

PRESS RELEASE

Meeting extrusion challenges with higher performance, lower energy costs and more flexibility

At booth number W2771 at NPE, battenfeld-cincinnati USA will show the soLEX NG and conEX NG extruder series for the first time on the US market. These are equipped with the Industry 4.0 compatible BCtouch UX control that also makes its debut in the US.

conEX NG: conical twin screw extruders for high flexibility, low energy costs and easy operation

PVC processors today need to offer a wide range of products and are thus faced with a variety of different meter weights and output requirements.

The conEX NG has a highly flexible design. There is one basic machine model for both pipe and profile production. The extruder's screw core fits all screw tempering systems and the gear box design allows several different motor positions (U or Z version). Processors can also choose between different barrel tempering and dosing systems. Thus, a wide range of outputs can be covered with one machine. Gentle plastification is ensured and the machines can work with process pressures up to 520 bar (7,500 psi), which are required when producing small or thin-walled profiles, or when using regrind and recycled materials in co-extrusion. Thanks to minimized residence times and quick cleaning, color changes can also be effected much faster, which saves material.

Thanks to the complete thermal insulation of the barrel that minimizes radiation losses and by using reluctance or synchronous motors, the conEX NG offers energy savings of up to 20%.

conEX NG extruders are available in three sizes (42, 54 and 65 mm), with outputs from 35 to 250 kg/h (80 to 550 lb/hr) for PVC profile and WPC/NFC, and from 50 to 450 kg/h (100 to 1,000 lb/hr) for PVC pipe. Several different space-saver or column designs are available for co-extrusion. These can be adapted to every main extruder through improved height and tilt adjustment facilities.

soLEX NG: single screw extruders for higher performance, better quality and lower energy consumption

Processors need large production capacities to fulfill their orders. The soLEX NG has a completely redesigned screw feed section with a significantly lower pressure profile. This ensures high specific outputs, fast process start-ups at low screw torques and no conveying instabilities, even at high back pressures of up to 500 bar

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(7,200 psi), which are needed, for example, for the production of corrugated pipes. Thanks to the new processing unit, a reduction of melt temperature by approximately 15-20 degrees Fahrenheit is possible.

Therefore, the cooling length can be shortened as cooling baths need to remove less heat. Alternatively, for nearly all products, it is possible to increase line speed with the same cooling length, resulting in up to 20% higher outputs. Lower melt temperatures at a consistently high level of melt homogeneity also result in better product quality – e.g. through reduced sagging, which is particularly important for thick-walled or large-diameter pipes.

Pipe producers operate under high cost pressure, which makes energy and material savings crucial for efficient production. The solEX NG series needs up to 15% less energy, because it operates with less drive power and lower energy losses. Thanks to the grooved barrel and corresponding lower pressure profile, energy savings can be achieved by reduced barrel cooling. The machines' excellent processing characteristics, combined with special wear protection solutions for the processing unit, result in material and maintenance cost savings.

The extruders from the solEX NG series come in four sizes (60, 75, 90 and 120 mm, 40 L/D) and with up to 20% higher outputs for each machine size, from 1,000 to 2,500 kg/h for HDPE (2,000 to 5,000 lb/hr) and from 750 to 1,800 kg/h for PP (1,650-4,000 lb/hr).

Join us for a comprehensive look at our solutions for your production needs. We look forward to seeing you at NPE, booth number W2771.

About battenfeld-cincinnati USA:

battenfeld-cincinnati USA was established in 1977 and is based in McPherson, KS. With some 60 employees, it supplies extruders and extrusion dies adapted to the American market, and designs and services complete PO and PVC pipe and profile extrusion lines. In 2017, battenfeld-cincinnati USA celebrated its 40th anniversary.

Web: www.battenfeld-cincinnati.com

Youtube: www.youtube.com/BattenfeldCincinnati

Photos:



conEX NG 65: flexible, energy-efficient PVC processing with the new BCtouch UX control system



A conEX NG 54 co-extruder for flexibility in co-extrusion



solEX NG: high-performance PO pipe extrusion of all sizes from micro ducts to large-diameter, thick-walled pipes up to 2.6 m

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