

HYDROGEN-STORAGE-EXPERTS

VAKO

**SAFE HYDROGEN STORAGE VESSELS
AND HIGH-PRESSURE VESSELS
– MADE IN GERMANY.**

Sustainable storage solutions for industry, research, electrolysis, airports, gas stations, and the energy transition. Uncompromising quality, precision, and safety in vessel manufacturing – backed by a 40-year track record.

vako.net

VAKO – MANUFACTURER OF HYDROGEN STORAGE VESSELS AND HIGH-PRESSURE VESSELS

Vision, experience, and reliability.

VAKO stands for quality, safety and expertise in vessel construction since 1968. Today, around 60 specialists in Kreuztal, Germany, develop customized hydrogen and high-pressure storage systems that are used worldwide in industry, research, and green energy projects. As a family-owned company, we combine tradition, technical expertise, and innovative strength with prompt reactions and a sense of active responsibility towards our customers, partners, employees and environment.

End-to-end solutions from a single source:

We handle all our processes ourselves – from design and manufacturing to surface

finish. This integration ensures flexibility, precision, and reliability.

VAKO can provide the right solution for any need – from standardized serially produced pressure vessels to custom specialty solutions.

Our VAKO testing concept for recurrent testing – safe, efficient, economical:

- **Safety:** external inspections – without hydrogen loss or operational downtime
- **Cost effectiveness:** up to 80% lower inspection costs
- **Availability:** maximum running time and predictable maintenance



PRESSURE VESSEL MANUFACTURING – PRECISION DOWN TO THE LAST DETAIL

Robust. Flexible. Proven.

We develop and manufacture pressure vessels for hydrogen and other technical gases and demanding industrial applications:

- Standard sizes or custom designs
- Pressure vessels up to 330 bar, Ø 4,500 mm, 45 m length, 100 metric tons
- Reactors, columns, PSA adsorbers
- Modern in-house production
- High-quality welds, full scope NDT in supplementing examination methods, optional PWHT, complete documentation of all steps

Maximum safety:

- Certified type 1 pressure vessels to the highest international standards
- Certified acc. to AD-2000, EN 13445, ASME VIII, PED 2014/68/EU



STANDARD-SIZES WITH DESIGN
PRESSURE UP TO
50 BAR

50 BAR	200 BAR
33 m ³ 50 m ³ 75 m ³ 95 m ³	12,5 m ³ 31,4 m ³
115 m ³ 165 m ³ 190 m ³	21,9 m ³ 41,9 m ³

ANY INDIVIDUAL SIZE UPON YOUR DEMAND.
Up to 330 bar and temperatures down to -50°C
are possible.

STORAGE SOLUTIONS FOR A SAFE ENERGY TRANSITION.



GREEN ENERGY WITH VAKO

The energy transition needs partners who combine technology, experience, and reliability. With over 40 years of expertise in pressure vessel construction and hydrogen storage, VAKO is familiar with requirements for industry, research, and funding projects.

We offer tested, certified storage solutions as well as transparent processes, quick response times, and clear documentation.

That provides certainty, meets regulatory requirements, and saves costs at the same time.

Your advantage: a partner who reduces complexity and reliably guides your project to completion.

VAKO makes green energy a dependable source – safely, efficiently, and sustainably.

SURFACE TREATMENT AND CORROSION PROTECTION FOR PRESSURE VESSELS

Made for rough conditions and lasting performance.

Our surface treatment technology keeps your pressure vessels working reliably:

- Interior and exterior coatings that meet industry standards
- Custom corrosion protection
- Special coatings for extreme conditions
- Documented quality for maximum service life

We can coat complex items efficiently and precisely after blasting in our enclosed blastroom. Also available as a standalone service for your project.

VAKO



QUALITY AND SUSTAINABILITY – CERTIFIED SAFETY

- International standards and documented inspection procedures
- Sustainable, efficient solutions for the future of energy



**MORE SAFETY. MORE EFFICIENCY.
MORE FUTURE – WITH VAKO.**



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