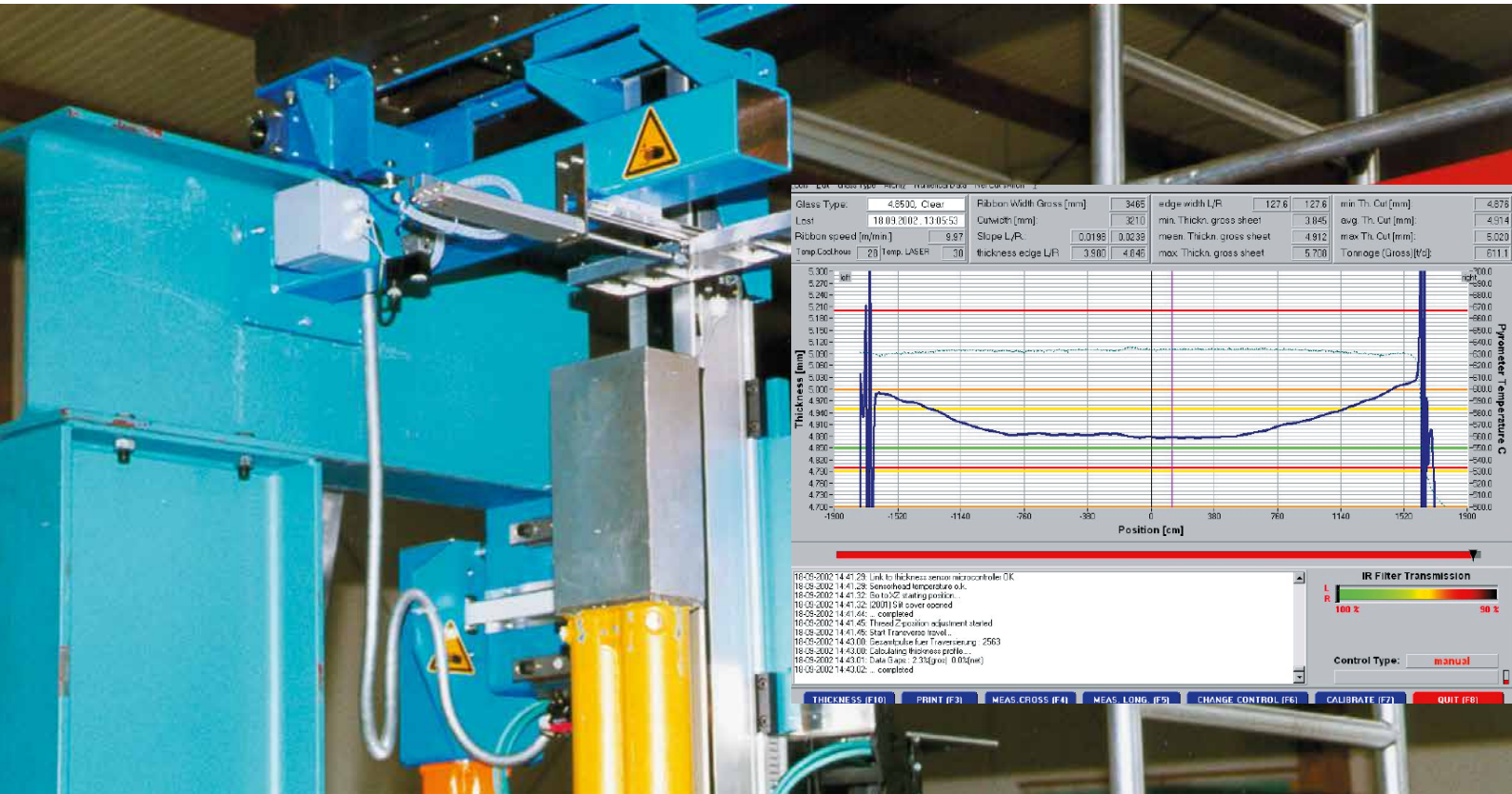


FLOATSCAN-Hotgauge

Thickness Measurement at the Hot End



Measurement Task

Accurate and reliable thickness and width measurement is essential in modern glass production. The FLOATSCAN-Hotgauge is based on an optical measurement that guarantees maximum precision. The thickness measurement takes place at the earliest possible measurement location, right after the floatbath or immediately upstream of the annealing Lehr. Because of its outstanding reliability and accuracy, the system is a major contributor to increased production.

The system is based on the well-known principle of double reflection of glass surfaces. The bidirectional measurement takes place in flow direction. Using solid-state lasers combined with a self-testing and calibration, this sensor achieves its outstanding performance. The sensor head moves across the ribbon on the solid linear gantry.

Advantages:

- Earliest possible online thickness and width measurement of the ribbon
- Supreme accuracy allows for thickness control closer to the lower tolerance level
- Reduced profile losses when production close to lower tolerance limit
- Reduced edge losses by accurate ribbonwidth measurement

User-friendly and modern operations

The user-friendly operator-interface combines easy system operation and modern process visualization. FLOATSCAN-Hotgauge includes automatic operation, e.g. continuous cross or length profiling as well as powerful displays like profile diagrams, color-coded maps and trend displays. The interfacing to FLOATSCAN-QIS allows long-term data storage and analysis.

Features:

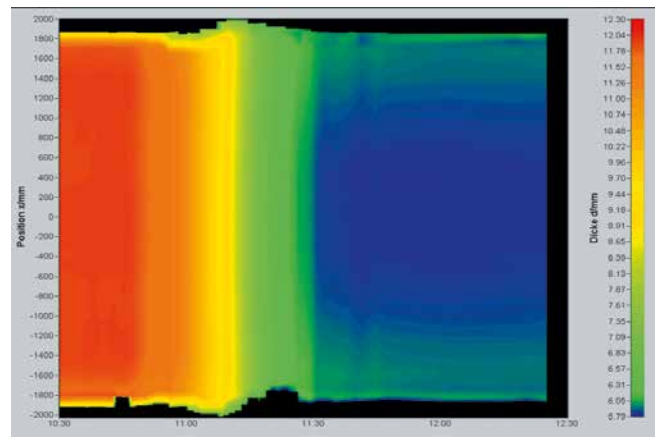
- Thickness measurement of the entire glass ribbon right after the floatbath
- System can be installed above (top version) or beneath (bottom version) the glass ribbon
- Supreme accuracy up to 0.0015 mm
- Integrated temperature measurement via pyrometer (optional)
- The top version system FLOATSCANColdgauge can be installed at the cold end (see separate product info)
- Tele-Service, Tele-Training and Hotline

System Features:

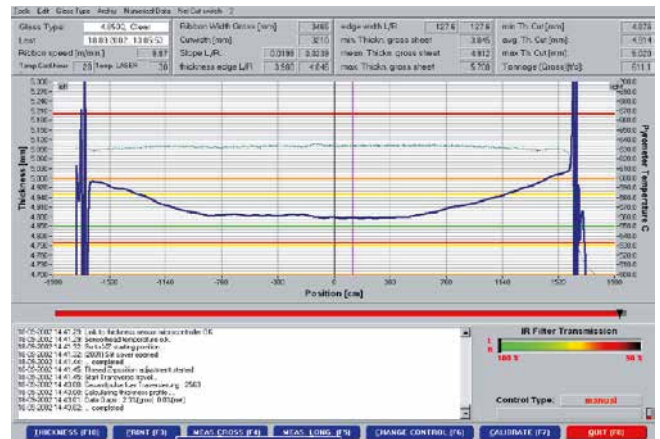
- Absolute thickness profile with compensation of glass temperature
- Determination of ribbon width (gross and net width)
- Measurement of ribbon position
- Determination of tonnage (gross and net tonnage)
- Continuous cross or length profiling
- Trend-displays
- Color-coded maps
- Interface for the FLOATSCAN-QIS database (Quality Information System)

Technical Data

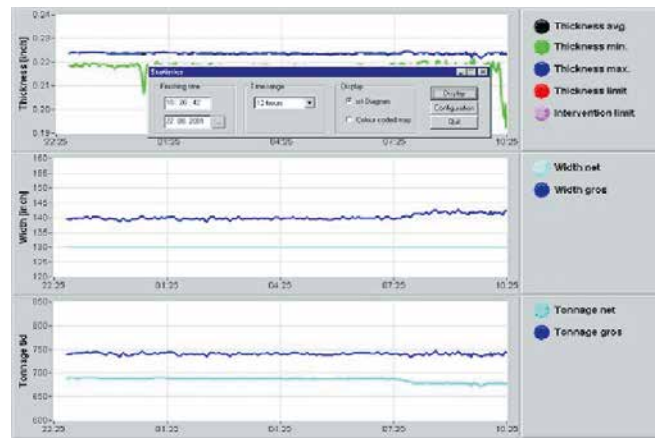
Measuring range	0.8 – 20 mm, Option 32 mm
Glass transmission	> 35 %, Option > 8%
Measuring resolution	0.1 µm
Spatial resolution	1 mm
Approx. cycle time	90 s (50 s at high speed mode)



Color-coded map of thickness change



Thickness profile



Trend display

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