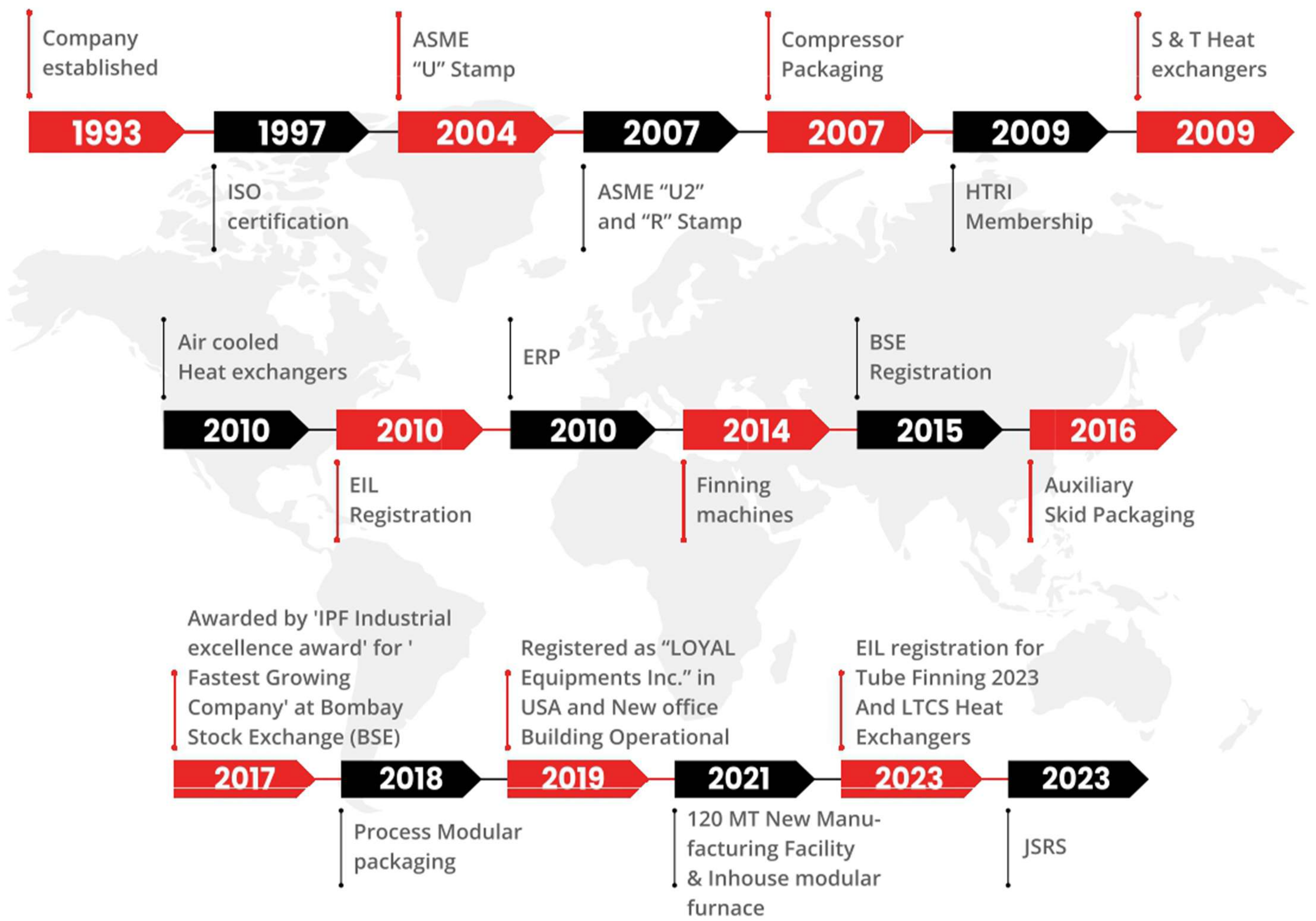




LOYAL equipments limited.

Timeline



Global Performance



Company Profile

Loyal Equipments Limited is an ISO 9001-2015 certified, ASME "U", "U₂", "NB", "R", "IBR" Stamp holder and one of the known reputed company in India for design, manufacturing, supply and erection/commissioning of process equipment like Pressure vessels, Air-cooled heat exchangers, Shell & tube heat exchangers, Pressure receivers, Process Skid packages, Lube Oil/water consoles, Heavy structural items, Base plates and other equipments for Oil and Gas-upstream/midstream/downstream, chemical, sugar, steel, fertilizers, and power plant sectors.

Loyal Equipment follows Quality Management Systems for the entire business process right from the beginning to manufacturing/fabrication and installation at the site. Along with the development of product design and manufacturing application, Loyal in its tenure of 27+ years continuously upgraded quality and product system by adapting the world's most recognized system.

Loyal Equipment is having long standing experience with Samsung Engineering, Hyundai Engineering, Thyssenkrupp, Toyo Engineering, Bechtel, Linde, Air Products, Fluor, L&T, Reliance, EIL, GSPC, GAIL, ONGC, IOCL, HPCL, BPCL, HMEL, Ingersoll Rand, Siemens, Dresser-Rand, Tata Projects, Kirloskar, and other government & private organizations.

Loyal Equipment has worked under the inspection of various third-party agencies like Lloyds, HSB, BV, SGS, TUV, DNV, EIL, TATA Projects, Jacob H&G, etc. Over the years we have built a reputation as a "High Quality" and "Dependable" supplier.

Loyal Equipment Inc. is making strides in North & South America by doing marketing & business development for Loyal Equipments Ltd, aiming to open manufacturing facilities by 2027.

History

Loyal equipments limited was established in 1993 as "Loyal Engineers". It is located in Ahmedabad, the largest city in Gujarat situated in the western part of India. Loyal has a set-up for manufacturing equipment used in various kinds of industries such as petrochemicals and refineries. After a successful year as "Loyal Engineers" the company was incorporated as "Loyal Equipments Private Limited" in the year 2007 with the facilities of design and manufacturing of process equipment. And now it is incorporated as "Loyal Equipments Limited" a BSE registered company in 2015 with new goals & achievements.

Quality Policy

LOYAL equipments limited" is committed to delighting customers by providing timely deliveries with consistent quality using the latest technology by environment-friendly, healthy and safe practices. It will be our endeavor to meet & exceed customer expectations.



Mission

1. Total quality satisfaction to customers.
2. On time shipments.
3. Participative approach in business partnership
4. Adopt atomization for productivity.
5. Conserve energy and natural resources

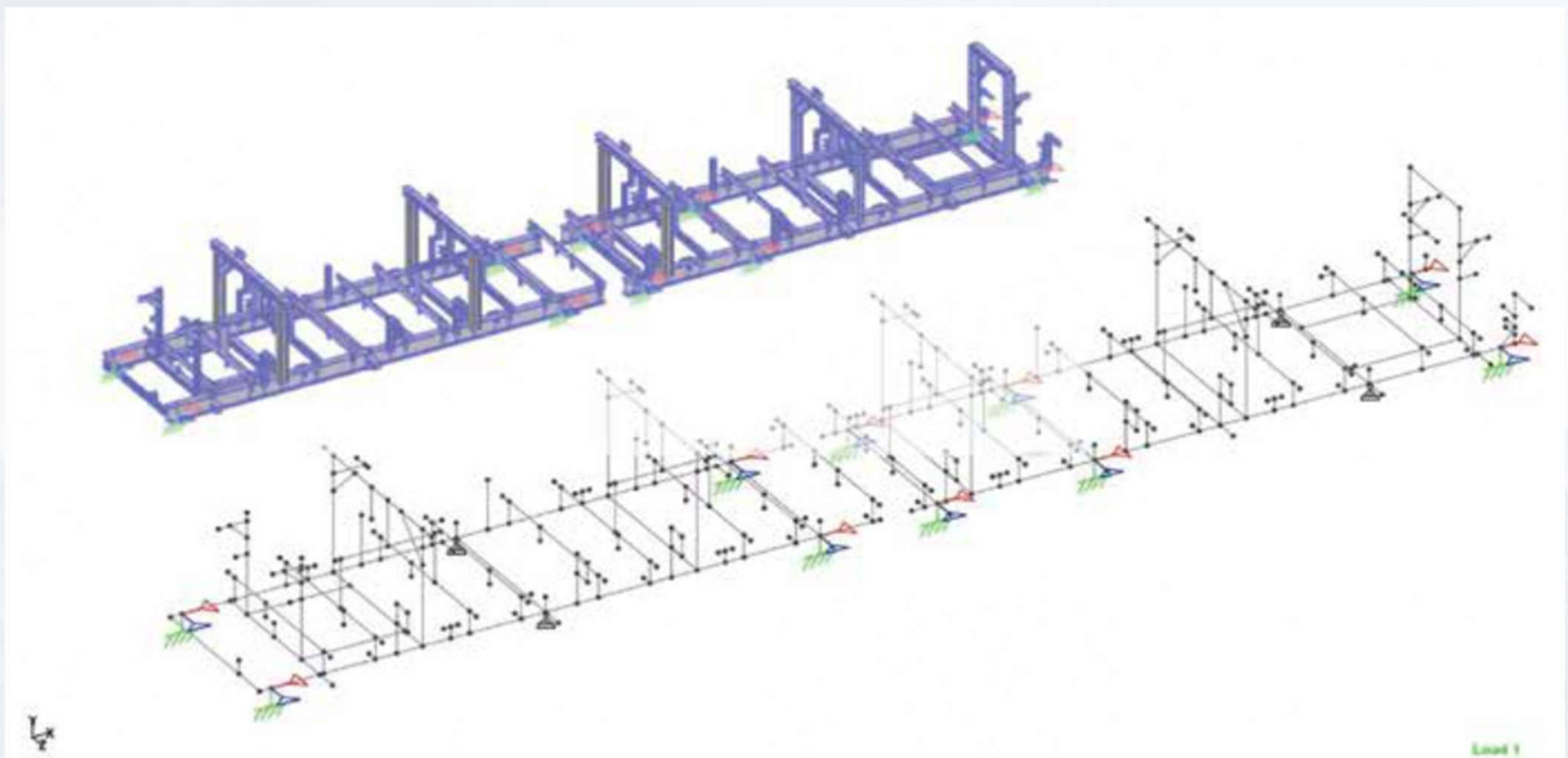
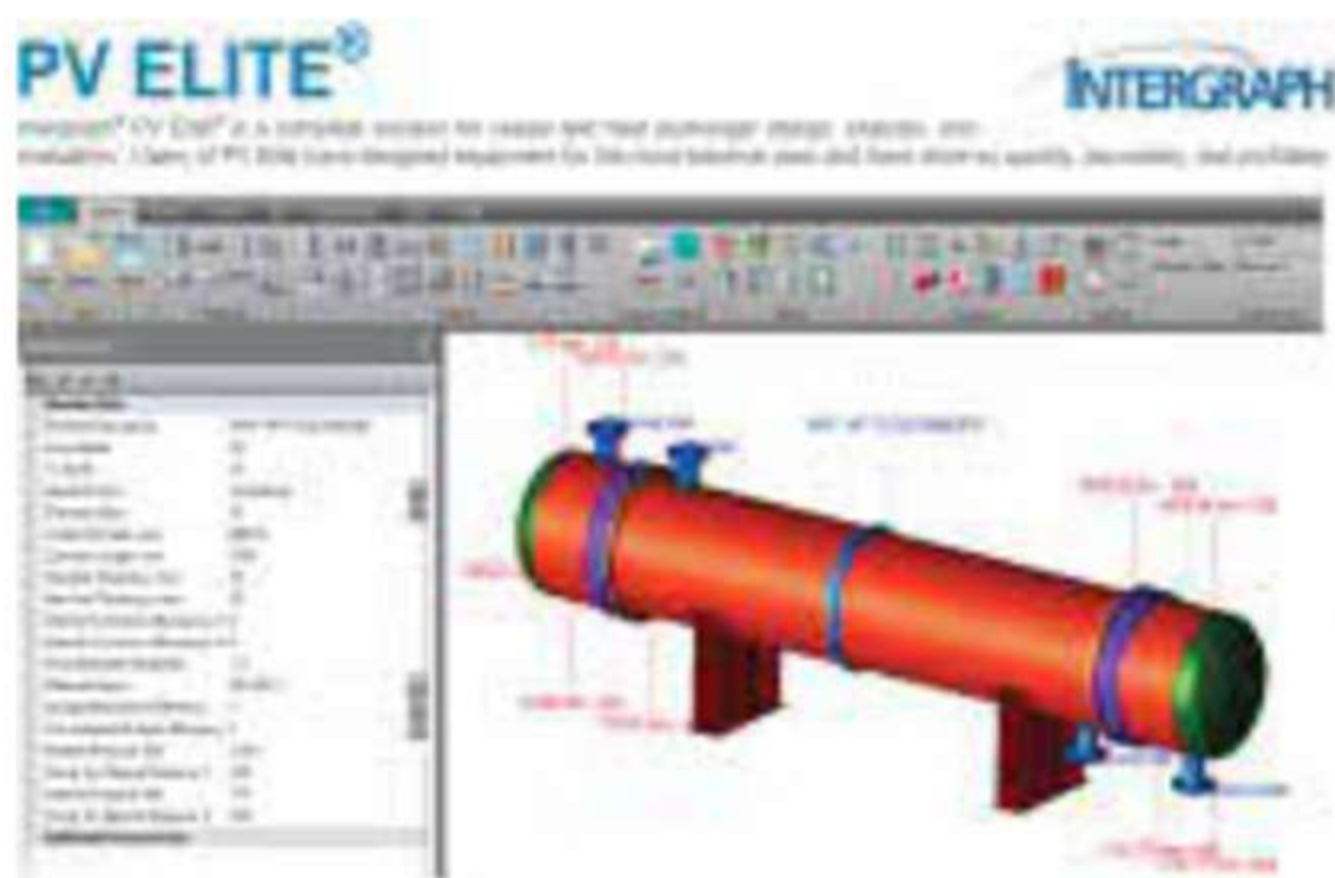
Vision

1. To conserve environment.
2. To follow the ethical norms.
3. To manufacture the products at par excellence.
4. To grow by diversification



Design & Engineering

Loyal Equipments has an in-house facility for design & engineering with international design codes, standards, software, tools, and a competent experienced team of engineers. The thermal sizing and process design of heat exchangers is carried out by world-renowned software HTRI. The mechanical design of Pressure vessels and Heat exchangers are carried out by Compress, ANSYS and PV elite software using American Society of Mechanical Engineers ASME Section Div-I & II, TEMA, IBR, API, codes. AutoCAD is used for drafting and 3D modeling is performed on Inventor under the experienced engineering and design team. Loyal holds ASME certification with "U", "U2", "R" designator along with NB registration, IBR certificate.



Quality Assurance

"Quality" at Loyal equipments has been the reason of continuous growth hence It is core strength of company. Loyal equipments is accredited by ISO 9001-2015 and this is directly under the supervision of the top management. Loyal equipments follow Quality Management Systems for the entire business process right from the beginning to manufacturing/fabrication and installation at the site. Loyal Equipment limited has supplied a number of Pressure vessels, Heat Exchangers, compressors & Auxiliaries Skid packaging in last 20 years of span and is getting repetitive orders from our clients that itself show the quality, reliability & performance of our products.

Loyal equipments is equipped with in-house NDT facilities like Dye Penetrate (DP) test, Magnetic Particle Inspection test (MPI), Hydro test, Pneumatic test, PMI (positive material identification) test, Ultrasonic (UT), Heat Treatment through modular furnace and outsources Radiography (X-ray). Loyal has experienced & qualified skilled man power capable in quality welding with ferrous and non-ferrous metals



Manufacturing

Loyal equipments has the latest machinery, tools, skilled manpower, handling equipment, and various in-house facilities for smooth operation and quality products. We have developed a sound infrastructure base that is subject to regular upgradation based on technology and working systems. Our company has 30500 sq. meters of land, in which infrastructure set up is over 8600 sq. meters with well-furnished office spread over an area of 950 sq. meters.

Loyal equipments has 7 well-facilitated fabrication bays with different capacity of EOT cranes, high-tech modern machines, and dedicated areas for Cutting, Welding, Rolling, SS fabrication, Finning, Equipment assembly, Shot blasting, Painting, etc. Furthermore, the company has an open space available that can be utilized either for material yard and if required for the fabrication of large equipment or large steel structures. We are assisted by a team of experienced and skilled professionals who are committed to meet the varied demands of clients without compromising on the quality quotient. Our team of professionals possess a sound understanding of the processes of design, manufacturing, and fabrication.

Loyal equipments is having a team of well experienced professional engineers for the field of marketing, estimation & proposal, design & engineering, Fabrication, quality & technology, inspection, erection & commissioning. Welding technologists and skilled workers experienced with various WPS and materials like mild steel, carbon steel, Stainless Steel, etc.

Infrastructure

Total Plot Area	30500 Sq meters
Covered Area	8600 Sq meters
Admin Building Area	950 Sq meters
No of Bays	07
Bay one	60 ft (width) X 200 ft (length) X 30 ft (Height) EOT 30MT
Bay two	34 ft (width) X 100 ft (length) X 30 ft (Height) EOT 5MT
Bay three	53 ft (width)X 100 ft (length) X 30 ft (Height) EOT 10MT
Bay Four	25 ft (width) X 124 ft (length) X 18 ft (Height) EOT 2MT
Bay Five	39 ft (width) X 187 ft (length) X 16 ft (Height) EOT 2/5MT
Bay Six	39 ft (width) X 187 ft (length) X 16 ft (Height) EOT 2/5MT
Bay Seven	85 ft (width) X 328 ft (length) X 44 ft (Height) EOT 60/60MT
Electrical connection	125 Kva

Product Range

1. PRESSURE VESSELS

Pressure Vessel is a closed container designed to hold gases or liquids at a pressure substantially different from the ambient pressure.



Design & Engineering software

- PV elite
- Nozzle pro
- Compress
- Auto-cad
- HTRI- for thermal design
- ANSYS

Code to be followed for Manufacturing

- ASME SEC-VIII DIV-I & II
- UHX
- TEMA
- IBR
- PD-5500
- GOST/TRCU
- API-650
- PED/CE
- DOSH
- CRN certificate

Material of Construction:

- Carbon steel (NACE/HIC)
- LTCS
- CS+SS304L/SS316L Clad
- CS+Duplex Clad
- CS+Nonferrous Clad
- Stainless Steel: SS304/304L, SS316/SS316L
- Duplex, Super Duplex, Hyper Duplex Steel
- Non-Ferrous-Admiralty BRASS,70: 30 Cu-Ni,90:10 Cu-Ni

Type of construction:

Pressure Vessel:

Vertical- Skirt, Pipe leg, Angle leg, Bracket supported

Horizontal-Saddle supported

Limpet coil type: Internal & external

Capability

Pressure Vessel:

Diameter	6000mm
Length	30,000mm
Weight	200 MT
Thickness	Up to 70



2. SHELL & TUBE/ LOW FIN HEAT EXCHANGERS

A heat exchanger is a system used to transfer heat between two or more fluids. Heat exchangers are used in both cooling and heating processes. The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact.



Type of construction:

All TEMA Type like Fixed Tube sheet, Floating Tube sheet and U-Type
Horizontal and vertical construction with saddle and Bracket support
Expansion bellow construction

Capability

Pressure Vessel:

Diameter	6,000mm
Length	30,000mm
Weight	200MT
Thickness	240mm



3. AIR COOLED HEAT EXCHANGERS

Air cooled heat exchanger also known as fin fan cooler or air fin cooler is ideally suited to processes that require the transfer of large quantities of heat. They are the products of choice for most of major companies to keep the system functioning as air is cost effective, non-corrosive and available unlimited. The ACHEs are basically designed with multiple rows of finned tubes in a series of surface and required numbers of fans are used to move the low temperature atmospheric ambient air over the finned tube coil surface in order to cool the hotter fluid media. These ACHEs are used in oil, gas, petrochemical, refinery, compressor, power and condensation plants etc. All type of fluids in process industries are cooled in ACHEs with the use of atmospheric air as the cooling media which result in economy in running costs.

Our in-depth knowledge and experience of different design codes and international standards, as well as our customers process requirements, gives us the flexibility to design each project with customization. As a result, customers trust us to provide the right design to meet their particular process specifications.

Design Standards & Engineering

We are having a well experienced and knowledgeable team for Thermal design and Mechanical design to meet the project specifications and customization requirement.

Design Standards	Inhouse Software
ASME SEC VIII DIV 1 API 661	HTRI Nozzle pro Pv Elite Compress Auto-cad ANSYS



Configurations	
Draft Type	Forced/ Induced
Bundle	Horizontal/Vertical/ Inclined
Headers	Plug Type/ Cover type
Fin Tube	Type: G, L, LL, KL
Tube to Tube sheet joint	Seal Welded/ Strength Welded
Fan Driven	Electric Motor
Fan Configuration	Horizontal/Vertical
Structural	IS 2062, EN material, galvanizing
Transmission	Belt/Gear Box
Construction	Modular/Knock down

4. AUXILIARY SKIDS

Lube Oil Consoles and Water Consoles are designed to provide pressurized fluid to various types of industrial rotating equipment. Typically, these systems include pumps, heat exchangers, filters, controls and instrumentation. Built under controlled conditions in a fabrication facility, systems are mounted on structural steel bases designed for easy and safe transport to the end-user's facility. This "modular" concept reduces start up time and costs in the field, and allows the end-user to take advantage of our OEM expertise. Our in-depth knowledge and experience of different design codes and international standards, as well as our customers process requirements, gives us the flexibility to design for each project with customization. As a result, customers trust us to provide the right design to meet their particular process specifications.



Design Standards	Inhouse Software's
API 614, 618, 610, 676, 682 ASME SEC VIII DIV 1 API 661 HTRI	HTRI Nozzle pro Pv Elite Compress Auto-cad & Inventor ANSYS

5. RECIPROCATING AND TURBO PACKAGING



6. PROCESS MODULAR PACKAGING

LOYAL is a trusted name in manufacturing and supply of process plants, skid packages. LOYAL specializes in offering custom designed skid mounted units to various customers at domestic and international level.

A modular process skid is a self-contained process system that has been built into a frame or “module” for easy transportation and integration. Modular process skids can contain entire process systems or individual process applications. Process skids are an alternative to traditional stick-built construction where system parts are shipped individually and installed incrementally at the manufacturing site.

This execution philosophy has several advantages over the conventional methods as it organizes a manufacturing process into logical units to minimize risk, saves cost and time and is useful in case of process operations in difficult geographical terrains.



LOYAL is having capability to manufacture and supply different types of process skids such as:

- Wet Air Oxidation Skid
- Pressure Swing Adsorption Skid Package
- Air Separation Unit
- Cryogenic Hydrogen Recovery unit
- Ammonia & Hydrogen Recovery Unit
- Wash Water System Skid Package
- Hydrogen skid Package- Hydrogen plant
- Other types of skid packages



Our Esteemed Clients



Third Party Inspection Agencies



Executed Jobs



Pressure Vessel

Client: TATA Projects
End User: HRRL



Pressure Vessel

Client: L&T Hydrocarbon Engineering
End User: HPCL VIZAQ



Pressure Vessel

Client: TOYO Engineering India Pvt. Limited
End User: HRRL



Pressure Vessel

Client: Dresser Rand
End User: ADNOC Refinery



Pressure Vessel

Client: Burckhardt Switzerland
End User: Petronas Refinery



Shell & Tube Heat Exchanger

Client: GAIL India - USAR



Shell & Tube Heat Exchanger

Client: GAIL India – MP



Shell & Tube Heat Exchanger

Client: IOCL – Panipat Refinery



Shell & Tube Heat Exchanger

Client: Reliance Jamnagar



Shell & Tube Heat Exchanger

Client: Dresser Rand (USA)

End User: Port Arthur refinery



Shell & Tube Heat Exchanger

Client: Simon India Ltd (PMC:PDIL)

End User: Adani Gas Ltd



Shell & Tube Heat Exchanger

Client: Reliance Industries Ltd

End User: Jamnagar



Air Cooled Heat Exchanger

Client: HPCL

End User: HPCL, Mahul, Mumbai



Air Cooled Heat Exchanger

Client: Dresser Rand

End User: Adani, Dhamra Lng



Air Cooled Heat Exchanger

Client: Kirloskar Pneumatics

End User: ONGC



Air Cooled Heat Exchanger

Client: Burckhardt Compression India

End User: Air Product, Netherland



Process Modular Packaging

Client: PSA-Skid for HRRL, Rajasthan, India

Design by Linde Engineering India Pvt Ltd.



Process Modular Packaging

Client: Hydroprime Min-skid For Mathesan Usa
Design by Linde Engineering India Pvt Ltd.



Process Modular Packaging

Client: Air Separation Unit-Skid (ASU)
Design by Linde Engineering India Pvt Ltd.



Process Modular Packaging

Client: Cryogenic Hydrogen Recovery Unit (CHRU)
Design by Linde Engineering India Pvt Ltd.



Auxiliary Skids (Water & Oil Console)

Client: Burckhardt Compression
End User: Petronas Malaysia



Auxiliary skids (Water & Oil Console)

Client: Burckhardt Compression
End User: Dangote - Nigeria

Infrastructure/Facilities



WORKSHOP



MATERIAL YARD



**Electric Overhead Travelling
Crane (EOT)**



MODULAR FURNANCE



LATHE MACHINE



CNC PLASMA CUTTING MACHINE



MC ELROY FIN TUBE MACHINE (L, LL & G FIN)



ROLLING MACHINE



DRILLING MACHINE



ROBOTIC WELDING MACHINE



MOBILE HYDRA CRANE

Administration Building



 **LOYAL equipments limited.**

Registered Office & Workshop:

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 **LOYAL equipments Inc.**
USA

 **LOYAL Care Foundation.**

 **LOYAL Sports Pvt. Ltd.**