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# COMPRESSION SOLUTIONS FOR HYDROGEN MOBILITY & ENERGY

OCTOBER 2024



H<sub>2</sub> COMPRESSOR STATION

HYDROGEN

HYDROGEN



# Our purpose

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Our Purpose

**We create leading compression solutions  
for a sustainable energy future**



# Pioneer Solution Provider - Compressing Industrial Hydrogen for More than 50 Years

Engineering workshop founded in Basel



1844

Safe compression of oxygen in the steel industry



1935

Liquefaction and transport of natural gas



1971

1999

2002

H<sub>2</sub> Pipeline Injection



2008

Use of LNG as fuel for maritime carriers



2013

Bulk LH<sub>2</sub> Compressor



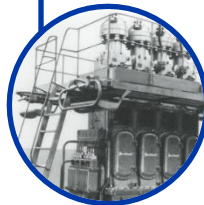
2019

1920



Production of fertilizers

1951



Production of plastics

1969

1972



H<sub>2</sub> compressors for refineries

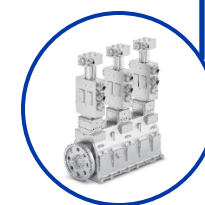
1982

2001



Oil-free hydrogen compression for bottle filling

2020



H<sub>2</sub> Trailer filling & fuel stations

2021



550 bar oil-free for H<sub>2</sub>

# We Offer Compression Solutions for all Key Applications in Hydrogen Mobility & Energy

## PRODUCTION

## CONVERSION, TRANSPORT AND STORAGE

## USAGE

H<sub>2</sub>

Green  
(electrolyser)

H<sub>2</sub>

Purple  
(nuclear)

H<sub>2</sub>

Turquoise  
(pyrolysis)

H<sub>2</sub>

Blue  
(SMR CCS)

H<sub>2</sub>

Gray  
(SMR)

H<sub>2</sub>

White  
(Natural)



H<sub>2</sub> liquefaction LH<sub>2</sub>



H<sub>2</sub> & NG pipelines



GH<sub>2</sub> trailer filling



H<sub>2</sub> storage



H<sub>2</sub> for industry,  
synfuels, ammonia



H<sub>2</sub> fuel station

### Mobility

- Car
- Bus
- Train
- Truck
- Ship
- Airplane

### Synthetic fuels

- Ammonia (NH<sub>3</sub>)
- Methane
- Methanol

### Energy Storage

- H<sub>2</sub> Cavern

### Steel production

### Fertilizer production

### Refineries

- Hydrocracking
- Hydrotreating

### Power generation

- Fuel cells
- Gas turbines
- Steam turbines



# **Burckhardt Compression**

Compressors for a Lifetime™