IABG. The Future.



Comprehensive options for safeguarding mechatronic systems

IABG mechatronics rack: A solution for diverse challenges





Integrative

solution

FROM A SINGLE

SOURCE •

IN ONE PLACE

IABG mechatronics rack

Comprehensive options for safeguarding mechatronic systems

The integrative solution from a single source in one place for a wide range of challenges in safeguarding mechatronic systems

When qualifying and safeguarding mechatronic systems, it is often necessary to superimpose additional mechanical stress, vibration and climatic environmental simulation of the components

With the mechatronics rack, IABG offers an integrative solution from one source in one place. An expansion of test environments for mechatronic DUTs is possible.

This means that, among other things, dynamic tests of active rear axle steering systems under environmental influences,

functional tests of active roll stabilisers or service life tests on chassis actuators can be realistically reproduced.

The mechatronics rack contains all subsystems such as residual bus and on-board power supply simulation for tests of electromechanical systems in existing test facilities. In future, it will no longer be necessary for the customer to provide hardware and

personnel. Commissioning of DUTs can be realised online.







Service description

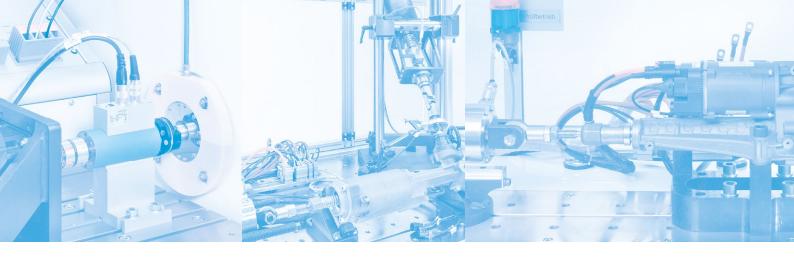
- Extension of test environments for mechatronic DUTs
- dSpace Scalexio for residual bus simulation (CAN, FlexRay)
- On-board power supply simulation (12V/48V), bidirectional power supply
- Test automation by stand system or mechatronic rack as master

Fields of application

- Typical test items: EPS steering systems, rear axle steering systems, active roll stabilizers, drive systems etc.
- Typical test scopes: Environmental simulations, life tests, functional and development tests, structure-borne sound analyses etc.

Technical specifications

- Communication with DUT: CAN (2x), FlexRay (2x), switchable bus interruption
- Bidirectional power supply: 0 60V, ±450A, connections for two DUTs (200A each), voltage and current measurement (2x), quiescent current measurement (2x), Kl.30/40 switchable (2x), Sense (1x), optional: SuperCaps, redundant power supply
- Logic supply: 0 30 V, 10 A, connections for two DUTs, voltage and current measurement (2x), Kl.30 switchable (2x), Kl.15 switchable (2x)
- Additional inputs and outputs: AI ±10V (5x), A0 ±10V (5x), DI (4x), D0 (4x), temperature (8x), CAN (5x)
- Interfaces to peripheral control unit: RS232, Ethernet, analogue





additional mechanical loadsRelease testing of prototypes

components

• HiL simulation on highly dynamic mechatronic

AUTOMOTIVE



INFOCOM



MOBILITY, ENERGY & ENVIRONMENT



AERONAUTICS



SPACE



SECURITY

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For further information please contact:

Phone +49 89 6088-4454 sales@iabg.de



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IABG Einsteinstrasse 20 85521 Ottobrunn Germany Phone +49 89 6088-2030 Fax +49 89 6088-4000 info@iabg.de www.iabg.de