

HYCCO UNVEILS INNOVATIVE TESTING PLATFORM TO ACCELERATE HYDROGEN FUEL CELL DEVELOPMENT

Paris, France - HYCCO, a manufacturer of next-generation carbon fiber bipolar plates, has launched a groundbreaking 60kW testing platform set to revolutionize hydrogen fuel cell development for heavy mobility applications. This innovation positions HYCCO as a key enabler in the rapidly evolving hydrogen market, addressing critical industry challenges and paving the way for more efficient, sustainable transportation solutions.

Romain Di Costanzo, CEO of Hycco, explains, "*We recognized the challenges our customers face when integrating cutting-edge technology. Our goal was to provide a solution that reduces the inherent risks and uncertainties in this process.*"

In just six months, HYCCO's team designed, simulated, and manufactured a fully operational 200cm² LT-PEMFC stack, showcasing the company's commitment to innovation and deep understanding of industry needs.

Benefits of the testing platform:

- Allows evaluation of HYCCO's carbon fiber bipolar plates in real-world conditions,
- Reduces development costs and time-to-market,
- Enables accurate prediction of real-world performance,
- Aids in selecting the right technology partners.

"*This platform is not just about testing; it's about empowering our partners to make informed choices and accelerate their journey towards sustainable energy solutions,*" Di Costanzo adds."

The testing platform complements HYCCO's advanced carbon fiber bipolar plates, known for their superior electrical conductivity, mechanical strength, and temperature resistance. These properties make them ideal for various electrochemical applications, including low and high-temperature PEM fuel cells.

Hycco will showcase this technology at Hyvolution 2025 in Paris, January 28-30, 2025.

For more information, visit www.hycco.fr or contact ludovic.barbes@hycco.fr to meet at HYVOLUTION 2025 on Booth 4K31B.

To download the product information: [Resources/Documentation](#)



HYCCO
BIPOLAR PLATES

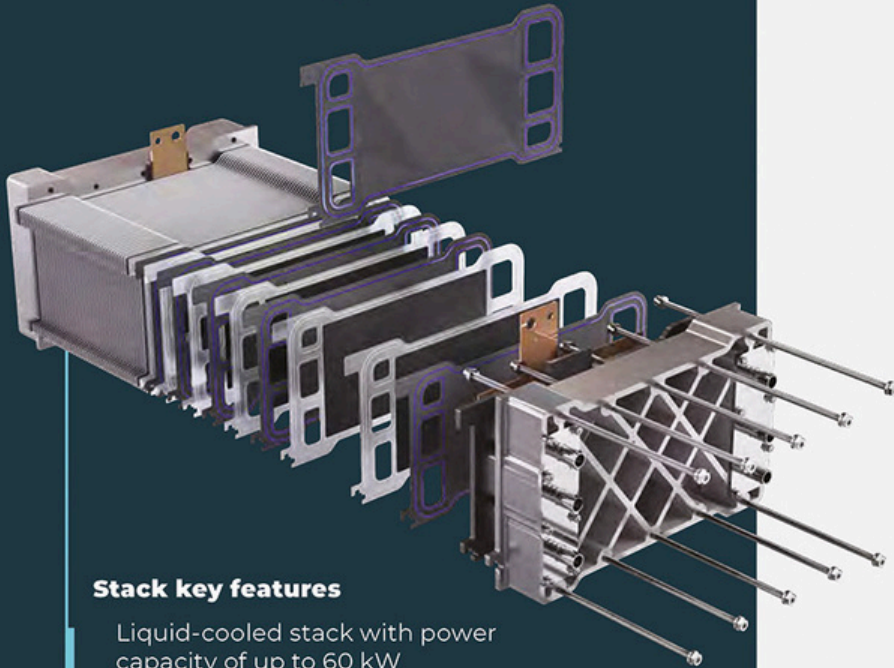
The most compact, durable,
lightweight, scalable bipolar
plates available on the market.

NEXT GENERATION CARBON FIBER BIPOLAR PLATES

*Evaluate our technology in a
representative environment*



**Accelerate your development
cycle with advanced full-size
stack testing platform**



Stack key features

- Liquid-cooled stack with power capacity of up to 60 kW
- 200 cm² active area
- LT200+ material with a consistent 200 µm web thickness
- Headers for 300-Cell configuration
- External datum centering
- Cell voltage monitoring included
- Stack fixture & MEAs on demand

Integrating HYCCO's technology: from design to production

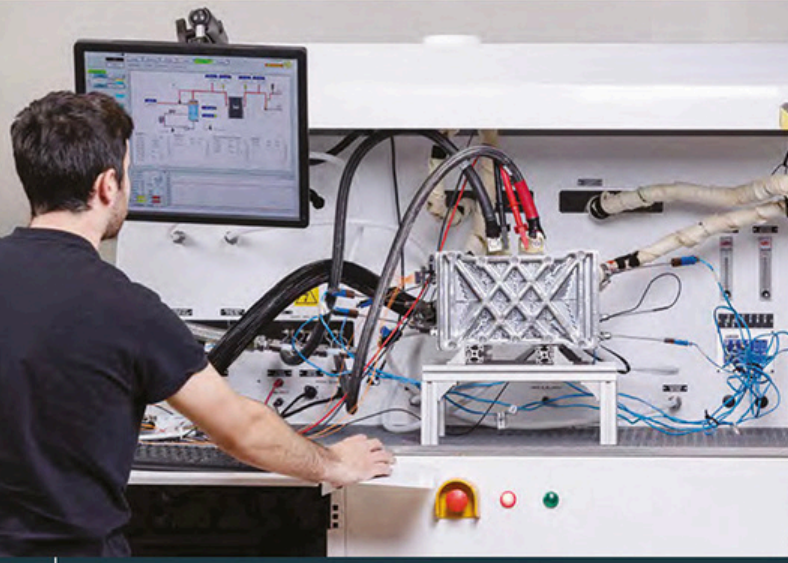
- Material Formulation:**
Tailored composites
- Plate Design & Prototyping:**
Guidance and rapid iteration
- Manufacturing:**
All production tools are supported
- Assembly & Sealing:**
Plug-and-Play solutions
- Quality Control:**
100% plates are tested and qualified
- Production Scaling:**
Flexible capacity growth

Custom co-development

- We collaborate to integrate our technology into your systems. Our team co-develops custom-designed full-scale stacks tailored to your performance requirements.
- Through collaborative engineering, we ensure optimized designs that align with your goals.
- Leveraging our expertise in material forming, we support you from prototyping to industrialization, ensuring efficient production of bipolar plates tailored to your specific electrochemical requirements.



HYCCO's comprehensive testing environment



Challenges in evaluating a new technology

Time and Capital:

Significant investment required

Complex Impact:

Outcomes are difficult to predict

Crucial Decisions:

Supplier selection shapes long-term development

Our solution: advanced testing platform

Cost-Effective:

Minimize development costs

Time-Efficient:

Accelerate time-to-market

Informed Choices:

Make data-driven choices for suppliers and technology

Risk Mitigation:

Minimize adoption uncertainties

More specifications

External dimensions: 320x310x560 mm

Target power density: 4kW/kg

Operating pressure: 2.5 bars

BPP thickness: 1.1mm

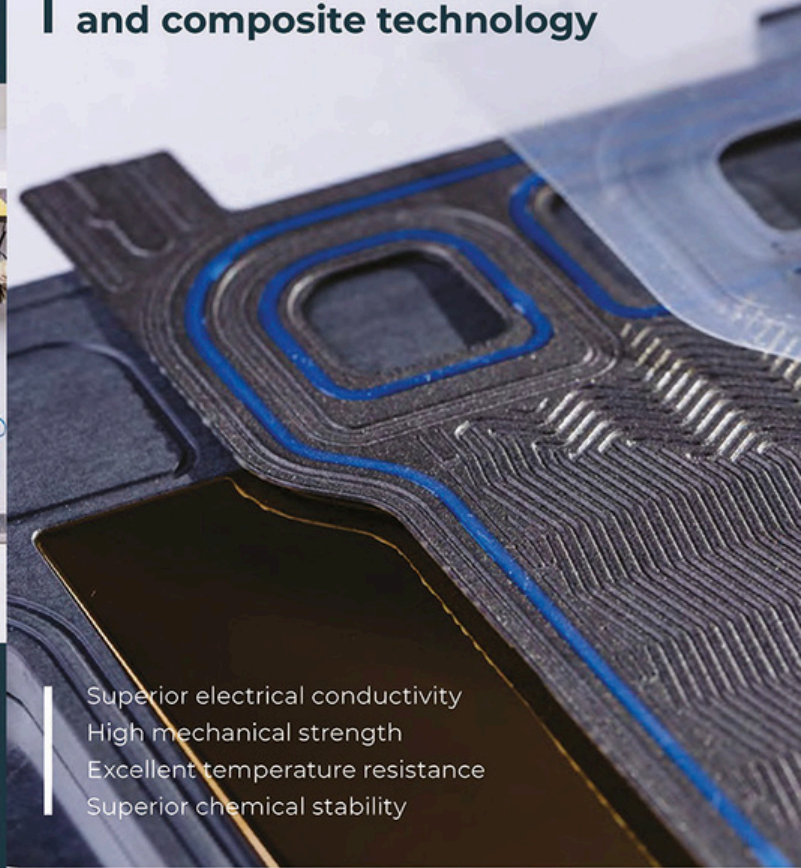
Cell pitch: 1.495 mm

Airflow: Co-flow

Hydrogen flow: Counterflow

Nominal operating point: 2A/cm² at 0.6V

HYCCO's material : The perfect blend of metallic and composite technology



- Superior electrical conductivity
- High mechanical strength
- Excellent temperature resistance
- Superior chemical stability

Distinctive carbon properties and tailored solutions for a wide range of electrochemical applications :

HT400+
400µm

HT200+
200µm

LT200+
200µm

Application compatibility

Low Temp. PEMFC



High Temp. PEMFC



REDOX flow batteries



PEM Electrolyzer



Scan to access our material data sheets

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TOGETHER,
EMPOWERING
THE FUTURE



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