

High Precision In-line Measurement and Dimension Control for Sector Cables

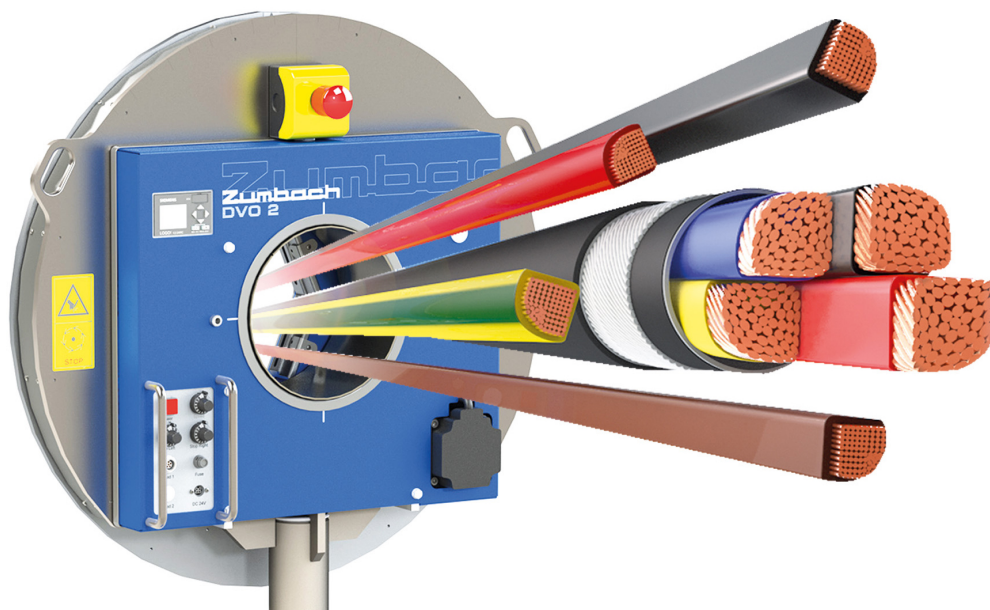
ZUMBACH Electronics presents the well proven JACKETMASTER systems for sector insulations and sector cable jackets with the oscillating measurement device DVO 2.

Straight and pre-spiralled sectors, solid and stranded, aluminium and copper can be measured and controlled. Width, height and insulation thickness as well as diameter, ovality and jacket thickness can be measured resp. calculated at accuracies within a few 1/100 mm. Two highly precise DVO 2 measurement devices capture dynamically the relevant dimensions at high rates, before and after the extrusion. With an optional third measuring head at the cold end of the line, the hot-cold shrinkage can automatically be compensated.

DVO 2 is a mechanical oscillating device for ODAC series of laser diameter measuring heads. In the adjusted angle (adjustable between -50° up to $+50^\circ$), the device oscillates the measuring head (mounted on a disc) continuously around the product.

Thanks to its rugged design, the DVO 2 can be easily installed and operated in each production line without additional reinforcement elements. The protection type of the oscillating device as well of the ODAC measuring heads is adequate enough for the integration into production lines under normal environmental conditions. The universal design of the DVO 2 enables the use of numerous ODAC models, qualifying the device for a wide range of applications where precise measurement of height and width is required. With a continuously pivoting motion of the laser heads combined with the electronic "minimal value detection" of the relevant dimension, the height (or thickness) will be measured very accurately.

The JACKETMASTER processor works with a sophisticated software. It displays all important data in numerical and graphical form, monitors tolerances and controls the process for optimised thickness and material consumption.



Oscillating DVO 2 measurement device

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