

K 2013

Exhibition: K 2013, 16 – 23 October, Duesseldorf, Germany
Company Name: ZUMBACH Electronic AG
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ZUMBACH – Swiss Prime Measuring since 1957 - will join the international trade fair for plastics and rubber K 2013 in Dusseldorf. Novel and intelligent solutions as well as cost efficient solutions for in-line measurement and control of pipes and hoses are going to be the focus of Zumbach's exhibition booth.

New “Linear Sensor Technology” allows cost effective, synchronous multi-axis Measurement of Diameter and Ovality in any Pipe, Tube and Hose Extrusion Process.



Photograph: MSD - One of the new series of diameter and ovality measuring heads based on Linear Sensor Technology.

Unique measurement technology for products up to 200 mm outside diameter

- A new product line with 2-coloured LED light sources allowing simultaneous scanning in each axis (XY*) and thus trouble-free measurement even with product vibration
- Integrated extraneous light filters prevent occurrence of measurement errors that to date seemed unavoidable
- Perfect performance even with reflective surfaces thanks to the use of different colour lighting for each measurement axis

*This new concept allows even a 4-axis measurement of products up to diameter 54 mm

Extruded Pipe and Hoses under Tight Control with Precise In-Line Measurement and Control of Eccentricity and Wall Thickness

Material savings thanks to measurement and control of eccentricity and wall thickness.

The versatile high-tech ultrasonic system WALLMASTER offers application-specific solutions for **measuring and monitoring wall thickness**. The measuring data processor with touch-screen display **gathers data and QC fully automatically**.

In combination with ultrasonic UMAC[®] scanners and various ODAC[®] diameter measuring gauges as well as with error detectors, the measuring and monitoring scale can be expanded to **outside and inside diameter, statistics, SPC and processor communication**.

Using Zumbach's WALLMASTER measurement and control systems, manufacturers can **economise their expenditure of raw materials**. The **ROI** is achieved **within a few months**. The use of these systems also allows **reducing considerably the start-up time**.

Optimized measurement of monolayer synthetic pipes and hoses

WALLSTARTER – the low-cost processor solution for UMAC[®] ultrasonic **eccentricity and wall thickness measuring** is tailored to the requirements of the measuring and monitoring of monolayer synthetic pipes and hoses.

New ultrasonic scanners for flexible diameter adjustment

This novel construction (pat. pend.) is going to be one of the exhibition's highlights: the transducers can be **either individually or simultaneously adjusted to the best possible measuring position within seconds**. The scanners cover an outside diameter up to 180 mm and represent a smart and simple solution for full **non-contact, in-line eccentricity and wall thickness measurement of tubes, hoses and cable jackets**.

High-end Non-contact Profile and Shape Measurement, Combining Laser and CCD Technology

In-line cross-section measurement of plastic and rubber profiles of any kind

The PROFILEMASTER systems from Zumbach represent an accurate and economical solution for **measuring and monitoring dimensions** or even the **complete cross-section of profiles** and pipes made of plastics or rubber - throughout the manufacturing process.

All relevant dimensions such as **width, height, angle and radii** are added together to form the **full cross-sectional picture**.