



HCP 500

Hydrogen Compressor Package

Achieve high mass flow hydrogen compression



Learn more by visiting
www.hoerbiger.com/hcp
today!



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Hydrogen is a key element in the green energy transition by significantly contributing to the decarbonization of the industry. To allow wide use of hydrogen the equipment must evolve into industrialized and efficient solutions, enabling you to meet your total cost of ownership expectations for hydrogen compression. Our technology provides you with the most cost-effective and reliable high-pressure hydrogen compression solution on the market. One standardized compressor package that can operate with different kinds of hydrogen supplies.

Transport and Storage







The transport and storage of the molecule will be a central issue of the future hydrogen economy, regardless of the type of transport and subsequent storage. The HCP 500 is a compressor solution that enables flexible filling and withdrawal of hydrogen from a wide variety of sources, enabling efficient transportation and storage solutions for hydrogen applications. The standardized but application-tailored compressor package from HOERBIGER allows the extraction of hydrogen for:

- Pipelines
- Trailers
- Storage cylinders
- Cascade storage tanks
- Electrolysers

Refueling

Solutions for hydrogen refueling stations will play an important role in the energy transition of heavy-duty vehicles. With the HCP 500 we are providing a cost-efficient compression package that is purposely designed to meet technical requirements of applications in hydrogen refueling stations for:

- Trucks
- Busses
- Trains
- Ferries

Use Case	Pressure Suction	Mass flow	Pressure Discharge
Minimum	 15 bar 217.5 psi	 187 kg/h 76,177 scf/h	500 bar 7,250 psi
Design	 25 bar 362.5 psi	 250 kg/h 105,802 scf/h	500 bar 7,250 psi
Maximum	 275 bar 3,988.5 psi	 300 kg/h 126,962 scf/h	500 bar 7,250 psi

Your benefits at a glance

Features	Advantages	Benefits
Maintains high mass flow rates even with low suction pressure, starting at 15 bar / 217.5 psi	Continuously high mass flow	Less compressors Fast fill / short refill time Less buffer storage / high pressure
eHydroCOM included	Stepless compressor capacity control (0 – 100%) Competitive CAPEX compared to frequency converter	Precise and flexible process control Energy efficiency and saving costs especially at part load operations
Packaged turnkey solution with high standardization degree, supported by global service organization	“One stop shop” that covers installation to spare parts to maintenance – whole “scope” is covered	Increased compressor availability and efficiency
Compact design due to vertical recip	Small Footprint	Reduced costs
Incorporates a flexible and efficient digital twin software system with high security standards	Maximize compressor operating window with real time limit adjustment, based on current operating conditions	Increased uptime & optimized OPEX
Utilizes industry-leading HOERBIGER components for superior performance and reliability	High development and product industrialization standards from 100+ years experience	Minimized downtime and enhanced operational efficiency





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Contact us via email
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Locally close to the customers – globally successful: HOERBIGER is active worldwide in 43 countries on all continents. 6,174 employees at 133 locations – including 30 production plants – deliver reliable solutions for better performance, increased safety, and fewer emissions. In 2023, they generated sales of 1.416 billion euros. For renowned customers from the energy sector, the process industry, the automotive industry, the mechanical engineering industry, safety technology, and the electronics industry, performance-determining products and services from HOERBIGER make the difference. With innovations for decarbonization and energy transition, HOERBIGER is already enabling change today for a better tomorrow. As majority shareholder, the HOERBIGER Foundation preserves the 129-year-old entrepreneurial heritage and guarantees stability, independence, and a future-oriented strategy.

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