

Intelligent Testing



Variable superstructures

All-purpose and multifunctional
test facility for variable test
structures



Hydraulic test facility HYDRA



Test of a steering system on HYDRA test facility



Bending test of an isolator on HYDRA test facility

Hydraulic test facility HYDRA

The "HYDRA" hydraulic test facility is especially suited for variable test superstructures. The modular systems ensure fast and cost-effective test set-up. The test facility has a multi-channel controller system. Hydraulic cylinders of different sizes as well as diverse mounting brackets and load frames are available for custom test set-ups. Furthermore, tests can be made with electromotive, electrodynamic and pneumatic drives.

Task/performance

- Execution of functional, strength and fatigue tests with components and systems out of the area automotive, energy, railway transportation and aeronautics
- Short lead times because of a modular configuration
- Simultaneous execution of independent test set-ups
- Individual and fast integration of test components
- Big variety of servo-hydraulic and pneumatic actuators
- Digital measurement and control system to play and monitor all kinds of load signals
- Optional execution of tests with controlled temperature and humidity or with corrosive or abrasive media

Technical Data

- Performance data: forces up to 1,200 kN, torques up to 4 kNm
- Main clamping area: 6 x 3 m, secondary clamping area: 3 x 2 m, t-slots in 250 mm grid
- Digital controller with multiple control PCs, diverse controller channels and analogue and digital IOs
- Hydraulic supply: multiple connection units with more than 800 l/min at 280 bar
- Climate and temperature conditions can be regulated from -75 °C to +180°C via mobile recirculating air units

Hydraulic supply

- Central hydraulic power supply with high output
- 6 independent hydraulic supply units (HSU – hydraulic safety units) with more than 800 l/min at 280 bar/4000 psi
- Fast hydraulic setup with flexible hydraulic hoses



AUTOMOTIVE

About IABG

We are a closely networked business group and offer integrated, future-oriented solutions in the sectors Automotive • InfoCom • Mobility, Energy & Environment • Aeronautics • Space • Defence & Security. We understand the requirements of our customers and support them independently and competently. We implement effectively, efficiently and with target orientation. We operate reliably and sustainably. Our international market presence and our success are based on technological excellence and a fair relationship to our customers and business partners.



INFOCOM

As development partner we also verify technical qualifications and solve problems in the areas of functional efficiency, quality, design, and materials.



MOBILITY, ENERGY & ENVIRONMENT

We provide a broad spectrum of products and services. It ranges from numerical analysis to experimental testing through to the realisation of turnkey, customised test systems that we operate for the customer.

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