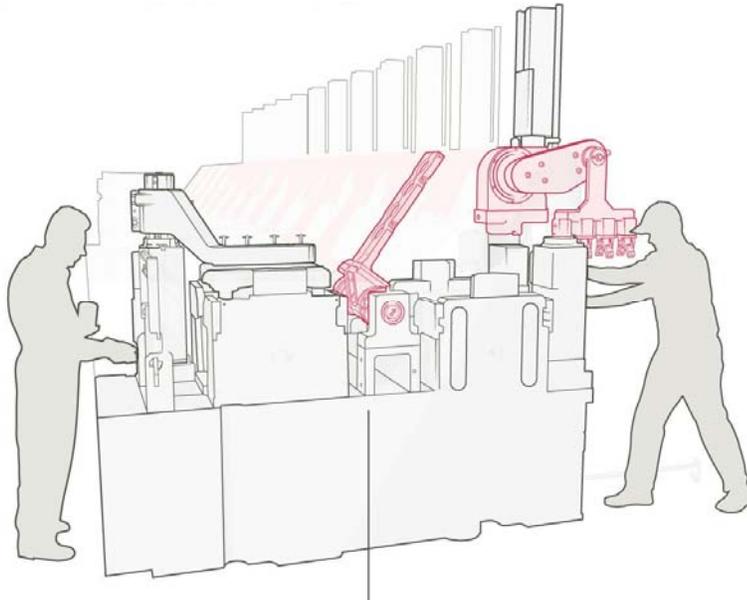


Technical News Bulletin

Switzerland, March 2020

A New Standard for all BEG Forming Machines



All new forming machines delivered by Bucher Emhart Glass are now equipped with Servo Electric Invert (SEI), Servo Electric Take-Out (SETO), and Manual Mode operation.

This mandatory standard package enhances performance and safety.

More than 80% of our forming machines are equipped with SEI and SETO. An undeniable fact of the servo technology superiority, outperforming the inaccurate pneumatic technology, requiring hydraulic constant cushioning system to manage the end positions. Servo technology allows to precisely control the entire motion, reaching higher fully controlled speeds and producing significant less defect. By storing all the settings in the job file, there is no need for operator re-adjustment.

Manual Mode is a safety feature developed with FlexIS 3, which supervises the speed of the two servo mechanisms. It ensures that the SEI and the SETO move with controlled limited speed when operators use the **two hand** operation to interact with the section. This unique patented method to safely separate the blank and blow side operation allows an operator to interact with the blank side in **Manual Mode** while another operator activates mechanisms in **Manual Mode** on the blow side.

Under these conditions, it is not necessary to activate Maintenance Stop when working in the section. Simply activating Manual Mode on the specific section side allows co-active work from both sides of the section, thus reducing downtime during a job change.

Availability / Application

Standard on all new forming machines delivered with FlexIS 3 forming control system.

Standard on all section exchanges delivered with FlexIS 3 forming control system.

Available as an upgrade package for machines without SEI, SETO, and FlexIS 3 forming control system.

Installation Requirement

For new forming machines with FlexIS 3 forming control system, refer to Bucher Emhart Glass installation documentation.

For upgrade package, contact Bucher Emhart Glass for a specific feasibility audit.

Features / Benefits

| Features | Benefits |
|---|--|
| Servo Electric Invert Controlled and precise operation | Undisputed higher performance, up to +1 to 2% Pack-to-Melt. Precise setup saved in the job file Fully controlled motion for less defects |
| Servo Electric Take-Out Controlled and precise operation | Undisputed higher performance, up to +1 to 2% Pack-to-Melt. Precise setup saved in the job file Fully controlled motion for less defects |
| Manual Mode with FlexIS 3 Controlled slow speed of SEI and SETO | Safe interaction with the section mechanisms. Blank and blow side coactivity on the same section Reduced downtime. |