

# BRIDGE BEARINGS

BEARINGS FOR MATERIALS HANDLING



[www.bridge-bearings.co.uk](http://www.bridge-bearings.co.uk)

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Situated in the heart of the West Midlands, Bridge Bearings is the largest supplier of semi-precision bearings for the Materials Handling Industry, in the UK today.

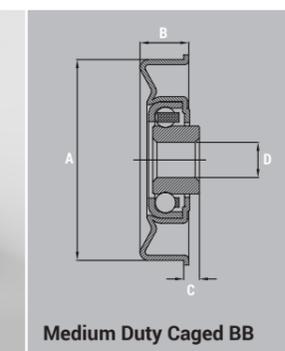
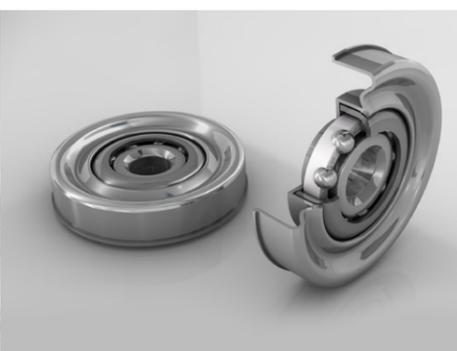
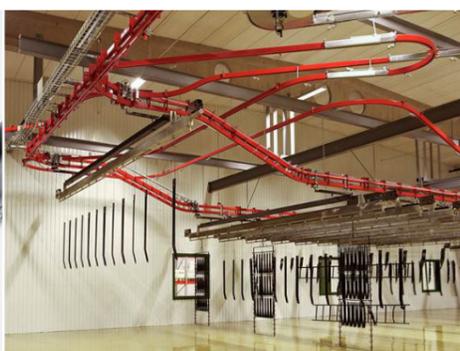
Our range includes steel and plastic housed bearings for all types of Conveyor Rollers as well as Bearings for Overhead Conveyors which include Crowded Race, Sintered Iron Caged and Ribbon Caged construction. Many of our products are available either sealed or un-sealed and are suitable for a wide variety of environments.

Our bearings are not only unique to conveyors but can also be found in generic rolling devices used in everyday life, ranging from a patio door to the common garden lawnmower. We have full CNC and conventional machining capabilities to produce custom bearings.

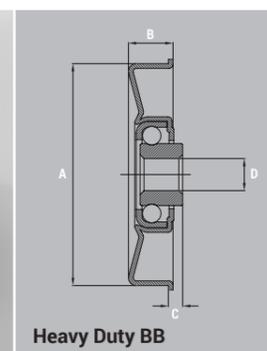
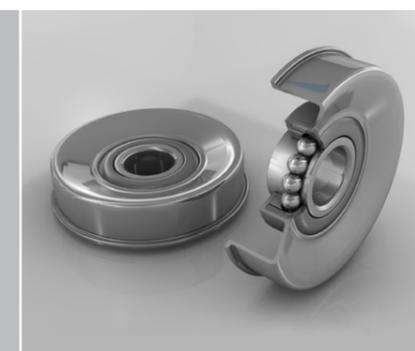


## Semi-Precision Bearings

- Semi-precision bearings incorporating turned steel inner race, pressed steel outer race and housing.
- All ball contact surfaces are case hardened to ensure a long trouble free service.
- Supplied lightly oiled or greased for gravity/powered applications.
- All housings are designed to be a swaged fit with the flange registering against the tube. This process is usually carried out using a hydraulic press.
- All products are zinc plated finish as standard.
- Special bore sizes are available on request.
- Designed to be free running.



Medium Duty Caged BB



Heavy Duty BB

### Our Philosophy

Since our foundation in 1958 our philosophy is simply to offer world class products, competitively, on time and without compromise. Attaining the prestigious BS5750 Part 2 quality award in 1987, recently updated to ISO 9001:2015, quality has and always will be paramount throughout our entire product range.

By investing heavily in both personnel and up to date manufacturing techniques we ensure not only the success of our product but also the ongoing success of our customers.



Reference	A +/- 0.1mm	B +/- 0.2mm	C mm	D + 0.15mm	Load Rating Kg.	Tube Ø x wall mm
BB 30 x 1.5	27.3	9.4	3.7	Ø 6.2 Ø 8.2 Ø 10.2	30	30 x 1.5
BB 40 x 1.5	37.3	10	3.7	Ø 8.2 Ø 10.2 8.2 Hex 11.2 Hex	80	40 x 1.5
BB 50 x 1.5	47.3	11.5	3.7	Ø 8.2	80	50 x 1.5
BB 50 x 1.5 HD	47.3	11.5	3.7	Ø 10.2 Ø 12.2	120	50 x 1.5
BB 60 x 1.5 HD	57.3	13.3	3.7	11.2 Hex	120	60 x 1.5
BB 60 x 2.0 HD	56.3	13.3	3.7	Ø 10.2 Ø 12.2 8.2 Hex 11.2 Hex	120	60 x 2.0

The medium duty bearing range is fitted with a nylon cage to keep operating noise to a minimum.

The heavy duty range (HD) offers a full compliment, crowded race construction for increased load carrying capabilities.



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# Precision Bearings

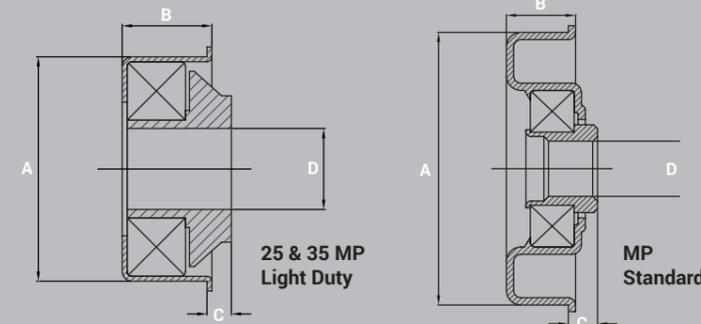
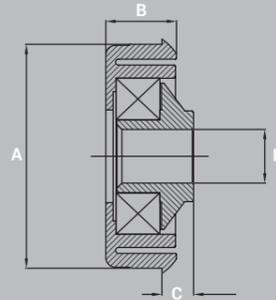
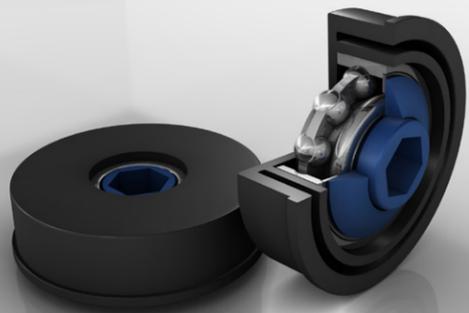
## Plastic Housed Precision Bearings

- Conductive plastic housings dissipate static charges whilst keeping operating noise to a minimum and protecting against shock loads.
- Precision bearings in plastic housings lend themselves to powered roller applications.
- All products are fitted with high quality deep groove chrome steel 'ZZ' shielded precision bearings. 2RS stainless steel bearings are available on request.
- Personalised branding available (when supplied as a complete roller.)



## Steel Housed Precision Bearings

- Steel housings offer maximum load carrying capacity and are suitable for arduous working environments.
- All housings are designed to be a swaged fit with the flange registering against the tube. This process is usually carried out using a hydraulic press.
- Special bore sizes are available on request.
- Steel housings and inserts are supplied zinc plated as standard.



Reference	A +/- 0.1mm	B +/- 0.2mm	C mm	D + 0.15mm	Load Rating Kg.	Tube Ø × wall mm
6002ZZ + PREC 47	46.1	14.4	6	Ø 8	50	50 × 1.5
6002-2RS + PREC47 Stainless Steel	46.1	14.4	6	8 Hex Ø 10 Ø 11	50	50 × 1.5
6002ZZ + PREC 37	36.1	14.4	6	11 Hex Ø 12	50	40 × 15
6002ZZ + PREC 56	55.1	14.4	6	Ø 15	50	60 × 2

N.B. One piece plastic insert fitted as standard.  
Ø 15mm has no shield or insert.



Reference	A +/- 0.1mm	B +/- 0.2mm	C mm	D + 0.15mm	Load Rating Kg.	Tube Ø × wall mm
6900ZZ + 25MP	23	9.20	2.50	8.30 Hex	25	1" × 18 s.w.g.
6002ZZ + 35MP	34.7	15.5	3	8 Hex Ø 10 11 Hex Ø 12 Ø 14 Ø 15	50	1.1/2" × 16 s.w.g.
6002ZZ + 44.5MP	44.5	13.6	6.5		100	2" × 10 s.w.g.
6002ZZ + 46MP	45.5	13.8	6.0		100	50 × 2
6002ZZ + 47MP	46.6	14	6.0		100	50 × 1.5
6002ZZ + 56MP	55.8	14.3	6.0		100	60 × 2
6202ZZ + 525MP	52.6	16.6	7.0	11 Hex Ø 5/8"	150	2.1/4" × 12 s.w.g.
6202ZZ + 57MP	57.3	16.8	7.5		150	2.1/2" × 10 s.w.g.
6004ZZ + 57MP	57.3	17.8	7.0	11/16 Hex Ø 15	200	2.1/2" × 10 s.w.g.
6204ZZ + 70MP	69.9	22.9	7.0	Ø 5/8"	200	3" × 10 s.w.g.
6204ZZ + 74MP	74.2	22.5	7.5		Ø 3/4"	200
6204ZZ + 76MP	76.3	23.1	6.0	11 Hex 9/16" Hex	200	80 × 2
6204ZZ + 83MP	83.1	23.1	6.5	Ø 20	200	88.9 × 2.9

N.B. All MP bearings are fitted with zinc plated steel inserts as standard.  
Ø 15mm has no shield or insert.

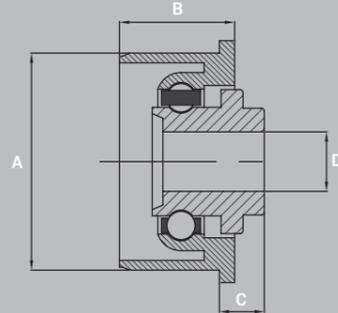
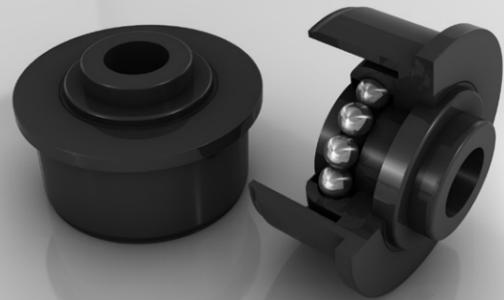


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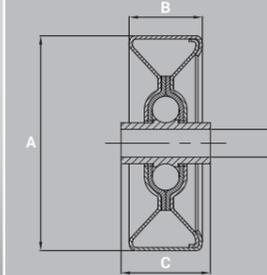
## Plastic Roller Bearings

- Plastic roller bearings are designed specifically for PVC tubes. They are available for a wide variety of tube diameters and ideal for wash down applications.
- Designed to be free running but offer quiet operation.
- All with stainless steel balls.
- All housings are designed to be an interference fit within PVC tubes.
- Special bore sizes and colours available upon request.

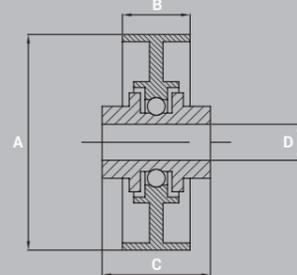


## Skate Wheels

- Designed to convey light packages and are particularly suited to small inside radius gravity bends and flexible conveyors.
- PR Steel skate wheels have case hardened ball contact surfaces to ensure a long life and trouble free service.
- Supplied lightly oiled or greased for heavier applications.
- Standard finish is zinc plated however XHD version has a yellow passivation finish.
- BBP Plastic skate wheels are produced using a combination of complex polymers. Supplied with stainless steel balls.



PR Skatewheel



BBP Skatewheel

Reference	A +/- 0.1mm	B +/- 0.2mm	C mm	D + 0.15mm	Load Rating Kg.	Tube Ø × wall mm
BBP20 × 1.5	17.1	30	10	Ø 6.2	5	20 × 1.5
BBP30 × 1.8	26.5	24.7	7	Ø 8.2	7	30 × 1.8/2
BBP40 × 2.3	35.5	26.8	10	Ø 8.2	7	40 × 2.3
BBP50 × 2.8	44.8	20.7	7	Ø 10.2 Ø 12.2 11.2 Hex	10	50 × 2.8

Reference	A mm	B mm	C mm	D	Static Load Kg
PR49	49.2	17	19	Ø 6.35"	34
PR55 XHD 5/16"	50	15.8	23.7	Ø 7.90"	45
BBP48/R	48	15.8	23.7	Ø 8.1mm	10
BBP48/1/4"R	48	15.8	20.6	Ø 6.6mm	10



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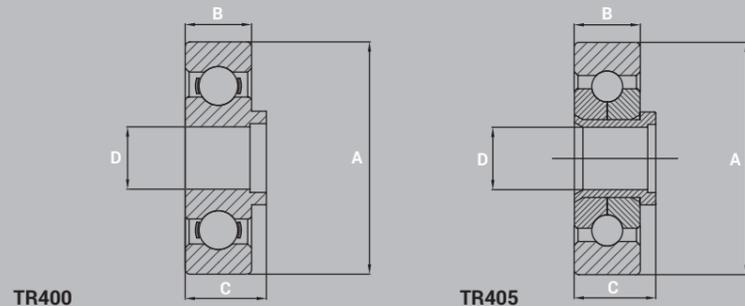
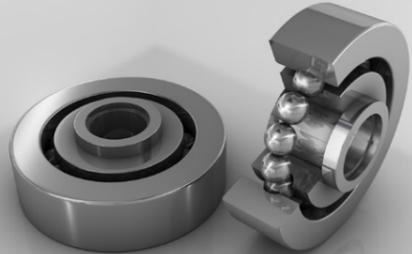




## Conveyor Chain Bearing Wheels

Fully machined, hardened steel bearing wheels to suit E8/F8 conveyor chain.

- Increased play particularly suited to paint finishing applications.
- Available with riveted cage or full compliment balls.
- Non standard designs available on request.



TR400

TR405

Reference	A mm	B mm	C mm	D mm	Static Load Kg
TR400 C.R.	47.6	13.49	16.7	Ø 12.7"	150
TR400 C.R. BZP + SS BALLS	47.6	13.49	16.7	Ø 12.7"	150
TR405 RIVET CAGE	47.6	13.49	16.7	Ø 12.7"	100
TR405 SINTERED CAGE	47.6	13.49	16.7	Ø 12.7"	100



## Custom Made Bearings

Bridge Bearings offer a range of bearings, bi-planer chains and components for many types of overhead conveyors from crowded race construction to sintered and ribbon cages, sealed and un-sealed, with chain supplied completely assembled or in kit form.

### Cardan Overhead Chain Bearings

- Supplied either sealed or unsealed Cardan Chain bearings are used in the automotive industry and finishing plants worldwide.
- Standard stock is available to order, but bearings can be supplied to customer's specific requirements.



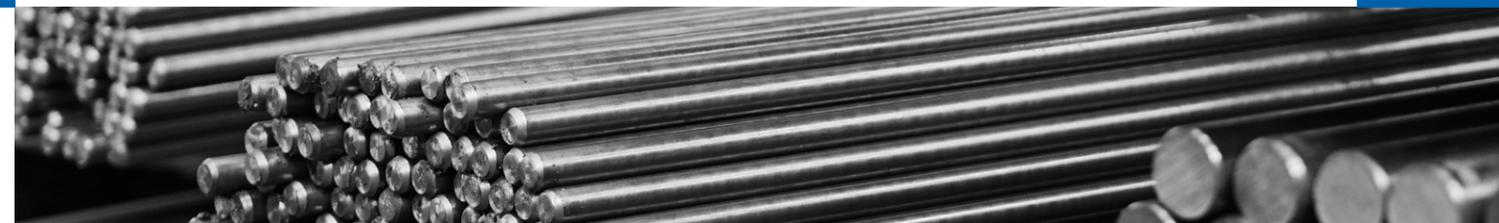
### Power and Free Trolley Bearings

- Bearings are supplied sealed or open with optional re-greasing hole.
- Specialist high temperature grease is available on request.
- Triple labyrinth shielded drop forge chain bearings are available in crowded race or caged construction.



### Bespoke Bearings

- Using various techniques we are able to design, manufacture and deliver high quality custom made bearings for all types of applications.
- Many products are supplied with ZZ or 2-RS seals to help prevent contamination and prolong bearing life.
- Bearings can be supplied with plastic or polyurethane tyres to reduce noise when in operation.
- Made to specific customer requirements.



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## Bi-Planer Chain

Bridge Bearings are able to offer 3 standard types of Bi-Planer chain directly from stock for self assembly, or fully assembled in specific lengths.

Products include:

1. E8 chain fitted with cast iron cruciform.
  2. F8 chain fitted with cast iron cruciform.
  3. Flowbridge chain fitted with pressed steel cruciform.
- All chains are fitted with a range of case hardened semi-precision bearing designs incorporating crowded race and caged constructions.
  - A variety of sealing arrangements are available with optional high temperature grease.
  - Stainless bearings and balls are also available.



## Conveyor Chain Components

Chain side links, load pendants and chain cruciform articulating joints are all available directly from stock.

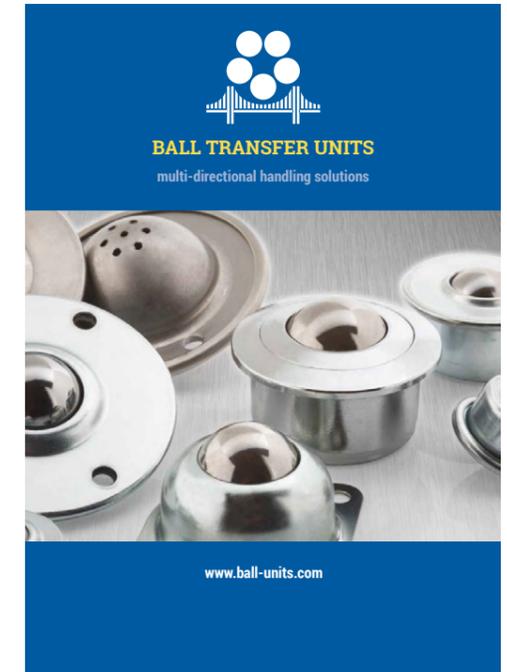


## Ball Units

At Bridge Bearings we have been manufacturing ball transfer units and ball tables for over 25 years. These provide a simple yet flexible, cost effective, multi-directional movement for both light and heavy loads. With a wide range of load capacities our ball units render them suitable for numerous materials handling solutions.

Our ball units are designed for multi-direction materials handling solutions. They consist of a large load-bearing ball running on a number of smaller support balls housed in a hemispherical cup. Each unit slightly oiled during manufacture.

Please refer to our Sales Office for information or visit [www.ball-units.com](http://www.ball-units.com)



## Optimise Your Operating Efficiency with our Rollers and Parts Service Guarantee

We have also gained a reputation for supplying high quality competitively priced rollers and spares to all aspects of the material handling industry. Our products are used by blue-chip companies in the UK and throughout Europe. We have a high degree of standardisation in our systems which means we can guarantee a particularly rapid and reliable spare parts service to meet the end-users' needs with speed and ease. Furthermore, by buying replacement parts from the original equipment manufacturer you are helping to ensure that the equipment stays in prime condition, optimising the operating efficiency of your system.

## Rollers

We are the UK's largest conveyor manufacturer, producing in excess of a million rollers every year. We source and purchase only the best raw materials directly from the mills and in vast quantities – in excess of 200km of 50mm diameter steel tubing every year. This means that not only does it allow us to constantly meet order commitments, but is also makes our pricing extremely competitive. Our range of rollers includes: Gravity Rollers, Plastic Rollers, Stainless Steel Rollers, Grooved Rollers, Poly V Rollers, Tapered Rollers, Sprocketed Rollers, Belt Conveyor Rollers, as well as an extensive range of specialised rollers.

## Spares

We also produce an extensive range of stock components, again competitively priced, for Powered Roller Conveyors, Pallet Conveyors, Gravity Conveyors and Belt Conveyors, with all plastic conveyor components injection moulded here on site.

Please give us the opportunity to quote all your roller and spares requirements. We can guarantee:

- Competitive prices
- Fast turnaround
- Extensive product range
- Excellent customer service



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# BRIDGE BEARINGS LYE, STOURBRIDGE SITE



1

ASSEMBLY & DESPATCH DEPT.



2

COMPONENTS & FINISHED  
PRODUCT STORES



3

MACHINING DEPT.



4

PRESS DEPT.



5

ROLLER MANUFACTURE



**BRIDGE BEARINGS**  
BEARINGS FOR MATERIALS HANDLING



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