



soLEX GL

The gearless single screw extruder for the most stringent demands

battenfeld-cincinnati 

soLEX series – customized solutions for the most stringent demands

The proven soLEX single screw extruder series from battenfeld-cincinnati offers top performance in terms of throughput and melt homogeneity for PE-HD and PP pipe extrusion. It is also ideally suited for corrugated pipe extrusion. While using a proven modular system, we also provide options to fulfill our customers' individual wishes and meet their needs with customized solutions. The soLEX series offers highest outputs with an optimal price-performance ratio.

soLEX GL – with high-torque drive concept

With its new soLEX GL (GL = gearless) single screw extruder series, battenfeld-cincinnati offers an alternative drive concept without gears. Instead, a frequency-controlled, high-torque AC motor is used to drive the screw, with the screw and the motor's output shaft forming a single line. Both the motor itself and the frequency converter are water-cooled. The extremely smooth running of the motor ensures vibration-free extrusion with a low noise level even at high screw speeds. The high-torque AC motor has a high degree of efficiency at all levels – even under partial load. Since the drive of the soLEX GL series operates without gears, all those energy losses caused by any gear transmission system, such as flange loss or heating, are also eliminated. Due to its higher degree of efficiency, the water-cooled, high-torque AC motor shows a higher energy efficiency than the combination of a gear transmission system with an AC motor, which is normally used. This is why the soLEX GL extruder ranks among the most economical machines in its class in terms of energy consumption. Thanks to the use of high-torque motors, soLEX GL extruders are equally attractive due to their small footprint and easy maintenance.

Our offer:

- ✓ High-end single screw extruder for pipe extrusion
- ✓ Water-cooled, high-torque AC motor for low energy consumption
- ✓ Reduced number of drive components
- ✓ Compact design
- ✓ Specially suited for PE and PP

Your advantages:

- ✓ Outputs of up to 1,500 kg/h
- ✓ Virtually no expense for maintenance (no motor air filter servicing, no gearbox oil change) and consequently cost savings
- ✓ Operation at low noise and vibration levels
- ✓ Higher degree of efficiency in the extruder's drive chain thanks to high-torque motor technology
- ✓ Smaller footprint with easy access



High-torque motor of the soLEX GL extruder

soEX GL outputs in smooth pipe extrusion

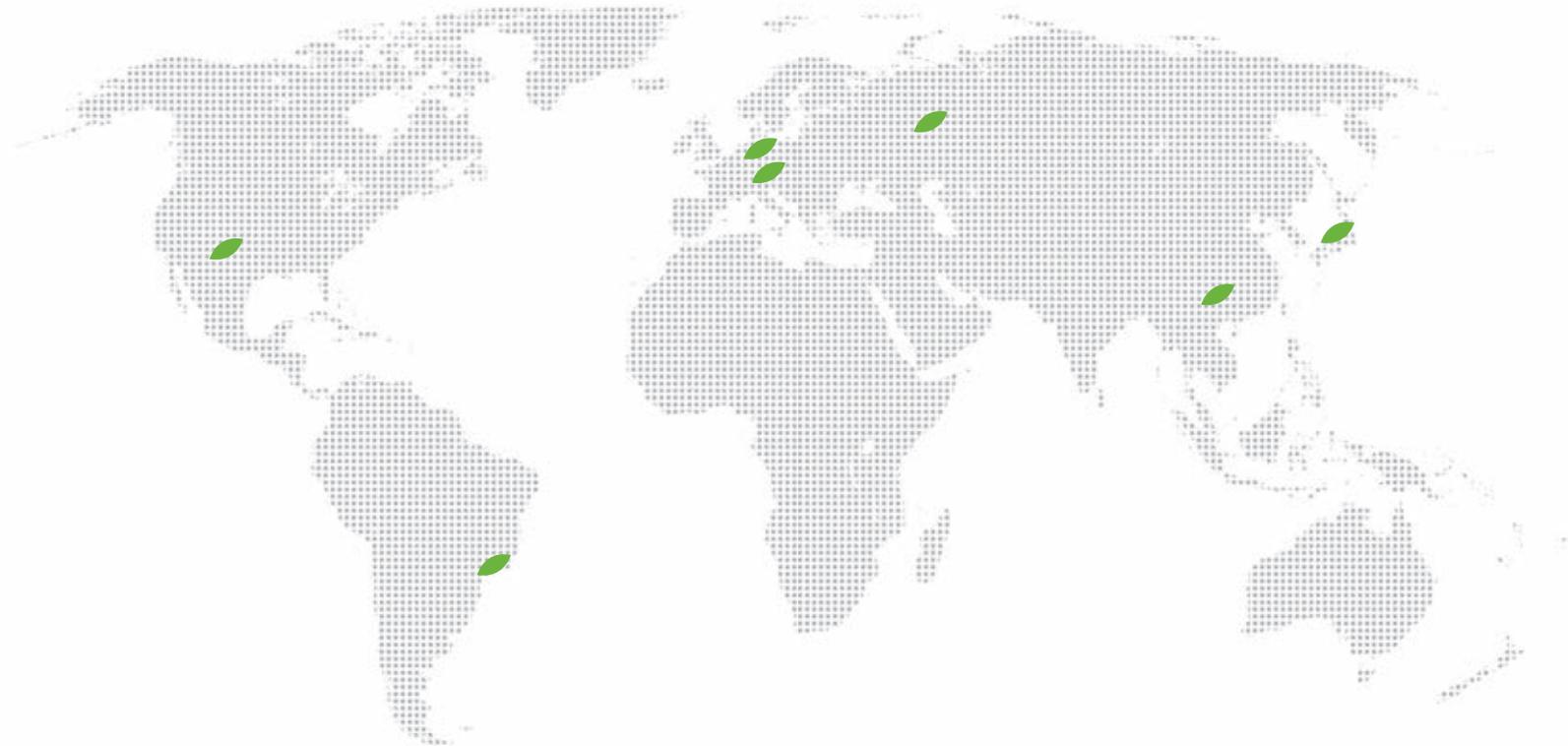
soEX GL single screw extruders offer outputs in PE-HD smooth pipe extrusion ranging from 500 kg/h for the 45 mm size to 1,500 kg/h with a 90 mm screw diameter.

soEX GL (gearless)	soEX 45-40 GL	soEX 60-40 GL	soEX 75-40 GL	soEX 90-40 GL
PE-HD output kg/h	500	800	1,200	1,500
PP output kg/h	300	550	800	1,000

Outputs may vary depending on materials used, upstream and downstream equipment. All outputs specified above are warranty outputs. The output figures quoted are based on the battenfeld-cincinnati materials reference list.



soEX GL extruder from the rear



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