



Agriculture | Defence | Aerospace |  
Automotive | Railway | Oil & Gas

**PRECISION  
ENGINEERING  
& POWERING  
THE FUTURE**

BALU FORGE INDUSTRIES LIMITED

## WHO WE ARE

Balu had a humble beginning in the year 1989, in Belgaum, India. It has been a long journey & over three generations of the Balu Family have worked to build a truly global enterprise. But we have only just started & endeavor to become one of the largest Precision Engineering & Metal Forming Company in the world.

## WHY US

- 

One-roof forging & machining
- 

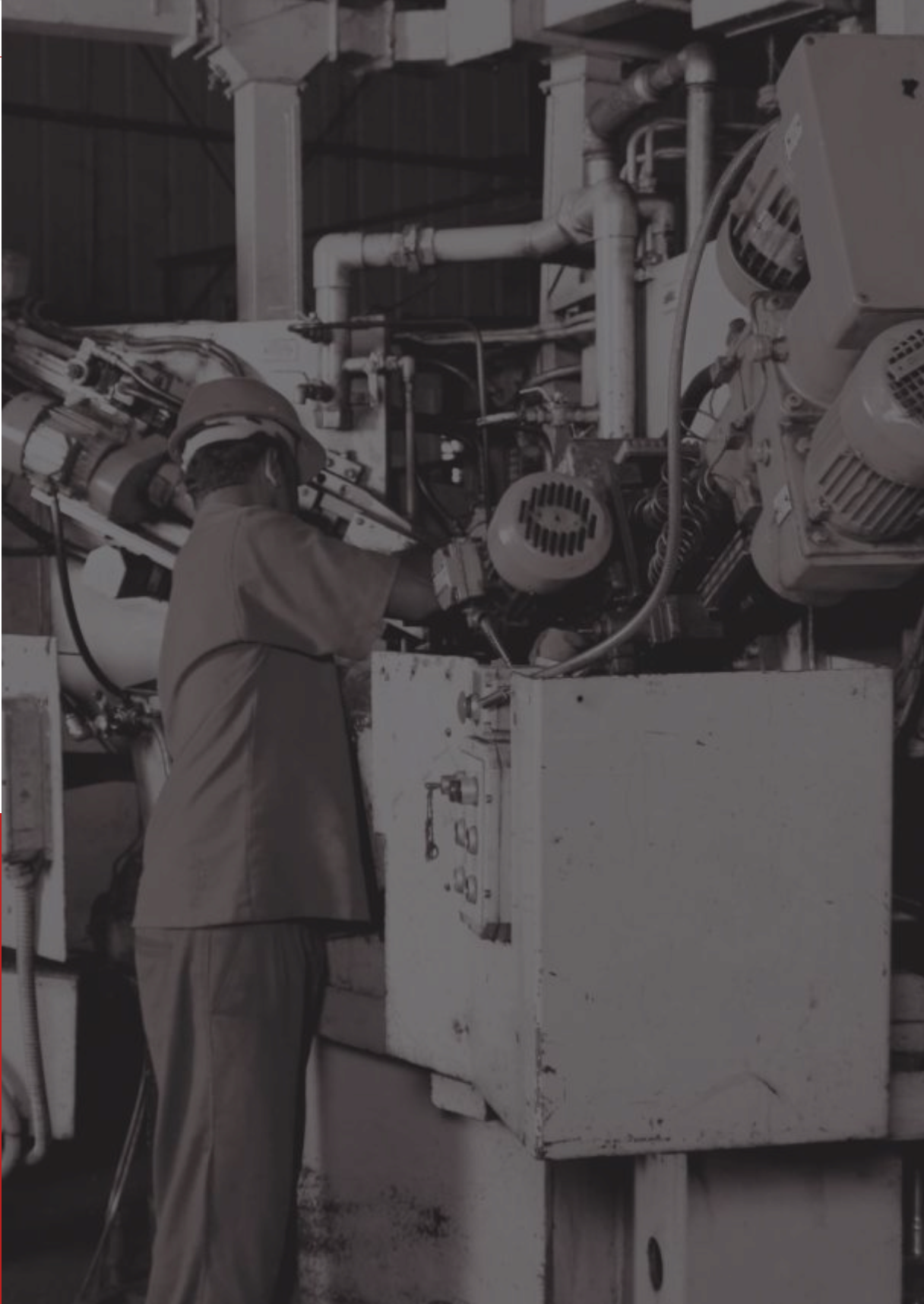
Global approvals & certifications
- 

Defence-grade compliance
- 

Scalable production
- 

Heavy & complex forging capability
- 

NABL Accredited Metallurgy Lab



## INDUSTRIES SERVED & APPLICATIONS

- 

AGRICULTURE
- 

DEFENCE
- 

RAILWAY
- 

OIL & GAS
- 

AUTOMOTIVE
- 

INDUSTRIAL VEHICLES
- 

WIND ENERGY
- 

EARTHMOVING MACHINERY
- 

AEROSPACE
- 

MARINE

## OUR MISSION & VISION

### Mission:

To manufacture and deliver superior quality products that meet or exceed customer expectations in terms of performance, reliability and cost-effectiveness.

### Vision:

To become a global leader in manufacturing and supplying high-quality forgings and precision engineering components.

# HISTORY

## HOW WE STARTED BALU

We had a humble beginning in the year 1989 in Belgaum, India. The initial set up was for manufacturing of crankshafts for single cylinder & two cylinder with a limited workforce. Within the last decade the company is supplying to over 25 OEM companies and the aftermarket presence has since expanded to over 80 countries. In 1989, we were the first company in India to mass - produce Crankshafts suitable for Tractor, Trucks and Passenger car applications. Two decades later we have gained an excellent reputation in the world market with over 4 manufacturing facilities. The modern era of Balu upholds the reputation of durability by manufacturing Crankshafts only out of Forgings & precision components conforming to the New Emission Regulations & Mobility / Energy Space.

1989

The foundation of 'Balu' was laid by Mr. Prehlad Singh Chandock

1991

First component manufactured in our factory

1995

First component exported to an overseas market

2006

Acquisition & Installation of the Ursus Manufacturing Plant from Ursus, Poland

2010

Acquisition & Installation of the Thyssenkrupp Plant from L'horme, France

2011

The company successfully achieved the milestone of building a presence in over 80 countries worldwide

2012

Got accredited with ISO/TS16949:2009 accreditation from world renowned company TUV NORD

2014

Achieved manufacturing of 1000 crankshafts in a single day

2017

Became a supplier of Choice to over 25 OEs spread over 5 Continents

2020

Got Accredited with the 14001:2015 & ISO 45001:2018 Certifications. Became an Approved Vendor to the Ordnance Factory Board & established a specialized manufacturing unit for the Defence Industry. Balu completed the transition & listing on the Stock Exchange. The constitution of the company was changed to public limited company

2021 / 2022

Acquired the Precision Machining Unit of the Mercedes Benz Truck factory from Mannheim, Germany  
  
Balu successfully completed the ESG audit by a reputed audit firm & joined the United Nations Global Compact Program in its efforts to be ESG compliant

2023

Laid the foundation for the greenfield forging & machining facility spread over 46 Acres in Belgaum, India

2024

Acquisition of 3 fully automated forging lines with GERB Technology namely: 16T, 10T Forging Hydraulic Hammer & 8000T Forging Press. These machines contribute to a combined forging capacity of 72,000 tons annually

2024 / 2025

Invested in 7 axis, 11 axis machining capability, 25T Hydraulic hammer line & a fully automated Empty Shell & Mortar production line with an annual capacity of 360,000 shells per annum

# CORE COMPETENCY

The Core Competencies which distinguish us from our competitors & the pillars which have ensured the building of a strong brand worldwide are as below:

- Complete CNC manufacturing capability
- Over three decades of experience in Precision Engineering
- Diversified Product Portfolio & Applications
- Supplier of choice for OEMs
- State of the Art Manufacturing set up
- In-house tool room
- In-house Metallurgical lab
- Dedicated R&D Facility
- Strong Emphasis on New Energy Vehicles & Components
- All machining & forging operations in-house
- Fully Integrated Plant providing full supply capability to its Geographically dispersed customers from concept to Product design, engineering, manufacturing, testing & validations, Highly skilled work force with a technologically advanced plant
- Well established brand worldwide
- In-house capability to manufacture a product from 1 Kg to 1500 Kgs & upto 3 meters long
- Supply base comprising over 25 OEMs both in India & overseas
- Aftermarket customer & distributor base in over 86 countries

## CERTIFICATIONS





MANUFACTURING FACILITIES

Unit 1

Kakti Industrial Area, Belgaum, Karnataka, India.  
(5 Acres)

Unit 2

Kakti Industrial Area, Belgaum, Karnataka, India.  
(2 Acres)

Unit 3

Hattargi Village, Hukkeri, Karnataka, India.  
(46 Acres)

Unit 4

Al Hulaila FZ, Ras Al Khaimah, UAE.  
(1 Acres)

Forging Capacity  
150,000+ MTPA

Advanced forging facility featuring **25 Ton, 16 Ton, and 10 Ton Hydraulic Hammers** and an **8000 Ton Mechanical Press** with Hydraulic Power Head. The system enhances the capacity of the hammers, resulting in significant energy savings. Equipped with **GERB Anti-Vibration Technology**, it increases accuracy, extends the life of presses and hammers, and ensures higher uptime with no breakdowns. Vibration levels are reduced by **up to 90%**, optimizing overall performance and efficiency.

Machining Capacity  
80,000+ MTPA

The machining facility operates with a capacity of **80,000+ MTPA**, advanced state-of-the-art **7-Axis and 11-Axis CNC** machining line supported by **Junker high precision grinding machines**. The machining process integrates advanced automation and robotics, including **FANUC robotic systems** in the empty shell production line.







# BFIL Greenfield Manufacturing Facility

A state-of-the-art **46-acre** facility in Belgaum, equipped with advanced **7-axis and 11-axis** CNC machining lines, delivering high-precision manufacturing at scale.

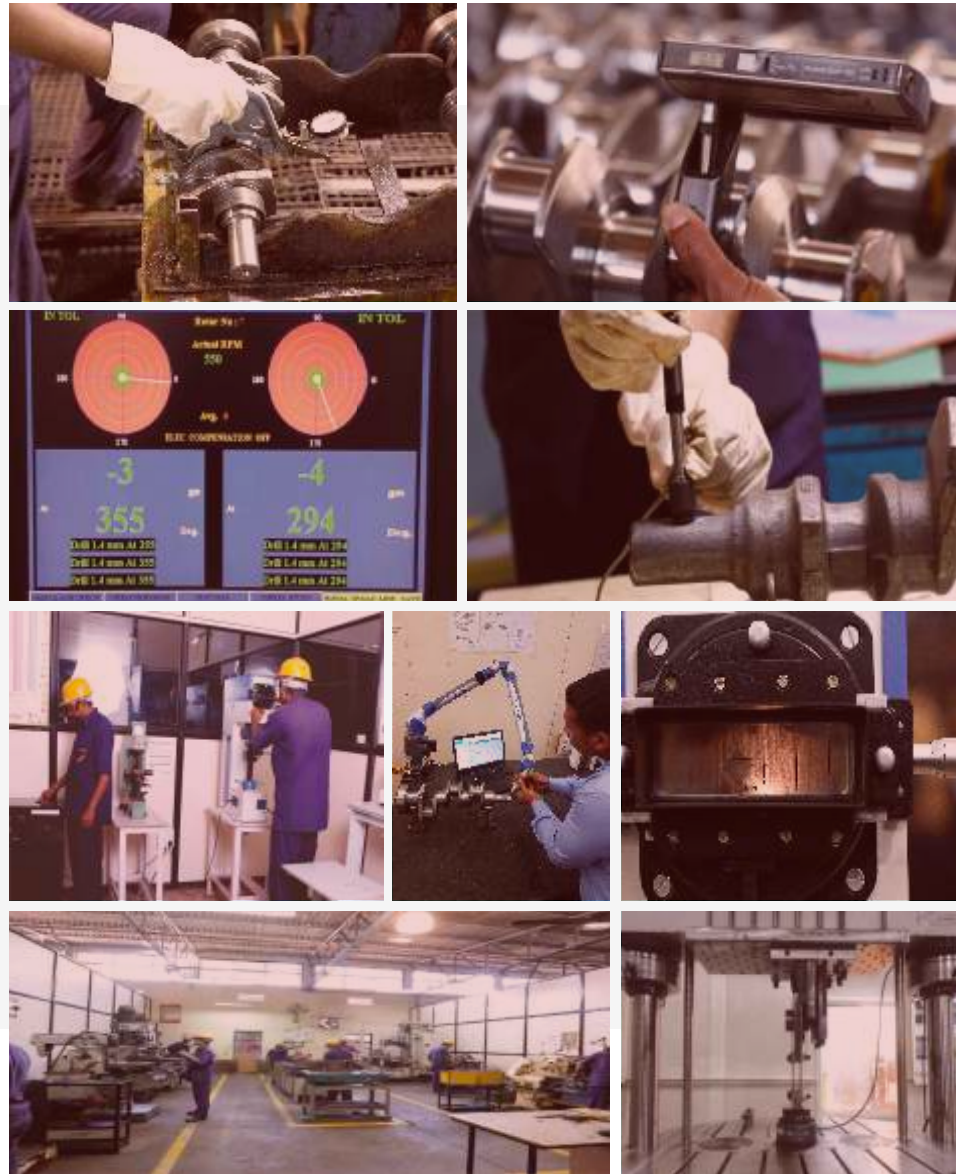


## MANUFACTURING EXCELLENCE AT EVERY STAGE



Our manufacturing strength is driven by advanced infrastructure, integrated processes, and robust quality control systems. With end-to-end capabilities in forging and precision machining, we deliver high-performance solutions across diverse industries, supported by continuous improvement and modern automation.





## In-House Tool Room & Metallurgical Lab



## Research & Development

## State of the Art Machining

Our machining operations are powered by cutting-edge infrastructure featuring a fully equipped in-house tool room, advanced metallurgical laboratory, and dedicated design & process development capabilities. These are complemented by rigorous inspection and testing systems to ensure uncompromising quality at every stage.

## Material Development

Our teams continuously study and advance material science – analysing evolving metal chemistries, alloy compositions, and real-world applications. This enables superior component performance and opens new frontiers in precision engineering.

## Product Engineering & Innovation

Driven by a relentless commitment to engineering excellence, we design and develop innovative forged components tailored to the evolving demands of automotive, defence, railway, aerospace, and energy industries.

## Advanced & Additive Manufacturing

By integrating advanced and additive manufacturing technologies into our development process, we enhance production flexibility, significantly accelerate prototyping, and compress product development cycles.

# DEFENCE & AMMUNITION

## FULLY AUTOMATED EMPTY SHELL PRODUCTION LINE

### AMMUNITION SUMMARY



MORTAR  
AMMUNITION



ARTILLERY  
AMMUNITION



TANK  
AMMUNITION



NAVAL  
AMMUNITION



RCL  
AMMUNITION



AERIAL  
AMMUNITION

### UPTO 360,000 SHELLS CAPACITY PER ANNUM

- 1000T Hydraulic Press
- 600MT Hydraulic Nosing Press
- Induction Heater 600 KW (Partial Heating)
- Powder Coating Paint shop with Automation
- Phosphating Plat of 155mm Full Automated
- Shot Blasting
- CNC Machining
- Cutting (Circular Saw) m/c
- 400T Vertical Elongator
- Induction Heater 1800 KW
- Copper Band Dia Press for Assembly
- 6-Axis multiple Robot
- Machine Auxiliary Supporting
- Sand Blasting
- Heat Treatment

### EMPTY SHELL



Mortar Ammunition  
51 mm, 81 mm, 120 mm



Artillery Ammunition  
155 mm, 130 mm, 105 mm



RCL Ammunition  
Round 84 mm



Naval Ammunition  
Cartridge 40 mm, 76.2 mm, 76/62 SRGM, RGB 60 Rocket



Tank Ammunition  
Round 120 mm, Shell 125 mm



Aerial Ammunition  
500 kg GP Aerial Bomb

### OTHER COMPONENTS

Balu Forge supplies a wide range of precision-forged armoured vehicle and weapon system components including:



Crankshaft



Breach Base



Road Wheel Arm



Flange



Crank 690



Track Guide



EFA Crankshaft



Sun Gear



Shoe



Gear Ring (Solid)



Hub Carrier



Track Link



Clamp



Intermediate Gear



ADVANCED AEROSPACE SOLUTIONS

Advanced aerospace solutions precision forgings for the world's most critical applications.

# AEROSPACE PRODUCT RANGE

### AERO STRUCTURE

Weight Range : 50 to 250 kgs  
Material : Titanium + Aluminium Alloy  
Scope : Forged + Semi Machined

### APU COMPONENTS

Weight Range : 5 to 300 kgs  
Material : Titanium + Aluminium Alloy  
Scope of Supply : Forged + Semi Machined

### LANDING GEAR COMPONENTS

Weight Range : 50 to 250 kgs  
Material : Titanium + Aluminium Alloy  
Scope : Forged + Semi Machined

### ENGINE COMPONENTS

Weight Range : 5 to 300 kgs  
Material : Titanium + Aluminium Alloy  
Scope of Supply : Forged + Semi Machined

RAIL MOBILITY SOLUTIONS

BFIL is a leading manufacturer of high-quality, precision engineered heavy forged components for the railway industry.





**WHEELS**  
(Upto 800 Kgs to 1350 Dia)



**AXLES**  
(Upto 900 Kgs to 2.5 Meters)



**WHEEL SETS**

OTHER COMPONENTS

|                                        |                                        |                                     |
|----------------------------------------|----------------------------------------|-------------------------------------|
| <b>Connecting Rod</b><br>50 to 150 kgs | <b>Connecting Cap</b><br>25 to 100 kgs | <b>Dog Pin</b><br>10 to 50 kgs      |
| <b>Crankshafts</b><br>2 to 1000 kgs    | <b>Camshafts</b><br>50 to 100 kgs      | <b>Control Arm</b><br>10 to 25 kgs  |
| <b>Flanges</b><br>100 to 600 kgs       | <b>Hooks</b><br>10 to 200 kgs          | <b>Lever</b><br>15 to 25 kgs        |
| <b>Gear Blanks</b><br>10 to 500 kgs    | <b>Nuts</b><br>5 to 150 kgs            | <b>Yoke Shafts</b><br>10 to 100 kgs |
| <b>Tail Pin</b><br>10 to 25 kgs        | <b>Rocker Lever</b><br>10 to 50 kgs    | <b>Roll Link</b><br>10 to 25 kgs    |
| <b>Arm</b><br>20 to 50 kgs             | <b>Link</b><br>50 to 150 kgs           | <b>Link Pin</b><br>15 to 50 kgs     |
| <b>Dome Nuts</b><br>10 to 25 kgs       | <b>Bend Arm</b><br>10 to 30 kgs        | <b>Yokes</b><br>10 to 50 kgs        |
| <b>Valve Body</b><br>10 to 850 kgs     | <b>Pivot</b><br>100 to 450 kgs         |                                     |

BFIL has evolved to produce a wide range of wheels, axles & wheel sets to meet the needs of our customers. Hence contributing sustainably to the Indian government’s Make in India initiative. We are one of the few fully integrated businesses, producing wheels, axles & wheel sets all under one roof. The firm has an experienced railway vehicle design & development team on hand to serve our patrons with prompt, high-quality & end to end solutions. The company meets the bulk requirements for locomotives, passenger vehicles, freight vehicles & other coaching vehicles in terms of wheels, axles & wheel sets. We produce high-quality wheel sets for clients all over the world with a production capacity of about 6,000 wheels per year to start with offering a diverse application suitable for railway wagons, passenger coaches & locomotives in various gauges. The company has successfully initiated supplies to Indian Railways & successfully negotiated a long term contract with a Middle Eastern nation.



OIL & GAS INDUSTRY SOLUTIONS

Balu Forge Industries Limited manufactures high-strength forged and precision machined components designed for demanding applications in the global Oil and Gas Industry. Our products are engineered to operate in high-pressure, high-temperature and corrosive environments, ensuring reliability and durability in critical oilfield operations.

OIL AND GAS  
PRODUCT  
RANGE





GATE VALVES



CHOKE VALVES



MUD GATE VALVES



FLANGES, TEES, CROSS, X-OVERS



PRESSURE CONTROL EQUIPMENT



FORGED HYDRAULIC FITTING, STUBS ENDS



CHICKSAN LOOPS & SWIVELS



HAMMER UNIONS & PUP JOINTS



MANIFOLD UNITS

ENGINEERED FOR HIGH-PRESSURE,  
HIGH-TEMPERATURE AND CRITICAL  
OILFIELD ENVIRONMENTS.



PRECISION ENGINEERING &  
POWERING THE FUTURE



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**PLANT ADDRESS UNIT 1**

43 - B, Kakti Industrial Area, Kakti,  
Belgaum - 591113, Karnataka, India.

**PLANT ADDRESS UNIT 2**

44 - A, Kakti Industrial Area, Kakti,  
Belgaum - 591113, Karnataka, India.

**PLANT ADDRESS UNIT 3**

428/1, Next to Aequs SEZ, Hattargi Village,  
Taluk Hukkeri - 591243, Karnataka, India.

**PLANT ADDRESS UNIT 4**

S21-03, Shed No.21, Al Hulaila FZ, Al Hulaila  
Industrial Zone-FZ, Ras Al Khaimah (RAK), UAE.



COMPANY WEBSITE

[www.baluindustries.com](http://www.baluindustries.com)