



FORGING

MACHINING



**GEAR
MANUFACTURING**

ASSEMBLY

CHAIRMAN'S CREDO



“ Our set of values and work-ethic keeps us steadfast in our commitment to deliver quality parts with synergy of innovation and best practices. We cherish our customers' satisfaction and aim to continue on the path of sustainable growth with world-class manufacturing practices, ensuring interests of all stake holders.”

S.S. CHAUHAN
Chairman & MD

JPF IN NUMBERS

We have **3** manufacturing plants.

We have covered area of over **3,00,000 sq.ft.**

We have the capacity to forge **32,000 MT per annum.**

With over **21 years** of manufacturing experience.

We have a team of over **1200+ people.**

We cater to the demands of **20+ OEM customers** for both domestic and global requirements.

Our product mix of **350+ parts** are being used for transmissions, axles and hydraulic system applications.

MANUFACTURING PLANTS



UNIT-I VILLAGE BHAGWANPUR, DERABASSI PUNJAB 140507

- Forging of Gears, Shafts and Precision Machined Parts
- Forging Capacity: 15500 (MT)
- Plant Area: 3 Acres
- Covered Area: 90000 Sq Ft.



UNIT-II VILLAGE BHAGWANPUR, DERABASSI, PUNJAB 140507

- Machining of Gears, Shafts, and Precision Components
- Machining Capacity: 1500000 (Nos.)
- Plant Area: 3.50 Acres
- Covered Area: 95000 Sq Ft.



UNIT-III VILLAGE-BEHRA, DERABASSI PUNJAB 140507

- Forging of Gears, Shafts and Precision Machined Parts
- Forging Capacity: 16500 (MT)
- Plant Area: 13.75 Acres
- Covered Area: 115000 Sq Ft.



VISION

“To be one of the preferred supplier of forged and machined parts for farm equipment, automotive & off-highway application industries by producing best in class products & achieving highest customer satisfaction.”



MISSION

“To build products of best quality, provide a safe and effective work environment, and contribute to the future success of our employees, customers & stakeholders.”



STRATEGY

- To deliver world-class quality
- Competitive pricing
- On-time delivery
- Best customer satisfaction
- Creating value for all stakeholders



CORE VALUES

- Passion
- Integrity
- Responsiveness
- Respect

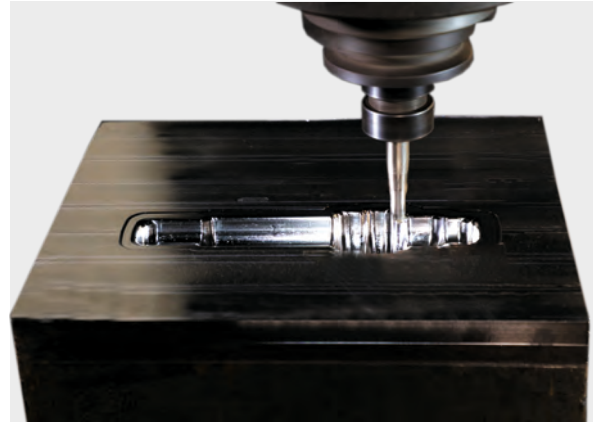
Our core values drive us to accomplish our vision.



■ DIE SHOP

Jai Parvati Forge is equipped with complete facilities of die making. We use 3D CAD/CAM design tools integrated with Vertical Machining Centres, CNC Vertical lathes & other high speed machines.

JPF brings its customers the advantage of faster turnarounds and lower costs by manufacturing and heat treating all forging dies in house.



■ DESIGN & ENGINEERING

We use CAD, CAM, CAE Simulation 3D modelling design software for product development and process optimization. We have complete in-house facilities of die making giving us an edge to support our customers with the advantage of faster turnarounds at best cost. At JPF we understand the importance of new product development for which we work on the core philosophy of first time right through CFT approach. This enables us to expedite the process of product development and reduce production launch lead time.

Jai Parvati Forge has the latest machinery and complete equipments of die making. We use 3D CAD/CAM design tools integrated with Vertical Machining Centres, CNC Vertical lathes & other high speed machines.





■ FORGING

At JPF, we have one of the best capacities and capabilities of forgings. Our infrastructure consists of automated press lines and air operated Hammers equipped with 3 Way temperature controlled Pyrometer-sensed induction billet heaters. Our forging lines are highly flexible and can produce parts of all complexities varying from 1 kg to 70 kg. Our in-house metallurgical lab supports our forging and heat-treatment operations. Our experienced metallurgical engineers can analyse chemical and structural composition, verify mechanical properties and perform detailed component analysis.



■ HEAT TREATMENT

Our in-house heat treatment comprises of SCADA controlled furnaces conforming to CQI 9 standards. We are capable to perform:

- Normalising
- ISO-Thermal Annealing
- Controlled Cooling
- Hardening & Tempering,
- Atmospheric Controlled Carburizing
- Press Quenching
- Induction Hardening & Tempering





■ QUALITY

Quality is at the core of everything we do. We focus and ensure that all our operations are designed and executed to produce world class quality achieving enhanced customer satisfaction. Our Inspection and Testing facilities ensure quality and reliability of products. Our efforts to practice Zero defects and continual improvement helps us to march towards the journey of operational excellence.



Our Metallurgical and Metrology Testing Facilities Include-



Spectrometer



Microscope with Image Analyzer



Automatic 2D Height Gauge



Ultrasonic Tester



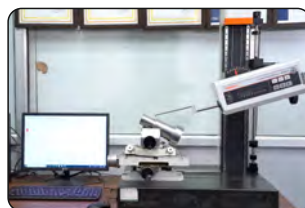
Eddy Current Sorter



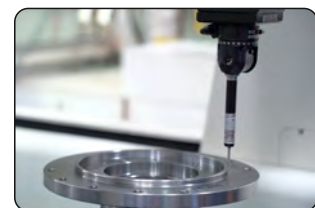
Auto Micro Vickers



Magnaflux (Crack Detection)



Contour Tracer



3D CMM
(Coordinate Measuring Machine)



OMM
(Optical Measuring Machine)



CNC Gear Tester



Profile Projector



Surface Finish Tester



Tool Presetter



Tensile Testing Machine



■ MACHINE SHOP

Our machining facilities of 300+ machines are well-equipped to deliver high precision and quality parts. The capabilities include-



CNC Turning Centres



Vertical & Horizontal
Machining Centres



Mazak Turnmill &
8-Axis Integrex



3-Axis CNC Deep Hole Drilling



Broaching Machines



Liebherr Gear Hobbing Machines



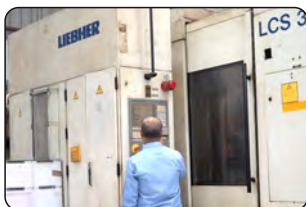
CNC Gear Shaving



CNC Gear Shapping



Profilator Power Skiving



Liebherr CNC Gear Grinding
(CBN/ CORUNDUM)



Galdabini Auto
Straightening Machine



Sealed Quenched
Furnace



CNC Cylindrical & Internal Grinders



Induction Hardening
(300KW)



Induction Hardening
(50KW - 200KW)



OUR PRODUCTS

BULL GEARS, TRANSMISSION GEARS & SHAFTS >>>



INDUCTION HARDENED
BULL GEAR



INDUCTION HARDENED
BULL GEAR



CARBURIZED SPUR
BULL GEAR



CARBURIZED HELICAL
BULL GEAR



BULL PINION SHAFT



BULL PINION SHAFT



BULL PINION SHAFT



HOLLOW SHAFT



HOLLOW SHAFT



HOLLOW SHAFT



MAIN SHAFT



DRIVE SHAFT



INPUT SHAFT



LAY SHAFT



INTERMEDIATE SHAFT



COUNTER SHAFT



OUTPUT FLANGE



HELICAL GEAR



DOUBLE SPUR GEAR



HELICAL DOUBLE GEAR

PLANETARY REDUCTION PARTS >>>



TORQUE HUB



RING GEAR CARRIER



RING GEAR



HUB GEAR



RING GEAR



RING GEAR INDUCTION
HARDENED



PLANETARY RING



RING GEAR



FRONT AXLE SPINDLE



SPINDLE



SPINDLE



AXLE SPINDLE



PLANET CARRIER



PLANET GEAR



SUN SHAFT



EBW SPINDLE



CLUTCH BELL
HOUSING



RING GEAR SUPPORT



HUB



SPINDLE

AXLE AND CHASSIS LEVERS >>>



RELAY DROP ARM



BELL CRANK LEVER
ASSEMBLY



STEERING LEVER



EQUALIZER ROD ASSEMBLY

FRONT AXLE SPINDLE ASSEMBLIES & STEERING ARMS >>>



FRONT AXLE
HUB ASSEMBLY



FRONT AXLE
SPINDLE ASSEMBLY



FRONT AXLE
SPINDLE ASSEMBLY



FRONT AXLE
SPINDLE ASSEMBLY



FRONT AXLE
STEERING KNUCKLE



FRONT AXLE
SPINDLE ASSEMBLY



FRONT AXLE
SPINDLE ASSEMBLY



FRONT AXLE
SPINDLE ASSEMBLY



FRONT AXLE
STEERING ARM



FRONT AXLE
STEERING ARM



FRONT AXLE
STEERING ARM



FRONT AXLE
STEERING ARM

HYDRAULIC PARTS >>>



LIFT ARM



LIFT ARM



ROCKER ARM



RESPONSE VALVE

SECTORS COVERED

Agriculture



Agriculture Equipment and Tractors

- Bull Gears
- Transmission Gears & Shafts
- Drive Spindles
- Ring Gears
- Planetary Gears & Carriers
- Flanges and Couplings
- Steering Knuckles & Arms
- Lift Arms

Off-Highway Vehicles



OFF Highway Vehicles

- Gears for Construction equipment and Mining
- Complete Planetary Gear set
- Final Drives

Commercial Vehicles



Commercial Vehicles

- Gearbox parts for Power Transmission
- Chassis Levers
- Bell Crank Housings & Equalizer Bar Assembly
- Ring Gears & Planetary Gears

Industrial Applications



Industrial Applications

- Planetary Drives
- Drive Spindles
- Housing & Gears

TECHNICAL CAPABILITIES

		Dia. Max	Modul Max	Length Max
Hobbing		630	8	
Shaving		400	8	
Broaching		25TON		
Shaping		400	6	70
Shaping 8-Axis (Multiple Shaping)		220	4	700
Teeth grinding	Standard	300	6	450
	CBN	300	6	500
External grinding		300		1000
Internal grinding		150		100
Power Skiving		320	4	100
Auto Straightening		60 Ton		700
Sealed Quenched Furnace (H.T.) 1500kg Charge Capacity				

ENVIRONMENT & OCCUPATIONAL SAFETY

■ ENVIRONMENT

Team Jai Parvati Forge is fully committed to protect our environment and in doing so we consider the economic and ecological aspects of the same. We contribute to the protection and improvement of the global environment by pursuing harmony between the environment and corporate activities, through our manufacturing processes.

■ SAFETY POLICY

Jai Parvati Forge's most valuable resource are the people who work for us. Their health & safety is of prime concern to us. Continuous training at all levels are provided to encourage awareness on safety.

Regular audit & risk analysis enables us to maintain and further develop the safety within the manufacturing area.



■ CSR & SUSTAINABILITY

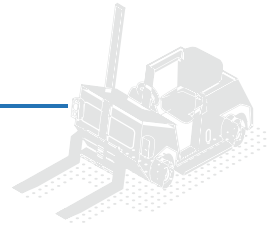
We at JPF believe in contributing the best towards the society through our CSR goals. Our Continuous efforts to create positive impact and progress are backed by various CSR initiatives in the field of education, Healthcare facilities and up-liftment of our surrounding rural infrastructure.

We are committed towards clean and green approach for a positive future. The key activities in this area include water conservation & re-cycling, use of renewable energy, migrating to returnable from wooden packaging.





OUR CLIENTS

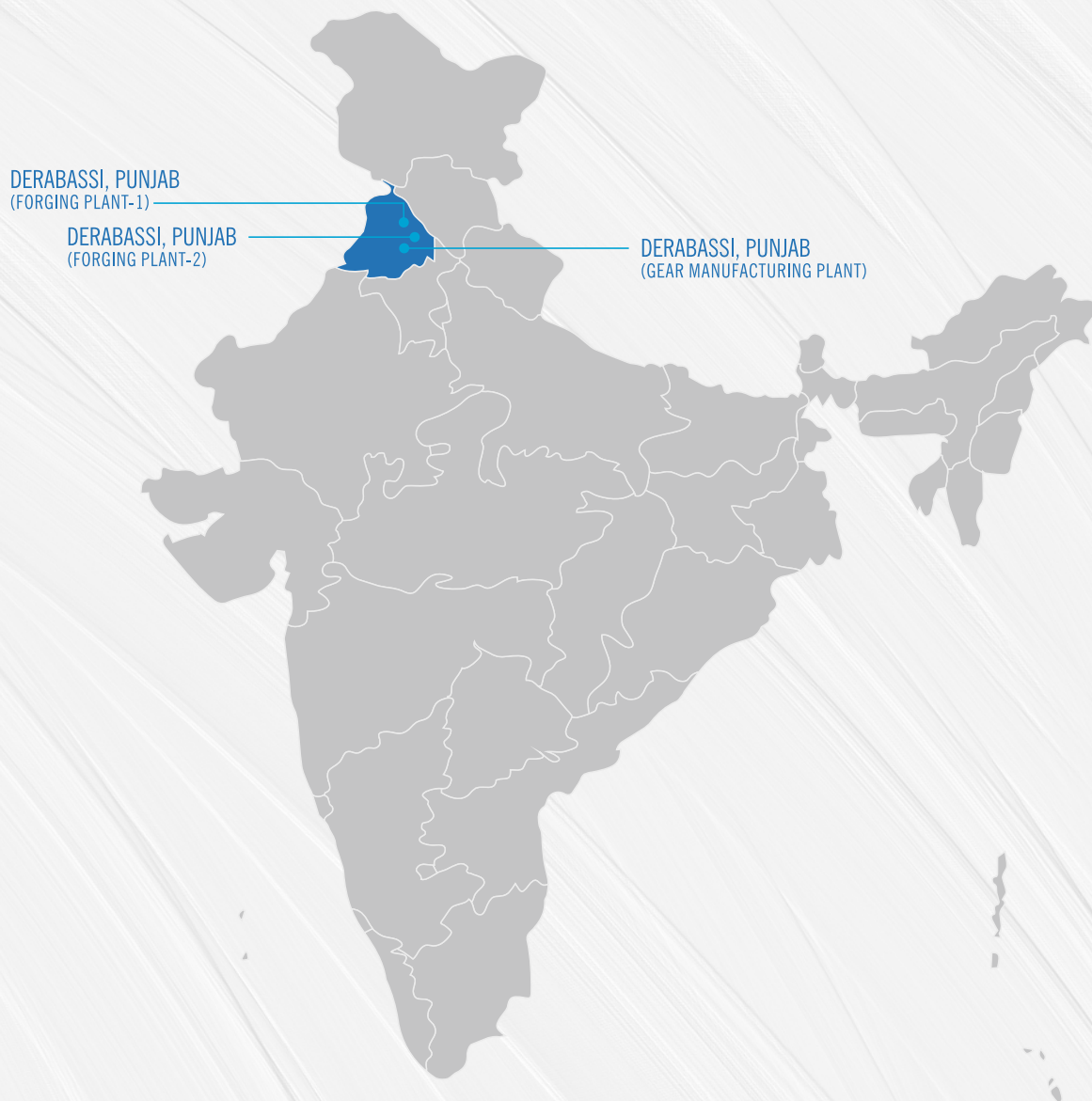


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