



## SUCCESS STORY

### EMERGENCY REPAIR OF A 50-YEAR-OLD DRY NITROGEN COMPRESSOR FOUNDATION IN A STEEL PLANT

Cogne Acciai Speciali, a leading producer of stainless steel products based in Aosta, Italy, turned to Burckhardt Compression Italy after sudden and excessive vibrations led to the unexpected shutdown of the 50-year-old dry nitrogen compressor. A root cause analysis detected cracks in the foundation and damaged anchor bolts. Thanks to the immediate local support and close collaboration with the customer, the foundation was repaired on-site and the system was smoothly restarted within the customer's tight schedule.

#### PROJECT CHALLENGES

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- Unexpected compressor shutdown after sudden high vibrations and noise
- Compressor system couldn't be restarted
- Immediate action required due to high risk of production loss
- Tight schedule to bring the compressor back on stream

## APPLICATION DESCRIPTION

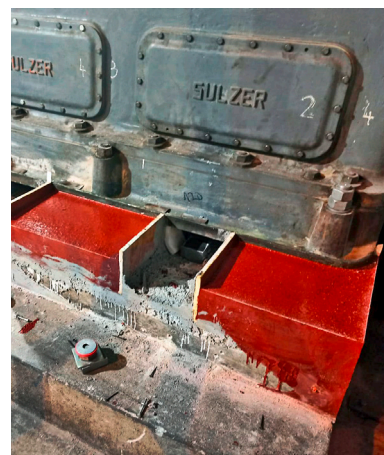
Foundation repair of a Laby® Compressor in a steel production plant			
Type	Laby® Compressor 4D200-3A	Gas	Dry Nitrogen
Power	285 kW / 380 hp	Suction pressure Discharge pressure	0.99 bara / 14.36 psia 40.18 bara / 582.76 psia
Speed	580 rpm	Lubrication	Oil-free

## BURCKHARDT COMPRESSION SOLUTION

- Immediate on-site consulting by our local reciprocating compressor experts
- Root cause analysis in order to detect the cause of the vibration and noise
- Findings of cracked foundation and damaged anchor bolts
- Local supervision and project handling
- On-site repair of the compressor foundation and damaged anchor bolts
- Alignment with the main motor and mechanical completion of the compressor
- Smooth and safe start-up of the compressor

## CUSTOMER BENEFITS

- Local single point of contact
- One-stop shop solution for all service activities
- Execution of the project within customer's tight schedule
- Renewed foundation condition for a reliable compressor operation
- Smooth compressor operation condition after intervention
- No production downtime



Compressor foundation during on-site repair



50-year-old nitrogen Laby® Compressor after foundation repair



**"Cogne Acciai Speciali has chosen Burckhardt Compression as a reliable partner since several years. Also in this case we had strong and fast support to solve an unpredictable problem."**

Matteo Diani, Plant & Maintenance Manager,  
Cogne Acciai Speciali

### Burckhardt Compression AG

24-hour emergency tel.: +41 52 262 53 53  
aftersales@burckhardtcompression.com  
www.burckhardtcompression.com