

Engberts-Test-Matrix

Test System for the Production and Inspection of Wire Harnesses

engberts GmbH



Mess-, Steuer- und Regelsysteme

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Application:

- From small wiring systems to complex assemblies.
- For quantities ranging from 1 piece to large-scale serial production

Advantages of the Engberts-Test-Matrix:

- **No wiring planes**
Time-consuming adapter wiring for conversions are a thing of the past.
- **Free positioning of test modules in 1 cm grids and alignment in 90° steps.**
- **Automatic learn-in of specimen, incl. test set-up.**
- **Fully automated visual guide and monitoring for conversions. Wrong test set-ups are impossible.**

System Characteristics

The advantages of the Engberts-Test-Matrix comprise:

- A 1 cm grid, where every test module can be positioned freely across the entire test bench. This will reduce the conversion time of the test system tremendously as cables no longer need to be laid, extended or shortened and modules do not need to be unscrewed from one position and screwed back on in another position. Furthermore, it is not necessary to parameterize the system again. The test module are simply plugged into their new position. The test system will handle the rest automatically.
- Available standard modules which can be fitted with the individual adapters of the customer (reduction of basic module costs).
- Unique module identification on the test bench (location and positioning) warrant a correct test set-up at any given time.
- The entire test configuration is stored for every test job resulting in a sensationally fast conversion time when the test is set up again.
- All relevant QDE data is determined and stored for every test job so that each individual test step and each test can be verified.
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Of course, all the options of conventional test benches are also available.

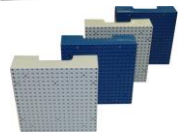
- Module electronics with high-speed switching matrix linked to the master computer via CAN-Bus.
- Computer-supported test system with database-backed user software for Windows.
- Simple setup and administration of test programs plus self-learning mode
- Import interface for test programs from external systems or Excel spreadsheets.
- Fast multimeter for component measurements and a qualitative detection of short-circuit and interruption errors.
- Possible integration of external devices without great effort.
- Component measurement
 - resistance: 10Ω - 100kΩ
 - diode measurement: 0 - 20VDC
 - capacity: 10nF - 20mF
 - test voltage: 0VDC - 25VDC
 - receiving inspections, e.g. clip queries, spacer, etc.
 - vacuum tests
 - push back test



Plane 1
Test Module



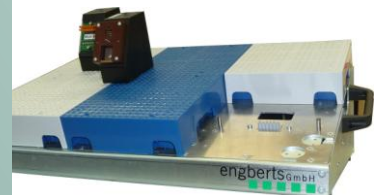
Plane 2
Module Holder



Plane 3
Bench Element



System Assembly



Gefördert durch:



Bundesministerium
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und Technologie

aufgrund eines Beschlusses
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