

Contact

Julia Rupp
Marketing Communications
Coperion GmbH
Theodorstrasse 10
70469 Stuttgart / Germany

Phone +49 (0)711 897 22 25
Fax +49 (0)711 897 39 74
Julia.Rupp@coperion.com
www.coperion.com

Press Release

Coperion launches new automatic strand conveyance system

Highly flexible: reliably capable of a throughput of 5 tons/hour

Stuttgart, October 2015 – Coperion Pelletizing Technology GmbH, Offenbach, has developed an automatic strand conveyance system (ASC) often required by compounding systems for pelletizing at very high throughput rates. Designed to work in conjunction with Coperion's two large strand pelletizers, the SP 500 HD (working width 500 mm) and the SP 700 HD (700 mm), this new conveyance system is likewise available in two sizes: the ASC 500 for throughput rates of up to 3.5 tons/hour and the ASC 700 for up to 5 tons/hour. The conveyance system automatically guides the extruded strands via a cooling water chute and downstream conveyor belt into the feed mechanism of the pelletizer. A likewise automatic start-up mechanism facilitates the start-up operation, while any possible machine malfunctions caused by broken strands are avoided by the system's ability to rethread the strands. Compared to other processes, strand pelletizing ensures an extremely gentle treatment of the product, as it operates with much lower pressures. Other convincing advantages are the reduced complexity of the system and the low rate of wear. These benefits combined with its relatively low operating costs make strand pelletizing an obvious choice for the compounder.

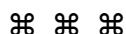
The new SK92 die head has been developed specially for high throughput rates. Homogeneous heating/cooling ensures completely uniform extrusion of the strands across the entire width of the extrusion die. The die head is distinguished by its optimal rheology and efficient heat transfer, providing maximum possible throughput while ensuring gentle handling of the product. This feature makes the SK92 die head ideally suited to the increased throughput capabilities of the ZSK Mc¹⁸ extruder series.

October 2015

The ASC automatic strand conveyance system is modular, permitting flexible and rapid adaptation to the requirements of the process. If, for example, the extruded material requires more intensive cooling, the strands – after being cooled in the water chute – can also be spray-cooled with cold water on the downstream perforated conveyor. The spray bars used for this purpose can be turned on and off individually and can be readily exchanged during regular maintenance operations. Freely positionable suction stations in the conveyor system generate powerful streams of air that free the strands from adhering water. This post-cooling unit can also easily be converted to an intensive cooling section, if required. A strand drying unit in the last section of the conveyor system ensures that residual moisture is absolutely negligible when the strands are fed into the pelletizer.

Coperion's new automatic strand conveyance system may be used for a broad spectrum of materials. It is equipped as standard with a vertical adjustment permitting different points of strand placement on the water chute depending on the material being processed. An integrated strand monitoring device helps to maintain high take-off speeds in conjunction with a high number of strands and hence high throughput rates in fully automatic operation. Combination with a Coperion extruder permits direct integration of the strand conveyance control into the control system of the extruder, thus affording yet a further reduction in operating effort.

Coperion (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 & Extrusion, Equipment & Systems, Materials Handling and Service – Coperion has 2,500 employees and nearly 40 sales and service companies worldwide. Coperion K-Tron (www.coperionktron.com) is a brand of Coperion.



Dear Colleagues,
This [press release in English and German](#)
and the color photos in printable quality are available for download from
<http://www.coperion.com/en/news/newsroom/>

October 2015

Editorial contact and voucher copies:

Dr. Georg Krassowski, KONSENS Public Relations GmbH & Co. KG,
Hans-Kudlich-Straße 25, D-64823 Groß-Umstadt
Phone: +49 (0)60 78/93 63-0, Fax: +49 (0)60 78/93 63-20
E-Mail: mail@konsens.de, Internet: www.konsens.de



The new ASC automatic strand conveyance system from Coperion, designed both for a wide range of materials and for fully automatic operation of high-throughput extrusion lines, is available in two sizes: the ASC 500 for a throughput of up to 3.5 tons/hour (shown here) and the ASC 700 for a throughput of up to 5 tons/hour.

Photo: Coperion Pelletizing Technology GmbH, Offenbach

October 2015



Coperion's new SK92 die head has been specially developed for high throughput rates.

Photo: Coperion, Stuttgart