ACCURATE BEARING COMPONENTS

innovate

manufacture

excel

ABOUT ACCURATE BEARING COMPONENTS

Over 3 decades of excellence

Founded in 1992 and based in Bengaluru, Accurate Bearing Components delivers high-precision engineered solutions for the mobility and industrial sectors. Our capabilities span commercial vehicles, tractors, and passenger cars, with an expanding presence in construction and aerospace applications.

Anchored in a forward-looking vision, we continuously invest in innovation, capability building, and process excellence. As markets evolve, we evolve with them—pushing boundaries beyond automotive, shaping industry standards, and engineering solutions for the future.

VISION

To be the most reliable, technically advanced and environmentally sustainable supplier of a wide range of solutions for our customers.

MISSION

Engineering & Manufacturing Excellence
Delivering high-precision components through advanced manufacturing and robust process control.

Trusted Long-Term Customer Partnerships
Building lasting OEM and Tier-1 partnerships through reliability, transparency, and on-time delivery.

Sustainable & Responsible Growth
Driving profitable growth through energy-efficient, safe, and environmentally responsible practices.

WHY US?

01 Infrastructure

- Advanced infrastructure with modern technology
- Industry 4.0
- Total installed capacity of more than 7 million parts

02 Quality

- Preferred supplier for quality
- IATF 16949, ISO 9001, ZED Gold certified
- In-house inspection and metallurgical lab

03 Customer First

- Proactive technical and launch support
- Proven on-time delivery
- Long-term partnership mindset

04 GMPs

- Kaizen, Lean, and standardized work
- 5S-based clean and safe shop floor
- OEE & Takt time monitoring

PROCESSES

Our In-House Processes & Infrastructure

At Accurate Bearing Components, we pride ourselves on a fully integrated manufacturing ecosystem designed to deliver precision, reliability, and efficiency. Our in-house cold forging, machining, heat treatment, grinding, and finishing capabilities allow us to control quality, lead time, and cost across the entire value chain — critical for safety and high-volume applications.

Cold Forging

CNC Turning

Grinding

Heat Treatment

Phosphating

Projection Welding

COLD FORGING

Parts weighing between 70g-1000g can be forged using our mechanical and hydraulic presses ranging from 50T - 450 T.

CNC TURNING

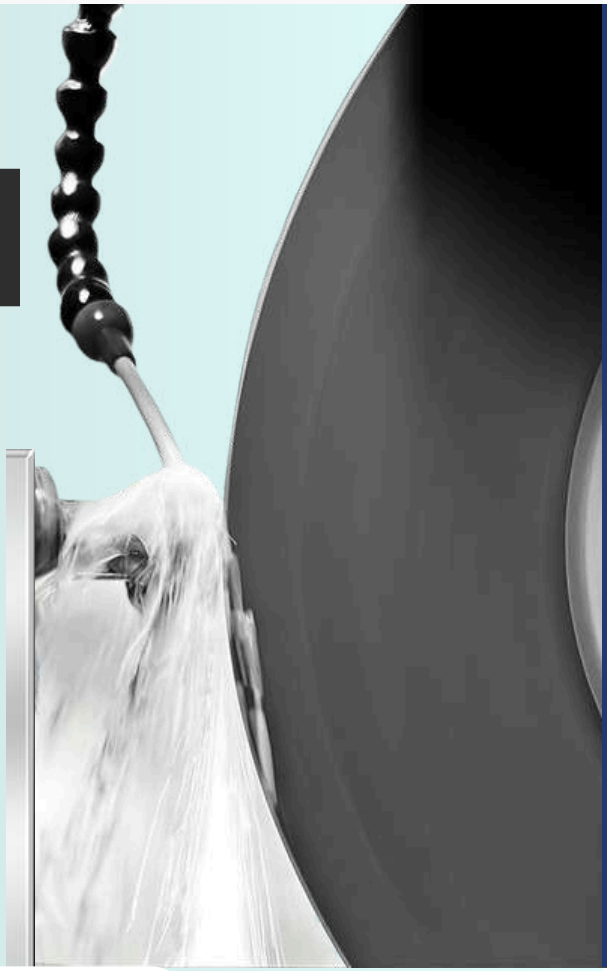
A range of automated twin-spindle, semi-automated, and single-spindle CNC turning centers capable of machining parts up to 150 mm in diameter.

HEAT TREATMENT

SCADA controlled sealed quench furnace setup from Ipsen and a range of annealing furnaces along with a metallurgical lab strengthen our critical process requirement.

PRECISION GRINDING

Range of double disk grinders, centerless grinders, profile grinders, ID grinding and honing machines help us achieve close tolerances.



PHOSPHATE COATING

Barreling machine, 6 tank phosphate coating setup and moly tumbling barrel take care of our phosphating needs.

PROJECTION WELDING

State-of-the-art projection welding and tensile testing machines ensure quality consistency of each weld on our range of stabilizer link sub assemblies.

PRODUCTS

Our Precision-Engineered Product Portfolio

Accurate Bearing Components offers a diverse range of precision-engineered products designed to meet the demanding requirements of automotive and industrial applications. Each product is manufactured with a focus on durability, performance, and cost-effectiveness, backed by our advanced infrastructure and stringent quality standards.

Steering Races

Ball Joint Cups

Stabilizer Links

Bearing Cups for UJ Cross

Cold Forged Components

Hydraulic Components

Machined Components

STEERING RACE

BEARING INNER | BEARING OUTER

Our steering races are built for rigidity, low friction, and functional safety. Using advanced grinding and superfinishing technology, both outer and inner races achieve tight tolerances and a superior finish—delivering precision and reliability.

OD/ID: 30–80 mm / 15–40 mm
Width: 8–35 mm
Material: SAE 52100

BALL JOINT CUP

TOP CUP | BOTTOM CUP

Produced via cold forging, then heat treated and precision machined, our low carbon steel cups deliver high strength, durability, and reliable high-volume performance for automotive applications.

OD/ID: 25–60 mm / 8–20 mm
Width: 15–50 mm
Material: SAE 1018

BEARING CUP

FOR UJ CROSS

Engineered with cold forging, heat treatment, and precision machining, our bearing cups deliver high strength, durability, tight tolerances, and reliable performance for critical automotive drivetrain applications.

OD: 20–45 mm
Width: 25–50 mm
Material: Low Carbon Steel

STABILIZER LINK

Our stab links are manufactured using a high precision projection welding machine that ensures consistent weldquality, critical to every part.

Cup OD: 25-35 mm
Rod Dia: 8-10 mm
Between Center: 65-325 mm
Angle: 0-180°

IBJ SOCKET

IBJ sockets for inner ball joints used in commercial vehicles are produced through advanced cold forging and high-accuracy machining. This process ensures excellent material integrity, consistent dimensions, smooth functional surfaces, and reliable performance in demanding suspension and steering applications.

OD: 30–45 mm

TAPER BUSH

Precision taper bushes which are used as pre-tensioners in the construction industry & applied at cable ends for tightening applications. Manufactured through advanced cold forging and precision machining, these components offer high strength, dimensional accuracy, and reliable performance under heavy tensile loads.

BB 13 & **BB 15**

PISTON

for HYDRAULIC CYLINDERS

We manufacture precision-machined pistons for hydraulic cylinders using medium carbon steel. Designed for strength and accuracy, our pistons ensure optimal load transfer, smooth operation, and dependable performance under high-pressure hydraulic condition.

Material: Medium Carbon Steel

HEAD END COVER

for HYDRAULIC CYLINDERS

We machine head end covers for hydraulic cylinders from medium carbon steel, ensuring high dimensional accuracy and excellent surface finish. Our precision machining capabilities deliver components that provide reliable sealing, structural integrity, and consistent performance.

Material: Medium Carbon Steel

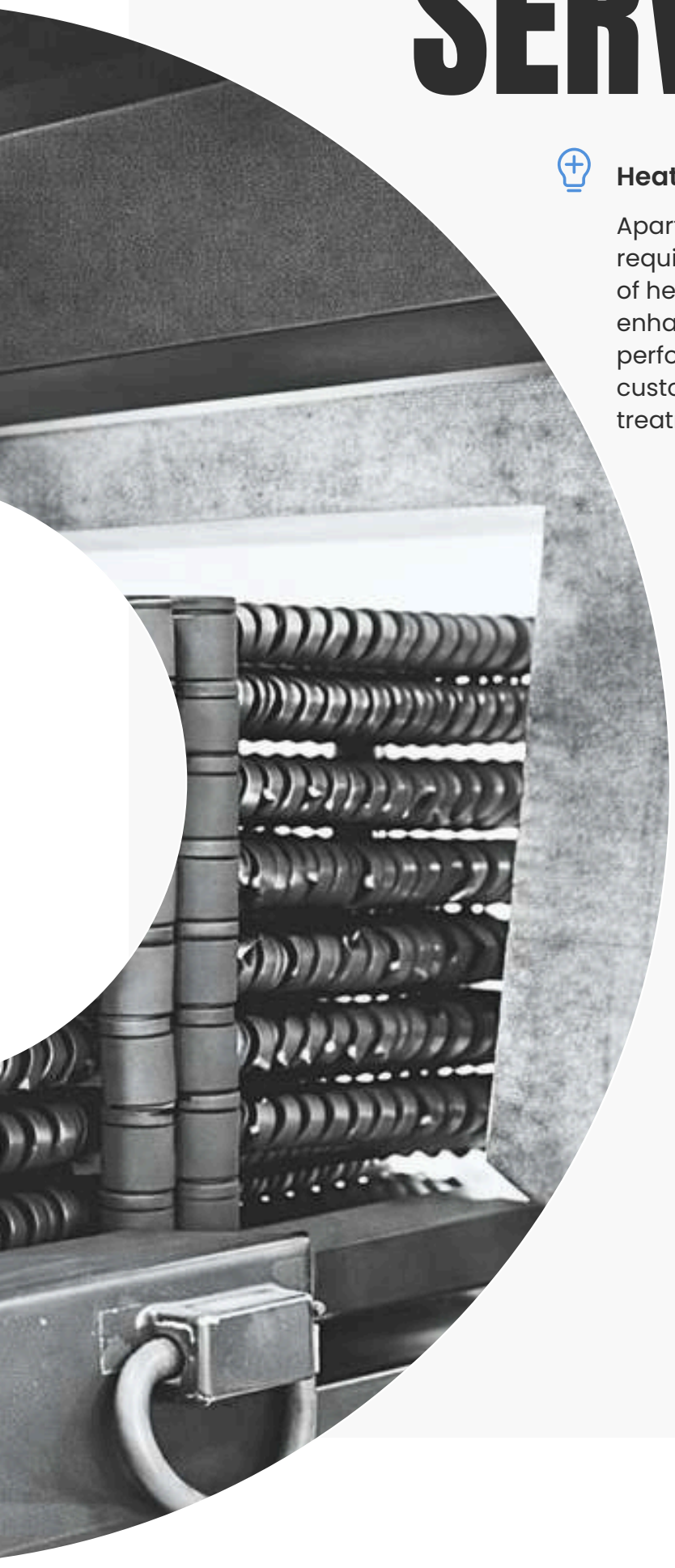
AEROSPACE PARTS

We undertake CNC machining of bearing races for critical aerospace applications, meeting stringent quality and tolerance requirements. To ensure exceptional accuracy and repeatability, we have invested in imported rubber-type collets, enabling precise clamping, minimal distortion, and consistent performance for high-reliability aerospace components.

CUSTOM PRODUCTS

We are equipped with a range of machines that increases the scope of service we can provide for specific applications

SERVICES



Heat Treatment Services

Apart from catering to our in-house requirement, we offer a complete range of heat treatment solutions designed to enhance strength, durability, and performance of critical components for customers requiring controlled heat treatment. Our capabilities include:

- **Case Carburizing** – for creating a hard, wear-resistant surface with a tough core.
- **Carbonitriding** – for improved fatigue resistance and enhanced surface hardness.
- **Through Hardening** – for uniform hardness and strength across the entire part.

With advanced furnace technology and strict process controls, we deliver consistent quality, tight tolerances, and reliable results that meet the demanding standards of automotive and industrial applications.

ACCURATE BEARING COMPONENTS

Committed towards carbon-neutral manufacturing through innovation and responsibility.

Completely SOLAR POWERED manufacturing plant with RAIN WATER HARVESTING and CARBON MONITORING

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