

Press Release

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Micro- and multiduct extrusion lines: modern cable ducts lines from battenfeld-cincinnati

For more than 10 years, battenfeld-cincinnati has been a pioneer in the field of extrusion lines for the production of so-called micro- and multicable ducts. These pipes are used worldwide, especially for the installation of fiber optic cables for internet expansion. The production of these pipes is particularly dependent on high precision and efficiency. battenfeld-cincinnati regularly sets new standards in this field with its innovative micro- and multiduct extrusion lines. The continuously optimized line- and process technology of battenfeld-cincinnati's turn-key production lines high-precision, flexible as well as economical production of cable ducts and pipe bundles, for instance at high production speeds.

battenfeld-cincinnati is a recognized innovation leader in the field of turn-key extrusion technology and stands for high reliability and outstanding product quality in plastic pipe production for decades. With its current line technology for microduct pipe extrusion, the company is once again setting standards in the industry.

Many clever solutions from the machine manufacturer are used simultaneously in the extrusion lines for the production of high-quality micro- and multiducts. The company has always relied on customer-friendly turnkey solutions: The entire line comes completely from a single provider. All components are optimally configured to match each other and customers benefit from a central contact partner for all questions relating to line- and process technology.

With its uniEX and soLEX single-screw extruders, battenfeld-cincinnati can offer the ideal extruder combination for every application. A large selection of tailor-made processing units with individual screw designs and wear protection options always guarantees best melt qualities, long service lives as well as very low energy consumption.

The freshly redesigned coEX II extruder series is specially designed for the production of functional layers as well as color stripes.

Meanwhile, the latest generation of the patented helix II VSI extrusion die series ensures yet another optimized layer distribution and guarantees a smooth production process. Deposits in the die head are efficiently avoided, and material dwell and color change times are reduced to a minimum. In particular, fast inline changes of strip geometries and -color enable pipe manufacturers to optimize their production planning and save costs. The production of single-layer or multilayer pipes, as well as pipes with smooth or rippled inner surfaces, can also be realized without any problems. By using an optionally available adjustable melt gap, producers can compensate for negative external influences on pipe quality at any time during the production process, such as those that can arise from the use of different materials or also temperature influences, and thus achieve the best pipe qualities even more efficiently.

For the production of pipe bundles (“jacketing line”), the company relies on the proven coat die series, which is also equipped with the patented VSI distributor concept. In combination with water-cooled die inserts, sticking between the individual cable pipe and the usually very thin jacket layer is prevented.

Extrusion lines from battenfeld-cincinnati also impress with their excellent line design. For example, very efficient full-bath cooling tanks, pipe dryers specially developed for high-speed extrusion, and state-of-the-art haul-offs are used in the production of micro ducts. The modular line concept and globally networked production sites enable the implementation of cost-optimized lines for the production of standard products, but also customized special solutions can be realized easily with only a few additional efforts.

In addition, battenfeld-cincinnati customers have access to the entire range of winding- and unwinding solutions available on the market. This makes the innovative cable duct lines ideal for all conceivable cable ducts for telecommunications, power- and fiber optic cables.

Another interesting highlight is the BCtouch UX machine control system, with integrated OPC UA server ready for Industry 4.0 applications. The intuitive operation sets standards here.

The 19" touch screen display makes it possible to see all relevant process parameters at a glance. The machine control system from battenfeld-cincinnati offers a wide range of options for customizing the user interface, so that every machine operator has access to exactly the information and setting options that are needed at any given time. Thanks to integrated line tracking, the delivery of defective pipes is effectively prevented.

The optionally available maintenance monitoring also ensures transparency in the planning, execution and follow-up of necessary maintenance work as well as repair work that has been carried out.

"We want to offer our customers everything: the highest quality in components and results, very good energy efficiency and high production speeds. With our new extrusion lines, we achieve this. In addition, our first-class after-sales service ensures that our customers continue to receive support after purchase. This is how we keep our solutions up to date in the future," emphasizes Managing Director Gerold Schley.

battenfeld-cincinnati's state-of-the-art extrusion lines are a proven reference in the global market. The company has many years of experience and comprehensive know-how in processing technology for microduct pipes and multiduct pipe bundles. Leading pipe manufacturers and especially those specializing in high-speed microduct production have relied for years on the innovative technologies and processing know-how of the full-range supplier from Bad Oeynhausen. With the new cable duct production lines, battenfeld-cincinnati is once more setting standards in plastic pipe production.

About battenfeld-cincinnati:

battenfeld-cincinnati is a leading manufacturer of energy-efficient and high-performance extruders and complete extrusion lines according to customer-specific requirements. battenfeld-cincinnati offers tailor-made solutions for a wide range of applications in the field of pipe, profile, sheet, thermoforming sheet and pelletizing from a large portfolio of single- and twin-screw extruders, dies, downstream equipment, calanders and calander feeders.

Customers are served by production sites in Germany, Austria, China and the USA, as well as a comprehensive global sales and service network.

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