India’s Leading Manufacturer and Exporter of Cutlass Rubber Bearings
Established in 1979, **General Metals & Polymers** is an ISO 9001:2008 certified organization, a manufacturer and exporter specialising in Cutlass rubber bearings.

GMP has been supplying Cutlass bearings to the shipping industry, pump manufacturers, power plant’s, their OEM’s, OMS’s & maintenance companies all across India, Middle East, Europe and Australia for over 30 years.

- GMP is the first Indian company to indigenously develop WATER LUBRICATED BEARINGS for the Indian Navy in 1981.
GMP bearings are used in vertical pumps and marine shafts and cover a wide range of shaft diameters from **25mm to 400mm**. (bespoke sizes can be made on request)

- GMP bearings are used in
  - Cooling Water & ACW Pumps
  - Concrete Volute Pumps
  - Lift Irrigation pumps
  - Rudder Shafts
  - Desalination Plant Pumps
  - Condensate Extract Pumps
  - Propeller Shaft
  - Stern Glands
GMP Range of Bearings

**Cylindrical**

- Cylindrical and Flanged Sleeve.
- The inside rubber lining is Fluted or Spiral

**Flanged**

- Fluted in Circular or Polygonal Profile.

**Fluted**

- Available in metal or composite outer sleeve with Nitrile or Neoprene rubber lining.
Types of GMP Bearings

GMP Metal Sleeve Bearing
(Brass/Bronze/Stainless Steel)

GMP Spiral Groove Bearing

GMP Composite Sleeve Bearing

GMP Flanged Bearing

GMP Split Bearing
Metal Sleeve Materials

GMP Brass Bearing
- Grades:
  - LCB-1 (IS: 292)
  - LCB-2 (BS 1400)
  - DCB-1 BS 1400
  - DCB-3 BS 1400
  - ASTM B-135 C-27200

GMP Stainless Steel Bearing
- Grades:
  - SCS 23
  - AISI 316
  - SS 316
  - ASTM A276, UNS S32205
  - ASTM A890-4A, UNS J92205

GMP Bronze Bearing
- Grades:
  - LTB-1 (IS: 318)
  - LTB-2 (IS: 318)
  - LG-1 (BS 1400)
  - LG-2 (BS 1400)
Non Metal Sleeve Materials

- GMP Phenolic Bearings are made of proprietary composite materials developed by our in house R&D team.

- GMP Phenolic bearings can match the temperature range of other rigid alternate bearing materials to function at temperatures from -4°C to 70°C.

- High temperature resistance and negligible swelling characteristics of GMP composite rubber bearings enable them to operate at a closer running clearance than any other bearing material. Abrasion measured according to DIN 53516 - RT(mm3 loss) : 30-80 & 150°C(mm3 loss) : 50-80.

- GMP composite bearings allow a dry start up of 2 min.

- GMP Phenolic bearings are widely exported to Europe, Middle East and Australia.
GMP Flanged Bearings

- Our Flanged Bearings are cast centrifugally with an integral flange, the shells are heavy walled.
- The flange provides structural strength to retain bearing and prevent rotation in housing.
- Shells are furnished un-drilled unless specified.
- Available in solid and split design.
GMP Split bearing

- Designed for easy fitment and extraction in bronze or stainless steel
- Shells are precision machined with keystone or dovetail races.
- Longitudinal water grooves run the full length of the shell to provide optimum water flushing and lubrication
Testing and quality control is conducted at our lab equipped for

- Tensile testing
- Elongation testing
- Abrasion testing
- Friction testing
- Swelling testing

The QC department is equipped with dimension checking equipment and gauges. Every GMP bearing is checked for dimensional accuracy.
A few of our Customers

- GMP
- Tata Power
- Teignbridge Propellers
- NTPC
- Lanco
- Hellenic Propellers L.T.D
- KSK
- Expert United Marine Services LLC
- Wehr
- Mather + Platt
- JSW
- Voltas Limited
- Tamkeen
- Reliance
- Clyde Union Pumps
- BT Marine
- Caves Engineering & Marine