

ES5003 RFB axial inlet conversion

Proven solution increases operational efficiency

energy

Engineered solution purpose

This engineered solution significantly improves RFB compressor efficiency.

Applicability

RFB24, RFB30, and RFB36.

Technical description

The existing overhung side-inlet configured compressor is converted to an overhung axial-inlet style compressor.

Benefits

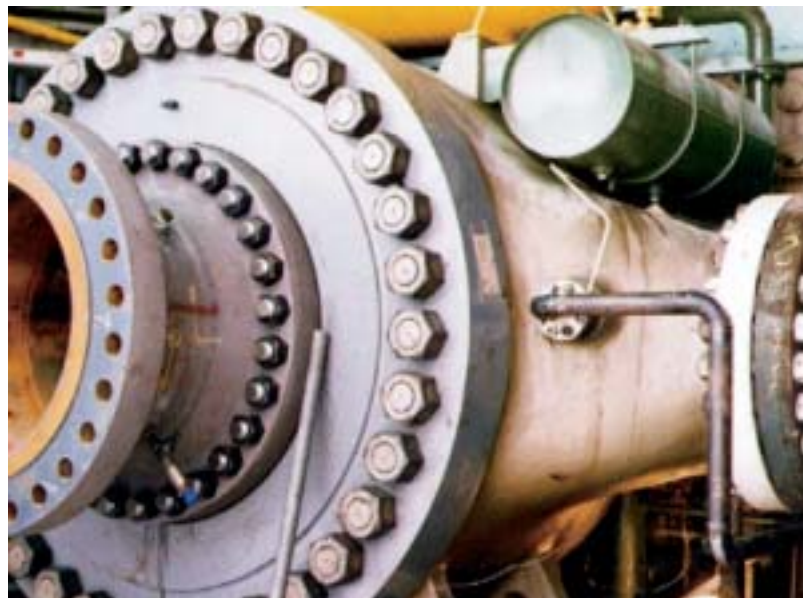
This conversion increases compressor efficiency. The level of increase is dependent upon the pressure ratio and volume flow through the compressor.

Experience

31 RFB side inlet compressors have been converted to axial inlet.

Scope of work

- New casing cover with integral flange
- New studs and nuts
- New outer intake wall/inlet extension
- Rework existing inlet guide vane support
- New impeller retaining hardware/nose piece
- New blind flange bolts and gasket



Bill of materials

- Casing cover with integral flange
- Studs and nuts
- Outer intake wall/inlet extension
- Impeller retaining hardware/nose piece
- Blind flange bolts and gasket

Undertaken

- At site

Bundling opportunities

- Compressor re-aero [ES5001]
- Dry diaphragm coupling conversion [ES5002]
- Compressor dry gas seal conversion [ES5004]
- Certified tooling [ES5008]
- Health Evaluation Legacy Programme [ES6002]