

Success Story: Partnership-driven excellence in hydrogen compression

Long-term
partnerships



Our customer operates three non-lube Burckhardt Compression Process Gas Compressors at its hydrogen production facility in Europe. Each compressor has been in continuous operation for more than 14 years. They are maintained under a Framework Agreement, reflecting a partnership built on trust and performance. This collaborative approach enables our customer to efficiently leverage Burckhardt Compression's comprehensive service portfolio. Within this agreement, we have successfully achieved an impressive mean time between overhaul (MTBO) of over 12'000 hours for each of the three hydrogen compressors.

Renowned for its commitment to excellence, our customer consistently seeks partners that deliver superior products and services. Burckhardt Compression meets these high standards, providing reliable solutions that support its mission of safe, efficient, and sustainable operations. This shared commitment resulted in the decision to collaborate under a Framework Agreement.

Customer targets

- Maximum compressor availability in demanding hydrogen application
- Low operating costs
- Strong local technical support and field service experts
- 24/7 support and fast response times

Burckhardt Compression solution

Framework Agreement

We established a Framework Agreement to ensure effective service concepts, proactive planning, and reduced administrative burden. Regular performance review meetings facilitate the integration of the latest innovations and promote open feedback exchange. A dedicated Account Manager streamlines communication, making collaboration more convenient and efficient.

Advanced monitoring solutions

The compressors are equipped with the PROGNOST®-SILver system, delivering comprehensive machine protection based on key process parameters to guarantee full personnel safety. With extremely early and reliable detection of irregularities, supported by automatic plausibility checks, the system triggers immediate compressor shutdowns whenever needed.

Strong local presence in Europe and 24/7 technical support

With over nine Service Centers in Europe and additional locations worldwide, we ensure rapid response times. Our global support network is available 24/7 and is backed by a team of highly skilled technicians.

In-house sealing solutions for dry-running applications

Our sealing rings are manufactured using tailor-made compounds from the Persisto® range. By designing and producing these components entirely in-house, we maintain full control over the process – an essential factor in delivering high-performance sealing solutions for demanding dry-running environments.

Customer benefits

- Proven compressor availability exceeding 12'000 hours
- Optimized maintenance strategy
- A single point of contact for efficient communication
- Fast expert support from local service teams
- Increased performance through data-driven insights

Compressor data

Burckhardt Compression hydrogen compressors			
Type	Process Gas Compressors 6B2AC	Gas	Hydrogen
Power	4'800 kW / 6'400 hp	Suction pressure Discharge pressure	22.5 barg / 326 psig 101 barg / 1'464 psig
Speed	375 rpm	Lubrication	Dry-running



Local Burckhardt Compression field service representative during a detailed on-site inspection.



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What our customer says:

"Burckhardt Compression has proven to be a reliable partner in our hydrogen operations. Thanks to their proactive service approach and advanced monitoring solutions, we've achieved a mean time between overhaul of over 12'000 hours on all hydrogen compressors. The Framework Agreement simplifies collaboration and strengthens the long-standing, trust-based relationships between key experts – exactly what we need for safe, efficient, and sustainable performance."

Burckhardt Compression AG

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