



baumann
power|box

ENHANCED FLEXIBILITY FOR EOL TEST OF POWER CONVERTERS

The **baumann power|box** is the flexible platform for test engineering applications in power electronics. When used for testing assemblies and control units, it reliably meets the requirements for quality assurance and a zero-defect strategy in production.

Löhnert Elektronik's performance testing technology is designed and built according to customer-specific test specifications. The basic tests on a converter module include simple measurement tasks and performance tests on the main circuit of the direct current source via the three-phase bridge to the alternating current circuit.

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The baumann **power|box** offers the complex infrastructure for **EOL testing** of power converters in production thanks to its modular system.

The baumann **power|box** is compact, space-saving and optimally accessible. A fast conversion and the ability to change from a stand-alone system to an integration into a production line additionally reduces the investment costs.

Due to the modular design and the various loading possibilities, the baumann **power|box** provides great adaptation capabilities during production.

The testing technology is consistently built up in modular 19-inch technology:

- Use of qualified functional modules
- Reduction of the planning work through large existing function blocks
- Flexible construction of new projects or changes to existing projects
- Better serviceability through replacement and external repair

Test software LisRT or TestStand

The test sequence is programmed using the Löhnert test and automation software LisRT with Python as sequencer language.

The test sequence is programmed according to customer-specific test specifications and can be adapted by the customer with the integrated development environment.

The device drivers are collected for each project according to the hardware configuration.

LisRT contains the infrastructure for test facilities, from type-dependent limit value specification to customer-specific measurement data transmission to a MES-system.

On request, we also implement test technology in NI TestStand.

Product characteristics

Dimensions

- Model 2.4 700 mm x 1050 mm
- Model 4.4 1050 mm x 1050 mm
- Model 6.4 1400 mm x 1050 mm
- Height: 2330 mm -100/ +50 mm with adjustable feet

Loading types

- automatic: robot, conveyor belt
- manual: drawer

Contacting

- Changeable adapters
- VPC interface
- High current adaptation
- Coolant adaptation
- Safety engineering

Coolant management

- Coolant circulation
- Leak test
- Drain
- Temperature control unit separate

Control

- Automation and safety technology: Beckhoff
- Measurement technology: Beckhoff, NI, R&S

Electrical load circuit

- Power supply \pm HV 750 V/15 KW
- Load choke approx. 600 A / 200 Hz

Software

- LisRT
- NI TestStand