

TestMaster® Test Bench Software

Modular and configurable integration platform

Automation, efficiency, and future-proofing in testing technology

- Easy operation and test control
- Flow control & sequence editor for flow automation
- Test data management & process data management
- Hardware abstraction
- Data visualization, storage, and distribution




future-proof

configurable

open

Practical Oriented

flexible

robust

innovative

user-friendly

scalable

modular

hardware-independent

integratable

expandable

efficient

Practical Oriented

For industrial test systems, from development to production.

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for more

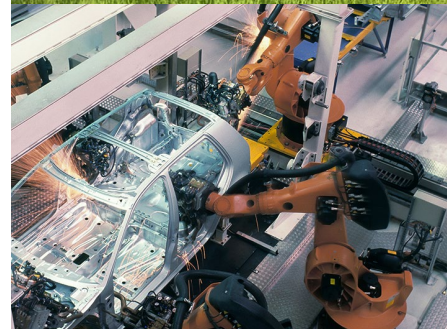
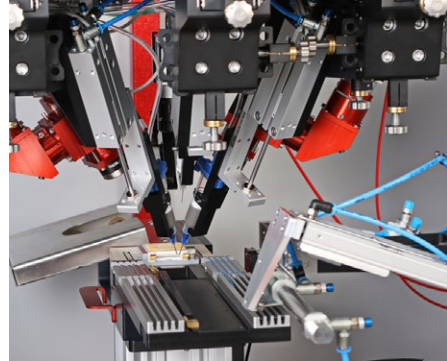


Main benefits

- ✓ Flexible, modular platform for modern test automation
- ✓ Easy to use without programming knowledge
- ✓ Adaptable to a wide range of measurement & automation requirements
- ✓ Automatic, semi-automatic & manual test modes
- ✓ Fast & precise test execution
- ✓ Easy connection of all measurement hardware
- ✓ Extensive features, real-time data, & future-proof technology
- ✓ Configurable data storage & flexible reporting

Areas of application:

- ✓ **Development:** Flexible creation and execution of tests, analyses, and (HIL) simulations during the development process
- ✓ **Validation and Verification:** Reproducible automated testing with comprehensive testing functions and reporting
- ✓ **Endurance tests and qualification:** Robust long-term test bench operation with monitoring functions and versatile data storage
- ✓ **Production test (end-of-line):** Powerful quality control in the production line with integration into production IT
- ✓ **Mobile maintenance and diagnostic systems:** Easy execution of complex diagnostic procedures with user guidance and comprehensive documentation
- ✓ **Special-purpose machines and special measurement technology:** Complete operation and automation, even of complex hardware with variants



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TestMaster Architecture & Modules

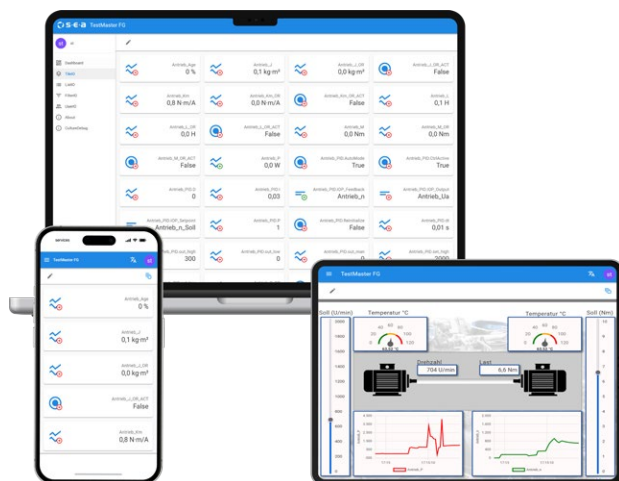
Modular design for maximum adaptability

TestMaster® is based on a flexible modular system consisting of basic modules and defined interfaces that can be combined and expanded depending on the application.:

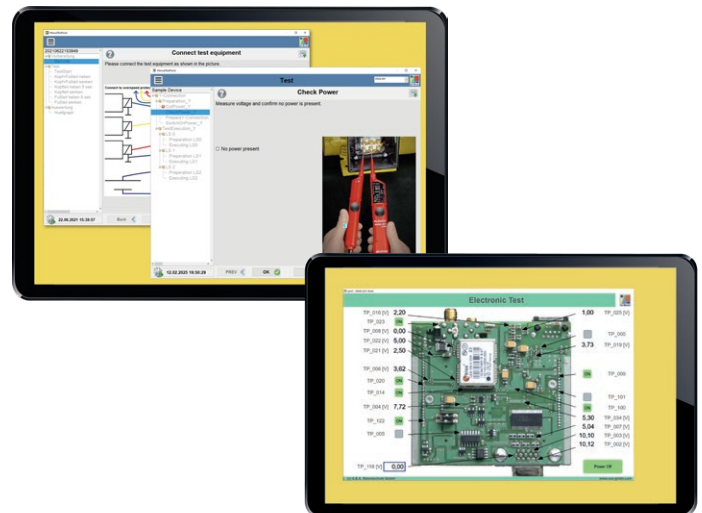
- **Test management** – Organization of test procedures and test parameters
- **Test control** – Monitoring, control, and documentation of tests
- **Hardware abstraction** – Independent of hardware used
- **Sequence control** – Powerful workflows with editor & debugging
- **Process data management** – Recording & storage of all measurement data
- **Data visualization** – Visualization and operation of the test system
- **User management** – Provision of roles & rights
- **Sequence editor** – Graphical configuration of processes and tests



Expandable through defined interfaces, such as LabVIEW(TM), NI TestStand, Python, NI-DAQmx, VISA, cameras, data exchange (e.g., CAN, EtherCAT, Modbus, VISA, MQTT), web technologies (e.g., browser-based interfaces, Grafana, REST APIs), databases (e.g., ODBC, InfluxDB), real-time environments & FPGA



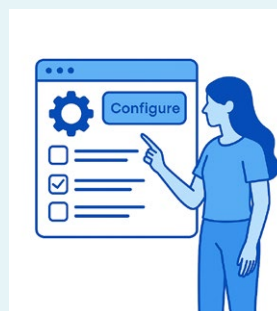
Example: Web-based user interface



Example: User guidance

Benefits for users:

- ✓ Configure instead of programming
- ✓ Easy integration of new hardware
- ✓ Reusability of modules
- ✓ Minimized development costs
- ✓ Future-proof thanks to configurability



Industrially proven

Whether for development test systems, test benches for validation, or EOL testing with process monitoring in production: TestMaster is the reliable software basis for automated tests and customized OEM solutions.

TestMaster has proven itself in numerous industries and applications.

- Automotive and transportation
- Communication technology
- Aerospace
- Audio/video measurement technology
- Chemistry and process engineering
- Industrial goods
- Energy technology



Our TestMaster software enables the predictable implementation of turnkey test benches in the shortest possible time with reduced development risk, maximum flexibility, and long-term investment security.

Dr. Gerd Schmitz, CEO, S.E.A. Datentechnik GmbH



Maximum flexibility:

- Fully automated
- Semi-automated
- Guided manual tests

