

Oil-free hydrogen compression solutions for high-pressure applications

Skid-mounted piston compressor unit 2CS

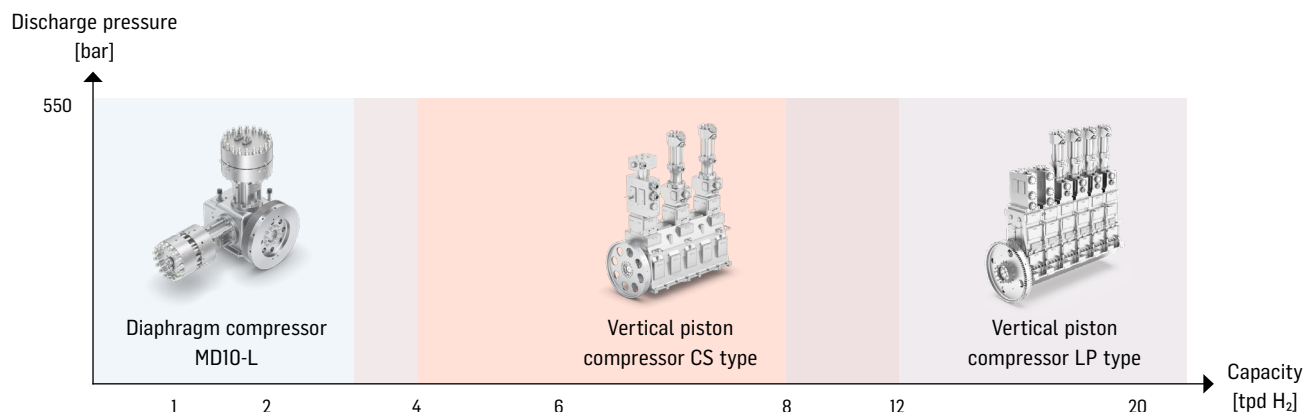
Hydrogen is increasingly used as a transportation fuel due to its high energy density and environmental benefits. Its distribution to fuel stations typically involves tube trailers, which require reliable and efficient filling solutions. Burckhardt Compression addresses this need with advanced oil-free compression systems, specifically engineered to meet the stringent purity standards demanded by fuel cell applications.

Burckhardt Compression is the global market leader in the field of reciprocating compressors. Our compressor solutions are used in the chemical, petrochemical, gas transport and storage, hydrogen mobility and energy, industrial gas, refinery and gas gathering and processing markets.

Customer benefits

- Oil-free piston ring design for highest gas purity
- Available up to 550 bar
- Energy-efficient flow control for part-load operation
- Pressure-tight crank case - no nitrogen purge needed
- Skid-mounted installation
- Mean time between overhaul (MTBO) of 12'000 hours expected
- Full range of after-sales services
- Worldwide service network ensuring reliable local support

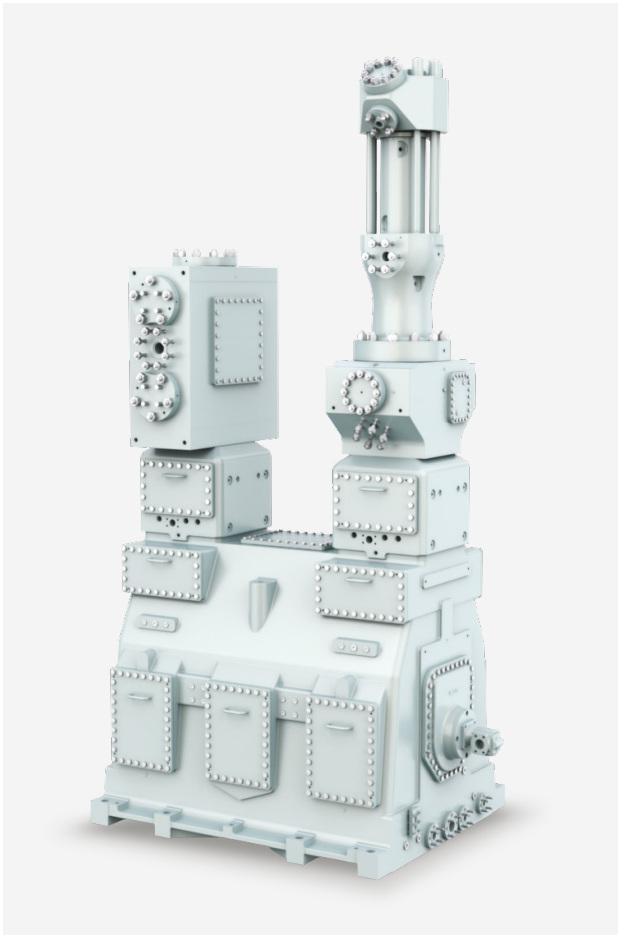
Oil-free, high-pressure compressor portfolio for H₂ trailer filling



2CS piston compressor
For hydrogen tube trailer filling

2CS compressor with 2 cranks, oil-free design

Reference project



Compressor type: 2CS
Application: Hydrogen trailer filling
In operation since: 2001
Location: Germany
MTBO achieved: 12'000 hours

Technical data

Type	Ps barg	Mass flow nom kg/h	Pd barg	Footprint l x w mm
2CS	15 – 40	180 – 250	350 – 550	Approx. 8'000 x 4'000

Note: Looking for a different technical solution? Burckhardt Compression provides a comprehensive range of H₂ compression options. Please get in touch with your local sales representative to find the right fit for your needs.

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