



LEADING THE WAY IN STEEL FORGING

PRODUCT CATALOGUE

PRECISION FORGED.
BUILT FOR PERFORMANCE.
DELIVERED WORLDWIDE.

Hot Forged Components
Manufactured for Critical
Applications Across
Industries.



HIGH STRENGTH
& DURABILITY



PRECISION
ENGINEERED



WIDE RANGE
OF PRODUCTS



CUSTOMER FOCUSED
SOLUTIONS



HOT FLANGE FORGING

INDUSTRIES WE SERVE



CHEMICAL



HEAVY ENGINEERING



RAILWAY



OIL & GAS



MARINE



INDUSTRIAL



MINING



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02525 299023/24/25



Plot No. C-21, MIDC Tarapur Industrial Area, Boisar – 401506, Maharashtra, India



LEADING THE WAY IN STEEL FORGING



ABOUT SANGHVI INTERNATIONAL

COMPANY PROFILE

Sanghvi International is a leading manufacturer and exporter of Hot Forged Flanges, Forged Fittings, Forged Rings, and Custom Forged Components for critical industrial applications worldwide.

Operating from our state-of-the-art manufacturing facility at MIDC Tarapur, Boisar, Maharashtra, we deliver precision-engineered products that meet the highest international quality standards.

Our products serve Oil & Gas, Petrochemical, Chemical, Power, Marine, Heavy Engineering, Railway, Mining, and Industrial sectors across global markets.

With certified quality systems, advanced manufacturing infrastructure, and a commitment to customer satisfaction, Sanghvi International continues to be a trusted partner for forging excellence.

MANUFACTURING CAPABILITIES

- Hot Forging up to 5 Ton Piece Weight
- Wide Range of Flanges up to 2400 NB
- Forged Fittings from 1/2" NB to 48" NB
- In-House Machining, Drilling & Tapping
- Advanced Heat Treatment Facilities
- 100% Radiography & Ultrasonic Testing
- Chemical, Mechanical & Metallurgical Testing
- Third Party Inspection / Witnessing

OUR STRENGTHS

- High Quality & Reliability
- State-of-the-Art Infrastructure
- Skilled & Experienced Team
- Global Export Expertise
- Customized Solutions
- Timely Delivery
- Competitive Pricing
- Customer-Centric Approach



CERTIFICATIONS



9001:2015



2014/68/EU



American Petroleum Institute



IBR APPROVED

CERTIFICATIONS UNDER PROCESS



NORSOK



EIL APPROVAL



ADNOC APPROVAL



Plot No. C-21, MIDC Tarapur
Industrial Area, Boisar - 401506,
Maharashtra, India



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FLANGE PRODUCT RANGE

We manufacture a wide range of forged flanges in different types, sizes and pressure classes to meet international standards and customer specifications.

WELD NECK FLANGES (WN)	SLIP ON FLANGES (SO)	BLIND FLANGES (BL)	SOCKET WELD FLANGES (SW)
THREADED FLANGES	LAP JOINT FLANGES (LJ)	RING TYPE JOINT FLANGES (RTJ)	LONG WELD NECK FLANGES (LWN)
ORIFICE FLANGES	SPECTACLE BLIND FLANGES	ANCHOR FLANGES	CUSTOMIZED FORGED FLANGES

MANUFACTURING RANGE



SIZE
1/2" to 24"



PRESSURE CLASS
150# to 2500#



MATERIAL
Carbon Steel, Stainless Steel,
Alloy Steel, Duplex & Nickel Alloys

APPLICABLE STANDARDS

ASME
B16.5

ASME
B16.47
Series A & B

BS
British
Standards

DIN
Deutsches Institut
für Normung

EN
European
Standards

JIS
Japanese Industrial
Standards

MSS
Manufacturers
Standardization Society

API
American Petroleum
Institute



PREMIUM QUALITY
High quality raw material
& strict quality control



PRECISION MACHINING
State-of-the-art CNC
machining facility



100% INSPECTION
All products are 100%
inspected before dispatch



ON-TIME DELIVERY
Timely delivery with
safe & secure packing



CUSTOMER SATISFACTION
Customer-focused approach
with technical support



FORGED FITTINGS PRODUCT RANGE

We manufacture a comprehensive range of forged fittings in carbon steel, alloy steel and stainless steel to meet international standards and customer specifications.



<p>ELBOWS 90°</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>ELBOWS 45°</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>TEES</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>CROSSES</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>COUPLINGS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>
<p>HALF COUPLINGS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>FULL COUPLINGS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>REDUCERS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>BUSHINGS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>UNIONS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>
<p>PLUGS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>CAPS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>WELDOLETS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>SOCKETS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>THREADELETS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>
<p>NIPPLES</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>INSERTS</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>HEX NIPPLES</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>SWAGE NIPPLES</p>  <p>SIZE 1/2" to 4" CLASS 2000# to 9000#</p>	<p>CUSTOM FORGED COMPONENTS</p>  <p>As per customer drawing and specifications</p>

MANUFACTURING RANGE



SIZE
1/2" to 4"



CLASS
2000# to 9000#



MATERIAL
Carbon Steel, Stainless Steel,
Alloy Steel, Duplex & Nickel Alloys

MATERIAL STANDARDS

- ASTM A105 / A105N
- ASTM A182 F11 / F22 / F5 / F9
- ASTM A182 F304 / F304L / F316 / F316L
- ASTM A350 LF2 / LF3
- ASTM A694 F42 / F46 / F52 / F60 / F65 / F70
- ASME B16.11
- NACE MR0175 / ISO 15156
- Custom materials as per requirement

APPLICATIONS



OIL & GAS



PETROCHEMICAL



POWER GENERATION



MARINE



PIPING SYSTEMS



CHEMICAL INDUSTRIES



PREMIUM QUALITY
High quality raw material
& strict quality control



PRECISION FORGING
Precision forged for
strength & durability



100% INSPECTION
All products are 100%
inspected before dispatch



ON-TIME DELIVERY
Timely delivery with
safe & secure packing



CUSTOMER SATISFACTION
Customer-focused approach
with technical support



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MATERIAL GRADES & SPECIFICATIONS

We manufacture forged flanges and fittings in a wide range of materials to meet international standards and customer specifications for critical applications.

MATERIAL GRADES	
CATEGORY	GRADE / SPECIFICATION
CARBON STEEL	ASTM A105, A350 LF2, A694 F42 / F46 / F52 / F60 / F65 / F70
ALLOY STEEL	ASTM A182 F11, F22, F5, F9, F91, A182 F12, F91, F92, F304L, F316L
STAINLESS STEEL	ASTM A182 F304 / 304L, F316 / 316L, F321, F347, F310 / 310S, F904L
DUPLEX & SUPER DUPLEX	ASTM A182 F51 (2205), F53 (2507), F55, F60, F61
NICKEL ALLOYS	ASTM B564 N08825 (825), N06600 (600), N08800 (800H/HT), N04400 (Monel 400)
OTHER ALLOYS	Titanium, Zirconium, Hastelloy (C276, C22), Inconel (600, 625, 718), Copper Nickel

AVAILABLE SIZE & CLASS RANGE		
PRODUCT	SIZE RANGE	CLASS RANGE
FORGED FLANGES	SIZE 1/2" TO 24"	CLASS 150# TO 2500#
FORGED FITTINGS	SIZE 1/2" TO 4"	CLASS 2000# TO 9000#

TOLERANCES (ASME)
<ul style="list-style-type: none"> • Dimensions : ASME B16.5 / B16.11 / MSS-SP-95 • Wall Thickness : ASME B16.5 / B16.11 • End Connections : ASME B16.25 • General Tolerance : ASME B16.47

TYPES OF FORGED PRODUCTS	
FLANGES	FITTINGS
<p>Weld Neck, Slip On, Blind, Socket Weld, Threaded, Lap Joint, Ring Type Joint (RTJ), Long Weld Neck, Orifice, Spectacle Blind, Anchor, Custom Flanges</p>	<p>Elbows (90°, 45°, 180°), Tees (Equal, Reducing), Couplings (Full, Half), Reducers (Concentric, Eccentric), Caps, Plugs, Bushings, Unions, Nipples, Outlets, Inserts, Weldlets, Socketlets, Threadoletts</p>

MATERIAL FORGING STANDARDS
<ul style="list-style-type: none"> • ASTM A105 / A105N • ASTM A182 F11 / F22 / F5 / F9 / F91 • ASTM A182 F304 / F304L / F316 / F316L • ASTM A350 LF2 / LF3 • ASTM A694 F42 / F46 / F52 / F60 / F65 / F70 • ASME SA105 / SA182 / SA350 / SA694 • NACE MR0175 / ISO 15116 • DIN, EN, JIS equivalent grades available on request
SPECIAL MATERIALS (ON REQUEST)
<ul style="list-style-type: none"> • Hastelloy (C276, C22) • Inconel (600, 625, 718) • Monel 400 / K500 • Titanium Grades (2, 5) • Zirconium 702 • Alloy 20 / 904L • Cu-Ni 90/10, 70/30 • 17-4 PH / 15-5 PH • Custom Material as per Requirement

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES		
MATERIAL	CHEMICAL ANALYSIS (as per standard)	MECHANICAL PROPERTIES (as per standard)
ASTM A105	C, Mn, P, S, Si, Cr, Mo, Ni etc. as per ASTM A105	Tensile Strength, Yield Strength, Elongation, Hardness
ASTM A182 F316L	C, Mn, P, S, Si, Cr, Mo, Ni, N etc. as per ASTM A182	Tensile Strength, Yield Strength, Elongation, Hardness
ASTM A350 LF2	C, Mn, P, S, Si, Mo, Ni, Cr etc. as per ASTM A350	Tensile Strength, Yield Strength, Elongation, Impact Test
ASTM A182 F51	C, Mn, P, S, Si, Cr, Mo, Ni, N etc. as per ASTM A182	Tensile Strength, Yield Strength, Elongation, Impact Test

All materials are traceable & fully compliant with mill test certificates.

APPLICABLE STANDARDS				
<p>B16.5 B16.47 B16.11 B16.25</p>	<p>SP-44 SP-55 SP-75 SP-95</p>	<p>6A 6D 607 6FA</p>	<p>1092-1 10222 10253</p>	<p>2631 2632 2633</p>
<p>As per Indian Boiler Regulations</p>	<p>MDS D-010 MDS D-100</p>	<p>9001:2015</p>	<p>2014/68/EU</p>	<p>Approval</p>

<p>HIGH STRENGTH Superior mechanical properties for critical applications</p>	<p>CORROSION RESISTANCE Excellent performance in harsh and corrosive environments</p>	<p>TEMPERATURE RESISTANCE Reliable in high & low temperature operating conditions</p>	<p>CERTIFIED QUALITY Materials with full traceability & test certificates</p>	<p>GLOBAL COMPLIANCE Compliance with international standards and approvals</p>
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All materials are sourced from approved mills and processed under stringent quality control. Third party inspection & testing can be arranged as per customer requirement.











MTC, PMI, UT, LPT, Mechanical & Chemical Test Certificates provided with every supply.

LEADING THE WAY IN STEEL FORGING

MANUFACTURING PROCESS OF FORGED FLANGES & FITTINGS

At Sanghvi International, every product is manufactured through a well-defined process, ensuring superior quality, dimensional accuracy and reliability.



<p>01 RAW MATERIAL SELECTION</p> 	<p>02 CUTTING</p> 	<p>03 HEATING</p> 	<p>04 FORGING</p> 	<p>05 TRIMMING</p> 
<p>High quality steel is procured from approved and reputed mills. All raw materials are verified for chemical composition and mechanical properties.</p>	<p>Raw material is cut to the required length and weight using precision saw cutting machines.</p>	<p>The cut pieces are heated in a controlled atmosphere furnace to the specified forging temperature for optimum metal flow.</p>	<p>The heated billets are forged under powerful presses to achieve the desired shape of flanges and fittings.</p>	<p>Excess material (flash) is trimmed to achieve accurate dimensions and proper shape.</p>
<p>06 HEAT TREATMENT</p> 	<p>07 SHOT BLASTING</p> 	<p>08 MACHINING</p> 	<p>09 INSPECTION & TESTING</p> 	<p>10 FINAL PRODUCT</p> 
<p>Heat treatment is carried out to improve mechanical properties, relieve stresses and ensure the required strength and toughness.</p>	<p>Shot blasting is done to remove scale, oxides and impurities, giving a clean surface finish.</p>	<p>Machining is performed as per drawings to achieve precise dimensions, surface finish and tolerances.</p>	<p>All products undergo rigorous inspection and testing including dimensional, NDT, mechanical and chemical tests as per applicable standards.</p>	<p>After final inspection, products are cleaned, marked, packed and dispatched to ensure safe delivery to our valued customers.</p>

OUR MANUFACTURING FACILITIES

 <p>INDUCTION HEATING FURNACES</p>	 <p>HYDRAULIC FORGING PRESSES</p>	 <p>CNC / VTL MACHINING</p>	 <p>IN-HOUSE TESTING LAB</p>	 <p>SKILLED & EXPERIENCED WORKFORCE</p>
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OUR CERTIFICATIONS

 <p>ISO 9001:2015</p>	 <p>PED 2014/68/EU</p>	 <p>American Petroleum Institute</p>	 <p>IBR APPROVED</p>
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CERTIFICATIONS UNDER PROCESS

 <p>NORSOK</p>	 <p>EIL APPROVAL</p>	 <p>ADNOC APPROVAL</p>
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LEADING THE WAY IN STEEL FORGING



QUALITY ASSURANCE & INSPECTION



QUALITY POLICY

At Sanghvi International, quality is the foundation of our manufacturing excellence. Every flange and forged fitting is produced under stringent quality control procedures to ensure compliance with national and international standards.

We are committed to:

- ✓ Consistent Product Quality
- ✓ Customer Satisfaction
- ✓ Continuous Improvement
- ✓ On-Time Delivery
- ✓ Compliance with International Standards
- ✓ Traceability & Documentation

INSPECTION & TESTING FACILITIES

- Positive Material Identification (PMI)
- Ultrasonic Testing (UT)
- Radiography Testing (RT)
- Magnetic Particle Testing (MPI)
- Dye Penetrant Testing (DPT)
- Hardness Testing
- Mechanical Testing
- Chemical Analysis
- Dimensional Inspection
- Visual Inspection

IN-HOUSE LABORATORY & TESTING EQUIPMENT



THIRD PARTY INSPECTION AGENCIES



OUR CERTIFICATIONS





INSPECTION, LPT TESTING & PACKING PROCESS





Quality is inspected at every stage of manufacturing. Our advanced testing facilities ensure 100% compliance with international standards and customer requirements.

INSPECTION PROCESS

01 DIMENSIONAL INSPECTION  <p>All critical dimensions are checked using calibrated measuring instruments like Vernier Caliper, Micrometer, Height Gauge etc.</p>	02 VISUAL INSPECTION  <p>Surface finish, marking, weld quality and overall appearance are verified as per applicable standards.</p>	03 PMI TESTING  <p>Positive Material Identification is carried out to verify chemical composition and material grade.</p>	04 ULTRASONIC TESTING (UT)  <p>Internal soundness is verified to detect internal flaws and ensure product integrity.</p>	05 RADIOGRAPHY TESTING (RT)  <p>Internal discontinuities are detected using radiographic testing as per code requirements.</p>	06 MAGNETIC PARTICLE TESTING (MPI)  <p>Surface and near-surface discontinuities are detected to ensure flaw-free products.</p>
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LIQUID PENETRANT TESTING (LPT)

LPT is performed to detect surface-breaking defects such as cracks, laps, seams, and folds.

1 SURFACE CLEANING  <p>Component surface is cleaned properly to remove dirt, oil, grease and scale.</p>	2 PENETRANT APPLICATION  <p>Red penetrant is applied and allowed sufficient time to penetrate surface defects.</p>	3 EXCESS PENETRANT REMOVAL  <p>Excess penetrant is carefully removed from the surface without removing penetrant from defects.</p>	4 DEVELOPER APPLICATION  <p>Developer is applied to draw out penetrant from flaws to the surface.</p>	5 FINAL INSPECTION & EVALUATION  <p>Indications are visually inspected under white light to evaluate defects.</p>
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✔ LPT ensures 100% surface integrity and defect-free products.

PACKING & DISPATCH PROCESS

1 SURFACE PROTECTION  <p>Products are cleaned and coated with anti-rust oil to prevent corrosion.</p>	2 INDIVIDUAL PACKING  <p>Each item is individually wrapped using bubble wrap or VCI paper.</p>	3 SECURE PACKING  <p>Proper cushioning & segregation is done to avoid movement and damage.</p>	4 WOODEN CRATING  <p>Strong wooden crates are used for maximum protection during transit.</p>	5 MARKING & LABELLING  <p>Each crate is marked with product details, heat number, size, standard & destination.</p>	6 DISPATCH  <p>On-time dispatch ensures safe and timely delivery to our valued customers.</p>
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OUR CERTIFICATIONS



CERTIFICATIONS UNDER PROCESS



BUILT TO WITHSTAND. MADE TO PERFORM.

PREMIUM IBR APPROVED FLANGES FOR CRITICAL APPLICATIONS

Our IBR Approved Flanges are precision forged for strength, durability and long-lasting performance in the most demanding environments.



KEY FEATURES



IBR Approved Manufacturing



Precision Forging



High Strength & Durability



Leak Proof Performance



Tested to International Standards



Wide Range of Materials & Sizes



Custom Flanges as per Requirement

OUR FLANGE RANGE



WELD NECK FLANGE



SLIP-ON FLANGE



BLIND FLANGE



SOCKET WELD FLANGE



THREADED FLANGE



LAP JOINT FLANGE



ORIFICE FLANGE



REDUCING FLANGE

MATERIAL GRADES



- Carbon Steel
- Stainless Steel
- Alloy Steel
- Duplex & Super Duplex
- Nickel Alloys
- Special Grades as per Customer Requirement

INDUSTRIES WE SERVE



OIL & GAS



PETROCHEMICAL



REFINERIES



POWER PLANTS



CHEMICAL PROCESSING



MARINE & SHIPBUILDING



WATER TREATMENT



PHARMACEUTICAL

CERTIFICATIONS



IBR Approved



ISO 9001:2015 Certified



PED 2014/68/EU Compliant



API 6A / 16A Compliant

UNDER PROCESS CERTIFICATIONS



NORSOK



EIL

ADNOC



**EXPORTING
GLOBALLY**

Delivering Quality Indian Forgings to the World.



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IBR APPROVED

QUALITY. PRECISION. RELIABILITY.
THAT'S THE SANGHVI PROMISE.



LEADING THE WAY IN STEEL FORGING

STRONG PRODUCTS. STRONGER PARTNERSHIPS.

Sanghvi International is your trusted partner for high quality forged fittings and flanges. We look forward to serving your needs with excellence, integrity and commitment.

GET IN TOUCH



CORPORATE OFFICE

Bldg No 86/92 Lucky Mansion,
Durgadevi Street,
Mumbai – 400004,
Maharashtra (India)



MANUFACTURING FACILITY

MIDC Tarapur Industrial Area,
Boisar – 401506, Maharashtra, India



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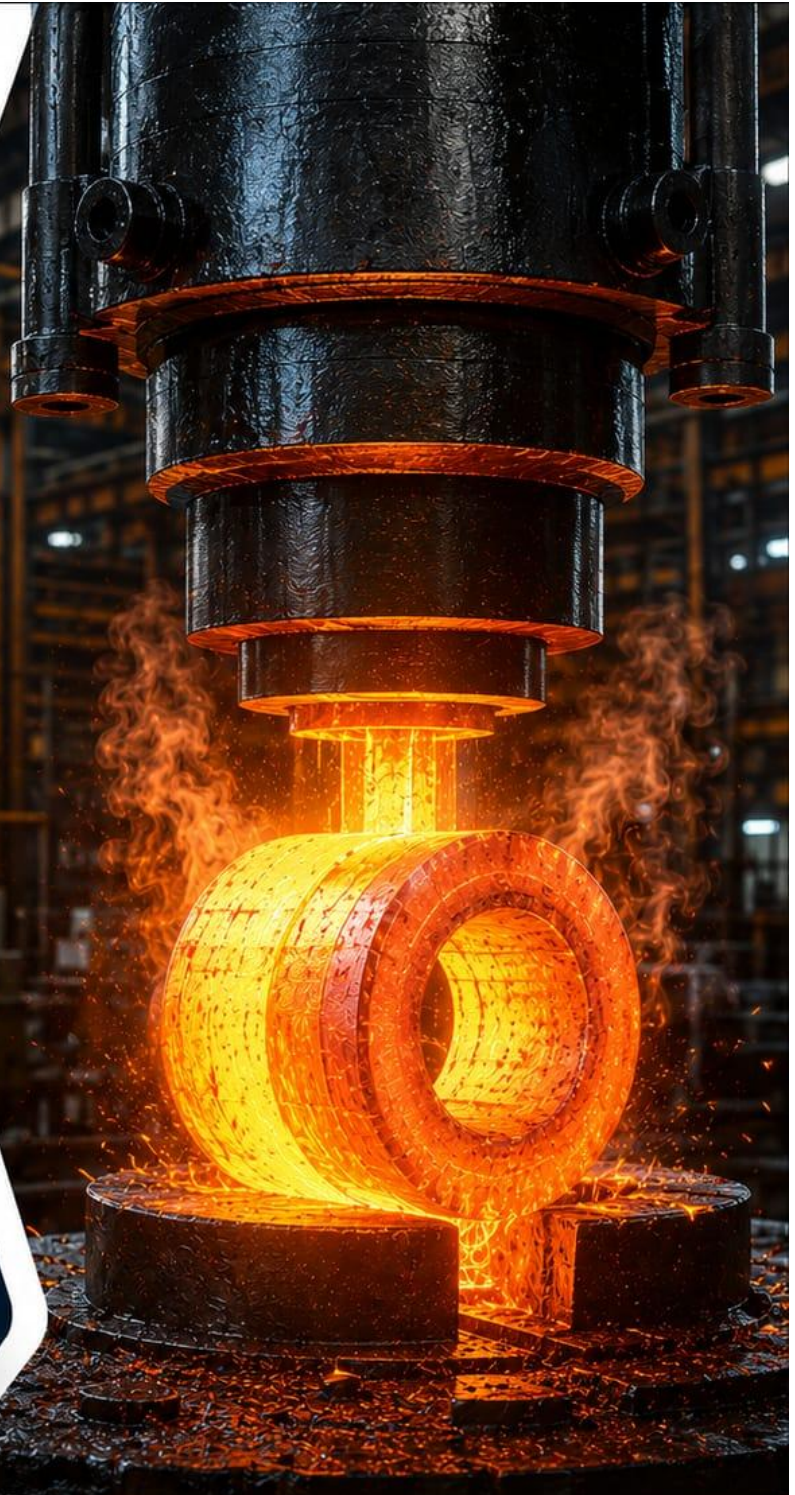
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PREMIUM QUALITY

High quality raw material
& strict quality control



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State-of-the-art forging
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100% INSPECTION

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ON-TIME DELIVERY

Timely delivery with
safe & secure packing



CUSTOMER SATISFACTION

Customer-focused approach
with technical support



PROUDLY MADE IN INDIA

- Proudly designed, forged & manufactured in India.
- Supporting local industry, skilled workforce & economy.
- Committed to quality, innovation & sustainable growth.



THANK YOU FOR YOUR INTEREST IN SANGHVI INTERNATIONAL.

We look forward to building a long-lasting and successful partnership.