



Hydrogen Test System

Forming gas filling and draining unit

We develop testing solutions for an emission-free future

We manufacture customized leak test machinery for industrial applications. We provide design, manufacturing and service from a single source. As market leader for aluminium wheel leak testers, we want to contribute to the green energy industry with reliable testing solutions.

W. v. d. Heyde was founded in 1878 and is an owner-managed company with more than 140 years of experience in mechanical engineering. Since more than three decades we are specialized in innovative leak testing solutions. Our approach for quality, reliability and safety gives our customers a market advantage.

Von der Heyde means:
quality, reliability and safety made in Stade, Germany.

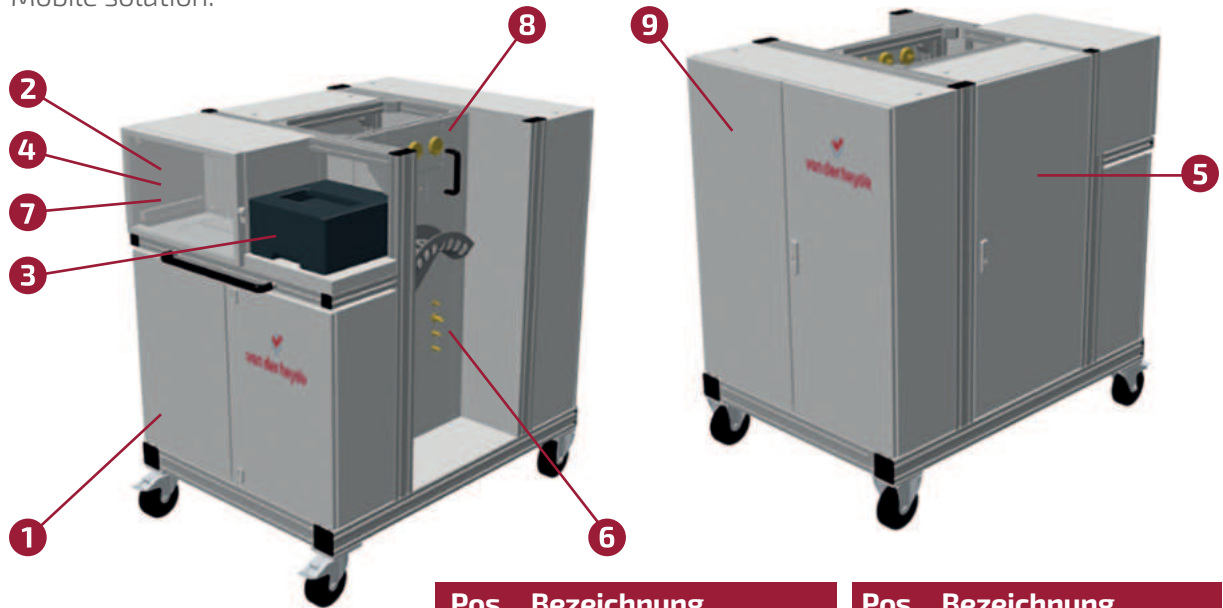
Hydrogen Test System
Forming gas (5% H₂, 95% N₂) filling and draining unit

- Test pressure: • up to 350 bar (approx. 5,000 psi), higher pressure levels on request
- Application: • filling of test objects for testing purpose, such as pressure testing, leak testing or further applications
- Scope of supply: • compressor station as complete packaged unit
 • valve cabinet with Maximator compressor and valves
 • pneumatic cabinet for valve actuation
 • power and control cabinet incl. SIMATIC S7-1500
 • barcode hand scanner, wireless
 • leak tester H₂, hand-held sniffer tip
- Utilities: • compressed air (power to compressor /pneumatic)
 • power supply (230 V/50Hz, CEE)
 • forming gas (helium, nitrogen or other gases)
- Features: • automatic test sequence with monitoring of parameters
 • freely configurable test pressure, range 2 ... 350 bar (30 ... 5,000 psi)
 • test gas supply from gas bottle, 50 l / 200 bar (2,900 psi)
 • gas bottle pressure monitoring, p_{warn} ≤ 25 bar (360 psi)
 • automatic test program selection
 • operation via tablet (HMI for configuration / visualization)
 • user login prevents unauthorized use
 • identification of test objects via QR-code
 • automatic calibration cycle for leak tester
 • service-friendly package design
 • UPS (no data loss in case of a short-term power blackout < 30 Min.)
 • interface to data storage for test parameter (OPC-UA)
- Options: • pressure hold points during filling process
 • control of pressure rise rate (bar/s)
 • leak tester for helium (or other gases)
 • full emptying gas bottle
 • automatic gas bottle switching (to 2nd gas bottle, if any)
 • piping to utility supply lines
 • printer for test report
 • change of leak test method (pressure drop measurement)
 • mobile design on wheels (transport by electric tug)
 • identification of test object via serial number, DMC or other code type
 • individual interface for data transfer (SQL, Ethernet, and other)
 • ...further options on request.



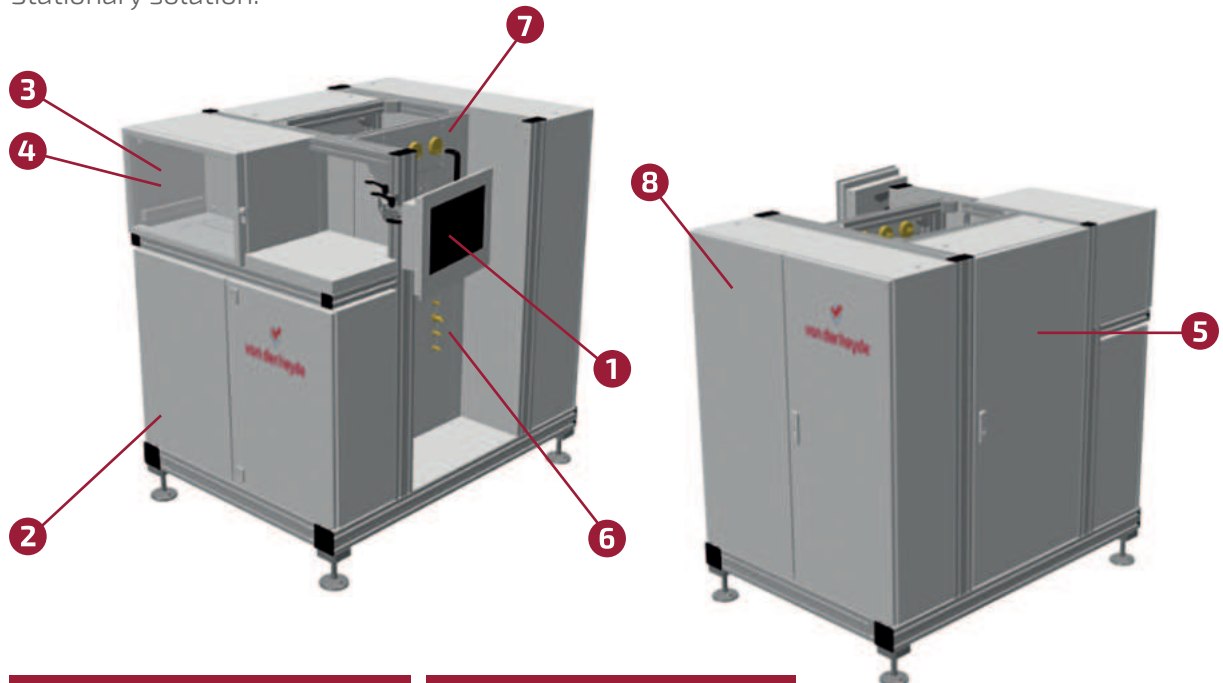
von der heyde

Mobile solution:



Pos.	Bezeichnung.	Pos.	Bezeichnung.
1	electronic cabinet	6	process connections
2	hand scanner	7	tablet, 10,1"
3	laser printer (A4 Size)	8	test leak, pressure gauges
4	leak tester H2	9	compressor (driven by compressed air)
5	pneumatic cabinet		

Stationary solution:



Pos.	Bezeichnung.	Pos.	Bezeichnung.
1	HMI, 15"	6	process connections
2	electric cabinet	7	test leak, pressure gauges
3	hand scanner	8	compressor (driven by compressed air)
4	leak tester H2		
5	pneumatic cabinet		



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