SINCE 2020-2021

JACKWELL
ENGINEERING

PIPELINE ENGINEERING SOLUTIONS

ENGINEERED FOR
PERFORMANCE.
BUILT FOR
RELIABILITY.



TRUSTED QUALITY | ENGINEERED EXCELLENCE | BUILT FOR DURABILITY | PERFORMANCE DRIVEN

INNOVATIVE SOLUTION.
STRONGER FUTURES.

www.jackwellengg.com

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JACKWELL ENGINEERING

ABOUT JACKWELL ENGINEERING LLP

Engineering Reliable Pipeline Solutions

Jackwell Engineering LLP is a trusted manufacturer of high-quality pipeline engineering products, dedicated to delivering innovative and reliable solutions for industrial pipeline systems. Headquartered in Ahmedabad, Gujarat, India, we specialize in the design and manufacturing of products that support pipeline maintenance, leak repair, isolation, filtration, and flow control across a wide range of industries.
Our commitment to engineering excellence, precision manufacturing, and continuous innovation enables us to provide products that perform efficiently in demanding operating conditions.

With a comprehensive portfolio that includes Pipeline Leak Repair Clamps, Pipeline Repair Clamps, Pipeline Pin Hole Clamps, Pipeline Repair Sleeves, Pipeline Couplings, Monolithic Insulation Joints, Pig Signallers, Basket Filters, Cartridge Filters, Pipe Setup Weld Clamps, and Hot Tap Tees, we serve industries such as Oil & Gas, Petrochemical, Chemical Processing, Water Distribution, Power Generation, and Infrastructure. Every product is manufactured using high-quality materials and stringent quality control processes to ensure durability, safety, and dependable performance.



ESTABLISHED
2020

PRODUCTS
+10
PIPELINE SOLUTIONS

INDUSTRIES
Oil & Gas, Petrochemical, Water, Chemical, Power & Infrastructure

MANUFACTURING
Precision Engineered • Quality Assured

NNOVATIVE SOLUTION.
TRONGER FUTURES.

JACKWELL ENGINEERING

OUR FOUNDATION

Mission. Vision. Values.



MISSION

At Jackwell Engineering LLP, our mission is to deliver innovative, high-quality pipeline engineering solutions that enhance safety, reliability, and operational efficiency.

We are committed to exceeding customer expectations through precision manufacturing, continuous improvement, and exceptional service while building long-term partnerships and contributing to the growth of industries worldwide.



VISION

At Jackwell Engineering LLP, our vision is to become a globally recognized leader in pipeline engineering solutions by setting new standards in quality,
innovation, and reliability.

We strive to drive industrial progress through advanced manufacturing, sustainable practices, and customer-focused solutions that create long-term value for industries worldwide.



VALUES

At Jackwell Engineering LLP, our values are built on integrity, quality, innovation, and customer commitment.

We believe in maintaining the highest standards of professionalism, delivering reliable engineering solutions, fostering continuous improvement, and building lasting relationships based on trust, excellence, and mutual success.

JACKWELL ENGINEERING

QUALITY ASSURANCE

International Certifications



Certified for Excellence

Jackwell Engineering LLP operates under internationally recognized management systems that demonstrate our commitment to quality, environmental responsibility, and occupational health & safety.

Our ISO-certified processes ensure consistent product quality, operational excellence, regulatory compliance, and continuous improvement across every stage of design, manufacturing, installation, and customer support.

ISO 9001:2015
Quality Management System

ISO 14001:2015
Environmental Management System

ISO 45001:2018
Occupational Health & Safety Management System

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JACKWELL ENGINEERING

PRECISION ENGINEERED PIPELINE SOLUTIONS

Jackwell Engineering LLP manufactures high-performance pipeline maintenance and repair products designed for Oil & Gas, Petrochemical, Chemical, Water, Marine, and Infrastructure industries. Every solution is engineered with precision, manufactured under stringent quality standards, and built to deliver long-term reliability under demanding operating conditions.



PIPELINE REPAIR CLAMP

Jackwell Engineering LLP High Pressure Pipeline Repair Clamps provide a safe, reliable, and cost-effective solution for repairing leaking pipelines without shutdown. Precision engineered and manufactured in-house, these clamps comply with international industry standards and help minimize costly downtime while ensuring long-term operational reliability.

- High Pressure Leak Repair
- Precision Machined
- ASME & API Compliant
- Offshore & Onshore Applications
- Marine Epoxy Coating
- NDT Tested
- Custom Sizes Available

TECHNICAL HIGHLIGHTS

DESIGN STANDARDS

- ASME Sec VIII
- API 6H
- ANSI B31.4
- ANSI B31.8

PRESSURE RATINGS

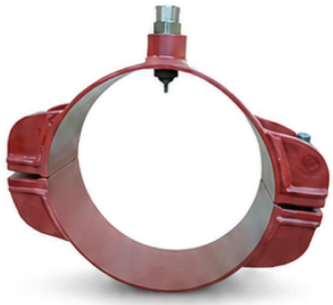
ANSI Class
- 300
- 400
- 600
- 900
- 1500

MATERIAL

Shell	SA516 Gr.70 / ASTM A106 Gr.C
Stiffeners	ASTM A105
Stud & Nut	ASTM A193 B7
Seal	Viton / Buna-N / HNBR / NBR
Vent Plug	ASTM A105

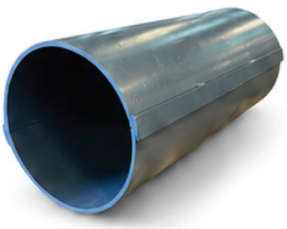
TESTING

- 100% NDT
- Hydro Test
- EN10204 3.1 / 3.2 Certification



PIPELINE REPAIR PINHOLE CLAMP

Compact repair solution specifically engineered for pinhole leaks while maintaining uninterrupted pipeline operation.



PIPELINE REPAIR SLEEVE

Heavy-duty welded repair sleeve designed to permanently reinforce damaged pipelines and restore structural integrity.



PIPELINE COUPLING

High-strength mechanical coupling engineered for secure pipeline joining, maintenance, and emergency repair applications.

MANUFACTURING
Precision Engineered

STANDARDS
ASME • API • ANSI

TESTING
100% NDT & Hydro Tested

APPLICATIONS
Oil & Gas • Water • Chemical • Marine

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JACKWELL ENGINEERING

MONOLITHIC INSULATION JOINT

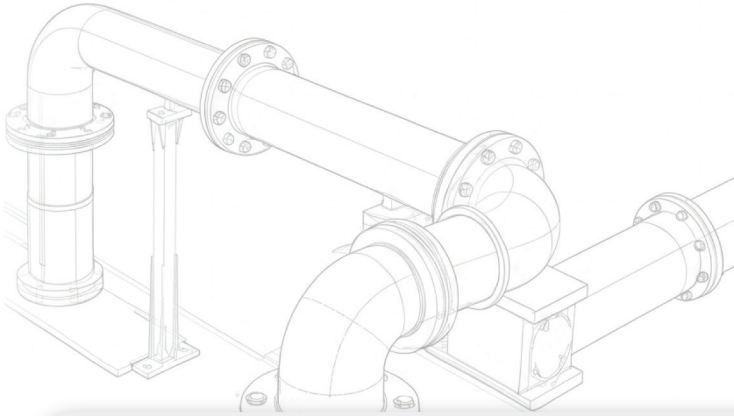


Isolations Joint

Monolithic Insulation Joints are precision-engineered pipeline components designed to electrically isolate pipe sections while enhancing the efficiency of cathodic protection systems. They prevent detrimental electrochemical interaction, reduce corrosion risks, and ensure long-term integrity of steel pipelines. Each joint is manufactured to international standards and is hydrostatically, electrically, and weld-performance tested for reliable operation in demanding industrial environments.

KEY FEATURES

- Prevents electrochemical corrosion
- Enhances cathodic protection performance
- Electrical isolation of pipeline sections
- Factory hydrostatic, dielectric and weld tested
- Corrosion-resistant protective coating
- Sizes from 50 NB to 1200 NB (2″–48″)
- Pressure ratings ANSI 150–1500
- Suitable for onshore, offshore and subsea applications



APPLICATIONS

- Oil & Gas Pipelines
- Water Transmission Systems
- Petrochemical Plants
- Pumping Stations
- Storage Tanks
- Refineries
- Chemical Processing Plants
- Offshore Pipelines

TECHNICAL HIGHLIGHTS

Design Pressure	6–700 BarG
Design Temperature	0°C to 90°C (Standard) -173°C to 180°C (Special)
Pressure Class	ANSI 150–2500
Hydrostatic Test	1.5 × Design Pressure
Electrical Insulation	200 MΩ @ 1000V DC
Dielectric Test	1–15 KV AC
Installation	Above Ground • Underground • Subsea

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PIG SIGNALLER

JACKWELL ENGINEERING



Pipeline Pig Detection & Monitoring System

Pig Signalers are engineered to accurately detect and monitor the movement of pipeline pigs during pigging operations. They provide reliable indication of pig location, enabling safe operation and efficient maintenance of pressurized pipeline systems. Designed for demanding industrial environments, Jackwell Pigg Signalers deliver exceptional durability, precise detection, and long service life while minimizing risk to both the pig and the pipeline.

KEY FEATURES

- Accurate Pig Detection
- Heavy-Duty Industrial Construction
- Reliable Alarm System Compatibility
- High Pressure Performance
- Precision Engineered Components
- Long Operational Life
- Low Maintenance Design
- Suitable for Oil, Gas & Process Pipelines

APPLICATIONS

- Oil & Gas Pipelines
- Petrochemical Plants
- Chemical Processing
- Water Transmission Lines
- Cross-Country Pipelines
- Refineries
- Power Plants

TECHNICAL HIGHLIGHTS

DESIGN STANDARDS

- ASME Section VIII
- API
- ANSI B31.4
- ANSI B31.8

PRESSURE RATINGS

ANSI Class
- 300
- 400
- 600
- 900
- 1500
- 2500

INSTALLATION

- Weld Base Mounted Models
- Flange Mounted Models Available
- 38 mm Access Opening
- Removal Under Pressure Models (MVW & MLVW)

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JACKWELL ENGINEERING

BASKET & CARTRIDGE FILTERS

Advanced Filtration Solutions For Cleaner, Safer For More Efficient Operations

Basket Filters & Strainers permits the straining & filtering of a wide variety of fluids and retains solid components of almost any size. All baskets are easily removable & easy-to-clean. Basket strainer elements can be offered in single cylinder, double cylinder, multi cylinder & pleated design depending upon requirement of the application.
They are constructed with filter housing, filter element supported with perforated cage, positive sealing arrangement to avoid any bypass & choice of end connections.
Jackwell Engineering LLP is one of the leading manufacturers of premium quality Cartridge Filters in India. Cartridge filters are tubular filtration equipment widely used in various industries for effective liquid filtration applications.
These filters use high-quality filter media to remove suspended particles, contaminants, and impurities from fluids.
Cartridge filters are designed for high efficiency, easy maintenance, and long service life. Water or process fluid passes through the filter element, where unwanted particles are trapped, ensuring clean and purified output.
Jackwell Engineering LLP offers cartridge filters in various sizes, micron ratings, lengths, and materials at competitive prices across India and international markets.
Jackwell Engineering LLP is also recognized as a trusted supplier and exporter of cartridge filters in India and worldwide.



KEY FEATURES

- High Filtration Efficiency
- Easy Installation & Replacement
- Available in Multiple Micron Ratings
- Corrosion-resistant Construction
- Suitable for High-flow Applications
- Low Maintenance Cost
- Sturdy & Durable Design
- Long Service Life

APPLICATIONS

- Self-cleaning Filtration Systems
- Pre-filtration for RO Plants & Membrane Systems
- Industrial Water Filtration
- Process Water Filtration
- Pool Water Filtration
- Oil and Particle Removal Systems
- Food and Beverage Liquid Filtration
- Refineries and Petrochemical Industries
- Chemical & Process Industries
- General Industrial Applications

TECHNICAL HIGHLIGHTS

BASKET FILTERS

Construction
Single / Double / Multi Cylinder & Pleated Design

End Connections
Flanged / Threaded / Butt Weld

Material Options
SS 304 / SS 316 / Carbon Steel / Other Special Alloys

CARTRIDGE FILTERS

Filtration Types
Surface Filters/ Depth Filters

Micron Ratings
1 Micron to 100 Micron (or as per requirement)

Length Options
10" / 20" / 30" / 40" (or customized)

PERFORMANCE

High Dirt Holding Capacity
Low Pressure Drop
Easy Maintenance

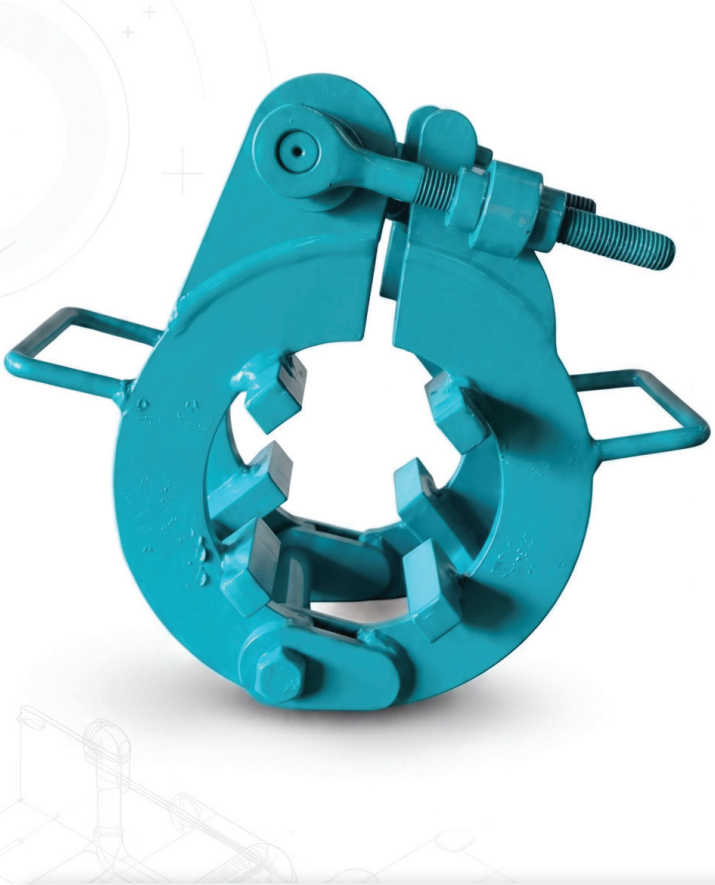
Operating Conditions
Suitable for High Pressure & High Flow Applications (as per model)

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JACKWELL ENGINEERING

PIPE SETUP WELD CLAMP

A Pipe Setup Weld Clamp is a precision mechanical alignment tool designed for pipeline fabrication and welding applications. It securely aligns and supports pipe ends before welding, ensuring accurate fit-up, proper root gap, and stable positioning throughout the welding process. The external clamp design delivers reliable pipe alignment, minimizes setup errors, and significantly improves welding efficiency and joint quality in both workshop and field environments.



KEY FEATURES

- Accurate pipe alignment before welding
- Quick installation and removal
- Heavy-duty gripping mechanism
- Improves weld quality
- Reduces welding misalignment
- Durable reusable construction
- Suitable for onsite and workshop applications

APPLICATIONS

- Pipe fit-up and alignment
- Butt welding preparation
- Pipeline fabrication
- Pipe spool assembly
- Oil & Gas pipeline construction
- Petrochemical plants
- Water & process piping systems

CONSTRUCTION

- Heavy-duty fabricated steel body
- External clamp with tightening screw mechanism
- Internal gripping jaws
- Manual quick locking handle
- Suitable for multiple pipe diameters

WORKING PRINCIPLE

The external clamp is positioned around the pipe joint and tightened using the screw mechanism, allowing the gripping jaws to securely hold both pipe ends in perfect alignment during tack and root welding.

INDUSTRIES

- Oil & Gas
- Petrochemical
- Power Plants
- Water Treatment
- Pipeline Construction
- Fabrication Workshops
- Process Industries

MATERIALS

- Carbon Steel
- Stainless Steel
- Optional Alloy Steel

SIZE RANGE

Available in multiple pipe diameters as per customer specifications and project requirements.

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HOT TAP TEE

Jackwell Engineering LLP is a leading manufacturer and supplier of high-quality Hot Tap Tees in India. These fittings are specially designed for making branch connections on existing live pipelines without shutting down the process line. They are widely used in Oil & Gas, Petrochemical, Refinery, Water Transmission, and Process Industries.

Hot Tap Tee is a fabricated reinforced fitting that allows safe hot tapping operations under pressure and continuous service conditions. The fitting provides excellent structural reinforcement and leak-proof performance during branch connection activities.



KEY FEATURES

- No Pipeline Shutdown Required
- Safe Live Tapping Operation
- Heavy-duty Reinforced Construction
- High-pressure And High-temperature Capability
- Leak-proof Welded Design
- Long Service Life
- Suitable For Onshore And Offshore Pipelines
- Available In Custom Sizes And Pressure Ratings

APPLICATIONS

- Oil & Gas Pipelines
- Refineries
- Petrochemical Plants
- Power Plants
- Water Transmission Pipelines
- Chemical Industries
- Offshore Platforms
- Process Piping Systems

WORKING PRINCIPLE

The Hot Tap Tee is welded around the existing live pipeline. After installation:

01 Isolation Valve Is Mounted On The Branch Flange.
02 Hot Tapping Machine Is Connected To The Valve.
03 Cutter Drills Through The Pipeline Wall Under Pressure.
04 Pipe Coupon Is Removed Safely.
05 New Branch Connection Becomes Operational Without Shutdown.

This process helps industries avoid production losses and costly shutdowns.

INSPECTION & TESTING

- Hydrostatic Testing | • Ultrasonic Testing (UT)
- Magnetic Particle Inspection (MPI) | • Radiography Testing (RT)
- Dimensional Inspection • Dye Penetrant Testing (DPT)

TECHNICAL HIGHLIGHTS

Design Codes & Standards

Hot Tap Tees are designed and manufactured accordingly to international standards including:

- ASME B31.3 – Process Piping
- ASME B31.4 – Liquid Transportation Systems
- ASME B31.8 – Gas Transmission Pipelines
- ASME Section VIII
- MSS SP-97
- API 1104
- ASME PCC-2

Pressure Rating: #150 To #1500

MATERIAL GRADES

- ASTM A516 Gr.70
- ASTM A105
- API 5L Grades
- Stainless Steel Grades

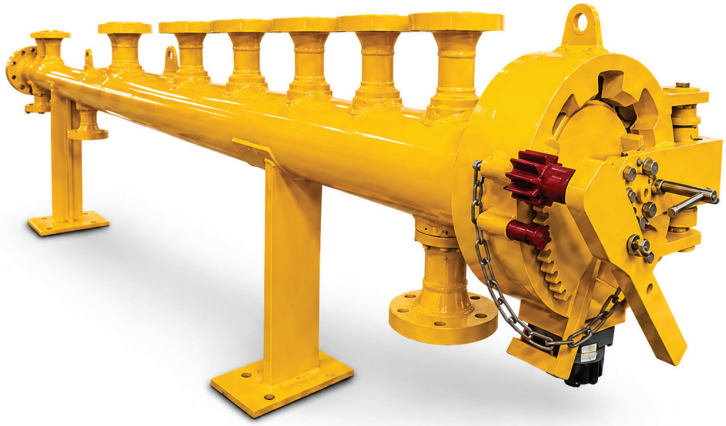
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PIG LAUNCHER & PIG RECEIVER

Pig Launcher and Pig Receiver Systems

Jackwell Engineering LLP designs and manufactures Pig Launchers and Pig Receivers for pipeline pigging operations in the Oil & Gas, Petrochemical, Refinery, Chemical, Water, and Process industries.
Our systems are engineered to enable the safe and efficient insertion, launching, receiving, and removal of pipeline pigs used for pipeline cleaning, liquid removal, product separation, batching, inspection, and maintenance.
We offer custom-designed Pig Launcher and Receiver packages based on pipeline size, operating pressure, temperature, fluid characteristics, pig type, project specifications, and applicable international codes and standards.



WHAT IS A PIG LAUNCHER?

A Pig Launcher, also known as a Pig Trap Launcher, is a pressure-containing pipeline vessel used to introduce a pig into a pipeline system.
The launcher is installed at the upstream end.
The pig is loaded, the closure is locked, and the launcher is pressurized before the pig is propelled into the pipeline using the process fluid or gas.

WHAT IS A PIG RECEIVER?

A Pig Receiver, also known as a Pig Trap Receiver, is a pressure-containing vessel installed at the downstream end of a pipeline to safely receive the pig after it has completed its journey.
The receiver is designed to decelerate and capture the pig while maintaining safe containment of the pipeline fluid.

FEATURES

- Safe and efficient pig launching and receiving
- Quick opening closure
- High-pressure and high-temperature capability
- Leak-proof and sturdy construction
- Easy operation and maintenance
- Pig signaller for pig detection
- Vent, drain and instrumentation provisions
- Custom design as per project requirements

APPLICATIONS

- Oil & Gas Pipelines
- Crude Oil Pipelines
- Natural Gas Pipelines
- Product Pipelines
- Water Pipelines
- Petrochemical Plants
- Refineries
- Chemical Industries
- Cross-Country Pipelines
- Offshore and Onshore Pipeline Systems

TECHNICAL HIGHLIGHTS

DESIGN CONSIDERATIONS

- Pipeline size & wall thickness
- Design & operating pressure
- Design & operating temperature
- Pipeline fluid & corrosive service
- Pig type, size & length
- Pipeline configuration
- Pigging frequency
- Design code & project specifications
- Material selection & corrosion allowance
- Connections, nozzles & closure type
- Pig signaller, drain, vent & instrumentation

DESIGN CODES & STANDARDS

- ASME Section VIII, Division 1
- ASME B31.4
- ASME B31.8
- API 6H – Pipeline and Piping Equipment Closures
- ASME B16.5
- ASME B16.9
- ASME B16.47
- EN 10204
- NACE Requirements (where applicable)
- Client-specific engineering specifications

TYPICAL CONFIGURATION

01. Main Barrel
02. Reducer / Cone
03. Quick Opening Closure
04. Kicker Line
05. Mainline Connection
06. Vent Connection
07. Drain Connection
08. Pressure Gauge / Instrumentation
09. Pig Signaller
10. Closure Safety System

MATERIALS

- Carbon Steel
- Low Temperature Carbon Steel
- Stainless Steel
- Duplex Stainless Steel
- Other special materials as per project requirements

CONSIDERATIONS

- Design temperature
- Fluid composition
- Corrosion resistance
- H_2S / Sour service
- NACE compliance
- Corrosion allowance

SAFETY FEATURES

- Quick-opening closure with safety interlock
- Pressure warning system
- Vent and drain connections
- Pressure gauge
- Pig signaller
- Pressure relief provisions (where required)
- Locking & mechanical safety arrangements
- Safe access platforms & ladders
- Earthing connections
- Lifting arrangements
- Customized safety features

PIGGING APPLICATIONS SUPPORTED

- Pipeline Cleaning
- Liquid Removal
- Product Separation
- Batching
- De-watering
- Gauging
- Inspection
- Maintenance

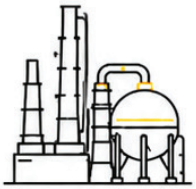
JACKWELL ENGINEERING

Industries We Serve

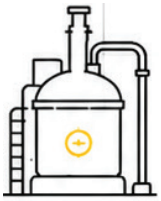
Jackwell Engineering LLP delivers precision-engineered pipeline solutions across a wide range of industries, ensuring operational safety, engineering excellence, reliability, and long-term performance through innovative manufacturing and uncompromising quality.



Oil & Gas



Petrochemical



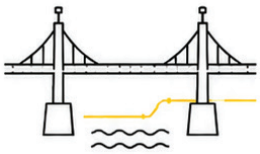
Chemical Processing



Water Distribution



Power Generation



Infrastructure



Construction

INDUSTRIES

JACKWELL ENGINEERING

OUR CLIENTS

Trusted by Industry Leaders

Our commitment to engineering excellence, consistent quality, and customer satisfaction has earned the trust of leading organizations across multiple industries. Every partnership reflects our dedication to precision manufacturing and long-term reliability.

CUGL · IOAG · इंडियनऑयल · गेल GAIL · GUJARAT GAS · Bharat Petroleum

ओएनजीसी ONGC · NRL · हिंदुस्तान पेट्रोलियम HP · دبي للبترول Dubai Petroleum

Building Long-Term Partnerships

At Jackwell Engineering LLP, every client relationship is built on trust, quality, precision engineering, and a commitment to delivering reliable industrial solutions that exceed expectations.



JACKWELL ENGINEERING

MANUFACTURING FACILITY

Where Engineering Meets Precision

Our state-of-the-art manufacturing facility combines advanced machinery, skilled craftsmanship, and rigorous quality control to produce reliable pipeline engineering solutions that meet international standards. Every product is manufactured with precision, consistency, and uncompromising attention to detail.



01
Design & Engineering
Innovative design and engineering for reliable solutions

02
Precision Machining
High-precision CNC machining for perfect accuracy.

03
Fabrication & Welding
Expert fabrication and welding with strong integrity.

04
Assembly
Skilled assembly ensures seamless integration.

05
Quality Inspection & Testing
Rigorous inspection and testing for zero compromise.

06
Packaging & Dispatch
Safe packaging and on-time dispatch worldwide.

Manufacturing Excellence

From raw material selection to final inspection, every stage of our manufacturing process is driven by precision, innovation, and strict quality standards to deliver dependable pipeline engineering solutions.

JACKWELL
ENGINEERING

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Engineering Reliable Pipeline Solutions

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