

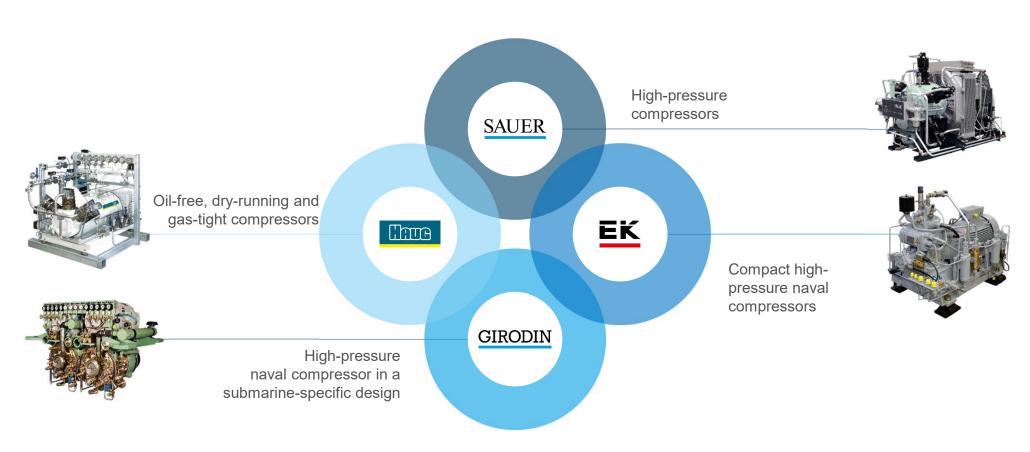
ABOUT US





PRODUCT BRANDS





Company Profile 2025 - Sauer Compressors Group

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CERTIFIED PRODUCTS



HAUG hydrogen compressors

- First use on Hydrogen in 1989 for a solar energy demonstration project in Germany.
- Over the past 35 years, we have continuously improved and have set new standards in the industry.



- ✓ Oil-free and dry-running design
- ✓ Hermetically gas-tight
- ✓ HAUG NanoLoc high-pressure stages
- ✓ Inlet pressures of up to 30 barg
- ✓ Suitable for final pressures up to 450 barg and max. volume flow rate of up to 100 m³/h
- ✓ Ex-proof versions acc. to ISO 80079-34:2020 and the European ATEX directive 2014/34/EU







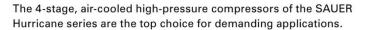
CERTIFIED PRODUCTS

SAUER

SAUER Hydrogen compressors stand for oil-lubricated heavy-duty machines that are an efficient and economical solution for all kinds of industrial hydrogen applications.



SAUER //// Hurricane



- 4-stage compression
- Direct drive
- High-efficiency air cooling



- ✓ Special gas-tight design
- Proven in the most demanding conditions in industry and offshore applications
- ✓ Inlet pressures of up to 20 barg.
- ✓ Suitable for final pressures up to 350 barg and a max. volume flow rate of up to 1,000 m³/h
- ✓ Ex-proof versions acc. to ISO 80079-34:2020 and the European ATEX directive 2014/34/EU



SAUER /////6000 series

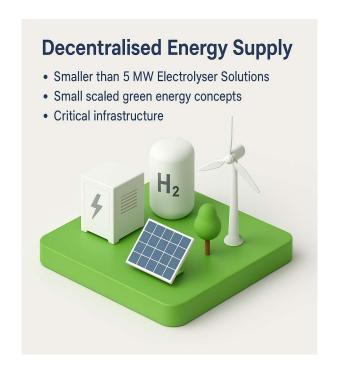
The water-cooled compressors of the SAUER 6000 series have a modular design with up to six cylinders, which allows many different variations. As the largest piston compressors of their kind, they allow maximum performance even in the most difficult conditions.

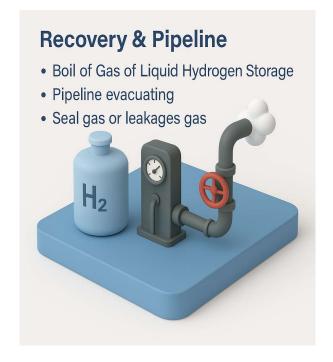
- Modular 4 or 6 cylinder design
- Up to 5-stage compression
- Hermetically gas-tight magnetic coupling drive
- Water-cooling system with individual cylinder/inter-stage cooling

WHERE DO WE FIT IN?









HOW TIGHT IS "GASTIGHT"?





HOW TIGHT IS "GASTIGHT"?

- 'Gastight' is no absolute technical term
- Everything leaks it is just a matter of time to measure
- · Test pressure, volume, gas needs to be defined
- Leakage rate mbar * I / s (millibar times liters per second)
 - → tiny flow rate
 - Mbar*l/s * $60 = cm^3/min$
- Flanged connection 10⁻⁴ mbar*l/s
 - · 'bacteria-tight'
- 10-6 mbar*l/s
 - 'virus-tight'

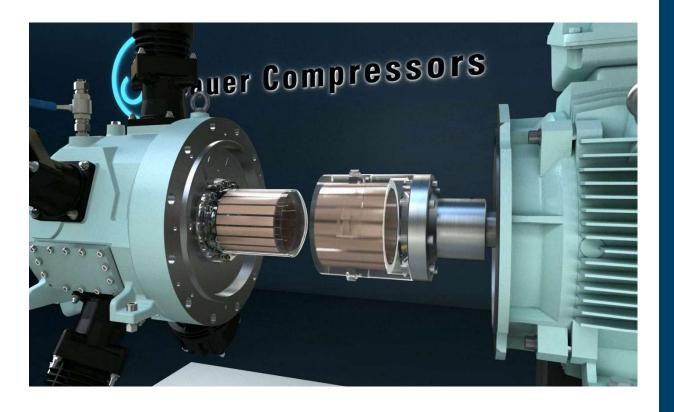






- Marketing
 - · 'Hermetical gastight'
 - · 'Absolutely gastight'
- Technical terms
 - · 'permanently technically gastight'
 - gaskets, seals, o-rings, unions
 - · 'technically gastight'
 - packings and stuffings with wear
 - Standards e.g.
 - TRBS 2152
 - DIN EN 1779

MAGNETIC COUPLING





Sauer 6000 and ORKAN Series HAUG Sirius and Neptune

- Seals against oil and gas
 - overpressure inside the crankcase up to 20 bar g
 - vacuum tight
- No friction, wear, seazure
 - maintenance-free
 - 'Set it and forget it'!



THANK YOU ANY QUESTIONS?

If you would like to discuss your application contact: Chris.jones@sauercompressors.co.uk
01206 233 335