



## MEASUREMENT EQUIPMENT & TEST SERVICES

### OUR KEY COMPETENCIES

- Catalyst Operational Window Screening Stations
- Dedicated Gas Analysis Stations
- Materials Deterioration Testing
- Endurance Testing of Catalysts and Components
- Prototype Testing and Evaluation
- Labview, Step-7 PLC and HP-Vee Controls Development

# MEASUREMENT EQUIPMENT & TEST SERVICES

HyGear designs and builds measurement equipment and provides test services for the development of various chemical processes. Our equipment is designed to analyze individual chemical processes but can be combined to integrated test benches for chemical systems.

## APPLICABLE WHERE NEEDED

HyGear offers standardized catalyst characterization systems for laboratory scale experiments. These systems are usually applied for catalyst screening, potentially as a function of time. For specific situations, dedicated modules can be supplied to study the influence of different (hazardous) components on the catalyst performance. Besides this, HyGear can offer dedicated gas analysis equipment suited for in line measurements in laboratory or plant operations.

When customers have specific needs for individual projects, HyGear offers measurement services as well.

The advantage is that the customers do not need to invest in the equipment and utilizes HyGear's extensive knowledge in testing and data interpretation.

## OUR WORKFORCE

With HyGear, you also benefit from our workforce's unique skills in Pilot Plants Design and Chemical Engineering Services. With these skills, we can translate test data to practical situations and suggest adaptations in components, catalysts or process chemistry in order to optimize plant performance.

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# ENGINEERING FOR SUSTAINABLE GROWTH

With the growing global need for energy efficiency and sustainability, industries are improving chemical processes, optimizing supply chains and searching for new and sustainable fuels. HyGear is a Dutch company with unique competencies in miniaturization of chemical processes and gas streams.

We are devoted to delivering systems that are ready-to-use in renewable energy applications or chemical processes. HyGear develops, builds and tests compact, standardized hydrogen generators, as well as biogas upgrading systems, gas to liquid solutions and fuel cells.

## TANGIBLE BENEFITS

Our expertise also spans a broad range of chemical engineering services. From dedicated assistance in process development up to designing and building turnkey pilot and demonstration plants for customers in the oil, gas and chemical industries.

HyGear's range of systems and services delivers its customers tangible benefits in costs, security and practical usability. We offer industries the opportunity to reduce their time to market while at the same time helping them to take a well-tested step to full-scale production.