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**Press release**

**Coperion and Coperion K-Tron at Chinaplas 2014 – Newly developed ZSK laboratory extruder, STS advanced compounder and Smart Flow Meter on display**

*Stuttgart, March 2014.* – One of the latest developments of Coperion GmbH, Stuttgart/Germany, to make its debut in Asia is the ZSK 26 Mc<sup>18</sup> twin screw laboratory extruder with 25 mm screw diameter. This new extruder, which will be shown on Coperion's booth E1J01 in Hall E1, offers all the advantages of the ZSK Mc<sup>18</sup> series; it has a simple design, it is operator-friendly and easy to clean. It is suitable for the development of formulations, for conducting sample compound trials and for the production of relatively small batches with up to approximately 180 kg/h. Compared to its predecessor, the ZSK 26 Mc, this newly developed laboratory extruder of the ZSK Mc<sup>18</sup> series is capable of an increase in throughput of up to 100%, as the specific torque has been increased to 15 Nm/cm<sup>3</sup>, and is more energy efficient thanks to the reduced specific energy input. The increased filling degree and the lower melt temperatures ensure extremely gentle product handling. The new ZSK 26 Mc<sup>18</sup> is a mobile unit and requires only a minimum of floor space, as the control cabinet is integrated into the base frame of the machine. Heating and cooling are installed ready for use.

**STS advanced twin screw compounder – Proven quality for plastics applications**

Also on display is Coperion's *STS 65 advanced* compounder with 65 mm screw diameter and a specific torque of 10 Nm/cm<sup>3</sup>. Thanks to this high torque, the STS standard twin screw compounders achieve not only very good product quality but also maximum throughput rates.

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The series is equipped both with a powerful motor and with a gearbox rated for the required torque.

Coperion's further development of the *STS advanced* has benefited considerably from the company's vast experience gained with the high-end ZSK series. The *STS advanced* series unites the advantages of a largely standardized and hence cost-efficient machine with the processing know-how acquired by Coperion over many years. A decisive factor for the improvement in compound quality is the relative increase in the amount of material passing through the extruder process section. This reduces the specific shear stress, lowers the melt temperature and improves the mixing performance. As a result, the *STS advanced* operates with a gentler compounding action as well as higher efficiency and product quality. Since it offers an excellent price-performance ratio, the compounder pays for itself within a short time.

### **Precise metering, registering and monitoring of bulk material flows**

Coperion K-Tron introduces the newly redesigned Smart Flow Meter which is used in industries that need reliable metering, registering or monitoring of bulk material flows. In high rate applications, the Smart Flow Meter provides high accuracy feeding, at very high feed rates of up to 200 m<sup>3</sup>/hr (7,000 ft<sup>3</sup>/hr). Applications include material flow control within a production line, measuring filling or discharge of materials from storage, inventory control, and quantitative bulk goods measurement. The Smart Flow Meter offers lower maintenance costs, reduced headroom and is a cost-effective solution for in-line weighing applications. There are two models available: K-SFM-275-B and K-SFM-350-B, dependent on application requirements. The Smart Flow Meter is often used in polyolefin production processes, where the main component is accurately and gently fed into the extruder.

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Coperion ([www.coperion.com](http://www.coperion.com)) is the international market and technology leader in compounding systems, feeding technology, bulk materials handling systems and services. Coperion designs, develops, manufactures and maintains systems, machines and components for the plastics, chemicals, pharmaceutical, food and minerals industries. Within its four divisions – Compounding Machines, Materials Handling/Extrusion Systems, Coperion K-Tron/Food and Service – Coperion has 2,500 employees and nearly 40 sales and service companies worldwide.

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Dear Colleagues,  
an MS-WORD file of this press release in English, German and Chinese and  
a printable-grade copy of the enclosed image are available for download at  
<http://www.coperion.com/en/news/newsroom/>

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*Clearly designed and easy to clean – these are the outward features of the new ZSK 26 Mc<sup>18</sup> laboratory extruder; its inner values include the increase in specific torque to 15 Nm/cm<sup>3</sup> and its even more gentle compounding behaviour at up to 100 % higher throughput rates.*

*Photo: Coperion, Stuttgart/Germany*



*The STS advanced twin screw compounder for standard applications at an reasonable price-performance ratio incorporates Coperion's process know-how and the advantages of the company's global network.*

*Photo: Coperion, Stuttgart/Germany*

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*The Smart Flow Meter is used for reliable metering, registering or monitoring of bulk material flows. In high rate applications, the Smart Flow Meter provides high accuracy feeding. Applications include material flow control within a production line, measuring filling or discharge of materials from storage, inventory control, and quantitative bulk goods measurement.*

*Photo: Coperion K-Tron, Pitman/USA*