



INNOVATION

Precision & Commitment



Scan for
Virtual Tour



INDIA'S PREMIER PRODUCER OF "STEEL FORGED PISTONS"

CASTING



Our casting capabilities include various specifications and capacities. Firstly, our melting capacity stands at an impressive 75 tons per day, ensuring efficient and consistent production.

FORGING



Our forging capabilities encompass a wide range of specifications, allowing us to cater to diverse customer needs. When it comes to our capability, we can manufacture, from 1 kg to 20 kg parts. Steel Piston forging are our special forte

GEAR Hobbing & Shaving



The GSAI Gear Plant boasts an impressive array of infrastructure dedicated to the production of a diverse range of high-quality products. Among the major offerings are side gears, speed gears, PTO shafts & many more.

GSA Industries

www.gsains.com

GSAI FORGING INFRASTRUCTURE

We are specialized in **Forging** of Steel Forged Pistons, Gears, Axles and other Forging for Automotive & agriculture implements. In terms of diameter, our forging expertise extends up to 300 mm, enabling us to forge components of various sizes and configurations. This capability is essential for meeting the unique requirements of each project, where precise dimensions are of utmost importance. Furthermore, our length range capability reaches up to 300 mm, providing the necessary flexibility to forge parts of different lengths. This versatility allows us to serve a wide range of industries, from automotive, oil & gas and aerospace to construction in manufacturing.

Forging Capabilities

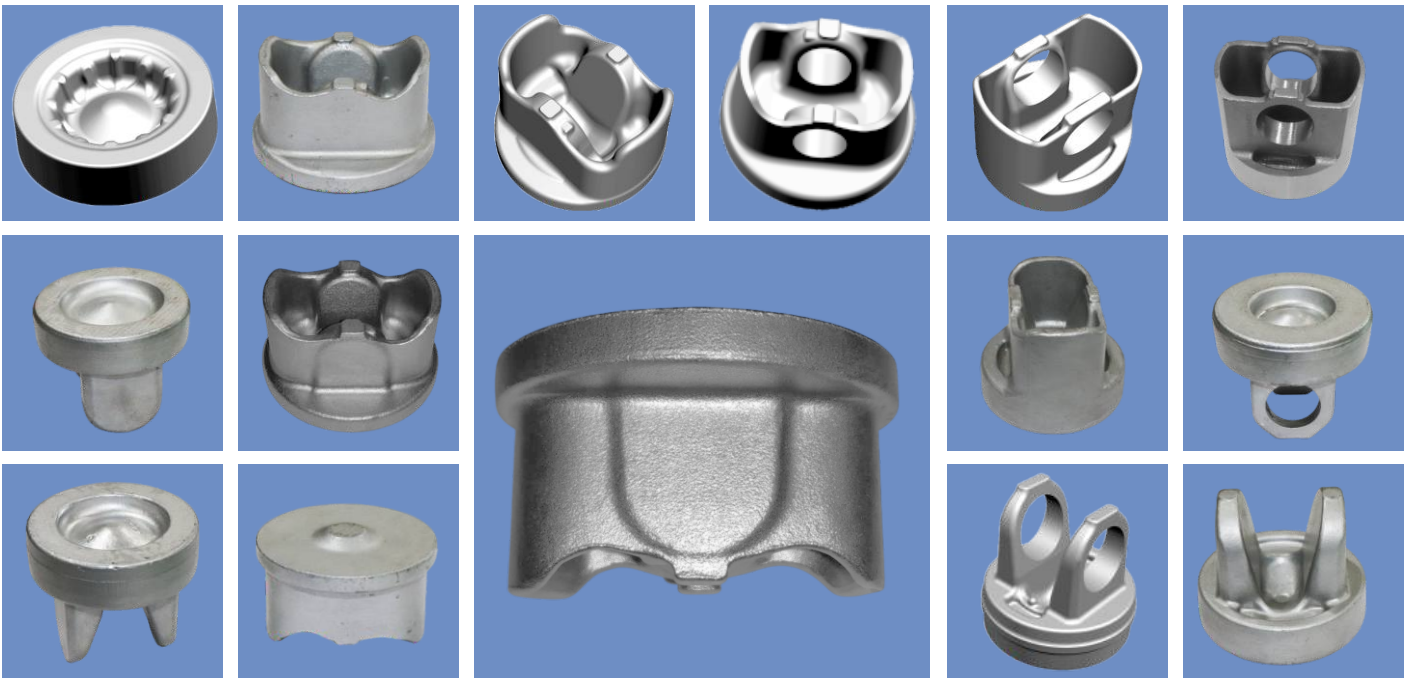
Weight Range : 1kg to 20kg

Diameter Range : up to 300 mm

Length Range : up to 300 mm

} Depending upon individual part's shape & profile

At our facility, we possess advanced heat treatment capabilities to ensure the optimal performance and properties of alloy steel forgings. With a focus on quality and precision, we offer a range of heat treatment processes tailored to specific requirements. For alloy steel forgings, we employ various heat treatment methods, including normalizing, hardening and tempering, and annealing. Normalizing helps refine the grain structure of the alloy, enhancing its strength and toughness. we also forge micro alloys with control cooling



We take great pride in our diverse range of capabilities, which enable us to provide comprehensive solutions to our customers. These capabilities include an in-house Tool & Die shop, equipped with state-of-the-art machinery and skilled craftsmen. This facility allows us to design and manufacture high-quality tools and dies tailored to specific requirements, ensuring efficient and precise production processes.

Facilities

- ✓ Sophisticated design & engineering capabilities
- ✓ Inhouse Tool & Die shop
- ✓ 3 Cells of Screw Presses 1000 Ton & 2500 Ton
- ✓ Magnetic Particle Inspection for crack detection
- ✓ Laser & Pin dot Marking Machine

Heat Treatment Capabilities

Alloy Steel Forgings

Normalizing

Hardening

Tempering

Annealing

Micro Alloy Steel Forgings

Controlled Cooling

Measurement & Inspection Capabilities

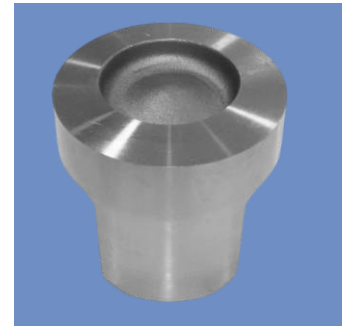
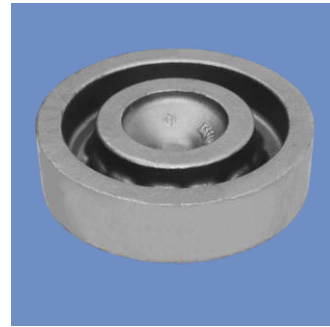
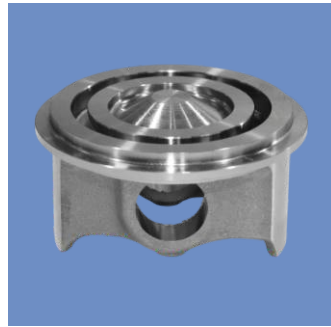
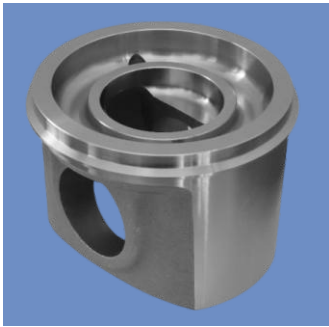
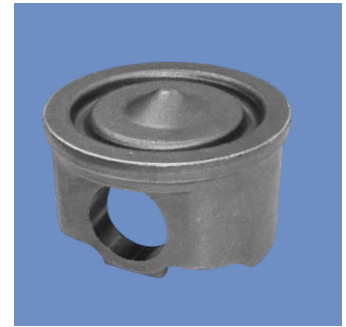
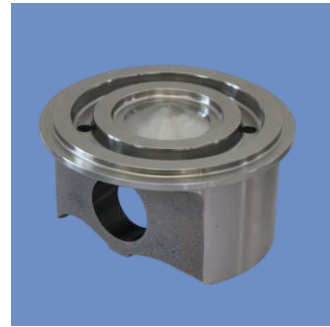
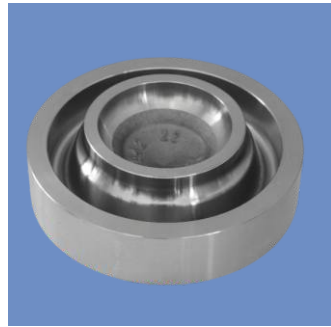
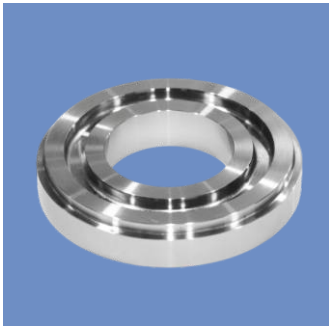
CMM GOM 3D SCANNAR FARO 3D SCANNAR

**GSAI MACHINING
INFRASTRUCTURE**

We specialize in **machining** steel forged components such as pistons, gears, axles, and other automotive forgings. Our advanced machining capabilities include state-of-the-art 5-Axis, Mill turn machines etc.

We manufacture pistons for following end users

MAN	VOLVO	GM	DAIMLER	CUMMINS
CATERPILLAR		JOHN DEERE		PEOGEOT



And other machining parts:



World class inspection technology for 2D & 3D measurements



CMM
(COORDINATE MEASURING MACHINE)



GOM ATOS Q
3D SCANNER



FARO
3D LASER SCANNER



CONTOUR TRACER

GS AI MACHINING INFRASTRUCTURE

Major Products : Side Gears, Speed Gears, PTO Shaft, Pinion Shaft, Input Shaft , Stub Axle Shaft, Dead Axle Shaft, Idler Axle Shaft, Drive Side Hub etc

Facilities : CNC Machining | VMC Machining | Broaching | Hobbing | Shaving | Grinding and Gear Box Assembly

To support the manufacturing processes and ensure precision, the plant is equipped with an assortment of cutting-edge facilities. By harnessing the power of these state-of-the-art facilities, the GSAI Gear Plant consistently delivers exceptional products that meet the highest industry standards, and we are able to manufacture 3 to 8 Module of Gears.

Gear Machining Capacity

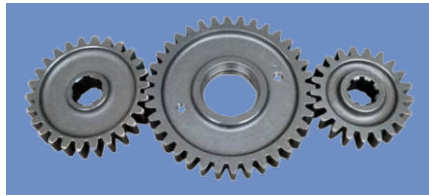
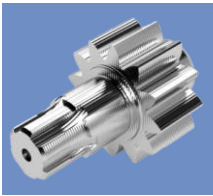
Product Type	Specification	Range
Gears	Module	3-8

Gear Box Assembly

Product Type	Specification	Range
Gear Box 13x23	Gear Ratio	16x19 / 17x18
Gear Box 13x25	Gear Ratio	16x20 / 17x19
Side Gear Box	Gear Ratio	12x24x24
Gear Box 15x20		

Facilities

- ☑ Gear Housing Machining
- ☑ Gear Teeth Cutter
- ☑ Gear Design as per Customer Requirement



GS AI CASTING INFRASTRUCTURE

We are specialized in Casting of Cast Iron, SG Iron, Stainless Steel, Mild Steel, Alloyed Steel (like EN3 & EN9) and Axle Shim with stack moulding process. Our facility boasts a world class sand testing laboratory, equipped to conduct comprehensive evaluations of chemical composition, mechanical properties, and micro structural analysis. Accredited by NABL, our laboratory adheres to rigorous quality standards, ensuring accurate and reliable test results. To support our casting operations, we have a fully equipped core shop featuring both a cold core box shooter and a shell core shooter. This allows us to efficiently produce cores of various shapes and sizes, meeting the specific requirements of each casting project.

Casting Capabilities

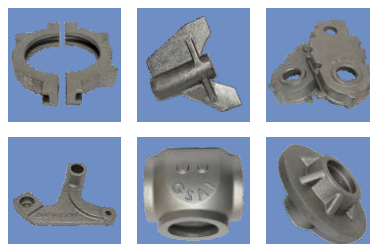
Melting Capacity	: 75 Ton/Day	Diameter Range	: up to 500 mm
Weight Range of Products	: 1 kg to 120 kg	Height Range	: up to 300 mm

Facilities

- ☑ NABL Lab for Chemical, Mechanical & Micro-Structure Testing
- ☑ World Class Sand Testing Lab
- ☑ Core Shop with Cold core box shooter & Shell core shooter
- ☑ Modern Sand Plant & Semi Automatic Stack Moulding Machine
- ☑ Shot Blasting
- ☑ Inhouse Fettling & Grinding

Material Grade (Per kg Price)

Grade	Price (\$)
Cast Iron:	1.2
SG Iron:	1.3
Mild Steel	1.5
Stainless Steel	2.5
Alloyed Steel	1.6



Note: Price can change according to Product Specification & Product Design

Contact Us



GSA Industries

Village - Daulatpur, Rasulpur Jaura Road,
Distt. - Patiala (Punjab), India

☎ 92170-22069, 92170-22066
✉ diwakar@gsains.com
✉ gsai_mkt@gsains.com
🌐 www.gsains.com



Follow us on [LinkedIn](#)



Scan for Virtual Tour