GobAssist-BTC

Hot End sensor solution
for monitoring and controlling
of gob loading and temperature
of the blank mould, neck ring,
plunger and parison

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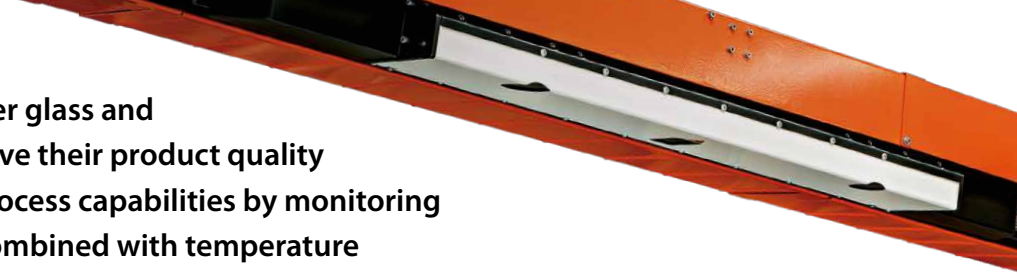
heading for perfection



The GobAssist-BTC assists container glass and tableware manufacturers to improve their product quality and increases the glass forming process capabilities by monitoring and controlling the gob loading combined with temperature measurements of the blank mould, neck ring, plunger and parison for each individual cavity.

GobAssist-BTC operating principle

The GobAssist unit observes the gob trajectory after the gob exiting the deflector until it enters into the blank mould. With two high speed camera gob speed, length, time-of-arrival, loading position and gob shape are measured. Moving the camera unit continuously from section to section these measurements are repeated every 15-20 minutes.

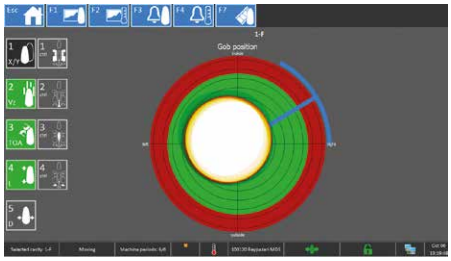
In the same unit the BTC (Blankside Temperature Control) measures temperatures of mould materials and – uniquely - of glass as well. Of each cavity it measures one or more positions on the blank mould, neck ring, plunger and parison.

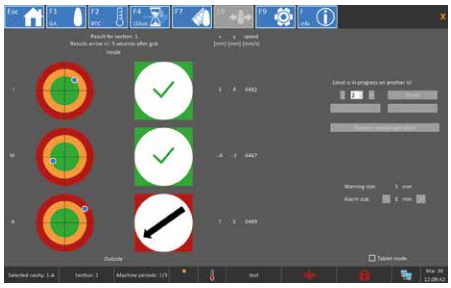
A simple user interface allows for real time corrective action. At the same time the effect on the glass distribution of the product is visualized by IR-D system.

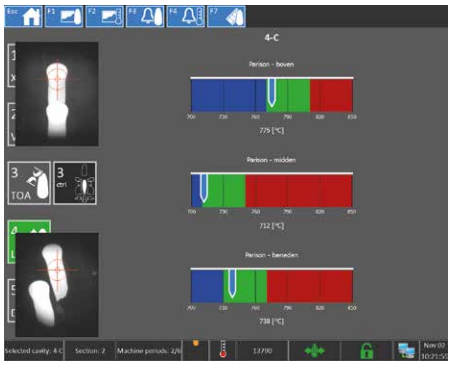
The GobAssist-BTC ensures to find, to maintain and to retrieve the optimal loading and temperature distribution within seconds, eliminating two most important sources of process variation and minimizing critical defects related to bad loading or bad temperature distribution.

GobAssist-BTC open data interface

XPAR Vision enables open data connections to standard and proprietary Production Information Systems to present and correlate real time hot end information in combination with other production data from furnace, feeder, Cold End inspection and laboratory systems.







Uniquely the XPAR Vision GobAssist-BTC is integrated with major IS-machine timing systems to enable closed loop interfaces for automatic Mould Cooling and Glass Distribution control.

XPAR Vision partner in implementation

An important part of all XPAR Vision Hot End solutions is the customized implementation program with training, assistance and support from XPAR Vision's consultants, who bring many years of expertise in glass forming. This ensures an embedded and sustainable implementation resulting in increased performance and higher product quality.

GobAssist-BTC capabilities

- Real-time cavity related data collection
- Entrance position of the gob into the blank mould
- Speed of the gob
- Time of arrival
- Gob length
- Gob shape
- Blank temperature
- Neck Ring temperature
- Plunger (NNPB) temperature
- Parison temperature
- Single, double, triple and quad gobs support
- Multi product support
- All glass colours
- Round and non-round ware
- Blow-Blow process support
- Press-Blow process support
- Wide Mouth Press & Blow process support
- NNPB process support
- IR-D integrated reject functionality of bad ware

XPAR Vision systems powered by

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