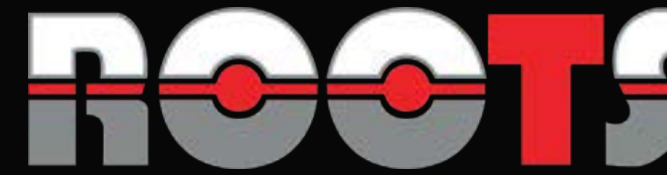


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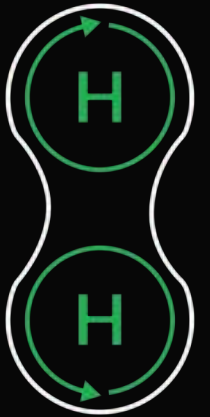
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ROTARY LOBE HYDROGEN COMPRESSORS

- OIL FREE TO PROCESS
- API 619 COMPLIANT
- UP TO 365 BAR INLET PRESSURE
- UP TO 4.5 BAR DP
- UP TO 1.5 PREESSURE RATIO (H₂)



Your plant needs Roots...



HYDROGEN

Roots Systems is the leading supplier of hydrogen blowers, having supplied many hydrogen blowers and hydrogen blower packages over the past 40 years for various applications. We can offer you a fully tailor-made solution for your hydrogen compression needs.

Our blowers are used to handle hydrogen in many manufacturing processes:



- Hydrogen can be reacted with 'captured' carbon dioxide to produce methanol, converting a waste product into a fuel.
- Hydrogen is used to cool electrical generators in the power industry. Our blowers are used to circulate this hydrogen around hydrogen-dryer circuits.
- Electrolysis of water is a method used by solar and wind farms for storing energy when energy supply exceeds demand. The 'green hydrogen' produced can be added to the natural gas supply or used as a fuel for cars.

No matter what the 'colour' of your hydrogen – black, blue, brown, green, grey, pink or turquoise - our blowers can handle it.

SUSTAINABLE ENERGY GENERATION & STORAGE

More and more energy companies around the world are seeing the benefits of Roots Systems' gas blower packages as they move towards their goal of achieving a 'net zero' carbon footprint.



ENERGY STORAGE

Methods of energy storage include electrolysis, gas compression and lithium batteries. Roots Systems is working with various licensors and contractors across the globe on applications such as these.

MECHANICAL VAPOUR RECOVERY

Mechanical vapour recovery is a process to recover waste heat. Roots Systems supplies blower packages for this purpose.

CARBON CAPTURE

Roots Systems has supplied various blower packages for carbon dioxide. Hydrogen can be reacted with 'captured' carbon dioxide to produce methanol, converting a waste product into a fuel.

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