

HARDWARE IN THE LOOP (HiL) TESTSTAND

State-of-the-Art HiL-Testing

These days, a modern HiL-test stack is more than just a few hardware drivers or simulation components programmed and operated by the developers. In HiL by Software Quality Lab all modern test technology is combined with a modular and flexible structure of the control and software components used:

Your Benefit

Image of the entire test stack

Layer 6: Test stack management

Layer 5: Specification

Layer 4: Test case abstraction layer

Layer 3: Test automation

Layer 2: Hardware abstraction

Layer 1: Hardware driver

Layer 0: Concrete hardware

Functions for different users

Test managers, system-/specialist testers, test automation specialists, control developers, heads of development, IT/Infrastructure managers, production managers

Flexible interfaces to the existing tool landscape

i.e. test management, test data bank, automation, SW- development, workflow-system, version management, etc.

Time saving, fast structure of HiL-tests

Pre-configured solutions possible, short start-up and integration times

More efficiency in testing

Generators for faster preparation of test cases

Cost saving

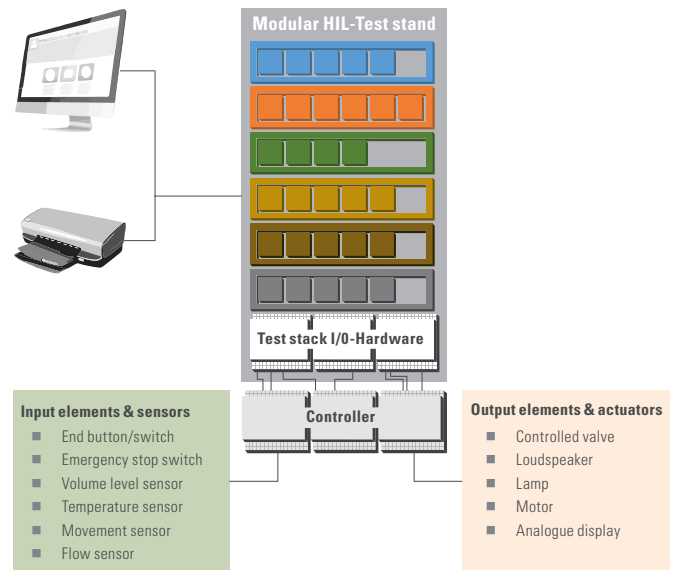
Significantly lower costs compared to in-house development

Latest technology and methods

ISTQB-test methods, upon request support in MBT, BDD, TDD, agile testing, state-of-the-art tools, etc.

Flexibility in configuration

The individual modules are exchangeable and can easily be integrated into your own tool landscape, different HW building blocks can be connected.



Services

State-of-the-art test tools and technology integrated

User-friendly and powerful tools for test management, specification, automation, etc.

Support in the preparation of test cases

Depiction of modern test methods, specification of tests, support by generation of test cases on a model-based specification

Support in all topics in the HiL-test

- Test planning, reporting and workflow control
- Test implementation and test automation
- Modelling and simulation
- System-, integration- and unit tests
- Test metrics and dashboards
- Interfaces to other tools
- etc.

Conception and implementation of the entire HiL- test stack

Tool analysis and integration of in-house tools

Support during start-up of HiL-systems

Outsourced operation of HiL-test systems