

SUCCESS STORY

MAJOR MODERNIZATION OF GAS LIFT COMPRESSOR

CASE NO. 157

APPLICATION DESCRIPTION

Modernization of 40 years old gas lift compressor in European refinery

Type	Other brand process gas compressor	Gas	Hydrogen sulfide, methane
Power	709 kW / 950 hp	Suction pressure Discharge pressure	4 bara / 58 psia 57 bara / 826 psia
Speed	375 rpm	Lubrication	Lube

CUSTOMER SITUATION/NEEDS

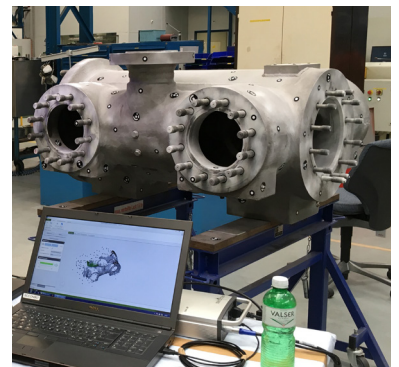
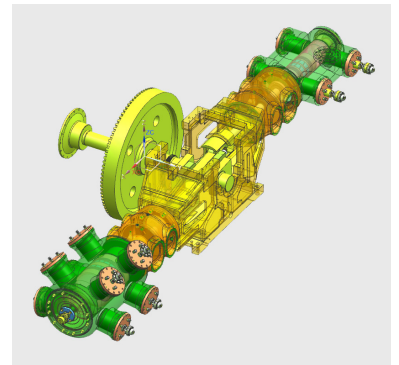
- Upstream production increase requested a third gas lift compressor and a higher system availability (only two out of three existing compressors were in operation).
- Due to severe cylinder damage, the third compressor has been unavailable for several years. A major modernization was required.
- Additional risks due to the high concentration of H₂S (hydrogen sulfide) and hydrocarbon gases

BURCKHARDT COMPRESSION SOLUTION

- Thorough inspection of the compressor and recommendation for improvements
- Reverse engineering and redesign without having the old parts or original drawings available, including the implementation of the latest technology
- Repair of several main components and upgrade to the latest technology
- New state-of-the-art Burckhardt Compression key components: Redura® Sealing Systems and Burckhardt Poppet Valve™

CUSTOMER BENEFITS

- 40% lower investment costs and faster delivery time compared to a new compressor solution
- Increased reliability of compressor components by applying improved in-house developed material, resistant against H₂S contamination
- Higher availability of compressor capacity for higher flow needs
- No modifications of the foundation needed



**WITH OUR IN-HOUSE
EXPERTISE WE KEEP ANY
COMPRESSOR RUNNING
ENDLESSLY**



COMPRESSOR OEM WITH
MORE THAN 170 YEARS OF
EXPERIENCE



EFFICIENT EXECUTION FOR ON
SCHEDULE PLANT
AVAILABILITY



CUSTOMIZED SOLUTIONS WITH
OEM WARRANTY

COMPRESSOR COMPONENTS

BEST PERFORMANCE
AND LONGEST LIFETIME

Compressor valves

Redura® rings & packings

Capacity control systems

Capital parts

Labyrinth piston compressor
components

Hyper/secondary compressor
components

SERVICES

THE FULL RANGE

Burckhardt Valve Service

Spare parts logistics

Field service

Technical support

Revamps & upgrades

Component repair

Condition monitoring &
diagnostics

Training

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