



A NEW GENERATION OF MULTI-PURPOSE CONTROL - AND MONITORING SYSTEMS

A MULTI-PURPOSE CONTROLLER WITH INTERLINKED AUTOMATED MODEL GENERATION AND DESIGN-OPTIMIZATION FOR HIGH-PERFORMANCE CONTROL OF MECHANICAL SYSTEMS WITH SERVO-HYDRAULIC ACTUATORS

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 structure fatigue testing right up to higher-frequency control-engineering applications such as vibration tests, automotive road tracking profiles 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 or RPC, automatic closed-loop system design-optimization
- Easy-to-use model generation environment for FEM and optimization-based system identification, high-frequency response identification by plant excitements
- 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 hardware through a worldwide supplier and support network
- Our control and monitoring systems are available at prices far below the market prices of our competitors