

Multi-Stage Gas Compressor

(Piping Detailed Engineering & 3D Modeling)

Key Features

Technology:

PDS
CAESAR II
AutoCAD
Navisworks

Duration:

The project was completed in 6 Months

Deliverables:

1. Area wise model
2. Area wise clash check report
3. Area wise Piping GA
4. IFC Isometrics
5. Stress Analysis Reports
6. Nozzle orientation reports
7. Battery limits/ Tie in points / Sleeper details
8. Support Books with Sketches
9. BOM
10. All check prints with check list for audit purpose

The Client

Global supplier of custom-engineered rotating equipment solutions for applications in the oil, gas, process, power, and other industries worldwide. Headquartered in Houston, Texas, United States, and Paris, France and has 13 manufacturing sites and over 76 sales offices worldwide.

The Business Need

The client required Piping detailed engineering & 3D modeling for a multi-stage gas compressor. The project underwent many designs & modeling cycles to be compliant as per the global industry codes and standards.

Rishabh's Solution

Rishabh's Engineering team completed the project in a duration of 6 months.

The multi-stage gas compressor provided services like

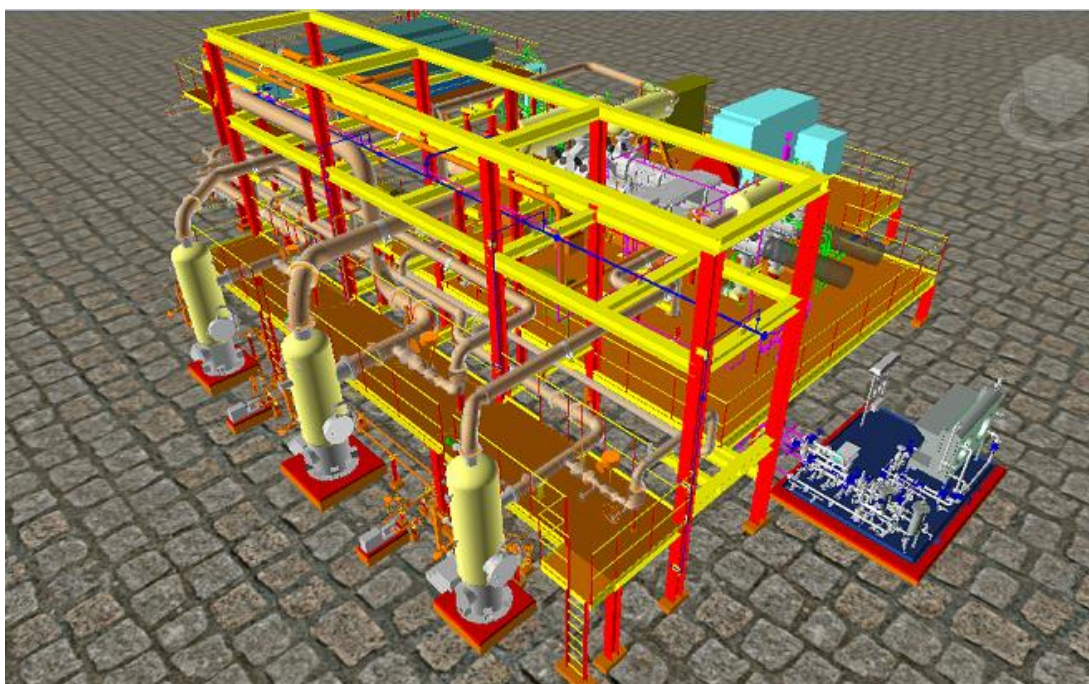
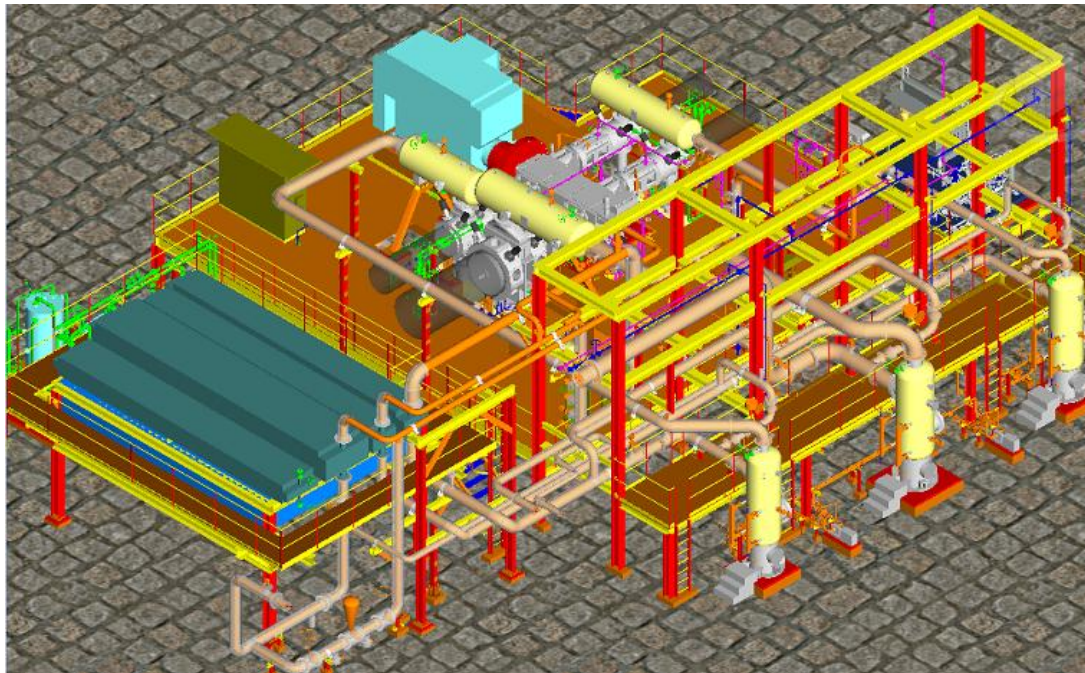
- Gas process
- Cooling water
- Cooling water console
- Nitrogen
- Lube oil
- Instrument air
- Package drain
- Package drain Pot vent

The details for piping included

- Process piping
- Utility piping
- Vessel trim
- Physical supports

In addition, the equipment included for detailed engineering & 3D modeling were

- Suction Scrubber
- Suction Volume Bottle
- Discharge Volume Bottle
- Discharge Cooler
- Condensate Pump
- Drum Pot
- Cooling Water Tank
- Air Cooled Exchanger
- Cooling Water Pump



Technology Used

- 3D Modeling – PDS
- Piping Stress Analysis – CAESAR II
- 2D Drawings – AutoCAD
- Review File to be delivered in .NWD (Navisworks)

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More information about Rishabh Software, please visit:

www.rishabhsoft.com | www.rishabheng.com | www.rishabhbpo.com

About Rishabh Engineering

Rishabh Engineering provides multidisciplinary engineering support services to EPC companies in industries like Oil and Gas, Petrochemical, Power and Water treatment. Our parent company, Rishabh Software is a CMMi level-3, ISO9001 and ISO27001 company that provides services in Software Development, Business Process Outsourcing (BPO) and Engineering Services Outsourcing (ESO) to clients globally. Rishabh has offices in USA, UK and India with their main delivery center in Vadodara, India.