HYCCO
BIPOLAR PLATES

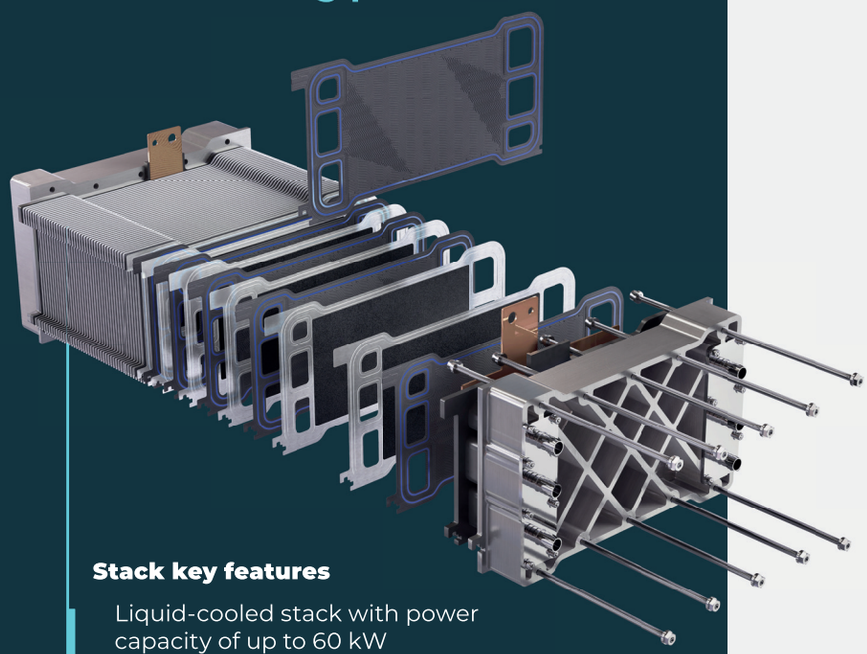
The most compact, durable, lightweight, scalable bipolar plates available on the market.

NEXT GENERATION CARBON FIBER BIPOLAR PLATES

Evaluate our technology in a representative environment

FRANCE 2030

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

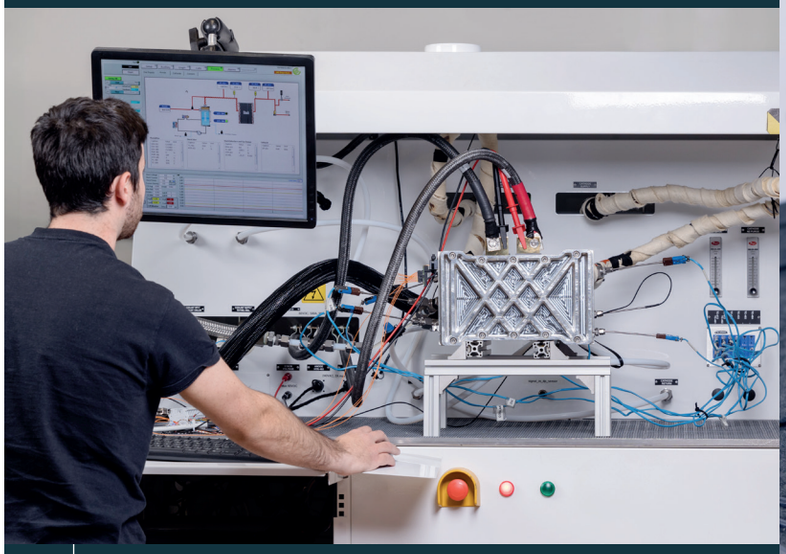
Custom co-development

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

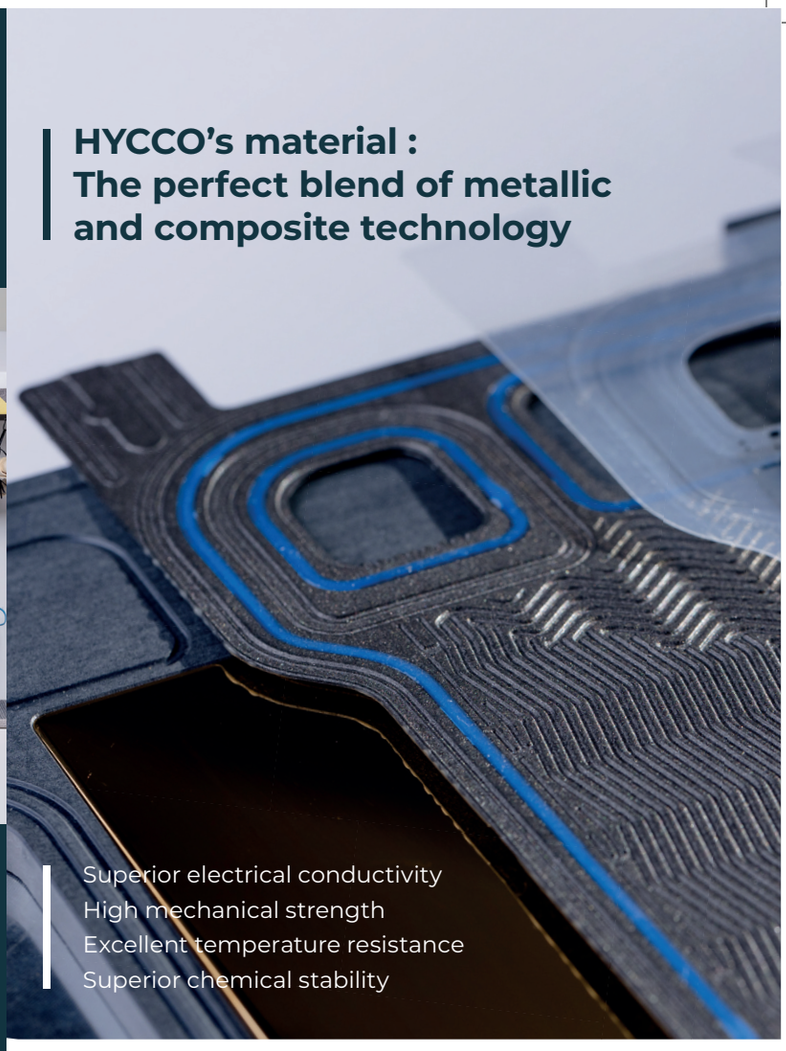
Informed Choices:
Make data-driven choices for suppliers and technology

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

Headquarters:
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TOGETHER, EMPOWERING THE FUTURE

HYCCO BIPOLAR PLATES

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