hyworx
ELECTROLYZER STACKS

hyworx Electrolyzer Stacks
for generating green hydrogen



Think smart –
build compact

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The global energy transition requires new, innovative solutions. Green hydrogen, obtained from renewable energies, is one of the key technologies for decarbonizing industry and mobility.

High-power-density PEM electrolysis stacks for building compact electrolyzers

Powerful for high demands
Thanks to new patent-pending components and innovative technology, we are developing stacks with a rated stack power of 4.5 MW that meet the high demands of industry.

Scalable & cost-effective power
hyworx electrolyzer stacks are designed for modular, customizable hydrogen production.
Our individually expandable solution grows with your requirements.

Easy to maintain in a few minutes
Innovative technology for effortless maintenance in just a few minutes. High cost savings through component refurbishment to give them second life.

The goal of our stack development up to 4.5 MW



hyworx Electrolyzer Stacks of the XL Series



for large industrial hydrogen production plants in the multi-megawatt range

Rated stack power 4.5 MW

Footprint 76 cm x 87 cm
(excluding connections)

Footprint 135 cm x 110 cm
(including connections)

Weight approx. 2.8 t

H_2 flow rate up to 87 kg/h

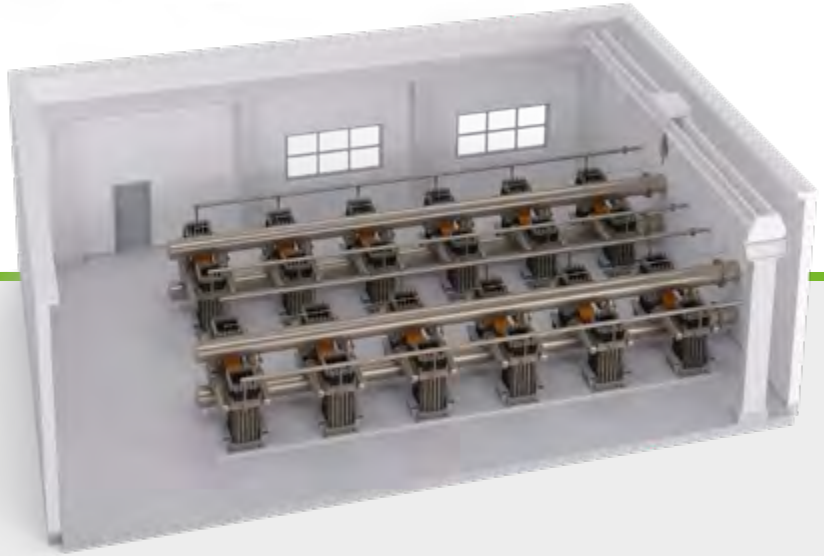
Specific energy consumption < 52 kWh/kg H_2

H_2 pressure > 34 bar

Compliance/Certification ISO 22734, EN 13445, CE

Planned SOP 2028
(SOP: start of production)

GOAL XL



Example

24 x XL Stack = 108 MW

Footprint: approx. 8.1 m x 13.1 m

hyworx Electrolyzer Stacks of the L Series



for containerized hydrogen production plants on a megawatt scale

Rated stack power 2.5 MW

Footprint 58 cm x 66 cm
(excluding connections)

Footprint: 100 cm x 90 cm
(including connections)

Weight approx. 1.8 t

H_2 flow rate up to 48 kg/h

Specific energy consumption < 52 kWh/kg H_2

H_2 pressure > 34 bar

Compliance/Certification ISO 22734, EN 13445, CE

Planned SOP 2028
(SOP: start of production)

GOAL



Example

2 x L Stack = 5 MW

Footprint: approx. 1.2 m x 2.3 m

hyworx Electrolyzer Stacks of the S Series

hyworx ELECTROLYZER STACKS

OVER 35 YEARS of experience in hydrogen

for local, decentralized hydrogen production in small spaces



Rated stack power 12 to 130 kW
(depending on the number of cells installed)

Footprint 42.5 cm x 33.8 cm
(excluding connections)

Footprint: 47.8 cm x 52 cm
(including connections)

Weight 170 kg

H_2 flow rate up to 2.3 kg/h

Specific energy consumption < 56 kWh/kg H_2

H_2 pressure > 34 bar

Compliance/Certification ISO 22734, EN 13445, CE

Planned SOP 2027
(SOP: start of production)

Please note that all technical specifications and the planned production start date reflect the current state of development and represent our current goals. We reserve the right to make changes.



Example

1 x S Stack = 12 to 130 kW

Footprint: approx. 47.8 cm x 52 cm

www.hyworx.de

hyworx
ELECTROLYZER STACKS

Seeking partners for growth

Private investors can receive a venture capital grant from the German BAFA.

Investment in the future

Think big - join us - we want to grow! To that end, we are looking for partners with experience in the serial production of complex assemblies, as well as interested investors.

Demand for green hydrogen is growing. By partnering with or investing in hyworx, you secure a stake in one of the most promising markets of the 21st century.



DIPL.-ING. (FH)

STEFAN HÖLLER

- CEO and CTO
- Over 60 patents and patent applications in the fields of electrolysis and fuel cells are based on his inventions
- Founded hyworx GmbH in 2024
- Founded Hoeller Electrolyzer GmbH in 2016
- Founded H-TEC Wasserstoff-Energie-Systeme GmbH in 1997
- Hydrogen pioneer since 1991
- Studied physical engineering at Lübeck University of Applied Sciences



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