FIRE का DOCTOR

LISTED

DE'S TECHNICO LIMITED

FIRE PROTECTION PRODUCTS & SYSTEMS

UL Listed Equipment For Oil, Gas And Process Industries

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018



Trusted Fire Safety Experts Since 1988

De's Technico Limited designs, manufactures, installs and commissions fire protection products and systems for the oil and gas, power, steel, paint and process industries. Our UL Listed equipment is made in-house, under a certified integrated management system.

We design our products and systems in line with NFPA codes and standards, and deliver Lump Sum Turnkey (LSTK) projects on a single window responsibility basis, tailored to each plant.

Established 1988
Kolkata, India

UL Listed Products
Bladder Tanks, Valves And Nozzles

Two Factory Units
48,000 And 30,000 Sq. Ft.

ISO Certified
9001 · 14001 · 45001

NFPA Based Design
Codes And Standards

In-House Testing
Factory Test Facilities

WHAT WE OFFER

Products

- Deluge Valves And Cabinets
- MVWS And HVWS Nozzles
- Foam Bladder Tanks And Ratio Controllers
- Foam Makers, Chambers And Pourers
- Foam Concentrate Control Valves
- Fabricated Strainers

Systems

- Foam And Rim Seal Fire Protection
- MVWS And HVWS Water Spray
- Hydrant Systems
- Clean Agent And CO_2 Systems
- Fire Detection And Alarm

Services

- Design And Engineering
- Procurement And Manufacturing
- Installation And Commissioning
- In-House Testing
- Turnkey (LSTK) Project Execution

Proven Global Technology
Knowledge Gained Through Our Distribution Partners

Made In-House
UL Listed Products From Our Own Factory Units

Single Window Responsibility
Design, Supply, Installation And Commissioning

5-YEAR WARRANTY
Confidence built into every product.

OUR PRODUCT RANGE

Products For Foam And Water Based Protection

Our products are engineered for the storage, handling and processing of flammable liquids and gases. Each is built around fixed fire protection systems for tanks, process plants, transformers and hangars.



Foam Bladder Tanks
Vertical And Horizontal



Deluge Valves
Wet And Dry Pilot



MVWS Nozzles
Medium Velocity Water Spray



HVWS Nozzles
High Velocity Water Spray



Foam Pourers
Fixed Roof And Rim Seal



Foam Makers And Chambers
Floating And Fixed Roof Tanks



Foam Inductors And Valves
Proportioning Accessories



Fabricated Strainers
Y, T, Basket And Conical



Grooved Fittings
UL Listed And FM Approved



Detection And Alarm
From Our OEM Partners

The UL mark shows products with a UL Listing. Product images are representative.

FOAM PROPORTIONING SYSTEMS

UL Listed Bladder Tank Foam Proportioning System

Vertical 200 – 7500 L | Horizontal 1000 – 15000 L

Stores foam concentrate in a flexible elastomeric bladder inside an ASME Section VIII Division 1 pressure vessel and proportions it into the fire water stream through a ratio controller. It uses only the pressure of the fire water supply: no foam pump, no external power, no drive.



Horizontal Foam Bladder Tank
Scan For Product Page



Vertical Foam Bladder Tank
Scan For Product Page

KEY FEATURES

- UL Listed and tested to UL 162, with DTL-FRC-B / -SS ratio controllers
- Proportions automatically over a wide range of flow and pressure, with low pressure loss
- Nitrile (Buna-N) fabric reinforced bladder, replaceable at site through the manhole
- Every tank hydrostatically tested at 1.5 × rated pressure
- Suitable for AFFF, AR-AFFF and SFFF foam concentrates

TECHNICAL HIGHLIGHTS

Rated Pressure	175 PSI (12.3 Kg/cm²)
Min. Working Pressure	30 PSI (2.1 Kg/cm²)
Design Code	ASME Section VIII Division 1
Shell And Ends	SA-516 Gr. 70, 2:1 ellipsoidal
Bladder	Nitrile (Buna-N), fabric reinforced
Ratio Controller	DTL-FRC-B / DTL-FRC-SS, 65 – 200 NB
End Connections	Flanged, ASME B16.5 Class 150
Operating Temperature	2 °C to 65 °C
Finish	Fire Red RAL 3000

TYPICAL APPLICATIONS

Tank Farms | Process Plants | Loading Gantries | Hangars And Warehouses

UL LISTED
File No. EX29134 · Proportioners, Foam Concentrate · Tested To UL 162

5-YEAR WARRANTY
Confidence built into every product.

UL Listed Deluge Valve

PD-WET And PD-DRY | 80 – 200 NB | 175 And 250 PSI

A globe pattern water control valve used as the system control valve in deluge and water spray fire protection systems. It holds water back from the system piping until the release system operates, then opens fully to admit water to open nozzles or sprinklers and to the alarm devices.



Scan For Product Page

KEY FEATURES

- UL Listed to UL 260 for 175 PSI and 250 PSI rated working pressure
- Wet pilot, dry pilot (pneumatic), electric and manual release
- Installs vertically or horizontally; externally reset type
- Cast carbon steel body (ASTM A216 Gr. WCB) with stainless steel internals

TECHNICAL HIGHLIGHTS

Sizes	80, 100, 150, 200 NB (3", 4", 6", 8")
Rated Working Pressure	12.3 Kg/cm² (175 PSI) or 17.5 Kg/cm² (250 PSI)
Service Pressure Range	1.4 Kg/cm² (20 PSI) to rated working pressure
Factory Hydrostatic Test	Body and seat: 35 Kg/cm² (500 PSI)
End Connections	Flanged, ASME B16.5 Class 150 · Grooved
Operating Temperature	4 °C to 65 °C
Finish	Red, epoxy powder coated
Standards	UL 260 | NFPA 13 | NFPA 15

TYPICAL APPLICATIONS

Tank Farms | Transformers | Loading Gantries | Process Plants | Hangars And Warehouses

UL File No. EX26880
Special System Water Control Valves, Deluge Type

5-YEAR WARRANTY
Confidence built into every product.

UL Listed Medium Velocity Water Spray Nozzle

Models MVN-B (Brass) and MVN-S (Stainless Steel 316)

Open-type, directional spray nozzles for fixed water spray (deluge) fire protection systems in special hazard applications. An external deflector discharges water in a directional cone of fine droplets, uniformly distributed over the surface to be protected.



Scan For Product Page

KEY FEATURES

- Applies water to vertical, horizontal, curved and irregular surfaces
- Cools surfaces and prevents structural damage or spread of fire from external exposure
- Controls or extinguishes fire, depending on the design density per code
- 9 K-factors and 8 spray angles; may be oriented in any position

TECHNICAL HIGHLIGHTS

K-Factors (Metric)	18, 22, 30, 35, 41, 51, 64, 79, 102
Spray Angles	65°, 80°, 90°, 100°, 110°, 120°, 140°, 160°
End Connection	½" NPT (½" BSPT optional)
Effective Working Pressure	1.4 – 3.5 Kg/cm²
Max. Working Pressure	12 Kg/cm²
Finish	MVN-B: natural brass, nickel-chrome or electroless nickel plated · MVN-S: natural
Standards	UL 2351 | NFPA 15

TYPICAL APPLICATIONS

- Floating Roof Tanks
- LPG And LNG Installations
- Loading Gantries
- Transformers And Cable Galleries
- Steel Plant Structures
- Pumping Stations And Manifolds

UL LISTED
File No. VGYZ.EX27860 · Nozzles, Spray Type, Fixed

5-YEAR WARRANTY
Confidence built into every product.

WATER SPRAY SYSTEMS

High Velocity Water Spray Nozzle

Brass | 3/4" BSPT

High velocity water spray nozzles discharge water as a high velocity spray in a cone pattern, used for the protection of electrical equipment such as oil-filled transformers. They are supplied with deluge valve stations and designed to NFPA 15.



Scan For Product Page

KEY FEATURES

- Spiral insert produces a high velocity spray pattern
- Brass construction, 3/4" BSPT male connection
- Hexagon body for installation with a standard spanner
- Marked with the DTL name and year of manufacture

TECHNICAL HIGHLIGHTS

Material	Brass (IS 291)
Connection	3/4" BSPT male
Body Flats	28 mm hexagon
Overall Length	48 mm
Spray	High velocity, spiral insert
Design Basis	NFPA 15

TYPICAL APPLICATIONS

Oil Filled Transformers | Switchyards | Indoor Transformer Bays | Substations

SUPPLIED WITH UL Listed Deluge Valves, For Complete Transformer Protection Systems

5-YEAR WARRANTY
Confidence built into every product.

Foam Pourers

Fixed Roof, Internal Floating Roof And Open Top Floating Roof Tanks

Foam pourers deliver aspirated low expansion foam gently onto the surface of a burning liquid, or into the seal area of a floating roof tank, so that the foam forms a blanket without plunging into the fuel. Our pourers are used with foam makers and chambers, inline foam inductors, balance pressure proportioning systems and bladder tank systems, and are designed in line with NFPA 11.



Scan For Product Page

Foam Pourer For Fixed Roof Tanks

Fitted on the shell of a fixed roof or internal floating roof tank, to deliver foam down the inside of the shell, with a deflector to spread it gently over the liquid surface.

Sizes: 80 to 250 NB
Construction: Mild steel or SS 316, ANSI B16.5 150# flange
Foam Types: AFFF, AR-AFFF and SFFF



Scan For Product Page

Rim Seal Foam Pourer

Delivers fully aspirated foam directly to the annular seal area of an open top floating roof tank, with a windshield and integral deflector to hold foam on target. Supplied as part of our Rimseal Fire Protection System.

Sizes: 80 to 250 NB
Construction: Mild steel or SS 316, ANSI B16.5 150# flange
Foam Types: AFFF, AR-AFFF and SFFF

TYPICAL APPLICATIONS

- Cone Roof Tanks
- Internal Floating Roof Tanks
- Open Top Floating Roof Tanks
- Tank Farms And Terminals

5-YEAR WARRANTY
Confidence built into every product.

FOAM PROTECTION SYSTEMS

Foam Makers And Foam Chambers

Air Aspirating Foam Generators For Floating Roof And Fixed Roof Tanks

Foam makers and foam chambers draw air into the foam solution through a venturi jet to produce aspirated low expansion foam, which is delivered to the tank through a pourer or vapour seal chamber. Each unit is supplied with an orifice plate sized for the project flow and inlet pressure, replaceable in the field if design conditions change. A stainless steel perforated screen keeps out nesting birds and insects.



Scan For Product Page

Foam Maker, Floating Roof Tanks

Used with a foam pourer to protect the seal area of internal floating roof tanks, as a Type II discharge outlet under NFPA 11. Suitable for AFFF, AR-AFFF and SFFF foam concentrates.

Inlet Sizes: 50, 65, 80 NB · **Outlet:** 80, 100, 150 NB
Inlet Pressure: 3 to 7 Kg/cm² · **Material:** MS or SS 316
Flange: ANSI B16.5 Class 150#, IS 1538 or IS 6392 · **Finish:** Red RAL 3001



Scan For Product Page

Foam Maker With Vapour Seal Chamber, Fixed Roof Tanks

Fitted on the shell of a fixed roof tank. The vapour seal chamber keeps tank vapours out of the foam line while the system is on standby. Suitable for AFFF, AR-AFFF and SFFF foam concentrates.

Sizes (Inlet × Outlet): 50×80, 65×100, 80×150, 100×200, 150×250 NB
Foam Solution Flow: 75 to 1250 L/min
Working Pressure: 3 to 7 Kg/cm² · **Hydro Test:** 15 Kg/cm²
Material: Mild steel · **Flange:** ANSI B16.5 150#, IS 1538 or IS 6392

TYPICAL APPLICATIONS

- Floating Roof Tanks
- Fixed Roof Tanks
- Tank Farms And Terminals

5-YEAR WARRANTY
Confidence built into every product.

Foam Proportioning Accessories

Inline Foam Inductors And Foam Concentrate Control Valves

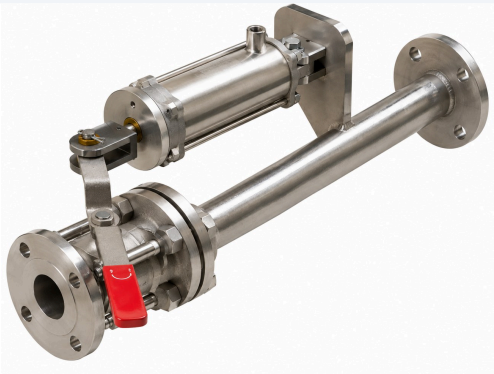


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Inline Foam Inductor Cum Proportioner

Inducts foam liquid concentrate into a water stream to supply proportioned foam solution to the foam producing equipment, in constant flow fixed installations. A venturi with no moving parts and no external power; each inductor is factory calibrated to the system's flow, pressure and induction rate.

Sizes: 50, 65, 80, 100, 150, 200 NB · **Induction:** 3%
Inlet Pressure: 6.5 to 12 Kg/cm² · **Rated Pressure:** 12.5 Kg/cm²
Body: SS 304 / SS 316 · **End Connections:** Flanged ANSI B16.5 · **Finish:** Red RAL 3000
Foam Types: AFFF, AR-AFFF and SFFF



Scan For Product Page

Foam Concentrate Control Valve

A water-actuated shut-off valve that admits foam concentrate from a bladder tank or an inline balance pressure proportioning system into the foam proportioner. It opens automatically once system water pressure reaches the minimum opening pressure, with no electric power required.

Sizes: 25 to 100 NB · **Valve:** Two-piece floating ball with hydraulic actuator
Operating Pressure: 2.1 to 12.3 Kg/cm² · **Material:** SS 316 (SS 304 optional)
Variants: Manual, or with visual and remote (limit switch) indication · **Ends:** Flanged ASME B16.5 #150
Foam Types: AFFF, AR-AFFF and SFFF

TYPICAL APPLICATIONS

- Bladder Tank Systems
- Balance Pressure Proportioning Systems
- Tank Farms And Process Plants
- Hangars And Warehouses

5-YEAR WARRANTY
Confidence built into every product.

Fabricated Strainers

20 – 600 NB | ASME Class 150 To 2500 | Carbon Steel, SS 304, SS 316

Fabricated strainers remove solid particles from liquid and gas pipelines to protect pumps, valves, nozzles and meters downstream. Each strainer is made to order for the fluid, pressure class, particle size and material specified, and hydrostatically tested at 1.5 × working pressure.



Scan For Product Page

Y-Type Strainer

50 – 500 NB. Screen area over 4 times the pipe inlet area. Horizontal or vertical lines.



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T-Type Strainer

40 – 600 NB. Compact and economical for large bore lines. Screen removed through the cover.



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Basket Strainer

25 – 600 NB. Screen area 5 times the pipe inlet area. Simplex, or duplex with changeover valves.

Conical (Temporary) Strainer, 20 – 600 NB

A start-up strainer clamped between two pipe flanges that holds back weld slag, scale and debris left in a new or modified pipeline. Basket (TB), conical (TC) and plate (TP) types, with an identifier tag outside the flanges.

Body Material	Carbon steel, SS 304 or SS 316; other materials on request
Screen	Perforated sheet, wire mesh, perforated sheet with wire mesh lining, or wedge wire
Design Code	ASME Section VIII Division 1 or ASME B31.3, as per client
End Connections	Flanged (ASME B16.5), grooved or welded

5-YEAR WARRANTY
Confidence built into every product.

PIPING PRODUCTS

Grooved Fittings

UL Listed And FM Approved



Grooved couplings and fittings for fire protection piping join pipe quickly and reliably, without welding or threading, and allow easy installation, alteration and maintenance. We supply UL Listed and FM Approved grooved products for fire water piping and for use with our deluge, foam and water spray systems.

KEY FEATURES

- UL Listed and FM Approved for fire protection service
- Quick installation, with no welding or threading of pipe
- Allows movement and alignment in the piping system
- Simple to remove for maintenance and alterations

TECHNICAL HIGHLIGHTS

Approvals	UL Listed and FM Approved
Joint Type	Grooved, mechanical
Service	Fire protection piping

TYPICAL APPLICATIONS

Fire Water Piping **Deluge Systems** **Sprinkler Systems** **Pump Houses**

FIRE DETECTION AND ALARM

Fire Detection And Alarm Systems

Supplied And Engineered With Our OEM Partners

We design, supply, install and commission fire detection and alarm systems for oil and gas, process and power facilities, as an authorised distributor of leading global brands. Systems are engineered in line with NFPA 72 and integrated with our deluge, foam and gas based extinguishing systems.



OUR SCOPE

- Addressable and conventional fire alarm control panels
- Smoke, heat, flame and linear beam detection
- Open path infrared and H_2S gas detection
- Sounders, beacons and manual call points
- Release of deluge, foam and gas based systems
- Design, installation, testing and commissioning

OUR OEM PARTNERS

NOTIFIER® by Honeywell · Simplex® · EDWARDS · xtralis®

SYSTEM SENSOR® · SIEMENS · Honeywell · tyco

ZETTLER · FIRECLASS · ESSER by Honeywell · Honeywell Farenhyt™ Series

TYPICAL APPLICATIONS

Refinery Process Units · **Gas Plants** · **Aircraft Hangars** · **Pump Houses** · **Substations And Control Rooms**

OUR PROJECTS

Specialized Fire Protection Systems

Our core business is the fire protection of flammable liquid and gas storage. We have designed, supplied and commissioned these systems at refineries, terminals, depots and plants across India.

37
Projects Executed

Rimseal Fire Protection System

Automatic foam protection of the seal area of floating roof tanks, with rim seal pourers, foam lines and detection, designed to NFPA 11.

43
Projects Executed

Foam Flooding System

Fixed foam systems for cone roof and floating roof tanks, with foam pourers, foam chambers and foam makers, and foam proportioning by inductors and bladder tanks.

119
Projects Executed

Medium Velocity Water Spray Systems

Deluge valve stations and MVWS nozzle rings for cooling and exposure protection of tanks, LPG spheres and storage areas, designed to NFPA 15.

ASSETS PROTECTED

- Floating Roof Tanks
- Cone Roof Tanks
- LPG Storage Spheres
- LPG Bottling Plants
- Diesel, Solvent And Crude Oil Tanks
- Steel, Power And Paint Plants

Project counts as of 19.10.2026.

OUR PROJECTS

Specialized Fire Protection System

23 Projects Executed

High Velocity Water Spray Systems

Drenching of oil-filled power transformers in refineries, mines and switchyards, with deluge valve stations and HVWS nozzles.



Airport Hangar Fire Protection

High expansion foam system for an aircraft hangar, with flame and beam detection and fire alarm, at Kolkata airport, supplied for the Airports Authority of India.

31 Systems Executed

Clean Agent And Gas Based Systems

Inert gas, FK-5-1-12, FM200, CO2 based total flooding systems for control rooms, server rooms, substations, turbine enclosures and cable cellars.

207 Projects Executed

Hydrant And Sprinkler Systems

Design, supply, installation and commissioning of fire water hydrant systems for plants, terminals and facilities.

54 Projects Executed

Fire Detection And Alarm Systems

Addressable and conventional detection and alarm systems, designed to NFPA 72 and integrated with our extinguishing systems.

Representational Image of Hangar Fire Protection - Kolkata Airport
Project counts as of 19.10.2026.

Purpose, Vision And Leadership

OUR LEADERSHIP



Dr Pulak Kumar De
Chairman Cum Managing Director



Manoj Kumar Chaudhury
Director



Siddharth Chaudhury
Director

OUR MISSION

To engineer and deliver specialised industrial products and technologies that solve critical challenges, protect valuable assets, and enable industrial progress.

OUR VISION

To build a globally respected Indian industrial technology and manufacturing group, known for engineering excellence, differentiated products, and solutions that serve the world's most critical industries.

COMPANY AT A GLANCE

Since 1988
Over Three Decades Of Experience

1200+ Employees
Engineering, Manufacturing And Projects

Two Factory Units
Howrah, West Bengal, India

UL Listed
Bladder Tanks, Deluge Valves And MVWS Nozzles

ISO Certified
9001 · 14001 · 45001

12 Countries
Served From India

Certified Quality. Listed Products.

MANAGEMENT SYSTEM CERTIFICATION



ISO 9001:2015
Quality Management

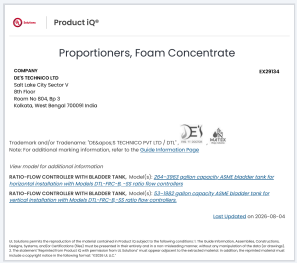


ISO 14001:2015
Environmental Management

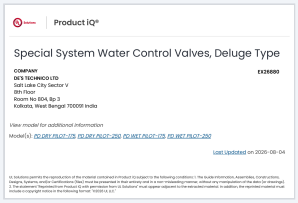


ISO 45001:2018
Occupational Health And Safety

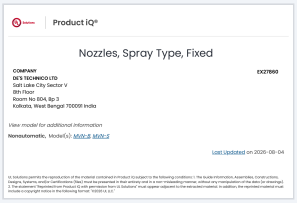
UL LISTINGS



File No. EX29134
Bladder Tank With Ratio Controller



File No. EX26880
Deluge Valves



File No. VGYZ.EX27860
MVWS Nozzles

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RECOGNITION FROM OUR PARTNERS



Edwards India Partner Meet 2024
Highest Revenue Award



Honeywell Elevate 2024
Highest Growth, Industrial Fire



Honeywell Million Dollar Club
Annual Sales Partner Conference 2023



Honeywell Multimillion Partner
Elevate 2024

OUR CUSTOMERS

Trusted By India's Leading Industries

OIL, GAS AND PETROCHEMICALS

IndianOil · Bharat Petroleum · HP · GAIL · ONGC MRPL · NRL · Oil India Limited · Haldia Petrochemicals Ltd · HRRL · Reliance Industries Limited · ADNOC · ONGC

POWER, STEEL AND PAINT INDUSTRIES

NTPC · NHPC · BHEL · CESC Limited · SAIL · Tata Steel · Berger · JSW Paints · Vizag Steel · Aditya Birla Grasim

MANUFACTURING AND AVIATION

Aditya Birla Grasim · AAI · Tata Motors · Cummins

ENGINEERING CONSULTANTS AND CONTRACTORS

Jacobs · Worley · EIL · TEN Technip Energies · Tecnimont · Toyo Engineering · Dastur · Lurgi · PDIL · thyssenkrupp · Tata Consulting Engineers · L&T

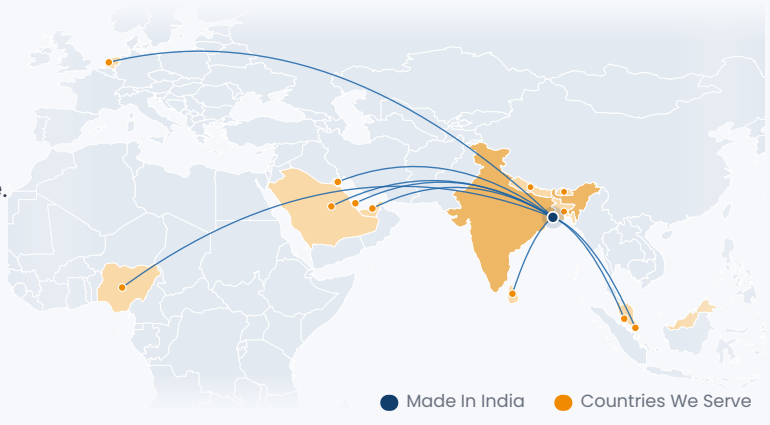
GLOBAL FIRE PROTECTION REACH

Built In India. Protecting Across Borders.

Reliable fire protection, delivered worldwide.

Saudi Arabia · UAE · Kuwait · Qatar
Nigeria · Netherlands · Malaysia · Singapore
Sri Lanka · Bangladesh · Nepal · Bhutan

12 Countries



Global Knowledge. Trusted Approvals.

OUR DISTRIBUTION PARTNERS

Our distributorship with leading global fire detection and protection brands gives us direct exposure to, and working knowledge of, some of the best products in the industry. We apply that knowledge to every system we design and deliver.

tyco	ANSUL	Honeywell	EDWARDS	SIEMENS
Fire Protection Products	Foam And Suppression	Fire Detection	Fire Alarm Systems	Fire Safety Systems

INDUSTRIES WE SERVE

- Oil And Gas
- Petrochemicals
- Fertilizers
- Power
- Steel
- Paint
- Aviation

TYPICAL APPLICATIONS

- Floating And Fixed Roof Tanks
- Storage Spheres
- Loading Gantries
- Pipelines And Manifolds
- Transformers And Switchyards
- Conveyors
- Aircraft Hangars

DESIGNS AND EXECUTIONS APPROVED BY

Jacobs · worley · EIL · TEN TECHNIP ENERGIES · TECNIMONT · TOYO ENGINEERING · DASTUR · Lurgi · पी डी आई एल PDIL · thyssenkrupp · TATA CONSULTING ENGINEERS

GET IN TOUCH

Let Us Protect What Matters Most

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