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Hydrogen energy test benches

Hydrogen low pressure comprehensive function test platform



Function: Test the performance of the components in the hydrogen low pressure section of the fuel cell

Test medium: hydrogen, air, nitrogen, water vapor

Function: Test the performance of the components in the hydrogen low pressure section of the fuel cell

Medium: hydrogen, air, nitrogen, water vapor

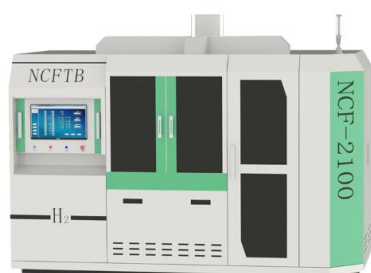
Tested products: hydrogen circulation pump, exhaust valve, drain valve, etc.

Gas temperature: 20-90°C

Gas pressure: 1-5bara

Control: Current PWM and CAN

Hydrogen medium pressure comprehensive function test platform



Function: Test the performance of the components in the hydrogen medium pressure section of the fuel cell

Test medium: hydrogen

Function: To test the performance test of the components in the hydrogen medium pressure section of the fuel cell

Medium: Hydrogen

Tested products: hydrogen injection valve, ejector, etc.

Gas temperature: 20-90°C

Gas pressure: 5-20bara

Control: Current PWM

Hydrogen durability test detection platform



Function: Test the reliability of fuel cell hydrogen components

Test medium: hydrogen, nitrogen, water vapor

Tested products: hydrogen circulation pump, hydrogen injection valve, ejector, exhaust valve, etc.

Gas temperature: -40-900°C

Gas pressure: 5-20bara

Fully automatic testing, gas recovery

Control: Current PWM and CAN

Parts automatic sealing medium pressure test and detection platform



Function: Test the sealing performance of the hydrogen medium pressure section of the fuel cell

Test medium: helium

Test products: hydrogen injection valve, ejector, etc.

Gas pressure: 5-20bara

Fully automatic testing, gas recovery

Control: Current PWM

High-pressure helium seal automatic test and detection platform for parts and components



Function: Test the sealing ability of parts such as the car-mounted hydrogen bottle valve

Test medium: helium

Test pressure: up to 140MPa

Fully automatic test, gas can be circulated

Test platform for fuel cell water separator function test



Function: Test fuel cell engine controller performance

Mock item:

Controller power-on and power-on control logic test

Jet valve, compressor, circulating pump, humidifier, fan control flow, pressure, temperature, humidity and other sensor signals to collect hydrogen flow/pressure closed-loop control tes

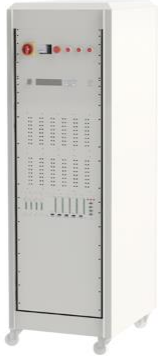
Oxygen flow/pressure closed-loop control test fuel cell output power control

Fuel cell thermal management function test

FCU control diagnosis function and IO diagnosis function test CAN communication transceiver function test

Control strategy development and verification

Fuel cell HiL test platform



Function: Test the performance of fuel cell hydrogen components

Test medium: nitrogen, hydrogen, water vapor, liquid water

Test Product: Water Vapor Separator

Gas pressure: 5-20bara

Control: Current PWM

Low temperature cryogenic test platform



Function: Low temperature experimental platform for core components of fuel cell industry chain and hydrogen energy industry chain

Test medium: liquid hydrogen, liquid helium, liquid nitrogen

Test medium: liquid hydrogen, liquid helium, liquid nitrogen

Low temperature: -268°C

Cryogenic liquids can be automatically cycled for testing

Environmental Laboratory



Environmental laboratory, mainly including two-box dynamic shock chamber, salt spray test chamber, etc. for reliability testing and product screening

Main parameters of dynamic shock box:

Temperature range: -70°C ~ 150°C

Temperature accuracy: 0.5°C

Humidity range: 20%RH-98%RH

Salt spray test chamber test method:

Salt water test method

Corrosion resistance test method

Salt spray control system

Vibration Lab & EMC Lab



Technical parameters of vibration test platform:

Frequency modulation range (Hz): 5-2000

Sweep frequency range (Hz): 5-2000

Vibration control mode: closed loop control

Allowed modes: fixed frequency mode, frequency sweep mode, multi-segment mode

Operation mode: touch screen control + computer software control

Electromagnetic Compatibility EMC Laboratory:

A Automotive electronic immunity test system

B Electrostatic discharge test

C Automotive electronic transient emission system

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