



## COMPANY PROFILE

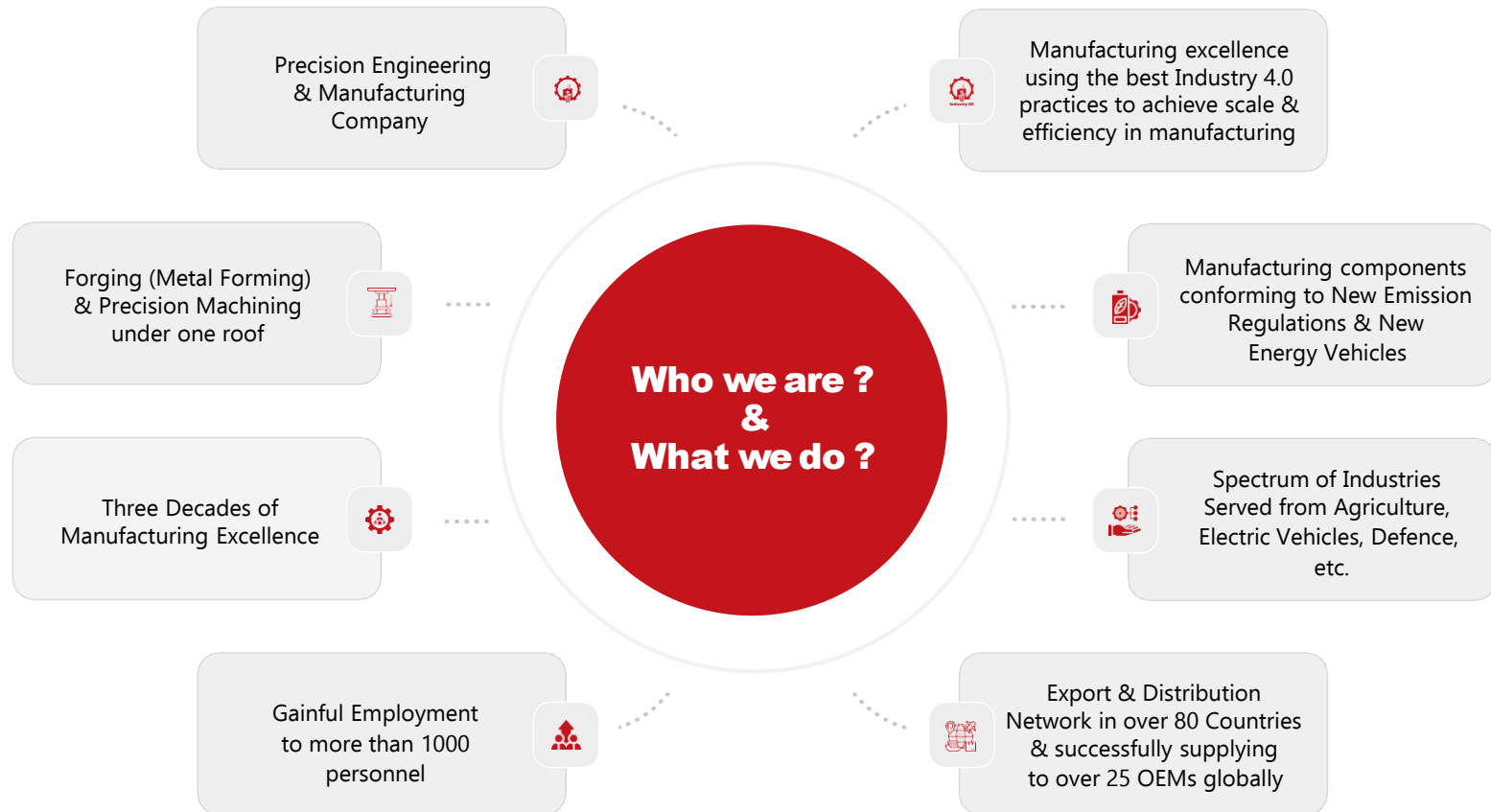
BALU FORGE INDUSTRIES LIMITED



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

# COMPANY OVERVIEW

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. We have also adapted to the changing times & enhanced our product portfolio to meet both the needs of both the Conventional ICE Applications & the New Energy Vehicles.



# INDUSTRY SERVED & APPLICATIONS



Agriculture : Tractors, Harvesters | Heavy Duty : Trucks, Buses, Trailers | Automotive | Generators : Industrial, Standby, Home backup, Portable | Oil & Gas : Pumps & Compressors | Refrigeration : Compressor | Industrial | Off Road & On Road : Motorcycles, Carts, Jet Skis | High Performance : Racing Series | Defence | Locomotive | Marine | Aerospace



AGRICULTURE



AUTOMOTIVE



INDUSTRIAL  
VEHICLES



RAILWAY



DEFENCE



AEROSPACE



EARTHMOVING  
MACHINERY



OIL & GAS

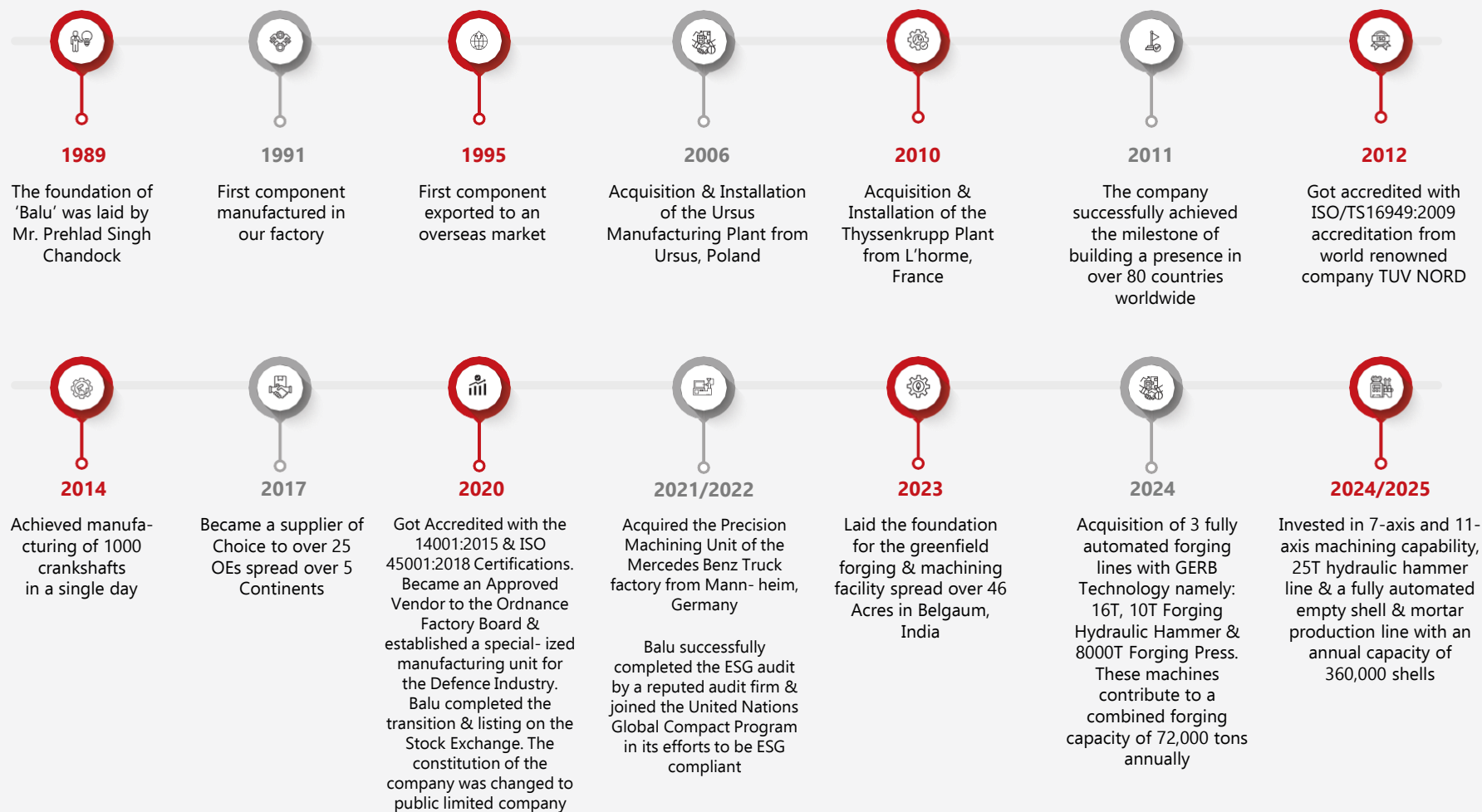


WIND ENERGY



MARINE

# COMPANY HISTORY & KEY MILESTONES



# 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
- Well established brand worldwide
- 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
- In-house capability to manufacture a product from 1 Kgs to 1500 Kgs & upto 3 meters long
- Supply base comprising over 25 OEMs both in India & overseas
- A Global customer base in over 86 countries

# FACTORIES

## —• PLANT ADDRESS UNIT 1

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

Area Size : 5 acres

## —• PLANT ADDRESS UNIT 2

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

Area Size : 2 acres

## —• PLANT ADDRESS UNIT 3

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

Area Size : 46 acres

## —• PLANT ADDRESS UNIT 4

S21-03 Shed No.21 - Al Hulaila FZ Al Hulaila Industrial Zone-FZ RAK, United Arab Emirates.

Area Size : 1 acre

## —• HEADQUARTER

5th Floor, Imperial Palace, 45, Telly Park Road, Andheri East, Mumbai –

400 069, Maharashtra, India.

# STRATEGICALLY LOCATED MANUFACTURING FACILITIES

**Karnataka, India - 3 Units, 53 Acres**  
**United Arab Emirates - 1 Unit, 1 Acre**

**Unit 1**  
**5 Acres**

**Unit 2**  
**2 Acres**

**Unit 3**  
**46 Acres**

**Hattargi**

Machining: 58,000+ MTPA  
 Forging: 100,000+ MTPA

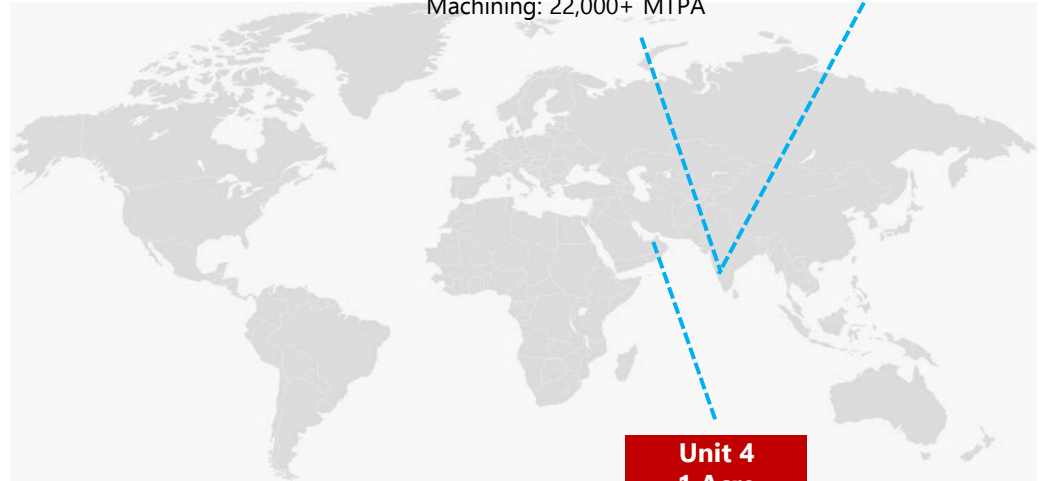
**Belgaum**

Machining: 22,000+ MTPA

**Unit 4**  
**1 Acre**

**Ras AI Khaimah, UAE**

15,000+ Units PA  
 Powertrain Sub Assemblies



Scan for videos



# LEADING WITH PRECISION MACHINING AND ENGINEERING



Aerospace



Agriculture



Automotive



Defence


Earth Moving  
Machinery

Industrial  
Vehicles


Locomotive



Marine



Oil &amp; Gas



Railway



Wind Energy

**Machining & Assembly**  
*Kakti, Belgaum*

**22,000+ MTPA**

**Machining & Assembly**  
*Hattargi, Hukkeri*

**58,000+ MTPA**

**7+ Acres**  
Established  
Manufacturing Facilities

**35+ Years**  
of extensive  
industry experience

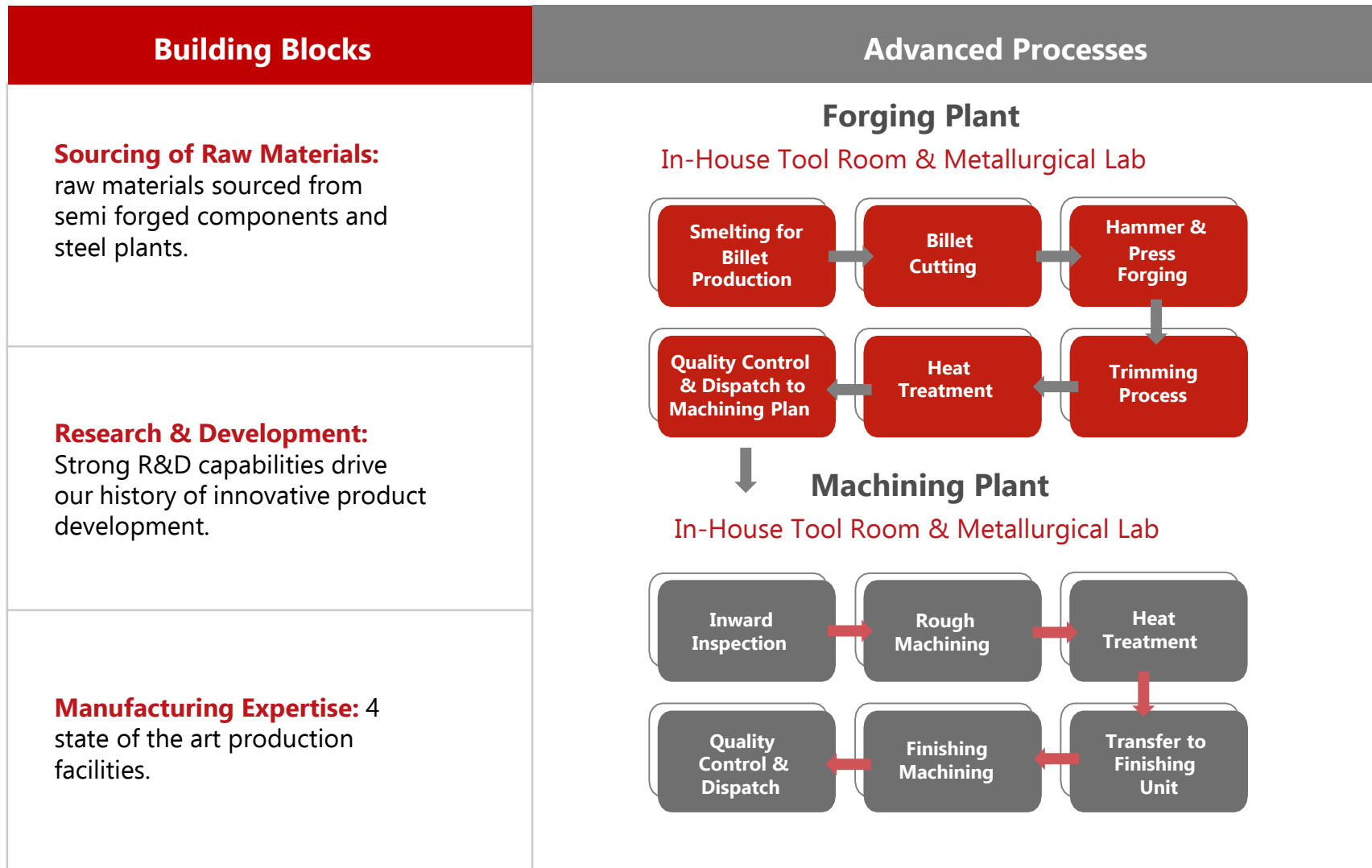
**46+ Acres**  
New Advanced  
Manufacturing Facilities

Outsourcing strategy to be gradually replaced by in-house forging capabilities. Increasing to 1,50,000 MTPA

**Forging**  
*Hattargi, Hukkeri*  
**100,000+ MTPA**

Forging infrastructure: 25T, 16T and 10T Hydraulic Hammers Line  
8,000T Mechanical Press Line  
1,000T Hydraulic Press Line

# BALU FORGE VALUE CHAIN



# DEDICATED 75 PERSON R&D TEAM

Successful R&D ensures continuous improvements in product quality, performance and efficiency

## R&D Process

- State of the Art Machining:**  
 Machining facilities feature cutting-edge infrastructure, including a comprehensive in-house tool room, metallurgical laboratories, design & process capabilities, as well as inspection & testing facilities
- Advanced & Additive Manufacturing:**  
 Utilize a range of additive manufacturing techniques to ensure flexibility and speed in rapid prototyping and product development
- Product Engineering & New Product Development:**  
 Concentrated efforts on engineering and creating new products across industries
- Development of New Materials:**  
 Projects focus on exploring various new material chemistries to analyze compositions and applications of innovative metals

Customer lifecycle and long product journey:  
15 to 20 years

Research & Application 2-3 Months



Product Development 3-5 Months



Customer Lifecycle 15 to 20 years

## Certifications



# OUR CAPABILITIES

## ADVANCED FORGING

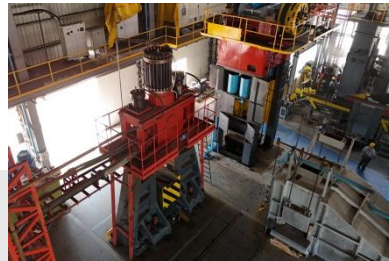
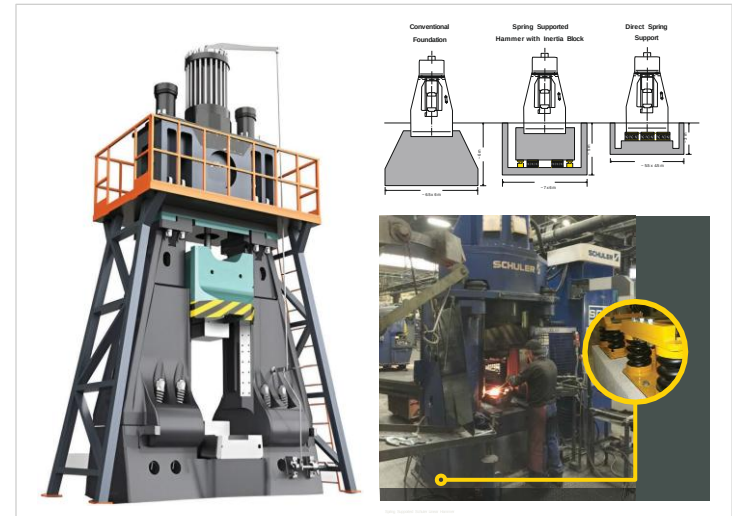
**BFIL offers cutting-edge forging capabilities with its advanced GERB technology.**

25 Ton, 16 Ton, 10 Ton Hydraulic Hammer and 8000 Ton Mechanical Press

- Hydraulic Power Head.
- Enhancing capacity of the Hammer, resulting in significant energy saving.
- Anti Vibration Technology from GERB Germany.
- Increases accuracy and enhances life of the Presses and Hammers.
- Increase in uptime of Hammers. (No Breakdown)
- It reduces vibration up to 90%.

Forging Capacity : **100,000+ MTPA**

(Will increase to **150,000 MTPA**)



# OUR CAPABILITIES

## PRECISION MACHINING

BFIL specializes in precision machining with advanced 7-Axis & 11-Axis capabilities.

Machining Capacity : **45,000+** MTPA

(Will increase to **80,000** MTPA)



7 Axis Machining

Our state-of-the-art 7-axis machining delivers unmatched precision and efficiency for complex manufacturing requirements. This advanced technology allows simultaneous movement along seven axes, enabling the creation of intricate geometries and fine details that traditional methods cannot achieve.



11 Axis Machining

Our state-of-the-art 11-axis machining offers unmatched precision, efficiency, and versatility for manufacturing complex parts in the aerospace sector. It aids in achieving higher precision, shorter setup time, increased productivity, complex geometries, increases flexibility & enable higher customisation. These factors make 11-axis machining ideal for producing high-precision, complex parts in industries requiring tight tolerances and reduced turnaround times.



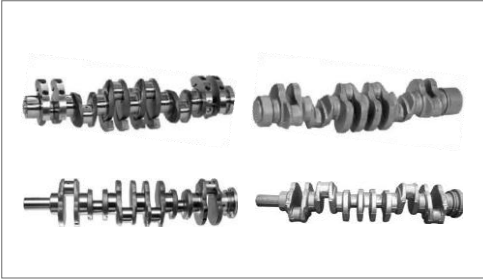
CBN Grinding M/C

High precision machine tool used for grinding complex geometries, particularly in the manufacturing of cutting tools, automotive components, and other precision parts. CBN grinding machines are known for their advanced technology, efficiency, and ability to perform multiple grinding operations in a single setup.



# KEY & CORE COMPONENT

## Crankshafts



## Under Carriage



## Transmission & Clutches



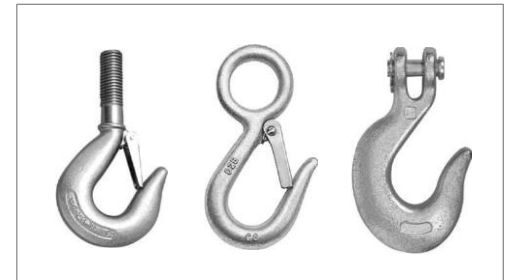
## Chassis



## Brake Parts



## Hooks



## Towing Accessories



**Supply Capability**  
Fully Finished or Assembled

# AEROSPACE COMPONENTS

- SPECIAL ELECTRICAL INDUCTION HEATING FURNACE WITH TEMPERATURE CONTROLLER WITHIN 3-DEGREE CENTIGRADE.
- SCADA SYSTEM AND TEMPERATURE RECORDING FOR EACH JOBS.
- AUTOMATION WITH ROBOTS FOR MATERIAL HANDLING.

## Aero Structure



Weight Range: 50 kg to 250 kgs    Material: Titanium + Aluminium Alloy    Scope of Supply: Forged + Semi machined

## APU Components



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

## Landing Gear Components



Weight Range: 10 kg to 300 kgs    Material: Titanium + Aluminium Alloy    Scope of Supply: Forged + Fully machined

## Engine Components



Weight Range: 5 kg to 300 kg    Material: Titanium + Aluminium Alloy    Scope of Supply: Forged + Fully machined

Note: The above images are for representative purpose only

# RAILWAY COMPONENTS

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.



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



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



**WHEEL SETS**

## OTHER COMPONENTS

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



**Connecting Rod**  
50 to 150 kgs



**Connecting Cap**  
25 to 100 kgs



**Crankshafts**  
2 to 1000 kgs



**Camshafts**  
50 to 100 kgs



**Flanges**  
100 to 600 kgs



**Hooks**  
10 to 200 kgs



**Gear Blank**  
10 to 500 kgs



**Nuts**  
5 to 150 kgs



**Tail Pin**  
10 to 25 kgs



**Arm**  
20 to 50 kgs



**Link**  
50 to 150 kgs



**Dog Pin**  
10 to 50 kgs



**Dome Nuts**  
10 to 25 kgs



**Control Arm**  
10 to 25 kgs



**Bend Arm**  
10 to 30 kgs



**Lever**  
15 to 25 kgs



**Yokes**  
10 to 50 kgs



**Yoke Shafts**  
10 to 100 kgs



**Roll Link**  
10 to 25 kgs



**Pivot**  
100 to 450 kgs



**Link Pin**  
15 to 50 kgs



**Rocker Lever**  
10 to 50 kgs



**Valve Body**  
10 to 850 kgs

Note: The above images are for representative purpose only

# DEFENCE COMPONENTS

## EMPTY SHELL



**Mortar Ammunition**  
51 mm, 81 mm, 120 mm



**Artillery Ammunition**  
155 mm, 130 mm, 105 mm



**Tank Ammunition**  
Round 120 mm, Shell  
125 mm



**RCL Ammunition**  
Round 84 mm



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



**Aerial Ammunition**  
500 kg GP Aerial Bomb

## Fully Automated Empty Shell Production Line

(Upto 360,000 shells capacity per annum)

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

## OTHER COMPONENTS



Crankshaft



Breach Base



Road Wheel Arm



Flange



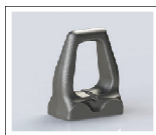
Crank 690



Hub Carrier



Track Link



Track Guide



EFA Crankshaft



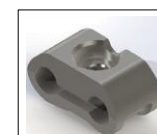
Sun Gear



Shoe



Gear Ring (Solid)



Clamp



Intermediate Gear

A large part of the Capital Investment for the next 10 years is planned towards Defence Production with also key Joint Ventures / Technology Partnerships in the Pipeline. The key areas planned in the coming years are Artillery, Undercarriage parts for Armored Vehicles, Weapons & Ammunition for Light & Heavy regiments and Forged & Machined Components for the Engine Division. There is a Dedicated Unit planned for Ammunition & Advance Defence System Production in partnership with prominent players in the Global Defence Production Mix. In Addition to the Dedicated Defence Production Facility, the R&D & Innovation Campus in Belgaum, India will spearhead the strategy laid down to build Advance Defence systems & solutions. There will continue to be a strong focus on further expanding the reach & customer base amongst more Defence Organizations globally & building a strong Defence Production Center for the Local & Global Defence Industry.

# OIL & GAS COMPONENTS

BFIL is a manufacturer specializing in forged components for the oil and gas industry. Their product range includes critical equipment and parts used in upstream, midstream, and downstream operations. Here's a breakdown of their offerings:



GATE VALVES



PRESSURE CONTROL EQUIPMENT



FLANGES



CHOKE VALVES



CHICKSAN LOOPS



MANIFOLD UNITS



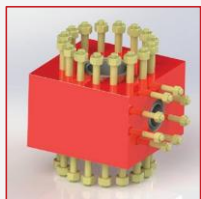
MUD GATE VALVES



HAMMER UNIONS



FORGED HYDRAULIC FITTING, STUBS ENDS



TEES



X-OVERS



PUP JOINTS

Note: The above images are for representative purpose only



# THANK YOU

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