



ONLINE MEASUREMENT  
AND CONTROL

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# A HYDROGEN FUTURE FOR A NET ZERO WORLD

Hydrogen fuel cell measurement solution





SCANTECH

## FRANCE HEADQUARTERS

Founded in 1992, SCANTECH was first to introduce low-energy X-ray transmission technology for the measurement of lightweight materials. Today, over 1,000 scanners are installed annually around the world for many types of production lines, including all types of extruded films, non-woven fibers, lamination and coatings processes, and metals.

SCANTECH continues to lead the world-wide market for X-ray, laser, infrared, and microwave online measurement and control systems, as well as visual inspection tools thanks to our focus on innovation. We are dedicated to expanding and perfecting our offer to include groundbreaking technology, incorporating laser triangulation, ergonomic UI, and automatic calibration.

SCANTECH is headquartered in France, with fully-owned subsidiaries in China (Guangzhou), the USA, Germany, Italy, South Korea, India, Malaysia, and Taiwan. All core components, such as sensors and

electronic circuit boards, are designed in France and the entire production process is supervised by French professional and technical personnel.

To ensure product quality and customer satisfaction, each subsidiary provides comprehensive customer support, and installation and maintenance services locally. With multiple assembly centers around the world, SCANTECH can supply the same high-quality products to domestic customers, and provide timely service and a complete stock of spare parts.

Each center is in full accordance with the quality standards of SCANTECH's production plant in France.

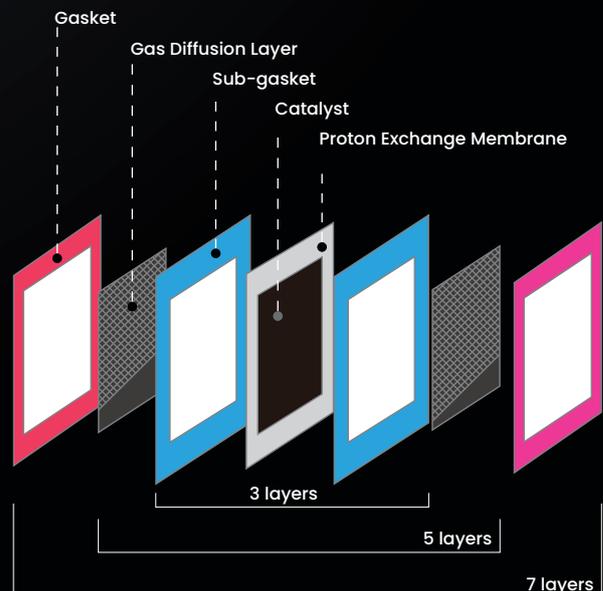


The global hydrogen energy industry has developed rapidly in recent years, due to the global climate changing, energy supply, efficiency, and so on.

The durable, anti-corrosive and heat resistant proton exchange membrane (PEM) plays a key role in ensuring the high-standard performance of fuel cells by coating them with platinum or gold, combined with graphite or carbon material. However, the cost is between 40 and 50 euros per gram and at least 4 grams of platinum are needed for 1 square meter of membrane. This means 1m<sup>2</sup> of manufactured membrane costs at least 200 euros. Obviously, measuring the platinum weight separately is the key to controlling product quality.

SCANTECH has developed a comprehensive X-ray thickness/weight solution to measure catalyst weight for the hydrogen fuel cell market. Additionally, by measuring the platinum separately using proprietary X-ray measurement technology that has evolved over the last thirty years, SCANTECH is now contributing to the development of the global hydrogen energy industry.

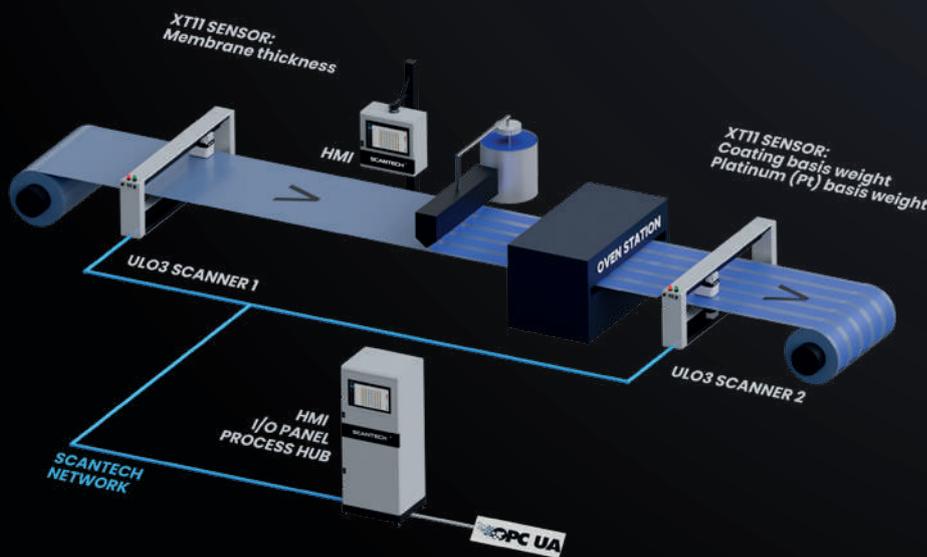
### Membrane Electrode Assembly (MEA)



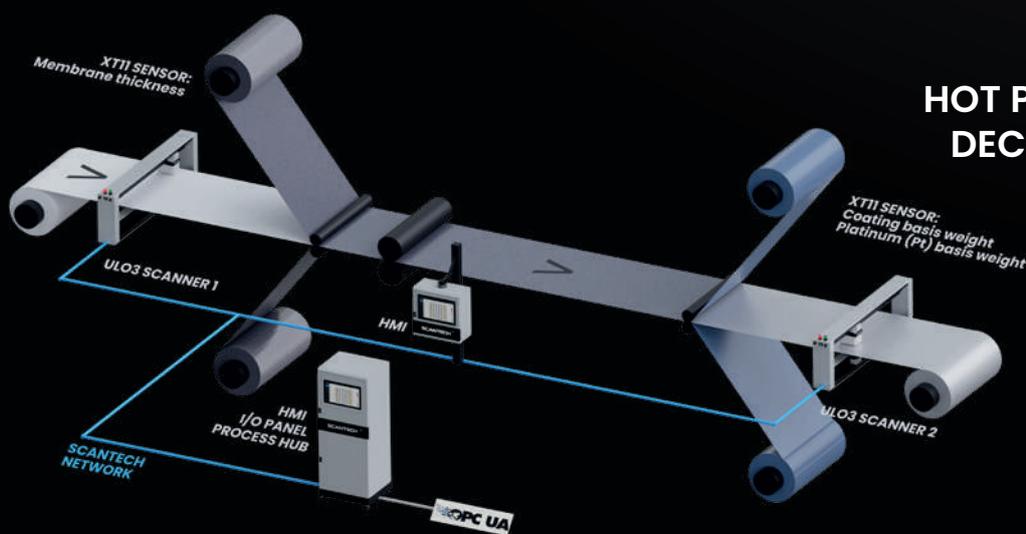
X-RAY ONLINE MEASUREMENT SOLUTION FOR  
**CATALYST COATED MEMBRANES**

Developed for hydrogen fuel cell market

**STEP 1:**  
**COATING DECAL**  
**AND DRYING**

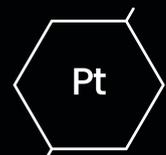


**STEP 2:**  
**HOT PRESSING AND**  
**DECAL REMOVING**



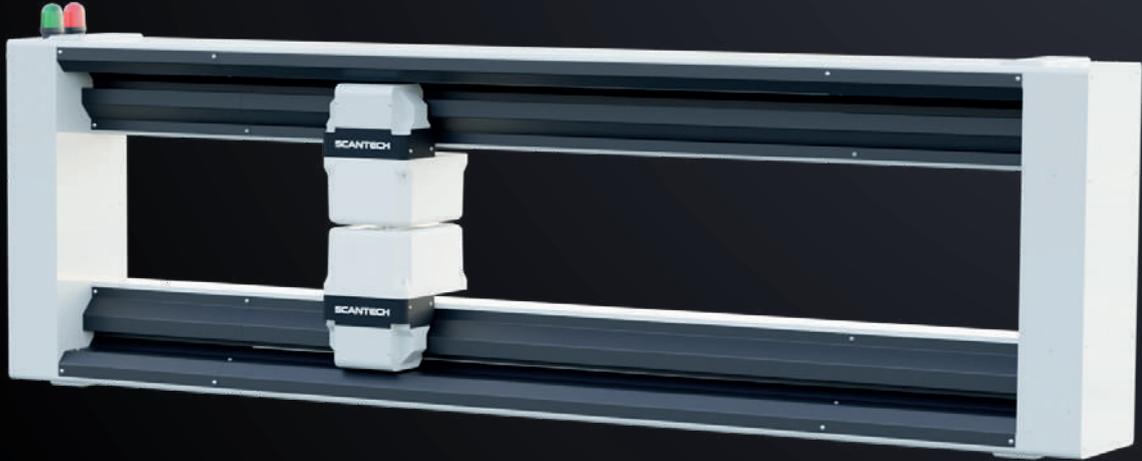
**PLATINUM MEASUREMENT**

A specific method for measuring platinum separately is the key to controlling product quality.



# ULO3

A combination of measurement solutions



## MEASUREMENTS



Thickness



Basis Weight



Platinum Pt

AVAILABLE WIDTHS: 500MM TO 3500MM

**FX FLEXSCAN**

Interactive graphical representation



INDUSTRY 4.0

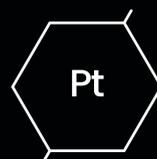
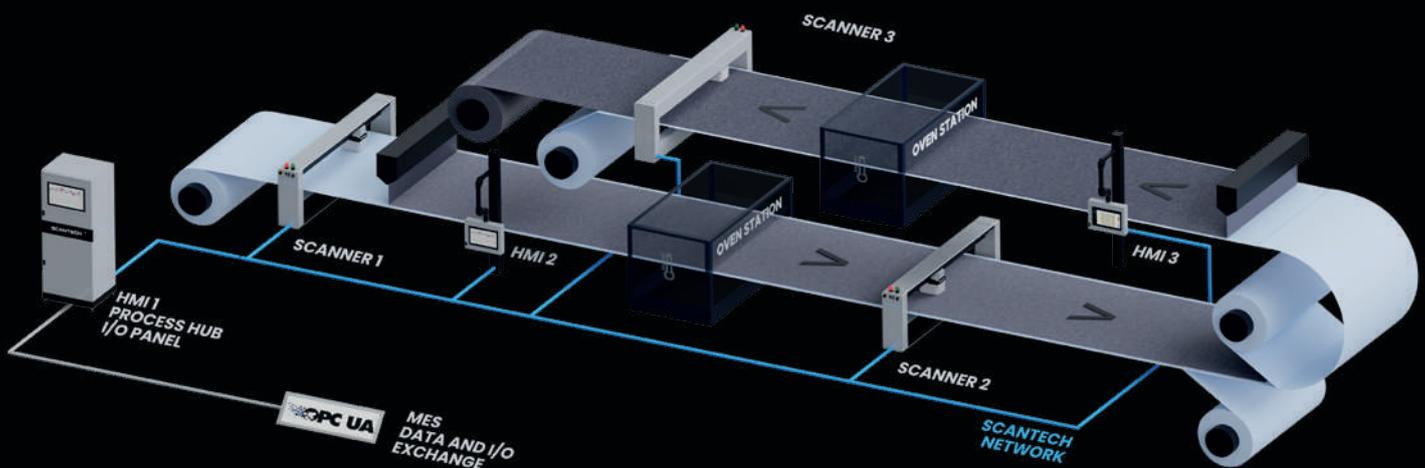
OPC UA

For more information please visit [www.scantech.com](http://www.scantech.com)

X-RAY ONLINE MEASUREMENT SOLUTION FOR  
**CATALYST COATED MEMBRANES**

Developed for hydrogen fuel cell market

**CCM DIRECT COATING**



**PLATINUM MEASUREMENT**

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is the key to controlling product quality.

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## MEASUREMENTS



Thickness



Basis Weight



Platinum Pt

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Interactive graphical representation





A WORLDWIDE GROUP



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