CABLE TRAYS AND SUPPORTS THERMOMECHANICAL TESTING SYSTEM

VZERO supplies state of the art turn-key **Thermomechanical Testing Systems** for cable trays, horizontal supports and connecting elements compliant with ISO and NEMA regulations.

THERMOMECHANICAL TESTING SYSTEM FOR CABLE TRAYS, HORIZONTAL SUPPORTS AND CONNECTING ELEMENTS. MAIN FEATURES

- Compliant with UNE-EN-61537 and NEMA regulations for thermal and structural testing and certification of cable trays, supports and connecting elements with regard to their SWL (Safe Working Load).

- **Able to work in SWL search mode.**

- Climatic chamber with embedded actuators to perform mechanical tests up to 70 Celsius degrees.

- Telescopic, fully adjustable whiffle-tree actuation system to simulate uniformly distributed loads over the specimens.

- High performance electromechanical servoactuators, with continuous positioning range. These feature excellent efficiency, accuracy and repeatability and hold many advantages over traditional actuation methods (hydraulic, pneumatic) such as clean operation, reduced noise, longer life and less maintenance needs.

- Very high accuracy instrumentation to control applied load and read specimen displacements

- High performance control hardware to perform multiaxial load control, solving cross coupling between actuators.

- Completely customized Software Suite. Entirely programmed by VZERO with National Instrument's LabVIEW, allows user to readily define and execute tests and quickly review, analyze, treat and generate reports from tests data.

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BENEFITS

- **Able to work in SWL certification or search modes**

- **Thanks to its flexible design, this system is able to test virtually any type of cable tray including steel, PVC, fiberglass, wire or stair trays, etc.**

- **Add-ons are available to test horizontal supports or connecting elements associated to cable trays systems.**

- **Electromechanical actuation provides quiet and reliable operation of the system**

- **A powerful control system provides unmatched easiness in test configuration, execution, data collection and report generation**
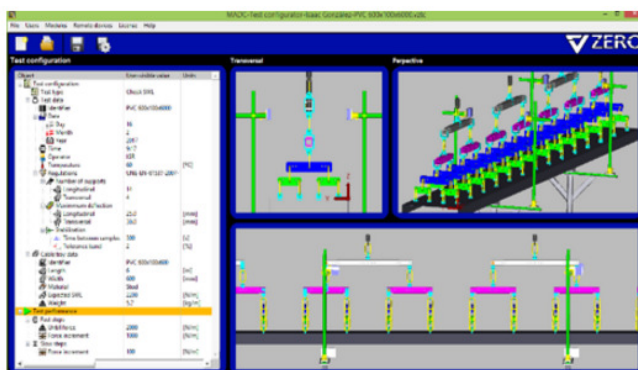
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