



FIRST PREVIEW

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Betacontrol

Halle/Stand: 10 E 19

Die Firma stellt im Bereich Extrusionstechnik eine **neue Möglichkeit zur Querprofilregelung** vor. Mit Hilfe einer oder mehrerer Wärmebildkameras wird das Profil direkt nach dem Düsenaustritt aufgenommen. Da bereits geringe Flächenmasseunterschiede ein verändertes Temperaturspektrum zur Folge haben, ist somit ein Eingriff der Querprofilregelung in das Verfahren wesentlich schneller möglich als mit herkömmlichen bekannten Verfahren. Dieses Verfahren ist von betacontrol als Patent angemeldet. Des Weiteren ist die Zusammenarbeit des Unternehmens mit der Firma Siemens als Solution Provider certified intensiviert worden. Die neue Produktgeneration INDICON ONE S03 setzt auf WIN CC von Siemens zur Visualisierung und kostenoptimalen Integration in MES- und ERP-Lösungen. Auf der systeminternen Steuerungsebene kommt die WIN AC Software PLC zum Einsatz. Diese Software-Lösung wird den Ansprüchen moderner Messtechnik gerecht. Echtzeiterweiterung zur Gewährleistung deterministischen Verhaltens für den Steuerungsteil sind in Verbindung mit komplexen PC based Control Aufgaben realisierbar.

Betacontrol is one of the leading manufacturer of Thickness and Basis Weight Measurement Systems and also offers a wide spectrum of services in the range of process engineering. The firm will again present new-developed products. In the area of extrusion technology, a **new method for the cross profile control will be presented**. By means of one or several thermal image cameras, the

profile is recorded directly after the die exit. Since small differences in area masses cause a change of the temperature spectrum a control of the cross profile is much faster to determine than by means of conventional processes. For our new-developed process, betacontrol has applied for a patent. Furthermore the cooperation with the company Siemens as a certified Solution Provider has been appreciably intensified. Therefore, the visualisation and cost-optimised integration in MES- and ERP-solutions betacontrol has taken advantage of the WIN CC software of Siemens for our new product generation INDICON ONE S03. With regard to the system-internal control, the software WIN AC PLC is used. This software solution absolutely meets the requirements required of state-of-the-art measuring techniques. Real time extension guaranteeing determinative behaviour of the control part can be realized in connection with complex PC-based control tasks.

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Beta Laser Mike

Halle/Stand: 10 G 28

A quick return on investment, increased line speed and easy setup are just three of the many features offered by the ProfileScan 2000 by Beta LaserMike Inc. Controlling the extrusion of a complex shape requires a high-speed system that can make quick process adjustments as soon as variations are detected to keep the product within specifications. Such a system demands integration into an industrially rugged environment,

while maintaining accurate measurement and control of the extrusion process under high-temperature, dynamic line conditions. The ProfileScan 2000 meets these challenges. The ProfileScan 2000 reduces weight and size variations of the product, saves material by controlling part weight per foot, reduces scrap during product color and material changes and increases line speeds to raise production rates. Size variations have routinely been reduced by four times and material savings reach as much as \$4,000 per month on typical polymers. Lines speeds have been increased 25% while setup times have been reduced by three times when changing compounding and/or color. To ensure that the product stays within specification, the ProfileScan 2000 monitors the amount of die swell in the extrudate as it exits the extrusion die. Variations in the profile caused by the mixing/blending system into the material hopper, extruder output variations, calibrator, cooling medium – all the way to the puller – are formed directly at the die swell. By controlling on the die swell, the ProfileScan 2000 is able to ensure instantaneous control of the entire process, ensuring process consistency and stability.

➤ Beta LaserMike Inc.
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Borealis

Halle/Stand: 6 C 58

Borealis has developed a **range of polypropylene (PP) blown film materials** designed for production on conventional blown-film machinery traditionally used for polyethylene (**Figure**). The new polypropylene materi-