



Company Profile

Engineering-led forging, machining and valve-component manufacturing

Prince Forge Industries is an **ISO 9001:2015 and PED certified manufacturer and supplier of high-quality forged materials and precision-finished components**, committed to delivering reliability, consistency, and complete material traceability. We provide a **one-stop manufacturing solution—from raw material selection and forging to machining and finished components—manufactured strictly as per customer drawings and technical requirements**. Every supply is supported with **Mill Test Certificates (MTCs), traceability records, and required certification documentation**. With a **wide inventory of material grades maintained for quick availability**, we are equipped to respond rapidly to urgent and regular requirements, helping our customers achieve **faster delivery, uninterrupted material supply, reduced production delays, and improved manufacturing productivity**. Our focus is to be a dependable long-term manufacturing partner by delivering the **right material, right quality, and right product at the right time**.



CORE PRODUCT FAMILIES

Forged rings & flanges; ball valve seat rings; seat holders/retainers; protective rings; valve bodies; trunnion plates; forged bars and custom forged blanks.

INTEGRATED CAPABILITIES

Forging, ring rolling, CNC machining, VMC machining, Heat treatment, and PTA / Stellite hardfacing with machining.

MATERIAL GRADES

A105 • F316 • F304 • F6A • Inconel 825 • Inconel 625 • Alloy 20 • F11 • F9 • F22 • F91 • F53 • F51 • Aluminum • Bronze • EN8 • EN9 • EN19 •SS 410 and other grades as required

INDUSTRIES SERVED

Valve • Oil & Gas • Infrastructure • Aerospace • Pump • Automobile • General Engineering

Valve & Ring Components



- GATE / GLOBE VALVE SEAT RING

- **Description:**
  Precision-forged and machined seat ring designed for reliable sealing in gate and globe valves. Available with **13% Chrome or Stellite hardfacing** for improved wear and erosion resistance.

- **Materials:**
  Available in **A105, LF2, F11, F22, F304, F316, F6A, F51, F53, F55, Alloy 20, Inconel 625, Inconel 825, Hastelloy** and other specified grades.

- **Use:**
  Used in **gate and globe valves** for dependable sealing and flow control in **oil & gas, petrochemical, refinery, power, chemical, steam, and process industries**.



BALL VALVE SEAT HOLDER

Description:
Precision-forged and machined component designed to securely locate and support the seat system in a ball valve assembly.

Materials:
Available in **A105, LF2, F11, F22, F304, F316, F6A, F51, F53, F55, Alloy 20, Inconel 625, Inconel 825, Hastelloy** and other specified grades.

Use:
Used in **ball valves** to hold the seat in position and maintain proper alignment for reliable sealing. Suitable for **oil & gas, petrochemical, refinery, chemical, power, and process industries**.



DIE FORGING / UPSET FORGED COMPONENT

Description:
High-strength forged component produced by **upset and die forging** for improved grain flow, strength, and reliable performance.

Key Details:
Process: Upset / Die / Head Forging
Supply: Forged, semi-machined, or fully machined
Materials: Carbon steel, alloy steel, stainless steel, duplex, nickel alloys, and other specified grades
Heat Treatment: As required by material and specification

Use:
Used for **connection flanges, valve parts, piping joints, couplings, pump components, and custom engineered parts**.

Industries:
Oil & Gas, Petrochemical, Refinery, Power, Chemical, Valve, Pump, and General Engineering.







- BALL VALVE BODY

- **Description:**
  High-strength forged ball valve body designed as the main pressure-containing part of the valve. Supplied as forged, semi-machined, or fully machined as per customer drawings.

- **Materials:**
  Available in **A105, LF2, F11, F22, F304, F316, F6A, F51, F53, F55, Alloy 20, Inconel 625, Inconel 825, Hastelloy** and other specified grades.

- **Use:**
  Used as the **main body of ball valve assemblies** to house the ball, seat, stem, and sealing parts for **oil & gas, petrochemical, refinery, chemical, power, pipeline, and general process industries**.

RETAINER RING

Description:
Precision-forged and machined ring component designed to securely retain, support, and position critical internal parts within butterfly valves and other industrial valve assemblies. Manufactured as per customer drawings to ensure accurate fitment, dimensional stability, proper alignment, and reliable performance under demanding service conditions.

Materials:
Available in **A105, LF2, F11, F22, F304, F316, F51, F53, F55, Alloy 20, Inconel 625, Inconel 825, Hastelloy** and other specified grades.

Use:
Used in **butterfly valves and other industrial valve assemblies** to securely retain, support, and position internal valve components, helping maintain proper alignment, stability, and dependable operation in **oil & gas, petrochemical, refinery, pipeline, chemical, power, water treatment, and general process industries**.

FORGED RINGS & FLANGES

Description:
High-strength forged and ring-rolled rings, circles, and flange blanks made for demanding machining and service applications. Supplied as forged, semi-machined, or fully machined components as per customer drawings.

Materials:
Available in **A105, LF2, F11, F22, F304, F316, F6A, F51, F53, F55, Alloy 20, Inconel 625, Inconel 825, Hastelloy** and other specified grades.

Use:
Used in **valves, piping systems, couplings, filtration equipment, water treatment systems, aerospace, oil & gas, petrochemical, refinery, power, chemical, and general industrial applications**.

Custom Forgings & Manufacturing Route



FORGED ROUND BAR

- **Description:**
  High-strength forged round bars with suitable heat treatment for excellent strength, toughness, and reliable performance. Supplied in required diameters and cut lengths as per customer specifications.
- **Materials:**
  Available in **A105, LF2, F11, F22, F304, F316, F6A, F51, F53, F55, Alloy 20, Inconel 625, Inconel 825, Hastelloy, EN8, EN9, EN19** and other specified grades.
- **Use:**
  Used for manufacturing **stems, shafts, pins, bushes, couplings, valve parts, pump components, and other precision-engineered parts** for **oil & gas, petrochemical, power, automobile, aerospace, pump, and general engineering industries**.

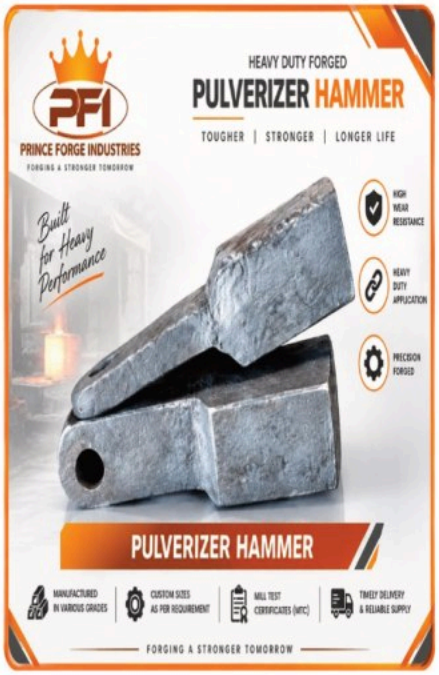


BLOCK / PATTA FORGING

Description:
High-strength forged blocks, pattas, and rectangular blanks produced for heavy-duty machining applications. Supplied in standard or custom sizes with suitable heat treatment as per material grade and customer requirement.

Materials:
Available in **A105, LF2, F11, F22, F304, F316, F6A, F51, F53, F55, F310, Alloy 20, Inconel 625, Inconel 825, Hastelloy, EN8, EN9, EN19** and other specified grades.

Use:
Used for manufacturing **turbine parts, pump components, valve parts, dies, tooling, machine parts, pressure equipment, and other custom engineered components** for **oil & gas, petrochemical, power, automobile, turbine, pump, and general engineering industries**.



BEATER HAMMER

Description:
Heavy-duty forged beater hammer designed for high-impact, crushing, and wear applications. Supplied as forged or machined components with suitable heat treatment for strength and durability.

Materials:
Available in **EN8, EN9, EN19, carbon steel, alloy steel, stainless steel**, and other customer-specified high-strength or wear-resistant grades.

Use:
Used in **pulverizer machines** to crush and grind materials into fine powder for **mineral, chemical, food, pharmaceutical, agricultural, recycling, and general industrial applications**.

Facilities, Quality & Contact

PRINCE FORGE INDUSTRIES
FORGING A STRONGER TOMORROW

PRECISION | QUALITY | RELIABILITY
CUSTOM FORGINGS FOR A BETTER TOMORROW

ISO 9001:2015 CERTIFIED
PED CERTIFIED

FORGING MACHINE

POWERING STRENGTH
SHAPING POSSIBILITIES



- HIGH STRENGTH
- RELIABLE PERFORMANCE
- DURABLE CONSTRUCTION
- SUITABLE FOR CUSTOM FORGINGS

DESCRIPTION

A heavy-duty forging machine used to shape heated metal by applying repeated impact or compressive force. It converts billets, bars, blocks and other heated raw materials into strong forged components with improved grain flow, mechanical strength, toughness and structural integrity. The machine is suitable for producing customized forgings as per customer drawings and further machining requirements.

KEY DETAILS

Machine Type	:	Industrial Forging / Power Hammer Machine
Process	:	Hot Forging
Working Principle	:	Repeated hammer impact on heated metal using forging dies and tooling
Raw Material	:	Round bars, billets, blocks, ingots and cut sections
Output	:	Forged rings, blocks, pattas, shafts, stems, flanges, valve parts and custom forgings
Material Capability	:	Carbon steel, alloy steel, stainless steel, duplex steel, nickel alloys and other forgeable grades
Post-Processing	:	Heat treatment, machining, inspection, testing and finishing as required
Main Benefit	:	Produces components with improved grain flow, high strength, toughness and reliable mechanical properties

USED FOR

Used for manufacturing valve bodies, valve seat rings, seat holders, forged rings, flanges, shafts, stems, trunnion components, blocks, pattas, couplings, pump parts, turbine parts, hammer components and other custom-engineered forgings.

INDUSTRIES

Valve Industry · Oil & Gas · Petrochemical & Refinery · Power Generation · Pump Industry · Turbine Industry · Automobile · Aerospace · Pressure Equipment · Chemical Processing · Water Treatment · General Engineering

FROM HEAT TO STRENGTH
BUILT FOR INDUSTRY

QUALITY FOR TODAY | STRONGER FOR TOMORROW

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ISO 9001:2015 CERTIFIED
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RING ROLLING MACHINE

SHAPING STRENGTH
FOR A BIGGER TOMORPOW

LARGER DIAMETERS
HIGHER STRENGTH
SUPERIOR QUALITY



PRECISION RING SHAPING · HIGH STRENGTH & RELIABILITY · CUSTOM SIZES & MATERIAL GRADES · COST EFFECTIVE SOLUTIONS

DESCRIPTION

A ring rolling machine is used to produce seamless rings by gradual deformation of a heated billet. The billet is pierced and expanded between driven rolls to achieve the required diameter, wall thickness and mechanical properties. It ensures uniform grain flow, high strength and excellent dimensional accuracy, making it ideal for critical and heavy-duty applications.

KEY DETAILS

Machine Type	:	Ring Rolling Machine
Process	:	Hot Ring Rolling
Working Principle	:	Radial and axial rolling of heated billet using driven rolls
Capacity	:	As per ring size and material grade (varies by model)
Ring Diameter	:	Small to very large diameter (as per machine)
Wall Thickness	:	Controlled and uniform
Raw Material	:	Round bar, billet, block, hollow preform
Material Capability	:	Carbon steel, alloy steel, stainless steel, duplex steel, nickel alloys and other forgeable grades
Output	:	Seamless rings, flanges, circles and custom ring sections
Main Advantage	:	Uniform grain flow, high strength, excellent dimensional accuracy and minimal material wastage

USED FOR

- Manufacturing seamless forged rings, flanges, circles and ring blanks.
- Production of rings for valves, pressure vessels, bearings, gears, wind turbine, industrial and heavy-duty applications.
- Suitable for high-strength and high-integrity components.

INDUSTRIES

Valve Industry · Oil & Gas · Petrochemical & Refinery · Power Generation · Aerospace · Automobile · Heavy Engineering · Marine Industry · Turbine Industry · General Engineering

RING ROLLING PRODUCTS



Forged Ring · Flange Ring · Ring Blank · Custom Ring

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PRINCE FORGE INDUSTRIES
FORGING A STRONGER TOMORROW

PEOPLE · PROCESS · QUALITY · TRUST · GROWTH

HEAT TREATMENT FURNACE

Controlled Heating for Reliable Mechanical Properties



PRECISION HEAT TREATMENT
STRONGER COMPONENTS
BRIGHTER INDUSTRIES

ENGINEERED FOR A STRONGER TOMORROW

DESCRIPTION

Our heat treatment furnace is used for controlled heating and cooling of forged and machined components to achieve required hardness, toughness, ductility, stress relief and metallurgical properties. Designed for uniform heating with precise process control, it ensures consistent and reliable results for critical industrial applications.

KEY DETAILS

Type	:	Industrial Batch Heat Treatment Furnace
Heating Method	:	Electric / Gas Fired
Temperature Range	:	Up to 1200°C (as per configuration)
Chamber	:	Refractory-lined insulated chamber
Control	:	Digital temperature and soaking-time control
Application	:	Heat treatment of forged and machined components.

HEAT TREATMENT PROCESSES

- Annealing
- Normalizing
- Hardening
- Tempering
- Stress Relieving
- Solution Annealing

MATERIALS HEAT TREATED

- Carbon Steel
- Alloy Steel
- Stainless Steel
- Duplex / Super Duplex
- Tool Steel
- Nickel Alloys
- Inconel, Hastelloy
- EN8, EN9, EN19, A105, LF2, F11, F22, F304, F316, F51, F53, F55

USED FOR

- Improving hardness and toughness
- Relieving stress
- Improving wear resistance
- Refining structure
- Preparing components for machining or service

INDUSTRIES

Valve Industry · Oil & Gas · Petrochemical · Refinery · Power Generation · Pump Industry · Automobile · Aerospace · Chemical Processing · Water Treatment · General Engineering

TYPICAL COMPONENTS HEAT TREATED



Forged Rings · Flanges · Valve Bodies · Seat Rings · Seat Holders · Stems · Shafts · Blocks · Pattas · Beater Hammers

YOUR COMPONENTS OUR COMMITMENT

Uniform Heating · Controlled Properties · Reliable Performance · Custom Heat Treatment

QUALITY PROCESSING FOR A STRONGER TOMORROW

PRINCE FORGE INDUSTRIES
FORGING A STRONGER TOMORROW

PRECISION | QUALITY | RELIABILITY
CUSTOM FORGINGS FOR A BETTER TOMORROW

ISO 9001:2015 CERTIFIED
PED CERTIFIED

VMC MACHINE

VERTICAL MACHINING CENTER

HIGH PRECISION MACHINING
FOR CRITICAL COMPONENTS



HIGH ACCURACY · EXCELLENT SURFACE FINISH · COMPLEX MACHINING · HIGH PRODUCTIVITY · RELIABLE PERFORMANCE

DESCRIPTION

A Vertical Machining Center (VMC) is a high-precision CNC machine used for milling, drilling, tapping, boring and complex machining operations. It provides excellent dimensional accuracy, surface finish and repeatability for critical components. The VMC machine is suitable for machining forged and fabricated parts as per customer drawings and specifications.

KEY DETAILS

Machine Type	:	Vertical Machining Center (VMC)
Control System	:	CNC (e.g. Fanuc / Siemens / Mitsubishi)
Spindle Orientation	:	Vertical
Table Size	:	As per machine specification (varies by model)
X / Y / Z Travel	:	As per machine specification (varies by model)
Spindle Speed	:	High speed (varies by model)
Tool Magazine	:	Automatic Tool Changer (ATC)
Number of Axis	:	3 Axis / 4 Axis (as per requirement)
Material Capability	:	Carbon steel, alloy steel, stainless steel, duplex steel, nickel alloys and other grades
Machining Accuracy	:	High precision and repeatability
Applications	:	Milling, drilling, tapping, boring, contour machining and complex profiles

USED FOR

- Machining of forged rings, flanges, valve bodies, seat rings, seat holders, stems, shafts, blocks, pattas and custom components.
- Precision machining of complex and intricate components.
- Suitable for small to large size components with excellent dimensional accuracy and surface finish.

INDUSTRIES

Valve Industry · Oil & Gas · Petrochemical & Refinery · Power Generation · Automobile · Aerospace · Marine Industry · Pump Industry · Heavy Engineering · General Engineering

MACHINED COMPONENTS (EXAMPLES)



Seat Ring · Flange · Seat Holder · Stem · Valve Component

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FROM RAW MATERIAL TO FINISHED COMPONENT

1 MATERIAL SELECTION Stocked grades selected to customer requirement	**2 FORGING / RING ROLLING** Forming for required shape and grain flow	**3 HEAT TREATMENT** Heat-treatment route as required by material / specification
4 CNC / VMC MACHINING Machining to customer drawing and dimensional requirements	**5 PTA / STELLITE WELDING** Automatic hard facing for specified valve-ring applications	**6 INSPECTION & DOCUMENTATION** Traceability, MTCs and certification support



CERTIFIED QUALITY
ISO 9001:2015 and PED certified operations.

FULL TRACEABILITY
Mill Test Certificates and certification support.

QUICK SUPPLY
Wide material stock across multiple grades.



CONTACT PRINCE FORGE INDUSTRIES

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UNIT 2 - FORGING

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ENQUIRY SUPPORT

Send your drawing, material grade, quantity, machining scope and required certification for quotation and feasibility review.

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Forging Strength • Delivering Precision • Building Trust

Custom manufacturing as per customer drawings and requirements.