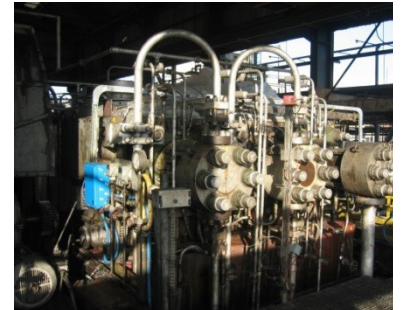# SUCCESS STORY

UPGRADE OF HP CARTRIDGE FOR HYPER COMPRESSOR

CASE NO.102

APPLICATION DESCRIPTION
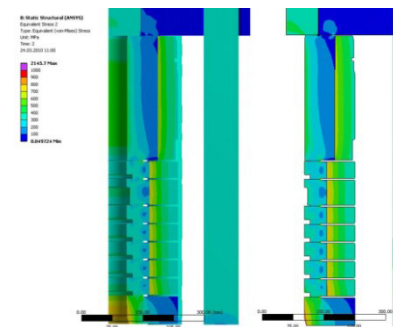
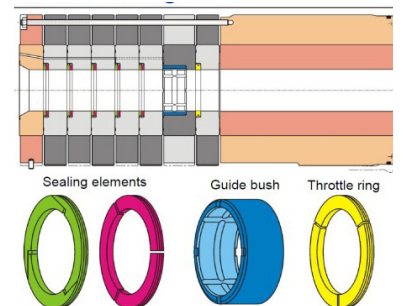| Upgrade of high pressure cartridge for other brand hyper compressor			
Type	Other brand hyper/secondary compressor	**Gas**	Ethylene
Power	21'400 kW / 27'700 hp	**Suction pressure** **Discharge pressure**	268 / 1'742 barg 1'742 / 3'100 barg
Speed	214 rpm	**Lubrication**	Forced lubrication to cylinder

CUSTOMER ISSUES/NEEDS

– Increase reliability of high pressure cartridge
– Simplify installation procedure of high pressure cartridge for lower downtime during service interval
– Material analysis and propose possible improvements

BURCKHARDT COMPRESSION SOLUTION

– Finite element analysis (FEA) of high pressure cartridge
– Indicating improvements for high performance material to be used
– Know-how and experience provided from the market leader in LDPE compressor design
– Upgrade high pressure cartridge to Burckhardt Compression HyproPack™ design

Sealing elements   Guide bush   Throttle ring

CUSTOMER BENEFITS

– Shorten the downtime during service interval due to the use of Burckhardt Compression HyproPack™ design
– Simplify installation and ensure higher service quality
– Extend MTBO to highly challenging EVA application
– Warranty on the solution

Burckhardt Compression

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

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Field service

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Component repair

Condition monitoring & diagnostics

Training

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