



THE  
**FREEWAY  
BEARING**  
CORPORATION



PRODUCT CATALOG NO.22

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**SEMI-PRECISION BALL BEARING ASSEMBLIES**

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[www.freewaybearings.com](http://www.freewaybearings.com)

# COME TO FREEWAY FOR YOUR WASHERS, STAMPINGS AND ASSEMBLIES TOO



## FREEWAY WASHERS

Freeway's washers play an integral role in the performance, function and appearance in all types of automotive, industrial and consumer products. Let Freeway help you design the best value solution for your application.



## FREEWAY STAMPINGS AND ASSMBLIES

Freeway also produces a vast array of stampings to customer's specifications. If your stamped assembly requires multiple parts, Freeway can assemble these components in our progressive stamping dies or on additional assembly cells. In many cases, the cost is minimal to develop and build an assembly cell because of our large inventory of interchangeable assembly equipment.





# MEET OUR TEAM



## Jason Hawksworth

### President

As the President of Freeway Bearing, Jason is responsible for managing all facets of the business. He leads the long-term corporate strategy; while overseeing budgeting, staff and executives to guarantee the overall success of Freeway Bearings.



## Neil Simpson

### Chief Financial Officer (CFO)

As Chief Financial Officer (CFO), Neil is a senior financial leader with extensive knowledge and experience managing finance, administration and information technology. Neil is responsible for tracking cash flow, financial planning and analyzing the company's financial strengths and weaknesses.



## Scott MacKenzie

### Account Manager (AM)

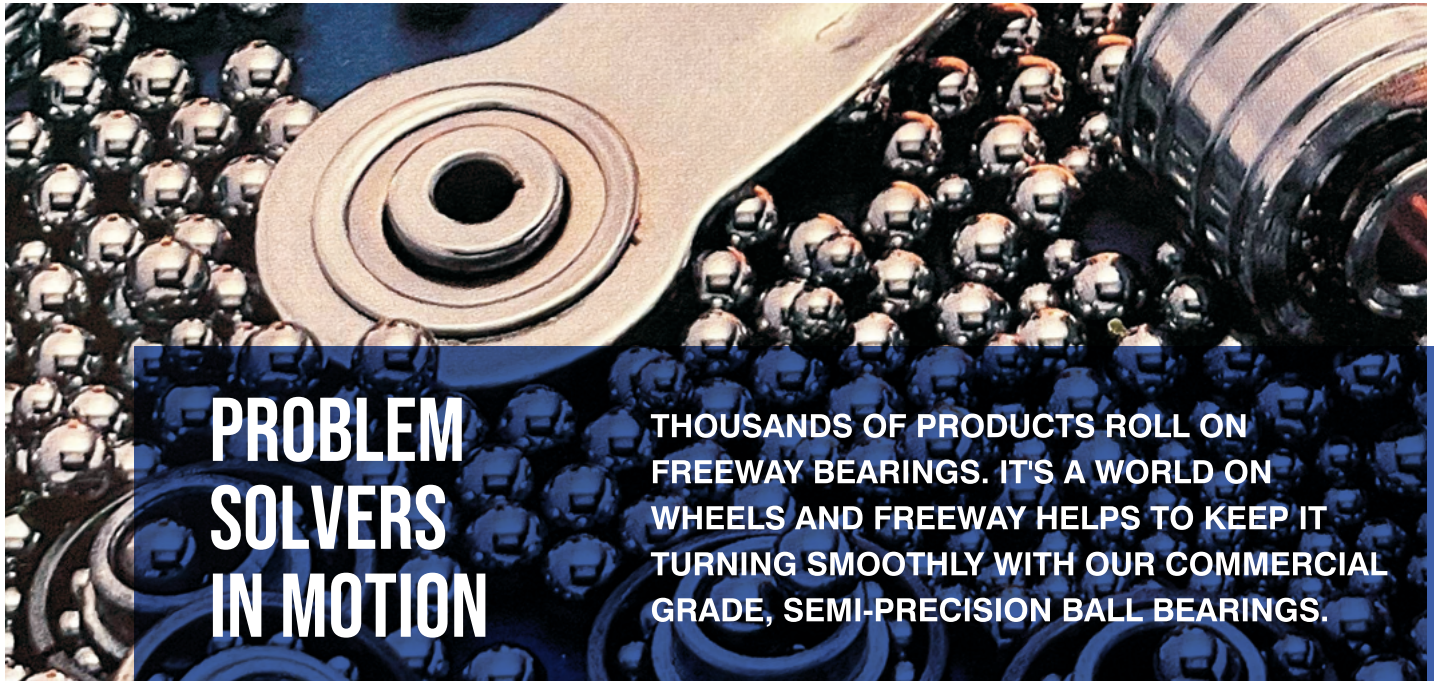
As an Account Manager (AM), Scott is able to be the face of the company for our customers. He keeps our clients connected to our company and ensures that all their needs are met, while overseeing the closing of projects and the delivery of valuable products.



## Ryan Alfred

### Account Manager (AM)

As an Account Manager (AM), Ryan is able to be the face of the company for our clients. He keeps our clients connected to our company and ensures that all their needs are met, while overseeing the closing of projects and the delivery of valuable products.



# PROBLEM SOLVERS IN MOTION

THOUSANDS OF PRODUCTS ROLL ON  
FREEWAY BEARINGS. IT'S A WORLD ON  
WHEELS AND FREEWAY HELPS TO KEEP IT  
TURNING SMOOTHLY WITH OUR COMMERCIAL  
GRADE, SEMI-PRECISION BALL BEARINGS.

## INDUSTRIES SERVED

- Garage Door Bearings
- Glider Furniture Bearings
- Wheelchair Bearings
- Outdoor Power Equipment Bearings
- Air Damper and Louver Bearings
- Rolling Door and Conveyor Bearings

## OUR BEARINGS

Freeway Bearings are a vital component in a wide variety of wheeled goods, such as wheelchairs, carts, outdoor power equipment and garage doors, as well as other equipment such as air dampeners and louvers and even glider furniture where low to medium loads and speeds are encountered. Freeway Bearings are proudly engineered in the United States of America.



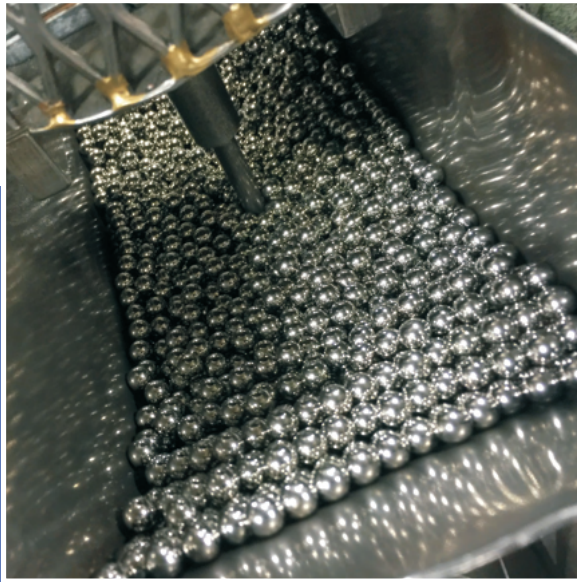
## Our Headquarters

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- [bearings@freewaybearings.com](mailto:bearings@freewaybearings.com)

## Our US Distribution

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Buffalo, NY 14227 USA
- 800-387-3854
- [bearings@freewaybearings.com](mailto:bearings@freewaybearings.com)

# OUR COMMITMENT



## OUR COMMITMENT TO INNOVATION

Consistently looking for a better way to better results has led to many of Freeway Bearing advancements, such as the ASF bearing series. It began with a search for a better ball track and an economical way to assemble a unitized bearing with a full complement of balls, and it now has become an industry standard, utilized world wide. However, Freeway does not rest on past accomplishments. An on-going R & D program involves the running of bearings under load on Freeway designed test stands, as well as constantly evaluating new manufacturing technologies, new warehousing techniques as well as new geometry and new materials.

## OUR COMMITMENT TO QUALITY

Methods of quality control have taken on new names and dictate strict procedures. What hasn't changed is the leadership and support Freeway provides for its employees that has always kept Freeway's quality high. Freeway is committed to the education of its employees that is required to consistently produce high quality products.

## OUR COMMITMENT TO YOU

Customer service begins with customer awareness by every Freeway employee. A good understanding of your business, your products and its purpose, as well as the performance that is expected from the bearings is what Freeway ultimately strives for.

Freeway Bearings has built its reputation by manufacturing the highest quality products at the lowest possible price. With that in mind, Freeway always reminds their customers of one simple message: Freeway makes the best bearings, don't accept any imitations.

# ASF SERIES BEARINGS

## ASF Series Ball Bearing Assembly

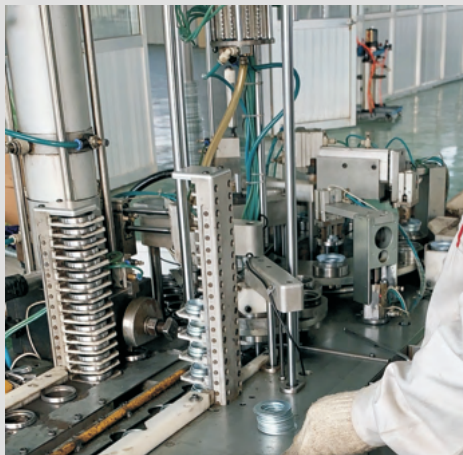
Designed for medium radial, thrust and combination loads, ASF Bearings will sustain a thrust load in either direction of up to 50% of their radial load. The sum of the thrust and radial loads should not exceed the radial load rating of the bearing.

The outer race is a one piece cold-rolled, cam-formed, split ring which has been held to close tolerances. The ball groove is rolled to a perfect radius with a smooth finish. The inner race is machined from steel bar stock with a burnished ball groove. Special bore diameters and square and hex bores are available. Both races are hardened for maximum service life and the inner race is zinc-plated for corrosion protection. A full complement of heat treated and ground, low-carbon steel balls assures smooth operation, maximum load rating and long service life.

Races and balls are assembled in a press-formed, flanged retained cup which is packed with an all-purpose grease suitable for operating temperature up to 500oF (243oC). All components are unitized by forming the cup over a retaining washer which forms a labyrinth shield to minimize entry of contaminants.

## New Precision Flanged Bearings

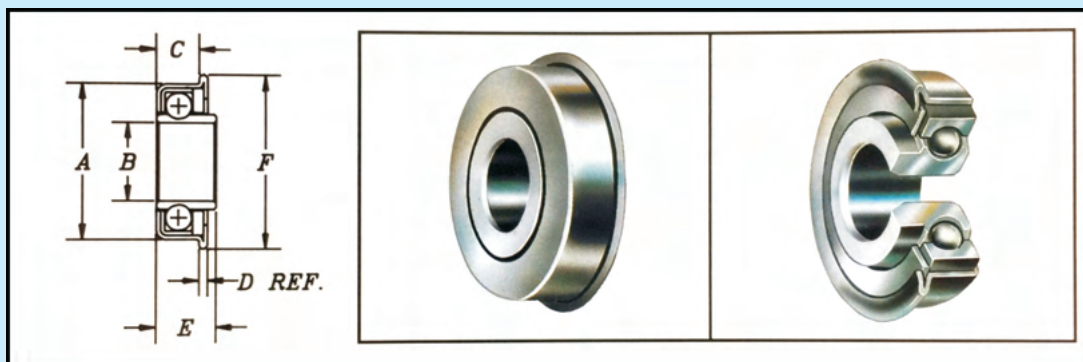
Ask for ASF - PR Bearings



# ASF SERIES BEARINGS



## ASF Series Bearing Size Chart



- A– Outer Diameter (w/o Flange)
- B– Inner Diameter (Bore)
- C– Outer Diameter Width
- D– Flange Thickness
- E– Overall Width
- F– Outer Diameter (With Flange)

| Part         | A            | B*             | C     | D    | E     | F     | Radial Load Rating (LBS.) at |         |         |          |
|--------------|--------------|----------------|-------|------|-------|-------|------------------------------|---------|---------|----------|
|              |              |                |       |      |       |       | 50 RPM                       | 100 RPM | 600 RPM | 1200 RPM |
| ASF-132-5    | 1.125- 1.130 | .313- .317     | 5/16  | 5/64 | 7/16  | 1-1/4 | 215                          | 150     | 100     | 60       |
| ASF-132-1    | 1.125- 1.130 | .376- .380     | 5/16  | 5/64 | 7/16  | 1-1/4 | 215                          | 150     | 100     | 60       |
| ASF-132-1A   | 1.125- 1.130 | .378- .382 HEX | 5/16  | 5/64 | 7/16  | 1-1/4 | 215                          | 150     | 100     | 60       |
| ASF-132-2    | 1.125- 1.130 | .438- .442     | 5/16  | 5/64 | 7/16  | 1-1/4 | 215                          | 150     | 100     | 60       |
| ASF-132-1B   | 1.125- 1.130 | .500- .504     | 5/16  | 5/64 | 7/16  | 1-1/4 | 215                          | 150     | 100     | 60       |
| ASF-107-2    | 1.375- 1.380 | .438- .442     | 5/16  | 5/64 | 7/16  | 1-1/4 | 390                          | 270     | 180     | 108      |
| ASF - 107-1B | 1.375- 1.380 | .444- .448 HEX | 5/16  | 5/64 | 7/16  | 1-1/2 | 390                          | 270     | 180     | 108      |
| ASF - 107-3  | 1.375- 1.380 | .500- .504     | 5/16  | 5/64 | 7/16  | 1-1/2 | 390                          | 270     | 180     | 108      |
| ASF - 107-5  | 1.375- 1.380 | .625- .629     | 5/16  | 5/64 | 7/16  | 1-1/2 | 390                          | 270     | 180     | 108      |
| ASF - 107-6  | 1.375- 1.380 | .750- .754     | 5/16  | 5/64 | 7/16  | 1-1/2 | 390                          | 270     | 180     | 108      |
| ASF0-108-3   | 1.380-1.385  | .500- .504     | 5/16  | 5/64 | 7/16  | 1-1/2 | 390                          | 270     | 180     | 108      |
| ASF0-108-6   | 1.380-1.385  | .750- .754     | 5/16  | 5/64 | 7/16  | 1-1/2 | 390                          | 270     | 180     | 108      |
| ASF-169-3A   | 1.750-1.755  | .750- .755     | 15/32 | 5/64 | 39/64 | 1-7/8 | 680                          | 480     | 260     | 170      |
| ASF-100-5    | 2.001-2.005  | .750- .754     | 7/16  | 5/64 | 5/8   | 2-1/8 | 785                          | 525     | 350     | 210      |
| ASF-100-1    | 2.001-2.005  | 1.001-1.005    | 7/16  | 5/64 | 5/8   | 2-1/8 | 785                          | 525     | 350     | 210      |
| ASF-100-2    | 2.001-2.005  | 1.012-1.015    | 7/16  | 5/64 | 5/8   | 2-1/8 | 785                          | 525     | 350     | 210      |

\*Bore size & inner race length can be manufactured to meet special requirements

# PA SERIES BEARINGS

## PA Series Ball Bearing Assembly

Used primarily for light radial loads and low RPM's , PA Series bearings have proved to be extremely reliable and economical for installation into extruded, bored or cast housings.

The outer race is a press-formed cup. The inner race is machined from steel bar stock with a burnished ball groove. Special bore diameters and square and hex bores are available. Both races are hardened for maximum service life and zinc-plated for corrosion protection, A full complement of heat treated and ground, low-carbon steel balls assures smooth operation, maximum load rating and long service life.

Races and balls are assembled in a press-formed, flanged retained cup which is packed with an all-purpose grease suitable for operating temperature up to 500oF (243oC). All components are unitized by forming the cup over a retaining washer

## Bearing Modifications

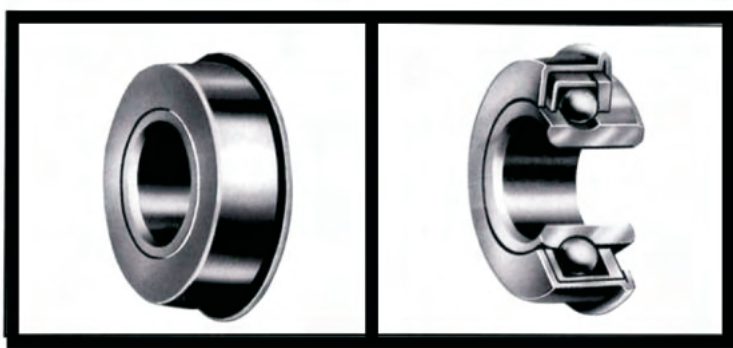
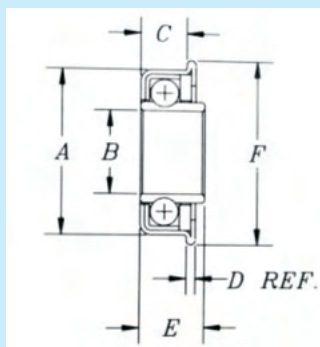
The inner race may be extended in either direction and provided with set screw holes or other provisions for mounting. Special bore diameters and hex or square bores are also available.



# PA SERIES BEARINGS



## PA Series Bearing Size Chart



- A- Outer Diameter (w/o Flange)
- B- Inner Diameter (Bore)
- C- Outer Diameter Width
- D- Flange Thickness
- E- Overall Width
- F- Outer Diameter (With Flange)

| Part        | A            | B*         | C    | D    | E     | F      | Radial Load Rating (LBS.) at |         |         |         |          |
|-------------|--------------|------------|------|------|-------|--------|------------------------------|---------|---------|---------|----------|
|             |              |            |      |      |       |        | 50 RPM                       | 100 RPM | 300 RPM | 600 RPM | 1000 RPM |
| PA - 715-2  | .906- .911   | .251- .255 | 1/4  | 1/16 | 3/8   | 1-1/32 | 75                           | 54      | 40      | 30      | 23       |
| PA - 715-3  | .906- .911   | .313- .317 | 1/4  | 1/16 | 3/8   | 1-1/32 | 75                           | 54      | 40      | 30      | 23       |
| PA - 715-1  | .906- .911   | .376- .380 | 1/4  | 1/16 | 3/8   | 1-1/32 | 75                           | 54      | 40      | 30      | 23       |
| PA - 883-1  | .906- .911   | .501- .505 | 1/4  | 1/16 | 3/8   | 1-1/32 | 65                           | 45      | 35      | 25      | 25       |
| PA - 883-2  | .906- .911   | .439- .444 | 1/4  | 1/16 | 3/8   | 1-1/32 | 65                           | 45      | 35      | 25      | 25       |
| PA - 641-11 | .1.125-1.130 | .313- .317 | 5/16 | 5/64 | 7/16  | 1-1/4  | 108                          | 77      | 55      | 43      | 35       |
| PA - 641-3  | .1.125-1.130 | .375- .380 | 5/16 | 5/64 | 7/16  | 1-1/4  | 108                          | 77      | 55      | 43      | 35       |
| PA-641-2    | .1.125-1.130 | .439- .443 | 5/16 | 5/64 | 7/16  | 1-1/4  | 108                          | 77      | 55      | 43      | 35       |
| PA-641-4    | .1.125-1.130 | .501- .503 | 5/16 | 5/64 | 7/16  | 1-1/4  | 108                          | 77      | 55      | 43      | 35       |
| PA-641-8    | .1.125-1.130 | .564- .568 | 5/16 | 5/64 | 7/16  | 1-1/4  | 108                          | 77      | 55      | 43      | 35       |
| PA-652-2    | 1.375-1.380  | .501- .503 | 3/8  | 5/64 | 33/64 | 1-1/2  | 145                          | 105     | 75      | 58      | 45       |
| PA-652-1    | 1.375-1.380  | .626- .630 | 3/8  | 5/64 | 33/64 | 1-1/2  | 145                          | 105     | 75      | 58      | 45       |

\*Bore size & inner race length can be manufactured to meet special requirements

# Value Added Bearing Assembly

As your single source for multiple capabilities, Freeway can help further reduce your costs and speed up your assembly with Freeway Bearing Assemblies.

## Glider Bearing Brackets

Ask for information on PB 1473-1 and PB 1544-1



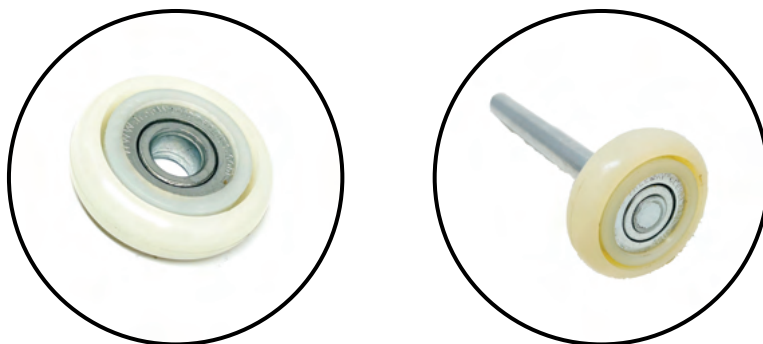
## Freezer Door Bearings

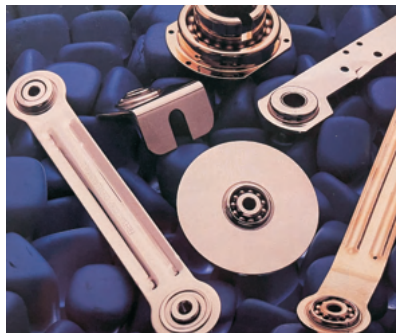
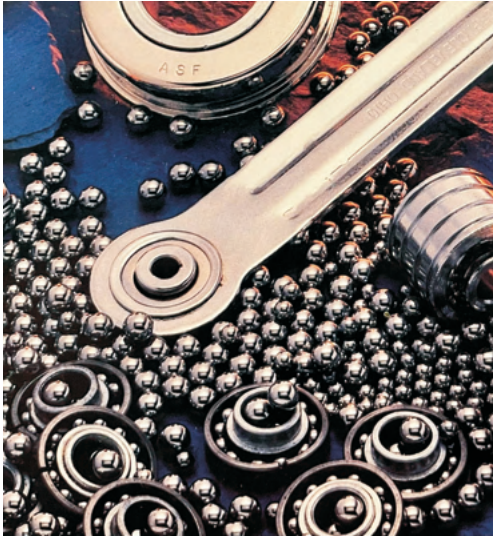
Ask for information on PA 830 Series



## Door Roller Bearings

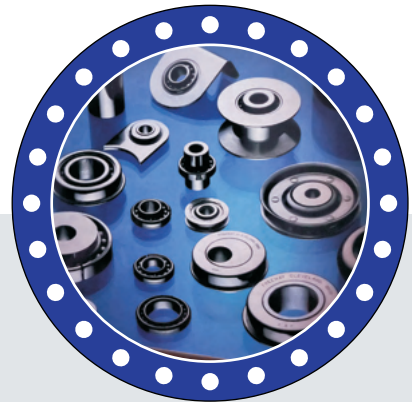
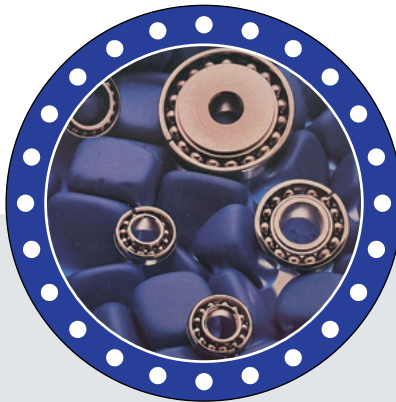
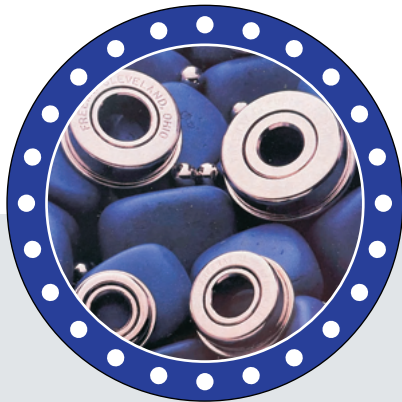
Ask for information on PA 969 Series







THE  
**FREEWAY  
BEARING**  
CORPORATION



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14227



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