	49.15	16.60	12.82	50.00	120.00	**P4**	**B1**
AC82MDW474CSK	3/16	26	8.20	47.60	19.00	18.20	40.00	100.00	**P4**	**B1**
AF8MDWSTD	3/16	32	8.38	51.30	19.35	16.00	50.00	120.00	**P3**	**B1**
AC82MDW48PWCC	3/16	26	8.40	47.60	22.00	18.20	40.00	100.00	**P4**	**B2**
AC82MDW490SH	3/16	26	8.50	49.00	22.00	18.10	40.00	100.00	**P2**	**B2**
ACH82MDW49PW	3/16	26	8.50	49.00	22.00	18.10	40.00	100.00	**P2**	**B2**
AF8MDWZ	3/16	32	8.60	47.80	22.50	15.55	50.00	120.00	**P3**	**B1**
AF6DWM	3/16	32	9.60	45.20	16.90	15.00	50.00	120.00	**P3**	**B4**
D5487	3/16	34	9.60	50.90	15.50	15.80	56.00	130.00	**P4**	**B3**
AF6DWGJS	3/16	32	9.70	50.90	16.60	15.80	50.00	120.00	**P4**	**B1**
D5165	3/16	34	9.70	50.90	--	15.80	56.00	130.00	**P4**	**B3**
AC115MDW584SH	1/4	26	11.50	58.40	22.40	20.00	70.00	175.00	**P2**	**B2**
AC16M40Z	3/16	8	16.00	40.00	15.00	12.57	12.00	30.00	**P1**	**B4**

OVERHEAD CONVEYOR ASSEMBLY

Uses 2x AC82MDW490PW wheels in Acetal with stainless steel balls as standard.





All dimensions are in mm.

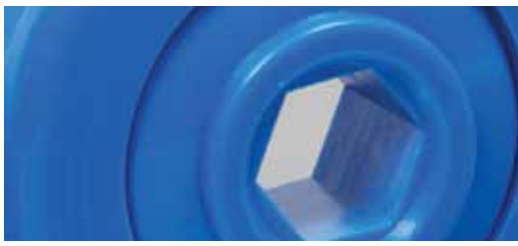
BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	Static Load Rating (Kg)	Dynamic Load Rating (Kg)
D5261 Yoke Assembly	As per wheel		29.50	27.00	16.00	8.75	8.90	As per wheel	

* Wheel used is an AC82MDW490PW. Please see previous page for details.

CONVEYOR SYSTEM BEARINGS







Our range of high quality conveyor system bearings regularly outperform both steel and alternative plastic solutions - which is why the leading global manufacturers of production and processing machinery from food processing to material conveying choose BNL products.

Our conveyor system bearings include:

- Skate Wheels
- Sealed End Caps
- End Caps with hexagonal bores
- End Caps with round bores

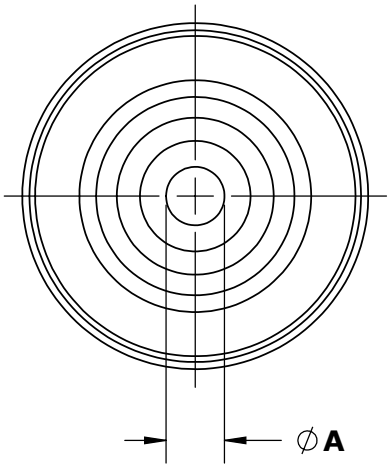
We are a leading supplier of wheels for overhead conveyor systems and our comprehensive range can be found in the section, **Wheels & Poultry Wheels.**

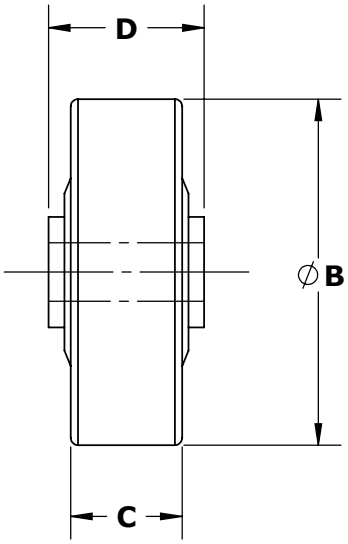
For conveyor products that can withstand very high temperatures and harsh chemicals, please see our **Speciality Bearings** section, which lists products made from materials especially selected for these environments.

CONVEYOR BEARINGS (Skate Wheels)

Acetal bearings with stainless steel or carbon steel balls. Please contact us for other material options.

All dimensions are in mm.



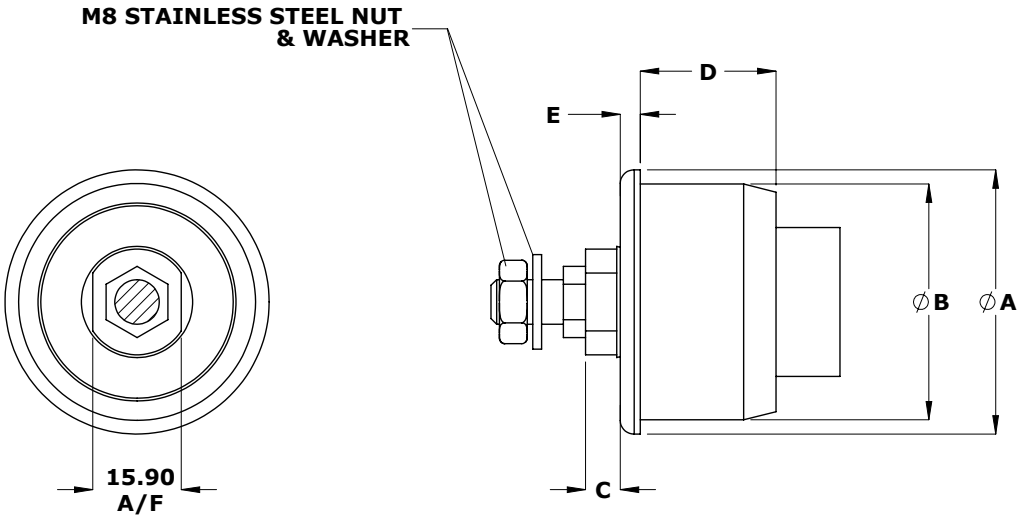


BNL Part No	Ball Size	No. of Balls	A	B	C	D	Static Load Rating (Kg)	Dynamic Load Rating (Kg)
SW65	5/32	7	6.60	48.90	16.15	23.50	7.00	19.00
SW8	5/32	7	8.50	48.90	16.15	23.50	7.00	19.00
SW10	5/32	7	10.20	48.90	16.15	23.50	7.00	19.00
DA65	3/16	16	6.60	48.50	15.70	20.90	25.00	65.00
DA8	3/16	16	8.43	48.50	15.74	20.95	25.00	65.00
DA8X	3/16	16	8.19	48.50	15.74	23.62	25.00	65.00

CONVEYOR BEARINGS (Sealed End Caps)

Acetal bearings with stainless steel balls as standard. Includes a spring loaded stud and stainless steel M8 nut and washer.

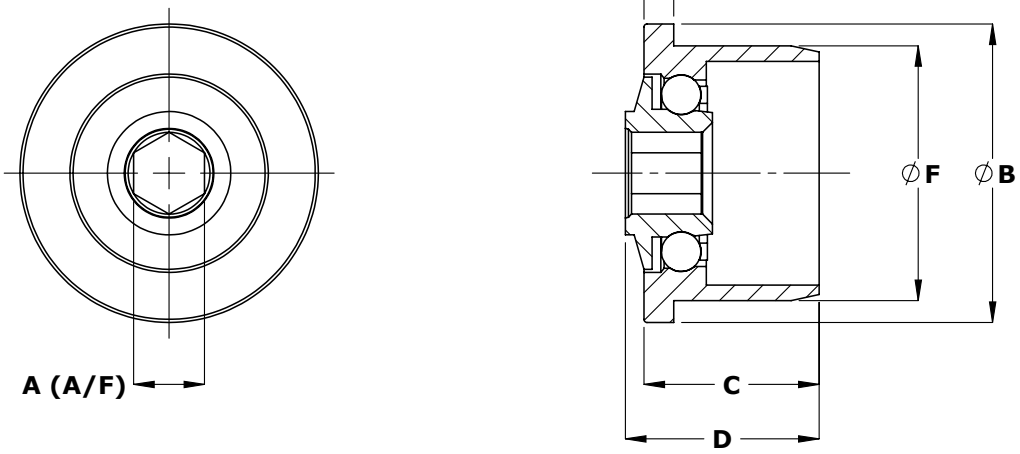
All dimensions are in mm.



BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	Static Load Rating (Kg)	Dynamic Load Rating (Kg)
D2077	1/4	8	47.00	40.95	6.60	24.50	4.00	23.00	55.00
D5005	1/4	8	47.50	42.35	6.60	24.50	4.00	23.00	55.00
D5041	1/4	8	48.00	27.00	7.40	24.50	4.00	23.00	55.00
D5468	1/4	8	48.00	27.00	7.40	24.50	4.00	23.00	55.00
D5008	1/4	8	48.30	41.35	6.60	25.00	4.00	23.00	55.00
D5006	1/4	8	49.40	45.00	6.60	24.50	4.00	23.00	55.00
D5467	1/4	8	49.40	45.00	6.60	24.50	4.00	23.00	55.00
D5011	1/4	8	50.00	42.35	6.60	25.00	4.00	23.00	55.00
D2099	1/4	8	50.00	42.35	6.60	25.00	4.00	23.00	55.00
D2076	1/4	8	60.00	52.58	6.60	25.00	4.00	23.00	55.00
D5009	1/4	8	60.00	52.45	6.60	25.00	4.00	23.00	55.00
D5016	1/4	8	85.30	52.40	6.60	27.40	5.90	23.00	55.00

CONVEYOR BEARINGS (End Caps - Hex Bore)

Acetal bearings with stainless steel balls as standard. Please contact us for other ball material options.



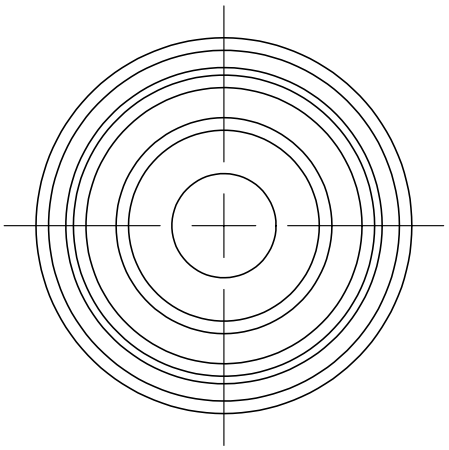
All dimensions are in mm.

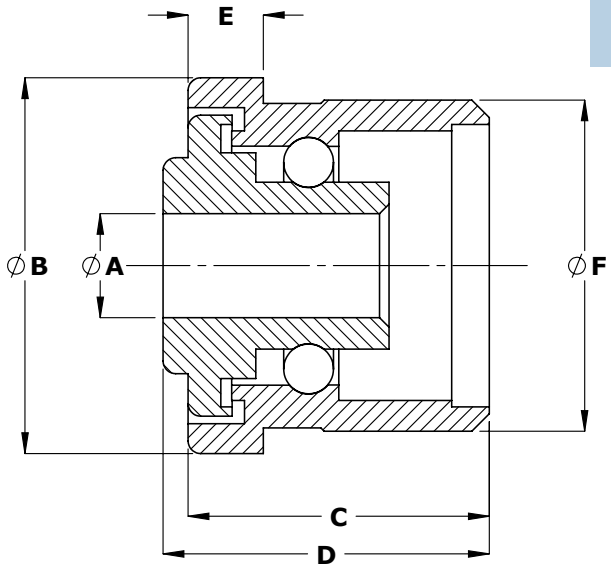
BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	F	Static Load Rating (Kg)	Dynamic Load Rating (Kg)
ACH81269C	5/32	7	8.00	33.40	23.45	27.90	4.70	27.00	7.00	19.00
ACH111409C	3/16	9	11.30	47.88	29.12	32.12	4.70	40.99	23.00	55.00
ACH111476	1/4	8	11.40	50.55	17.18	18.12	1.78	47.65	23.00	55.00
ACH111451C	1/4	8	11.43	47.24	15.61	18.70	1.78	45.00	23.00	55.00
ACH111522C	1/4	8	11.47	58.50	17.25	20.49	2.00	52.17	23.00	55.00
ACH111411C	1/4	8	11.55	48.26	28.26	31.26	4.70	41.33	14.00	35.00
ACH111381C	1/4	8	11.58	39.45	27.85	30.68	1.52	38.15	23.00	55.00

CONVEYOR BEARINGS (End Caps - Round Bore)

Acetal bearings with stainless steel balls as standard. Please contact us for other ball material options.

All dimensions are in mm.





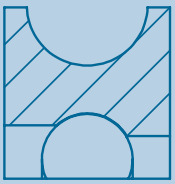
BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	F	Static Load Rating (Kg)	Dynamic Load Rating (Kg)
AF46169	1/8	10	4.70	19.81	10.03	12.19	2.16	16.81	7.00	17.00
AF62160C	1/8	11	6.25	19.90	17.00	19.00	3.00	16.27	8.00	19.00
AF62172C	1/8	11	6.25	19.90	17.10	19.10	3.00	17.25	8.00	19.00
AC64-411C	3/16	9	6.40	48.10	28.00	31.00	4.65	41.33	14.00	35.00
AF65159C	1/8	11	6.40	19.00	23.00	25.00	8.00	15.84	8.00	19.00
AF63161C	1/8	11	6.40	19.90	17.00	19.00	3.00	15.50	8.00	19.00
AF65167C	1/8	11	6.40	19.00	23.00	25.00	8.00	16.68	8.00	19.00
AC81473	5/32	7	8.10	49.60	21.00	25.50	3.10	47.30	7.00	19.00
AF81222C	5/32	11	8.14	25.60	12.30	14.30	1.67	22.05	12.00	30.00
AC82266C	5/32	7	8.20	29.80	21.50	24.40	3.00	26.60	7.00	19.00
AC82363C	3/16	8	8.20	39.85	19.40	24.80	2.50	36.40	12.00	30.00
AC82372C	3/16	8	8.20	39.40	19.30	24.70	2.50	37.20	12.00	30.00
AC82445C	5/32	7	8.20	49.30	21.10	24.85	3.00	44.60	7.00	19.00
AC82272C	5/32	7	8.25	29.95	24.00	26.25	6.00	27.20	7.00	19.00
AC82264C	5/32	7	8.30	30.00	24.00	26.25	6.00	26.40	7.00	19.00
AF10MDC47	3/16	32	10.15	50.40	15.88	19.56	2.79	47.79	50.00	120.00
AF10MDC53	3/16	32	10.16	56.84	16.00	19.94	2.54	53.08	50.00	120.00
AC102363C	3/16	8	10.20	39.60	19.30	24.55	2.50	36.50	12.00	30.00
AC102351C	3/16	8	10.20	39.60	21.00	26.50	2.60	35.24	12.00	30.00
AC102447C	5/32	7	10.20	49.00	20.05	24.50	3.00	42.40	7.00	19.00
AC102473C	5/32	7	10.25	49.60	21.00	25.50	3.00	47.35	7.00	19.00
AC103424C	3/16	8	10.30	47.50	20.70	25.65	3.00	42.40	12.00	30.00
AC106479C	1/4	8	10.40	49.40	16.00	19.20	1.80	47.80	23.00	55.00
AC111542C	1/4	8	11.30	56.10	17.00	19.90	1.75	54.15	23.00	55.00
AC127424C	3/16	8	12.70	47.40	20.45	24.35	3.00	42.46	12.00	30.00

PULLEYS

BNL manufacture a range of light, medium and heavy duty pulleys handling up to 500kg. All pulleys are made with acetal as standard and with stainless steel or carbon steel balls.

Our pulleys have a variety of profiles. **Please use the guide below to select the correct profile for your product.**

A



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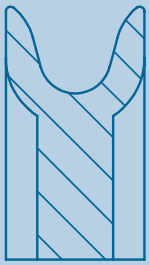

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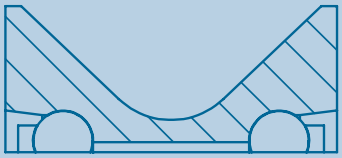

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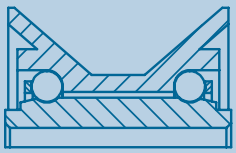

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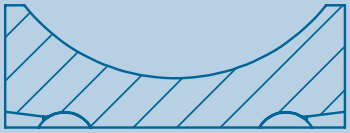
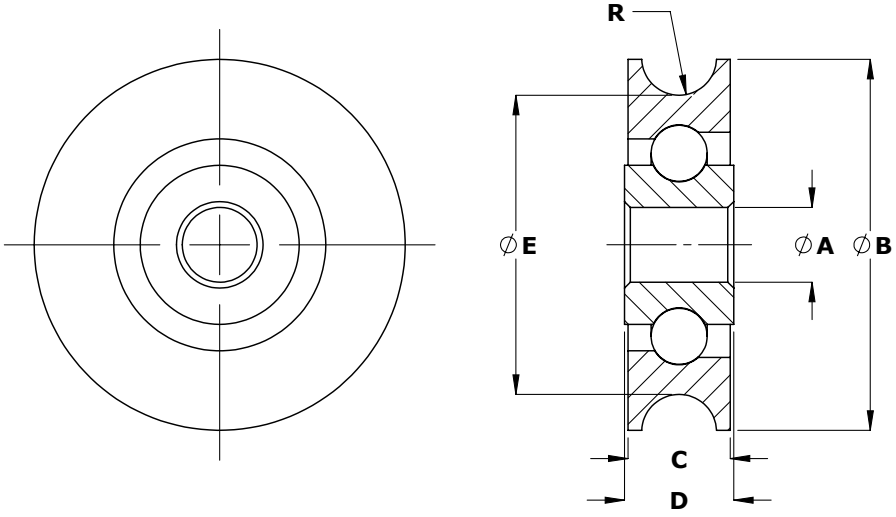


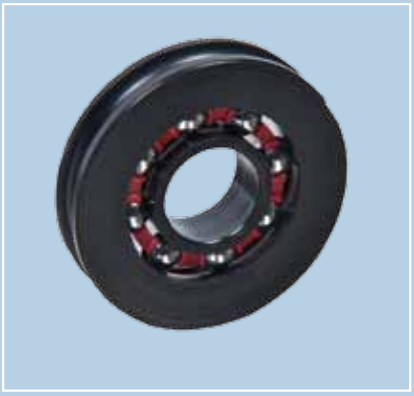
Contact us now for a competitive quotation: www.bnl-bearings.com/productquotation

PULLEYS (Light Duty Pulleys)

Acetal bearings with stainless steel or carbon steel balls as standard. Please contact us for other material options.

All dimensions are in mm.



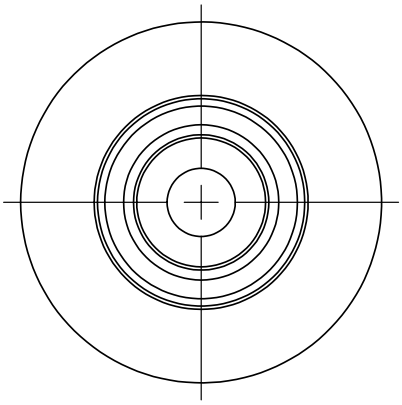


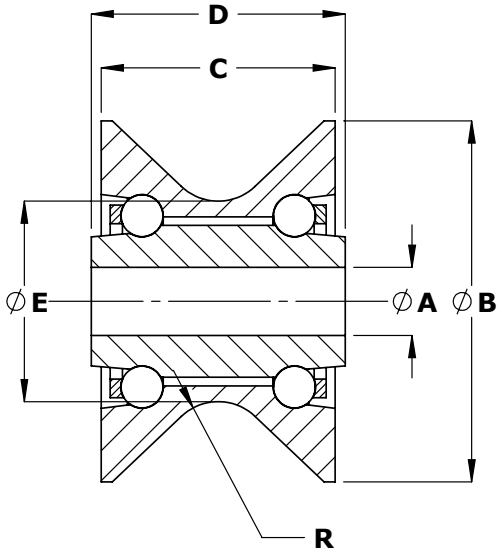
BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	R	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Profile
AF4P22	1/8	11	4.93	21.97	7.65	9.65	18.44	2.00	8.00	19.00	**A**
AC63MP76	1/4	10	6.40	76.25	16.00	21.40	66.00	5.40	7.00	18.00	**B**
AF4P32	3/16	10	6.40	31.75	8.69	9.27	25.40	3.00	16.00	40.00	**A**
ACS63MP324	5/32	7	6.20	31.20	8.55	9.65	24.60	3.00	7.00	19.00	**A**
ACS5MP38	5/32	7	5.10	37.90	7.90	9.65	31.30	3.00	7.00	19.00	**A**
AC6MP39	1/4	7	5.99	39.25	11.90	11.90	34.75	2.50	5.00	12.00	**A**
AF65MP45ZZ	1/4	11	6.50	44.70	10.35	11.30	38.50	3.00	8.00	19.00	**A**
AC4P28	5/32	7	6.70	28.00	9.30	11.50	21.00	2.00	7.00	19.00	**A**
AF8MP48	3/16	14	8.20	48.00	13.94	15.56	31.58	4.00	23.00	57.00	**A**

PULLEYS (Medium Duty Pulleys)

Acetal bearings with stainless steel or carbon steel balls as standard. Please contact us for other material options.

All dimensions are in mm.

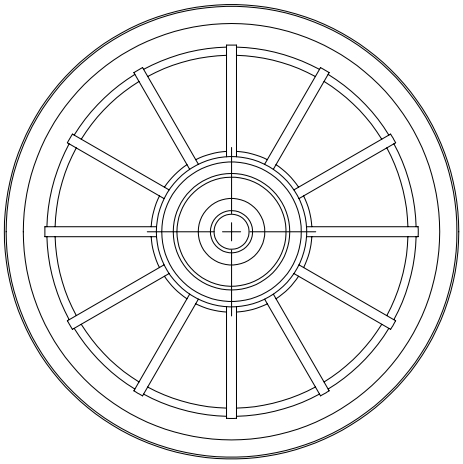


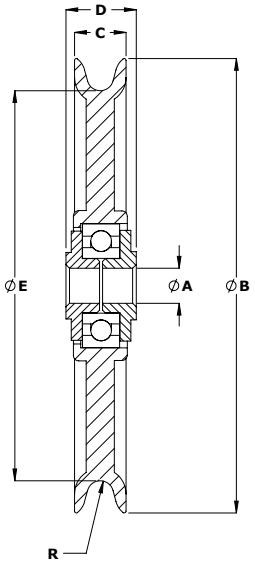


BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	R	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Profile
AC6MDP2.25	1/4	16	6.17	57.15	40.40	44.70	32.26	-	11.00	28.00	D
AF4DP285	5/32	22	6.65	28.00	27.00	28.50	16.20	7.50	24.00	60.00	C
AC8MDP46	1/4	16	8.00	46.00	22.00	24.00	36.00	10.00	11.00	28.00	E
AC8MDP50	1/4	16	8.00	49.80	29.70	33.00	36.60	15.00	11.00	28.00	C
AC8MDP58J	1/4	16	8.00	58.00	45.80	47.00	30.00	-	11.00	28.00	D
AC8MDP2.25	1/4	16	8.15	57.15	41.66	44.70	32.26	-	11.00	28.00	D
AC10MDP57ZZ	1/4	16	10.10	57.00	23.40	24.00	38.00	7.00	11.00	28.00	A
AC10MDP50	1/4	16	10.16	49.80	29.50	33.47	36.85	14.86	11.00	28.00	E
AC10MDP2.25	1/4	16	10.24	57.40	40.64	44.77	32.26	-	11.00	28.00	D
AC10MDP54	1/4	16	10.25	54.00	34.65	37.70	30.00	8.00	11.00	28.00	C
AF10MDP75	3/16	32	10.30	76.14	15.24	20.34	59.94	4.67	50.00	130.00	B
AC16MP46	1/4	8	15.95	46.70	9.75	9.75	41.20	2.50	23.00	55.00	A

PULLEYS (Heavy Duty Pulleys)

Acetal bearing incorporating a 6202 stainless steel bearing.



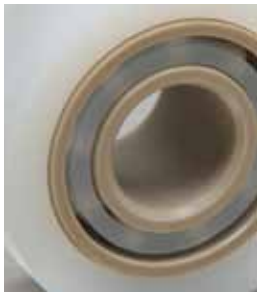


All dimensions are in mm.

BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	R	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Profile
AIB62023.5P	N/A	N/A	9.53	89.50	15.00	15.00	70.50	4.00	225.00	500.00	**B**
AIB62024.0P	N/A	N/A	9.53	101.60	17.75	17.75	82.50	4.00	225.00	500.00	**B**
AIB62025.0P	N/A	N/A	9.53	127.00	14.38	20.10	109.00	4.00	225.00	500.00	**B**
AIB62026.0P	N/A	N/A	9.53	151.40	17.78	20.10	133.10	4.00	225.00	500.00	**B**

SPECIALITY BEARINGS



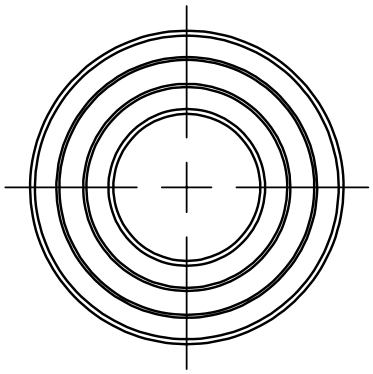

Our speciality bearings are ideal for use in environments where extreme temperature or highly corrosive chemicals are used, such as in Liquid Crystal Display (LCD) screen manufacture during the etching process, or solar panel processing. These bearings are made using specifically chosen materials, such as Ultra High Molecular Weight Polyethylene (UHMWPE) or Polyetheretherketone (PEEK) and corrosion resistant balls, including glass and zirconium oxide. They are able to withstand a greater degree of chemical attack and higher temperatures than Acetal or Polypropylene bearings.

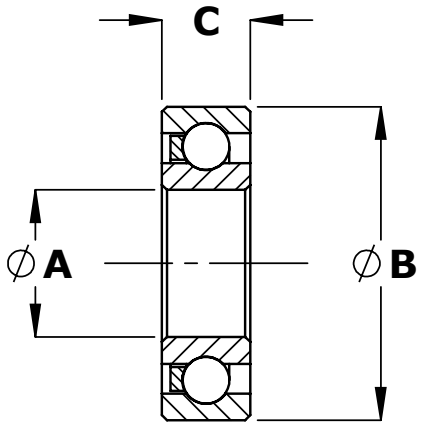
The range includes:

- Radial bearings in UHMWPE & PEEK
- Slot bearings with anti-rotation features
- Wheels & rollers

Radial Bearings (UHMWPE)

All dimensions are in mm.



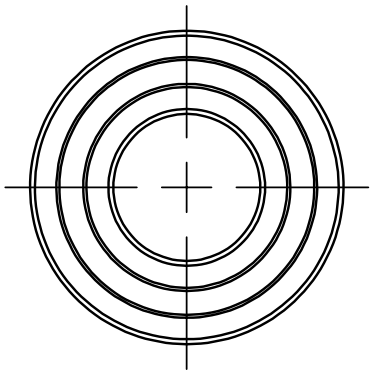


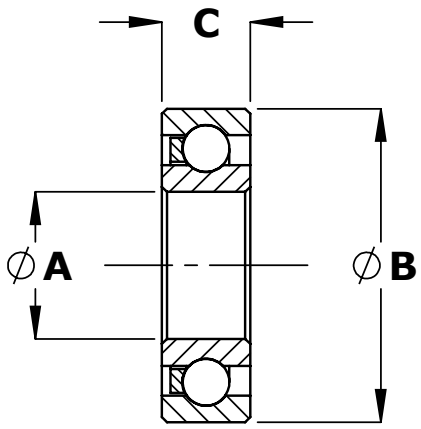
BNL Part No	Ball Size	No. of Balls	A	B	C	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Bearing Material	Ball Material
CMU625	3/32	8	5.00	16.00	5.00	2.30	6.00	UHMWPE	G
CMU626	1/8	7	6.00	19.00	6.00	3.50	8.00	UHMWPE	G
CMU628	5/32	7	8.00	24.00	8.00	5.50	11.50	UHMWPE	G
CMU6000	3/16	7	10.00	26.00	8.00	8.00	17.00	UHMWPE	G
CMU6001	3/16	8	12.00	28.00	8.00	9.00	19.00	UHMWPE	G / SS / ZO
CMU6002	3/16	8	15.00	32.00	9.00	9.00	19.00	UHMWPE	G
CMU6202	1/4	8	15.00	35.00	11.00	16.00	33.00	UHMWPE	G
CMU6003	3/16	9	17.00	35.00	10.00	10.50	21.00	UHMWPE	G
CMU6203	1/4	8	17.00	40.00	12.00	16.00	33.00	UHMWPE	G
CMU6004	1/4	9	20.00	42.00	12.00	19.00	39.00	UHMWPE	G / ZO
CMU6004ZZ*	1/4	9	20.00	42.00	12.00	19.00	39.00	UHMWPE	G
CMU6005 (D5310)	1/4	10	25.00	47.00	12.00	21.00	42.00	UHMWPE	G
D5312	3/16	12	25.00	42.00	9.00	14.00	29.00	UHMWPE	G

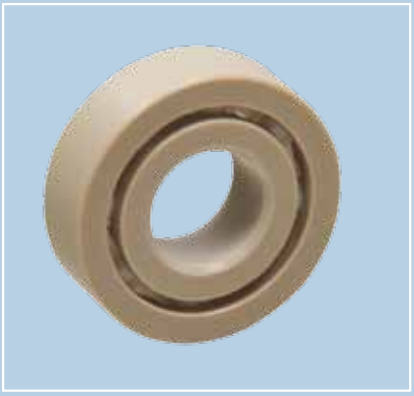
G = Glass
SS = Stainless Steel
ZO = Zirconium Oxide
PE = Polyethylene
* Double shield

Radial Bearings (PEEK)

All dimensions are in mm.





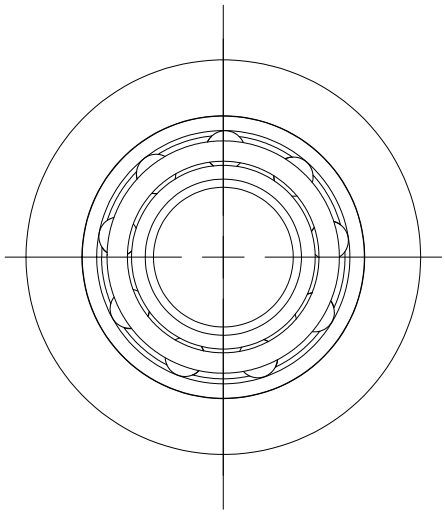


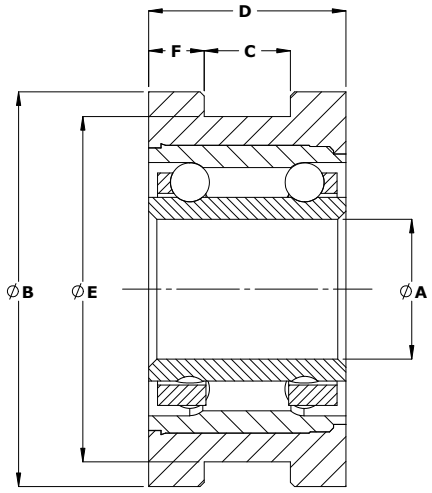
BNL Part No	Ball Size	No. of Balls	A	B	C	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Bearing Material	Ball Material
CM6900PK	1/8	6	10.00	22.00	6.00	5.50	12.00	PEEK	G
CM6200PK	3/16	8	10.00	30.00	9.00	17.00	35.00	PEEK	SS
CM6203PK	1/4	8	17.00	40.00	12.00	30.00	62.00	PEEK	ZO
MF6004PK*	1/4	15	20.00	42.00	12.00	54.00	110.00	PEEK	SS
MF16005PK*	1/4	17	25.00	47.00	8.00	64.00	130.00	PEEK	SS

G = Glass
SS = Stainless Steel
ZO = Zirconium Oxide
PE = Polyethylene
*Full Complement

Slot Bearings

Materials as per table.





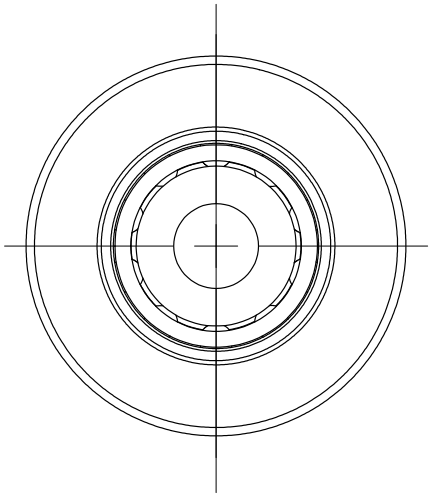
All dimensions are in mm.

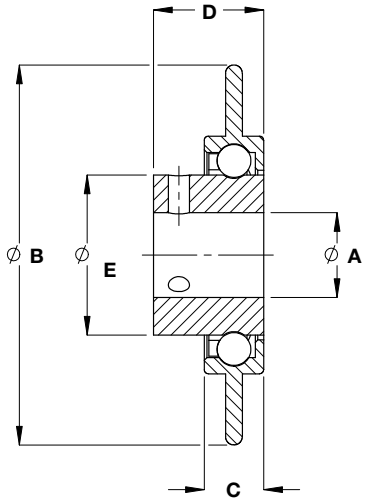
BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	F	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Bearing Material	Ball Material
D5356*	1/4	8	15.00	50.00	3.00	12.00	40.00	4.50	22.00	45.00	POM	SS
D5334	3/16	18	17.00	48.00	10.50	24.00	42.00	6.75	35.00	75.00	PEEK	ZO
CM20MP50	1/4	9	20.00	50.00	5.20	12.00	42.00	3.40	24.00	50.00	POM	SS
CMU20MP50	1/4	9	20.00	50.00	5.20	12.00	42.00	3.40	19.00	39.00	UHMWPE	SS
D5355*	1/4	8	20.00	50.00	3.00	12.00	40.00	4.50	22.00	45.00	POM	SS

G = Glass
SS = Stainless Steel
ZO = Zirconium Oxide
PE = Polyethylene
* Anti-rotation feature

Wheels and Rollers

Materials as per table.

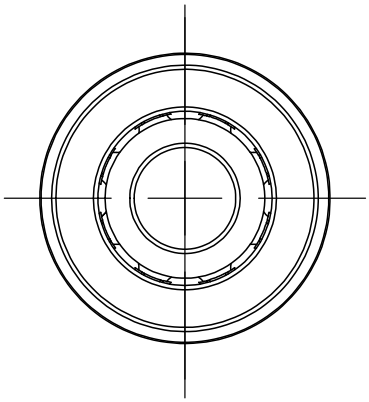


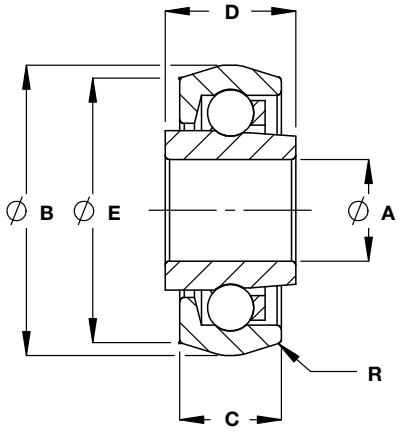


All dimensions are in mm.

BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	R	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Bearing Material	Ball Material
D5273	5/32	10	10.00	44.80	7.00	8.00	18.95	-	8.00	17.00	UHMWPE	G
CMSSU10MW44EXW	5/32	10	10.00	44.80	7.00	13.00	18.85	-	8.00	17.00	UHMWPE	SS

G = Glass SS = Stainless Steel ZO = Zirconium Oxide PE = Polyethylene





All dimensions are in mm.

BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	R	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Bearing Material	Ball Material
CMU7MW20*	1/8	7	7.00	20.00	7.00	9.00	18.00	2.00	5.00	11.00	UHMWPE	PE

G = Glass SS = Stainless Steel ZO = Zirconium Oxide PE = Polyethylene *Crowned bearing

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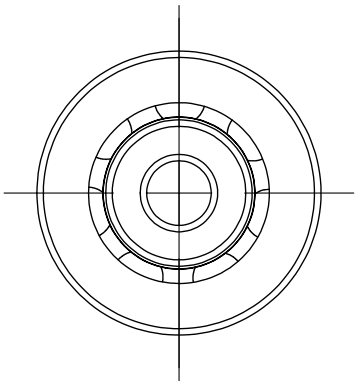
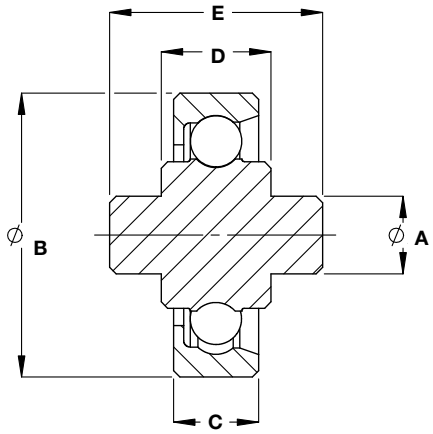
Wheels and Rollers

Materials as per table.

All dimensions are in mm.

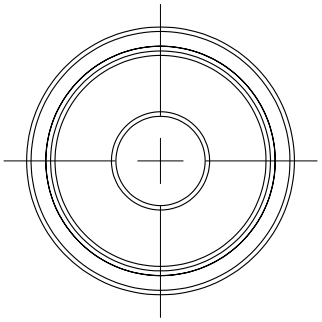


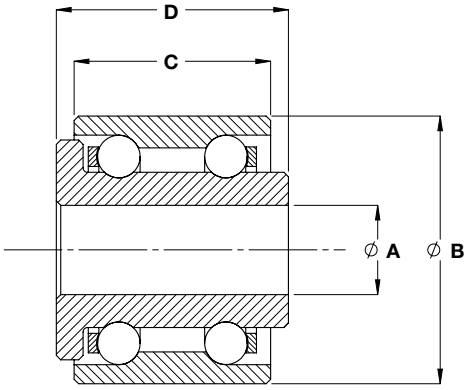


BNL Part No	Ball Size	No. of Balls	A	B	C	D	E	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Bearing Material	Ball Material
CMU6MW22	5/32	7	6.00	22.00	6.60	8.50	16.50	5.50	11.50	UHMWPE	G / ZO
CM6MW22PK	5/32	7	6.00	22.00	6.60	8.50	16.50	10.00	22.00	PEEK	ZO

G = Glass SS = Stainless Steel ZO = Zirconium Oxide PE = Polyethylene

All dimensions are in mm.





BNL Part No	Ball Size	No. of Balls	A	B	C	D	Static Load Rating (Kg)	Dynamic Load Rating (Kg)	Bearing Material	Ball Material
D5395	3/16	16	10.00	30.00	22.00	26.00	15.00	32.00	PP	SS

G = Glass SS = Stainless Steel ZO = Zirconium Oxide PE = Polyethylene

NOTES

ENQUIRY FORM

Contact us now for a competitive quotation at www.bnl-bearings.com/productquotation
Alternatively you can scan or copy the form below and send it to us at:

E: enquiries@bnl-bearings.com F: +44 01423 798108

Please include as much information as possible to help us respond accurately to your request.

First Name:	Surname:
Company:	Email:
Tel:	Web:
Delivery Address:	

Part Number:

Bearing Material (please circle):

Acetal (POM)	Polypropylene (PP)	Ultra High Molecular Weight Polyethylene (UHMWPE)	Poly Ether Ether Ketone (PEEK)

Other:

Ball Material (please circle):

As standard	SS316	SS420	Glass	Carbon Steel	Zirconium Oxide	Polyethylene

Other:

Additional Information:

If you would like advice on which BNL product would be most suitable for your application or if you have any questions about our products, please contact us on:

E: enquiries@bnl-bearings.com

T: +44 01423 799200

Or visit us at:

www.bnl-bearings.com

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