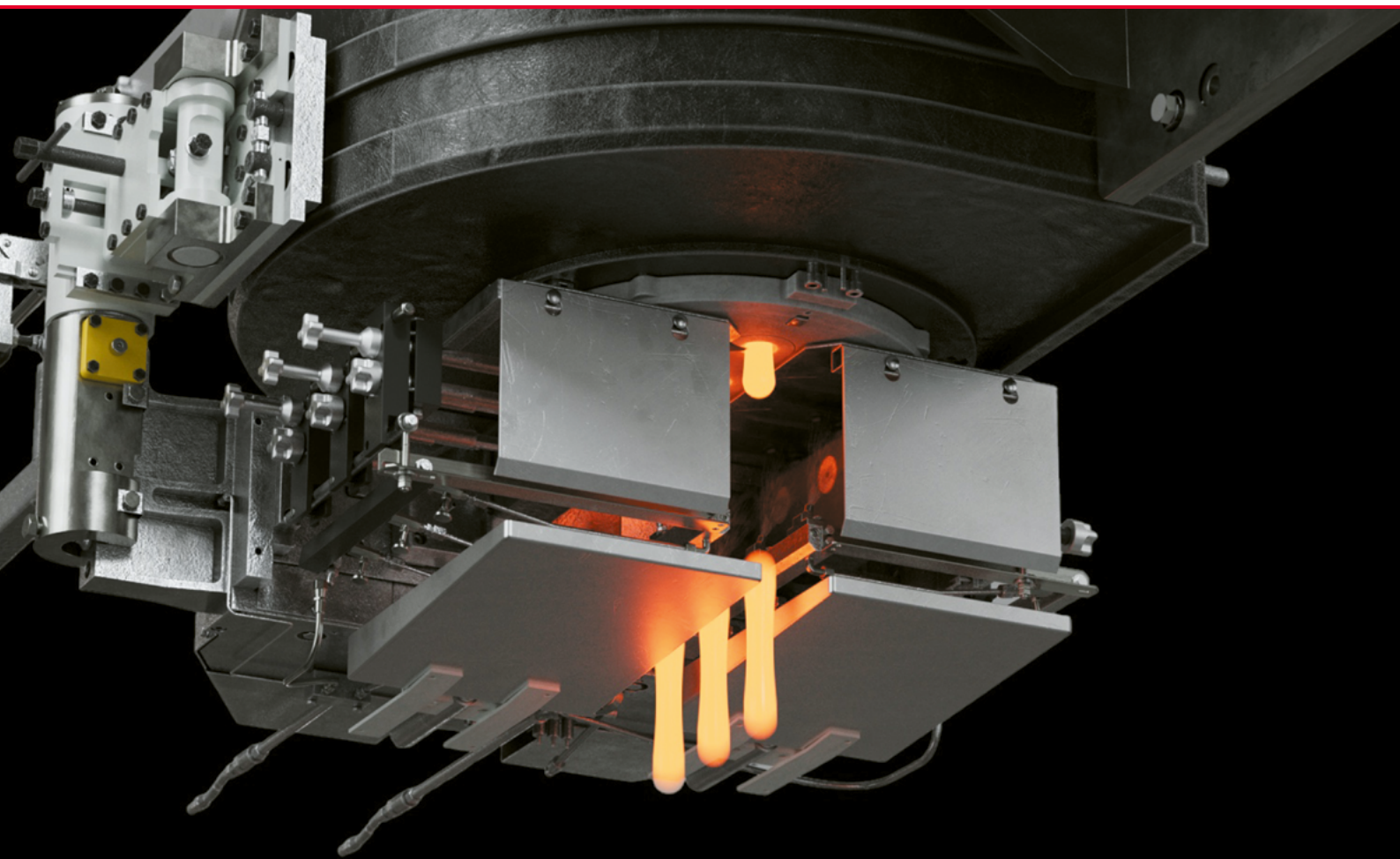


BUCHER
emhart glass

SMARTFEEDER

FULL GOB CONTROL



Create and maintain your desired gob automatically

The SMARTFEEDER is the latest development to automatically adjust the gob forming process to your needs, consisting of:

- GobRadar as a measurement system
- Advanced gob forming hardware -
575 Dual Drive Shear and 570 Multi-Drive Feeder Plunger
- Gob Control Closed Loop

Prerequisite: FlexIS 3 machine control -
upgrade paths available

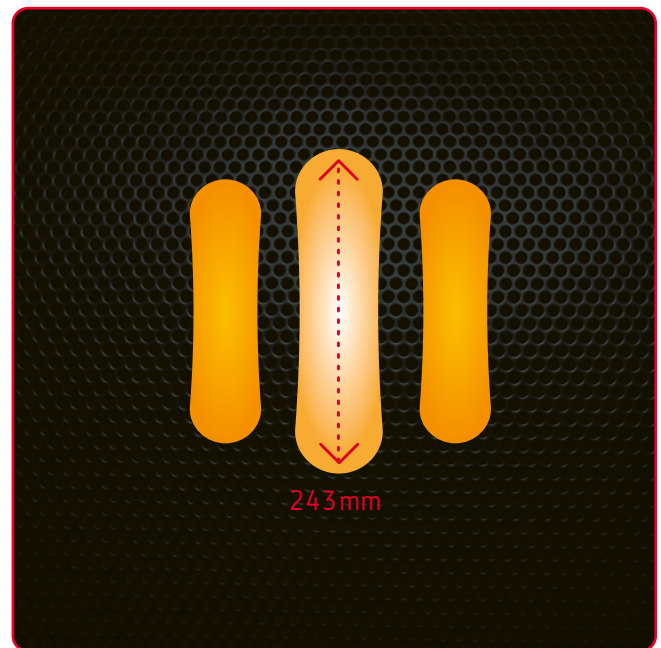
Gob Control Closed Loop

SMARTFEEDER enhances process stability, simplifies startup procedures following job changes, and facilitates multi-article production.

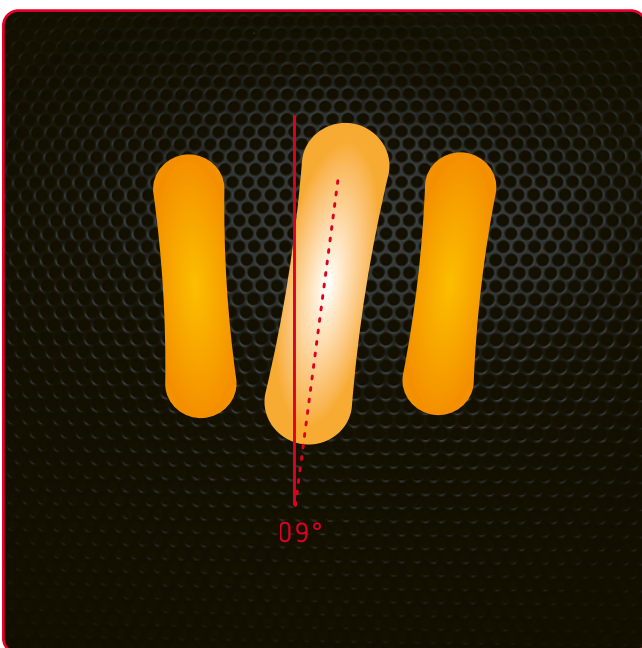
With SMARTFEEDER, you can establish parameters for your needed gob design. The Gob Control Closed Loop subsequently fine-tunes any deviations per cavity, catering to the requirements of multi-article production.



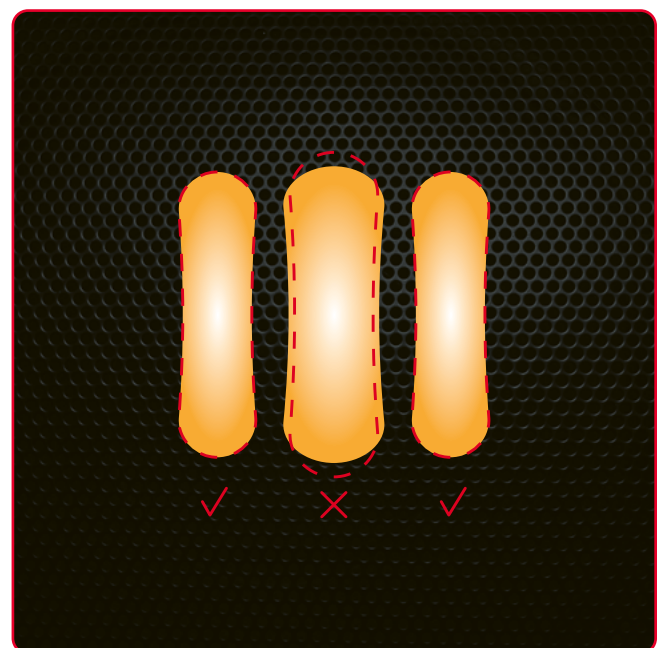
Gob Weight



Gob Length



Gob Tilt



Gob Shape

Benefits of the SMARTFEEDER

Improving efficiency and speed

Reduced job change time.

Improved start-up after a job change.

Gob parameters from the previous job can be stored, retrieved and maintained automatically throughout different conditions

Overcoming the knowledge gap

Less reliance on experienced operators to adjust the gob forming process. Automatic adjustments are independent of operator experience and result in a more consistent forming process.

Greater control from the start

Gob weight and length are automatically adjusted for each process individually.

Easy gob forming for single and multi-article production.

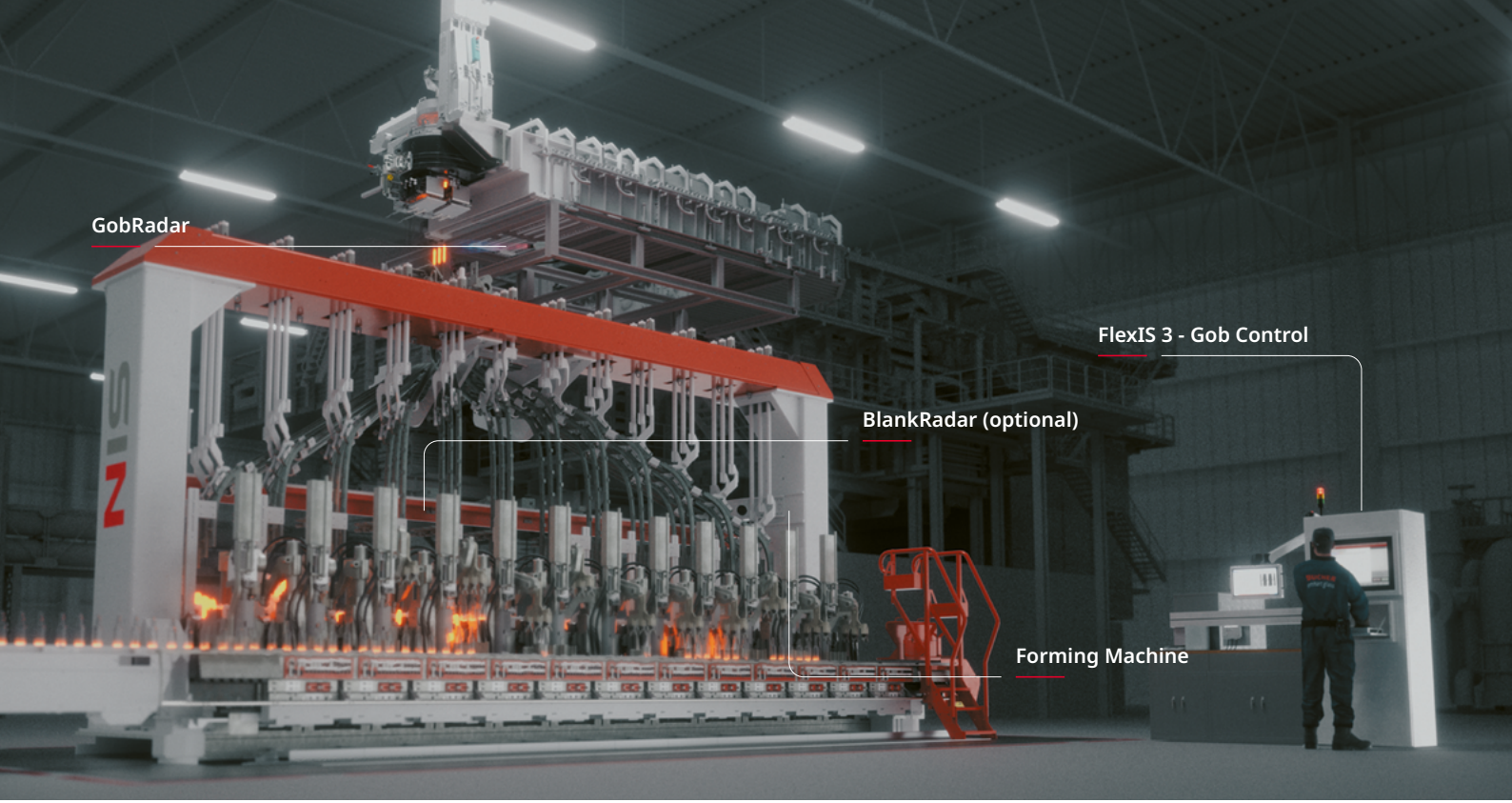
Greater consistency across jobs

Gobs are perfectly replicated even under varying conditions.

There is no need to change the calibration between jobs unless specific conditions related to the feeder have drastically been changed.





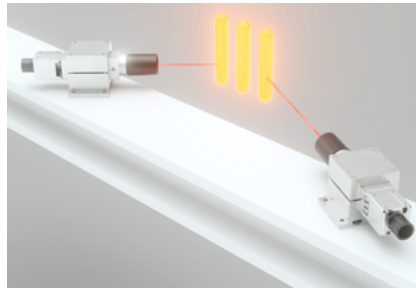


SMART equipment



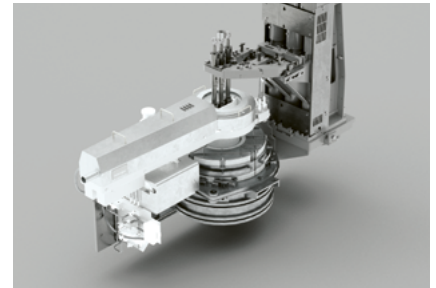
FlexIS 3 and Gob Control Closed Loop

The operator inserts desired gob parameters on the intuitive user interface of the FlexIS 3 control system. The Gob Control Closed Loop then utilizes data from GobRadar to monitor and adjust the process accordingly, ensuring precision in meeting the set parameters.



GobRadar

The GobRadar, a camera-based sensor system, utilizes two high-speed matrix cameras on the feeder platform to observe and measure each and every gob post-cut. These cameras capture images from different angles, creating a 3D model for each gob. Real-time data, encompassing Gob Weight, Length, Diameter, Angle, Position, Trajectory, Shape, Freak Detection, and Temperature, is sent to the Gob Control Closed Loop for continuous monitoring and adjustment to meet desired parameters.



Multi-Drive Feeder

The 570 Multi-Drive feeder enables independent control of feeder needles, forming the foundation for the Gob Control Closed Loop to individually adjust each gob per cavity. This system aids in compensating for glass inhomogeneity in the spout. The servo drives are directly controlled by PPC or Gob Control increasing production stability.

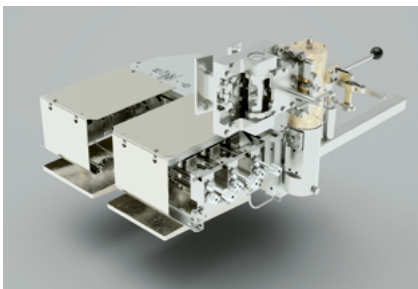
555 Revolving Tube

570 Multi Drive Feeder Plunger

575 Dual Drive Shear

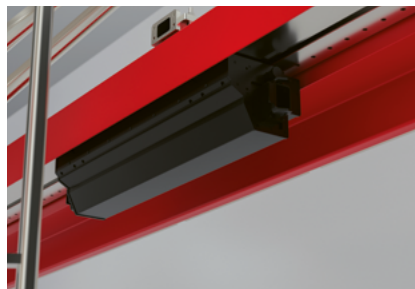
GobRadar

for SMART feeding



575 Dual Drive Shear

The 575 Dual Drive Shear is engineered for rapid cutting at speeds up to 220 cuts per minute, enhancing gob loading by optimizing gob trajectory and minimizing tilting and deformation.



BlankRadar (optional)

Installed on the blank panel of the forming machine, the BlankRadar serves as a gob loading monitoring system, besides its proven temperature control functionality. It provides additional data for the Gob Control Closed Loop. These data will be utilized to maintain the desired parameters automatically, per cavity.

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