



PLAIN BEARINGS

Introducing AST...

For more than 30 years, AST Bearings has been the leading provider of miniature precision bearings, supplying a diverse range of industrial customers. Whether the application calls for off-the-shelf product or whether unique requirements demand qualified engineering expertise, AST is a one-source resource for all your miniature bearings needs.



Facilities...

AST's headquarters are located in Montville, New Jersey—the heart of the metro-NY corridor. It houses our executive offices, assembly, testing and analysis, engineering specialists, custom lubrication center, quality control laboratory, customer service personnel, and, of course, our extensive main warehouse.

Additional sales offices and warehousing are maintained in Irvine, California and Dallas, Texas in order to provide rapid and economical shipping and service.



AST's Pledge To You...

When you call AST Bearings you are assured of getting the very best product and the very best service. As dedicated bearing specialists, we work diligently to stay at the cutting edge of bearing technology in order to meet today's changing and challenging needs. Call us with your next project. We may already have the solution.

AST...Growth and Progress...

Complete sub-assembly capabilities have become an integral part of our growth strategy. We can offer our expertise in helping our customers design a complete bearing package—saving time, money, inspections and paperwork.

AST will continue to offer even more extended product capabilities as we prepare to step into the next century.

Now Offering Plain Bearings...

And now, AST is offering a range of Bushings and Spherical Plain Bearings to augment its already extensive product line. Most standard industrial sizes are included in this new product range, but custom sizes are available upon special request.



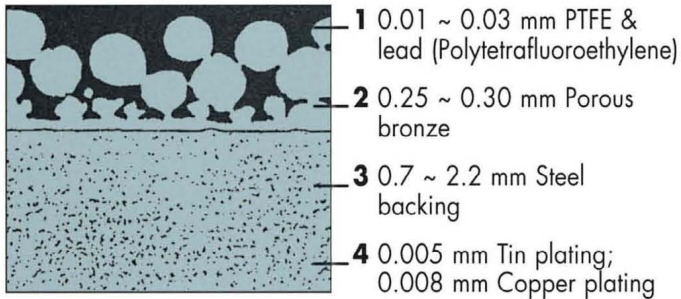
Plain bearings are manufactured in a wide variety of materials designed to offer bearing solutions in almost any operating environment. AST Bearings is able to service your plain bearing requirements, whether you require standard SAE 841 bronze bushings, metal-backed Teflon® bronze bearings, economical two piece rod ends, heavy duty fractured outer race spherical bearings, or any imaginable material and configuration. And all of this is available with the dedication to service and technical assistance you've come to expect from AST.

So please think of AST Bearings when your design calls for plain bearings...of any type!



SELF-LUBRICATING BUSHING SERIES

JU



- Self lubricating & maintenance free
- Low friction and wear to insure long life
- Suitable for a wide temperature range
- Low vibration and noise
- Designed from weight & space saving materials
- Dynamic load rating of more than 11,500 psi

Sizes:
Metric: 6-300 mm I.D.
Inch: 1/4" - 12" I.D.

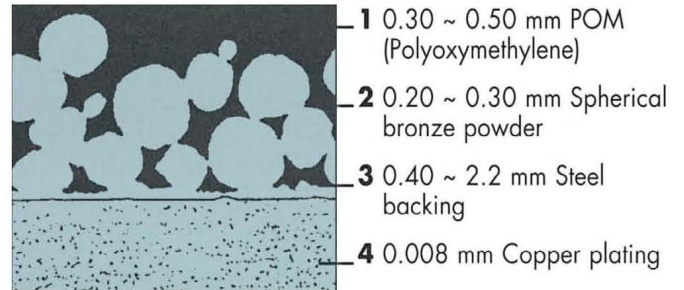
Types:
Flanged; Non-Flanged;
Thrust Washer; Strip Type

Temperatures:
-328°F to +536°F

TYPICAL APPLICATIONS INCLUDE:

motors, pumps, off-highway vehicles, agricultural equipment, factory automation, packaging equipment, medical and pharmaceutical equipment

JX



- All the characteristics of the JU type of bushing, plus...
- Dynamic load rating to more than 17,000 psi
- Chemical and particulate resistant
- Accommodates some misalignment
- Provides for both linear and rotary motion

Sizes:
Metric: 6-300 mm I.D.
Inch: 1/4" - 12" I.D.

Types:
Flanged; Non-Flanged;
Thrust Washer; Strip Type

Temperatures:
-104°F to +194°F
continuous

TYPICAL APPLICATIONS INCLUDE:

earth moving equipment, robotics, agricultural equipment, automotive, pumps, factory automation

SPHERICAL PLAIN BEARINGS



Sizes:

Inch: bore sizes from 1/2" to 12"
Metric: bore sizes from 4 mm to 300 mm

Basic Types:

Standard Radial

Extended Inner Ring

High Misalignment

Angular Contact

Self-Lubricated

Features:

Heavy radial loading
Accommodates misalignment
Thrust loading
Non-separable

Eliminates locational spacers

Heavy cross section
Accommodates greater
misalignment

Single acting—for unidirectional
thrust and combination loads

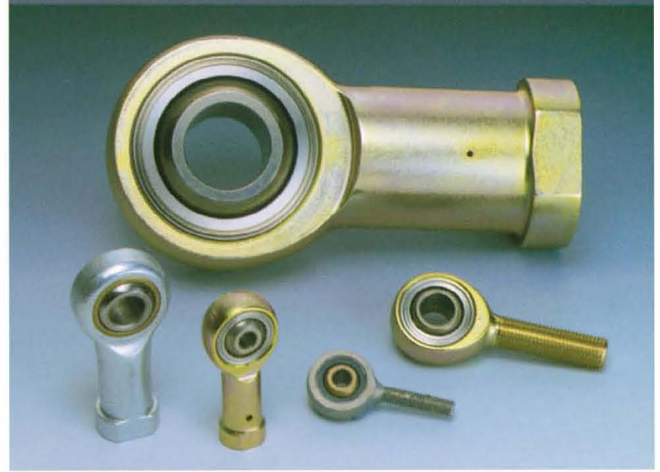
Teflon®, dry film or injection
molded polymer lubrication
for low maintenance

- Fractured, solid or two-piece outer rings
- Open or sealed versions available
- Maintenance-free lined versions available
- Two or three piece metal-to-metal constructions

TYPICAL APPLICATIONS INCLUDE:

off-highway vehicles, agricultural equipment, mining equipment, logging equipment, hydraulic cylinders, packaging equipment, textile equipment, robotics

ROD END BEARINGS



Basic Types:

Commercial Series

Precision Series

Stamped Metal

Studded Rod Ends

Self-Lubricating

Links

Features:

Two piece construction
High loads
Cost effective

Four piece construction
Low friction
Good conformity

Plated stamped metal housing
Hardened steel ball
Economical

Facilitates right angle connections
Accommodates 50 degrees
misalignments

Teflon® lined
Commercial use

Available from any of the above
constructions

- Inch and Metric Series available
- Male and Female constructions available
- Right or left-hand threads available
- Metal-to-metal or lined versions available
- Molded thermoplastic race versions available

TYPICAL APPLICATIONS INCLUDE:

control linkages, steering gear, brake and clutch pedals, paper machinery, packaging machinery, robotics, textile equipment, marine applications, food processing

SINTERED BUSHINGS

(Powdered Metal Bronze Bearings)



- Self lubricating
- Low maintenance
- Cost efficient for most applications
- Custom sizes are available for all types

Sizes:

1/8" - 5" I.D.

Specs:

SAE 841; ASTM B-438-70; MIL-B-5687C
GR1 Type 11 Type 1, Comp. A

Types:

Sleeve; Flanged; Thrust Washer; Strip Types; Plate; Bar Stock

Temperature Range:

10°F to 175°F

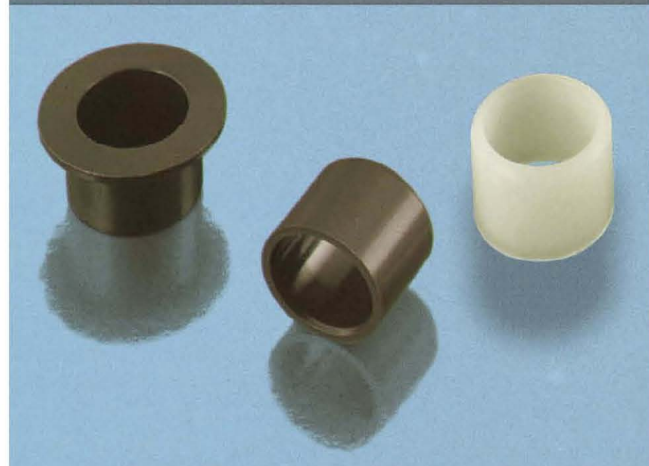
CAST BRONZE SLEEVE BEARINGS

AST also offers a range of sleeve, flanged, grooved and graphited cast bronze bearings, manufactured to the SAE 660 Bronze specification. Please consult your nearest AST location for more information.

TYPICAL APPLICATIONS INCLUDE:

pumps, motors, automotive, off-highway vehicles, packaging equipment, textile machinery, medical and pharmaceutical equipment

ENGINEERED POLYMER PLAIN BEARINGS



- Low cost replacement for cast bronze bearings
- Chemical, moisture and particulate resistant
- Designed to meet the needs of most applications
- Light weight for space savings and easy installation
- Self lubricating for maintenance free use
- Abrasion and wear resistant for increased life expectancy
- Low noise and vibration

Sizes:

A broad range of inch and metric sizes are available. Consult AST.

Types:

Sleeve; Flanged; Thrust Washer

Materials:

A wide variety of synthetic compounds are available, depending on customer specifications. Consult AST for recommendations on shaft selection, hardness, finish, etc.

Temperature Range:

(Depending on material) -40°F to +485°F

TYPICAL APPLICATIONS INCLUDE:

agricultural equipment, food processing machinery, pumps, valves, conveyors, aerospace, automotive, textile machinery, chemical processing equipment, fluid power products, medical and pharmaceutical equipment



AST BEARINGS

MAIN OFFICE & WAREHOUSE

115 Main Road
Montville, NJ 07045-9299
Phone: (973) 335-2230
Fax: (973) 335-6987
U.S. Toll Free: (800) 526-1250

WEST COAST OFFICE & WAREHOUSE

3A Faraday
Irvine, CA 92618
Phone: (714) 543-8788
Fax: (949) 951-5634
Toll Free: (800) 227-8786

SOUTHWEST OFFICE & WAREHOUSE

11049 Ables Lane
Dallas, TX 75229
Phone: (972) 620-9004
Fax: (972) 241-7141
Toll Free: (800) 369-9204

www.astbearings.com