

Our Challenge: The best solution for our customers

HORIBA FuelCon offers to you:

- Advanced technology "Made in Germany"
- Innovative customer-specific products
- All from one hand – turn key solutions
- Maximum safety and industrial automotive standards according to existing directives

Test equipment for:

- PEM and SOFC cells, stacks and systems
- Electrolyzers and SOEC/rSOC
- Battery testing, emulation and 48 V on-board power supply emulation
- End-of-Line (EOL) check-up of batteries and fuel cells
- Component testing
- Electrochemical impedance spectroscopy (EIS)

Memberships



Mechanical Engineering Industry Association (VDMA)



Association for Standardisation of Automation and Measuring Systems (ASAM)

Quality Management

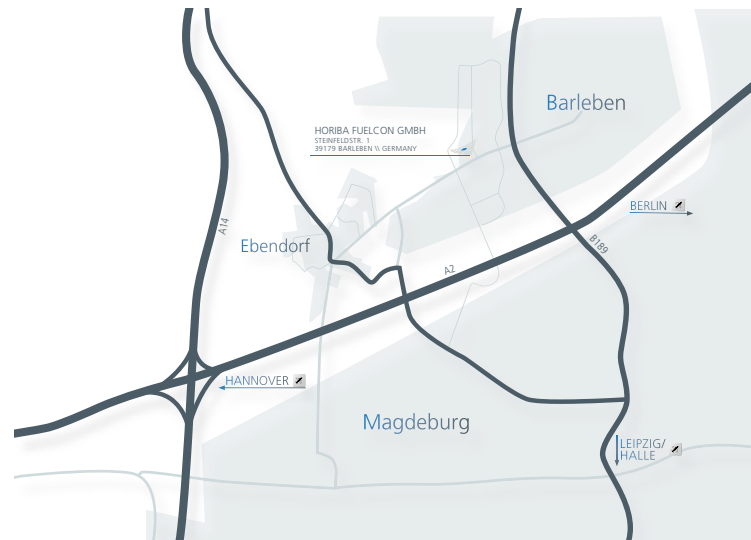
HORIBA FuelCon is certified by DIN EN ISO 9001:2015, registration number 78 100 056976-001 on March 27, 2017, TÜV NORD CERT GmbH.

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Explore the future with us

HORIBA FuelCon is a leading manufacturer of test and diagnostic equipment for fuel cells and batteries, specialized in R&D and EOL (End-of-Line) test stations as well as turnkey solutions for the E-Mobility sector. We have a deep technical know-how that is trusted by global OEMs and Tier 1s as well as international research laboratories.

HORIBA FuelCon is part of HORIBA ATS (Automotive Test Systems) and acts as center of excellence for battery and fuel cell applications within the HORIBA group.



HORIBA FuelCon GmbH

Steinfeldstraße 1
39179 Barleben

T +49 39203 514 400
F +49 39203 514 409

www.horiba-fuelcon.com
info@horiba-fuelcon.com

www.horiba.com

**Test Equipment for Fuel Cells,
Batteries and Electrolyzers**



Battery Test Stations

HORIBA FuelCon, as an experienced manufacturer of automated testing and assembling systems, provides with the Evaluator B a system fulfilling the challenging testing requirements of modern batteries and energy management systems with high accuracy and flexibility.

- E-Mobility
- Battery emulation, 48 V on-board power systems
- Battery packs and system testing

State of the art

- Power range: 1,000 V, 1,000 A, 1 MW
- Efficiency: > 96 %
- Accuracy and dynamics:
 ± 0.015 % FS, ± 0.03 % of measured value
- Grid feedback technology

Automation software TestWork

- Modern client-server-architecture
- Synchronization of customer supplied processlog database
- DBC Designer for CAN communication and remaining bus simulation

End-of-Line Test Stations

For testing requirements in battery and fuel cell productions, HORIBA FuelCon offers customer specific solutions. The complete integration into the production line is as mandatory as the worker-oriented operation via touch screen operator panel.

- End-of-Line testing
- Quality control in production lines
- Integration of additional components for product validation

Electrical tests

- Input parameter test
- BMS test
- Open circuit voltage (OCV)
- Insulation test
- Performance test
- Impedance test
- Polarization curve

Pressure and leak tests

- Cooler leakage and blockage
- Automated leakage testing

Fuel Cell & Electrolyzer Test Stations

With the product series Evaluator-LT and Evaluator-HT, we provide fuel cell test stations for PEM and SOFC technologies in a power range from a few watts up to 250+ kW fuel cell performance.

- Single cell, stack, hot-box and system testing
- PEM electrolyzer and SOEC testing
- Balance-of-Plant

Equipment features

- Advanced dynamic humidifier technologies
- Relative humidity and steam contents up to 100 %
- Gas and operation temperatures up to 1,000 °C
- Precise pressure regulation
- Accurate flow control
- Options for: EIS, CVM, GC, UPS, reformer etc.

Safety features

- Risk assessments according to ISO 12100
- Technical evaluation pursuant to ISO 13849
- Multi-level event and alarm system
- CE conformity as per the latest standards
- Compliance with ATEX directive