

SUCCESS STORY

EMERGENCY REBUILD OF DRY HYDROGEN COMPRESSOR

CASE NO.101

APPLICATION DESCRIPTION

Emergency rebuild of dry hydrogen process gas compressor

Type	Other brand process gas compressor	Gas	Hydrogen
Power	340 kW / 455 hp	Suction pressure Discharge pressure	1 bara / 15 psia 13 bara / 195 psia
Speed	600 rpm	Lubrication	Pressure lube system

CUSTOMER ISSUES

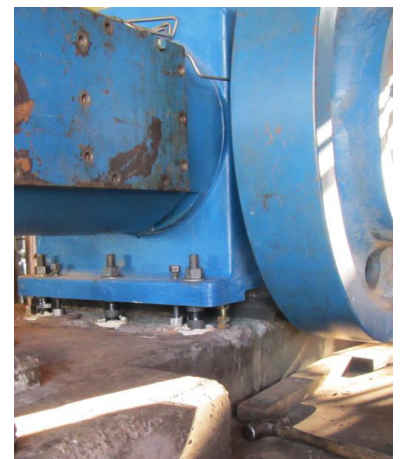
- Shutdown through client when a loud noise was noticed and the compressor was vibrating out of normal conditions
- Compressor alarm devices have failed and allowed the compressor to keep running
- Main cause due to bearing sleeve not pinned and allowed to spin
- Reasonable suspicion that something has been broken

BURCKHARDT COMPRESSION SOLUTION

- A Burckhardt Compression reciprocating specialist was deployed to the site for consultation
- Root cause analysis (RCA) of major crank gear components executed with OEM know-how
- Entire lower frame with crank gear had to be removed and replaced because of severe damage to the crank gear
- Replacement and upgrade of sensor controls
- Transparent and good communication, trust in competencies of Burckhardt Compression

CUSTOMER BENEFITS

- RCA for clear understanding and future prevention of the failure
- Fast reaction and flexibility to solve the issue in short time
- Close collaboration with customer, Burckhardt Compression stayed on site until the compressor was rebuilt and successfully commissioned
- Put alarm system in reliable function



**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

Burckhardt Compression

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Your local contact



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