



# COMPRESSOR SOLUTIONS FOR POWER-TO-GAS APPLICATIONS

## OIL-FREE HYDROGEN COMPRESSOR SYSTEMS

### APPLICATION DESCRIPTION

The need for carbon emission reduction is forcing the industry to increase energy production from renewable sources. The increased share of energy delivered from unpredictable sources such as solar and wind energy is causing the industry to increase the capacity of energy storage. Energy stored in hydrogen produced from wind and solar power is one of the preferred choices of the industry. Stored hydrogen can be converted to electricity using fuel cells.

Burckhardt Compression offers a variety of oil-free hydrogen compression solutions for high-pressure energy storage, hydrogen pipeline feed and liquefaction.

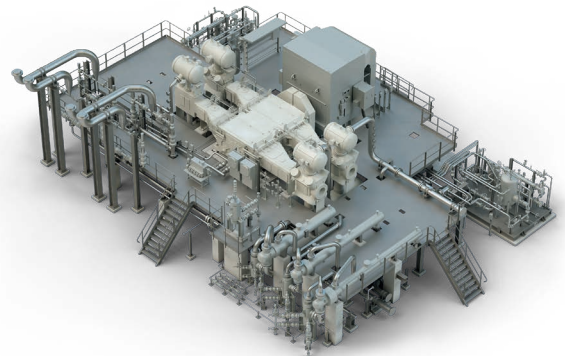
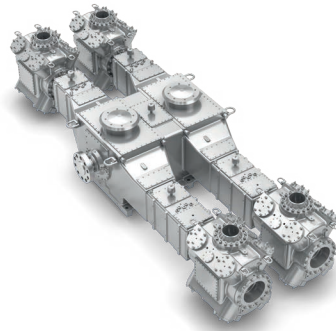
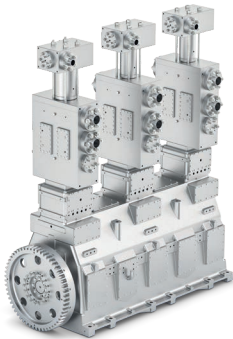
### CUSTOMER BENEFITS

- Well-proven standard hydrogen compressors at high pressures up to 550 bar
- Oil-free high-pressure compression to meet the highest hydrogen purity
- Reciprocating piston compressors for the highest efficiency
- Redura® rings & packings for a longer lifetime and minimized maintenance costs
- Small footprint
- Lowest TCO (Total Cost of Ownership)
- Bare compressors and skidded solutions
- Full range of after-sales services
- Global network of local service centers

Compressors for a Lifetime™

# OIL-FREE HIGH-PRESSURE PISTON COMPRESSORS

## COMPRESSOR DESIGNS



## TECHNICAL DATA

Type	Max. Speed rpm	Rated Power kW / hp	Max. Rod Load kN / lbs	Width mm / in	Height mm / in	Length mm / in	Cranks
BY/CY*	850	800 / 1'000	100 / 22'500	4'400 / 173	1'100 / 43	900 / 35 1'500 / 59	2 4
BF	600	2'200 / 3'000	145 / 32'500	6'700 / 264	1'400 / 55	1'560 / 61 2'300 / 91	2 4
BS/CS*	600	2'400 / 3'200	200 / 44'500	5'600 / 220	1'200 / 47	1'000 / 40 2'150 / 84 3'350 / 131	2 4 6
BX	520	5'400 / 7'200	350 / 79'000	7'750 / 305	1'390 / 54	890 / 35 2'150 / 84 3'390 / 133	2 4 6
BA	500	9'500 / 12'700	550 / 124'000	8'000 / 314	1'390 / 54	1'000 / 40 2'800 / 110 4'600 / 181 6'400 / 251	2 4 6 8
BC**	450	16'000 / 21'700	900 / 200'000	9'500 / 374	1'600 / 63	1'500 / 59 3'500 / 138 5'500 / 216 7'500 / 295	2 4 6 8
BE**	429	31'000 / 42'100	1'700 / 382'000	11'500 / 453	1'900 / 75	1'800 / 70 4'000 / 158 6'200 / 244 8'800 / 347	2 4 6 8

\* Available as vertical 1, 2, 3 and 4 crank compressors. CY 210 bar a max. pressure. \*\* Lubricated cylinders with oil removal system.

### Burckhardt Compression

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