

**BAEST Machines &
Structures a.s.**



TANKS FOR STORAGE OF HYDROGEN

volume 5 ÷ 100 m³

MANUFACTURING AND SUPPLY OF TANKS FOR STORAGE OF GASEOUS HYDROGEN

We offer:

- Preferred dimension of tanks for storage of Hydrogen in volume range from 5 to 100 m³ per tank, with recommended pressure from 10 to 60 bar.
- Detailed specification of tanks adapted to your requirements.
- Manufacturing and supply of tanks for storage of Hydrogen on the European market, especially in Germany, and outside EU too.
- More than 20 years of experience in production of pressure vessels and tanks incl. the technology, design and technical drawings and documentation, approval of manufacturing documentation and acceptance by TÜV or/and inspection body, vessel production supervision, NDT processes, transport and commissioning of the tanks into construction site.
- Quality documentation and vessel passports.
- Manufacturing experience of pressure vessels, especially accumulation tanks for energy cogeneration units (water-steam) incl. all manufacturing procedures, certification, weld inspection, WPQR, test methods etc.
- Competence and skills to successfully production of tanks for storage of gaseous Hydrogen.



Petrochemical/
Oil & Gas



Building



Energy/
Environment



Engineering/
Automotive



Heavy
Industry

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www.baest.cz



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TECHNICAL DATA OF TANKS FOR STORAGE OF HYDROGEN

Technical data a parameters:

Medium:	gaseous hydrogen
Performance:	welded; stationary; above ground; horizontal; vertical after approval; single-walled
Recommended tank volume:	$V = 5 \div 100 \text{ m}^3 / 1 \text{ pc of tank}$
Recommended diameter of tank:	$D = (1,5 \div 3) \text{ m}; D_{\text{recommended}} = 2\,500 \text{ mm}$
Recommended operating pressure:	$p = \text{max. } 60 \text{ bar (acc. to particular requirements)}$
Recommended operating temperature:	$T = -20^\circ\text{C} (-40^\circ\text{C}) \div + 50^\circ\text{C}$
Design/ development/ production:	EN 13445/ AD 2000/ PED 2014/68/EU
Inspection:	Independent inspection body (TÜV, acc. to particular legislative requirements in CZ, particular countries, EU and outside of EU too / acc. to particular requirements).
Flanges/ manholes/ hole plugs:	acc. to DIN 2526, DIN EN 1090-1 Standards
Recommended surface treatment:	Inside surfaces: complete blasting, without coating (paint); outside coating: blasting, basic layer 2x 60µm; outer coating thickness 1x 40µm polyurethane coat

All tank sizes and parameters incl. the performance, test methods and documentation could be modified by mutual approval and acc. customers requirements and acc. to particular legislative requirements in particular countries, EU and outside of EU too.



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