

Preview on ZUMBACH ELECTRONICS Stand

Exhibition: **K 2007**,
October 24 – 31, Düseeldorf
Company Name: **ZUMBACH Electronics**
Address: P.O. Box, CH-2552 Orpund Switzerland
Booth: **10 E41**

In-Line Measurement Technology and Quality Control in Extrusion Processes.

Zumbach is again showing many new developments in the area of in-line measurement and quality control at the K 2007.

Brief description of the main exhibits:

1. Wall Thickness / Diameter Measurement and Control for Tubes and Hoses

The new hi-tech ultrasonic system offers – together with **UMAC[®] CI** and the measuring data system **WALLMASTER**, new and application-specific solutions for wall thickness measurement and control. Outside and inside diameter can also be controlled, when an **ODAC[®]** laser measuring gauge is connected.

- **UMAC[®] CI** high performance ultrasonic measuring system, working completely on a digital basis, allows flexible and specific configuration of the measuring task.
- **WALLMASTER** measuring data processor. Available with conventional or touch screen. Particularly operator friendly and with easy to understand graphical surface. For connection to **UMAC[®]** and several **ODAC[®]** diameter gauges as well as fault detectors. Control, statistics, SPC, processor communication.
- **UMAC[®] Z scanners**: Completely new design (pat. pending), the transducers can be synchronously adjusted to the best possible measuring position within seconds. The scanner covers an outside diameter range from 5 to 100 mm (.2 to 4 in.) and represent a smart and simple solution for fully non-contact, in-line wall thickness measurement of cable jackets, tube and hose.
- **Ultrasonic Multi-layer Thickness Measurement**
WALLMASTER system with multi-layer software. Several layers. Can be individually processed and displayed.

2. 3-Axis Diameter and Ovality Measurement for Tubes and Hoses ODAC[®] TRIO

Contrary to conventional 2-axis gauges, the **ODAC[®] TRIO** laser gauges provides for accurate measurement of min., max. and mean diameter independently on ovality and orientation of the product.

August 2007

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For additional information contact:

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3. In-line Profile Cross Section Measurement

Complete profile cross sections including withdrawn dimensions, radii etc. can be measured and displayed with the **PROFILEMASTER**[®] system by applying light sectioning technology (laser and CCD's).

4. Surface Fault Detection in 3 Axes

Surface faults can be detected, depending on the kind of fault, via image processing or photometrically with the 3-axis fault detector **KW 32TRIO**.

5. WEBSERVER and DATA LOGGING Software

New solutions for easy networking and data logging of measuring data between one or multiple extrusion lines and host computers will be show.



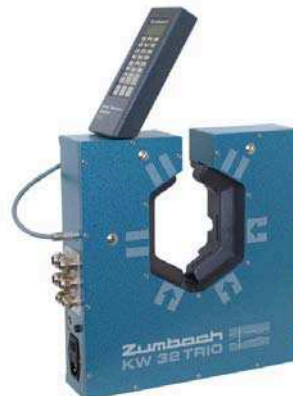
 **Wall Thickness
Eccentricity**



 **Shape
Cross section**



 **Diameter
Ovality**



 **Lumps
Neck-Downs**

Selection of scanners: - Top left: UMAC[®]
 - Top right PROFILEMASTER[®]
 - Down left: ODAC[®] TRIO
 - Down right: KW fault detector

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