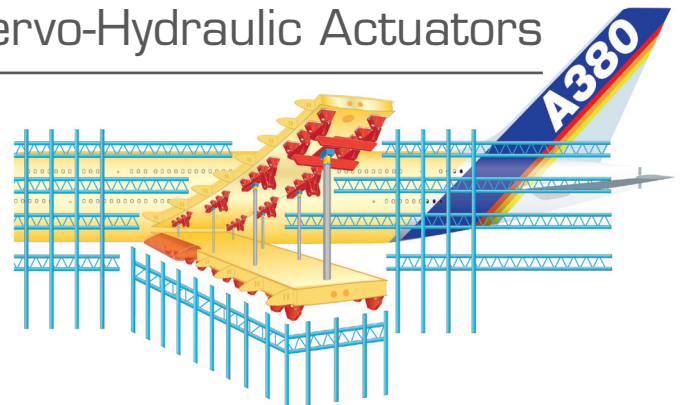


A Multi-Purpose Controller with Interlinked Automated Model Generation and Design-Optimization for High-Performance Control of Mechanical Systems with Servo-Hydraulic Actuators

A new generation of multi-purpose control- and monitoring systems

ControllerSolution GmbH supplies model-based multi-purpose digital control and monitoring systems tailored to the functions of mechanical systems driven by servo-hydraulic actuators. In the test engineering field typical applications of our controllers range from low-frequency control-engineering applications such as large-scale aircraft structural fatigue testing right up to higher-frequency control-engineering applications such as implementation of road tracking profiles by means of test stands, vibration tests and structural component testing.



Features of our product

- The multi-project capability of the operation level allows efficient implementation of multi-project applications
- High automation level of our control- and monitoring system by direct interlinking to the model generation and system simulation
- Fast setup by easy-to-use system simulation tools: trajectory generation of optimal command signal, automatic closed-loop system design-optimization and actuator design and analysis
- For higher frequency control applications: RPC-method and model generation by plant excitation
- Easy-to-use model generation environment for FEM with optimization-based system identification.
- High performance control by proven model-based control engineering methods and easy-to-tune feedback controller.
- Modularly extendable up to 200 controller channels and up to 300 configurable monitoring channels
- Minimum cabling effort in field by use of Real-Time Ethernet
- Our company offers customers to purchase all the controller-hardware through a worldwide supplier and support network.
- As we use only standardized commercially available industrial PC technologies our controllers are available at prices far below the market prices of our competitors.

