



Vision in Glass, Vision for Glass

DECO 26

April 2026

Making Technology “Work”

Industrial inspection products designed and developed to meet the needs of the target market, using technology to simplify operation and make a system that “Works”.

Mike LAWN

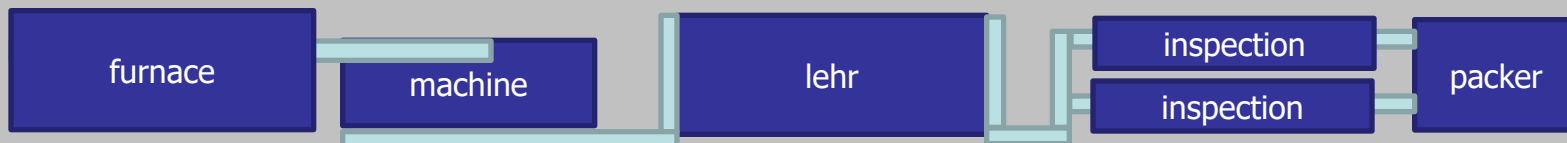
Guillaume BATHELET

Simple Cost Effective Solutions for Your Inspection Needs

FORMING

Hot-End		Annealing	Cold-End	
batch furnace	forehearth feeder forming	annealing	quality monitoring	packing

Hot-End issues		Annealing issues	Cold-End issues
formular consistency contamination temperature refractory	timing temperature swabbing (lube) machine faults handling	pre-heating stage cooling contamination handling	handling



❖ Online Inspection Systems

- Critical part of the manufacturing process to detect and recycle defective ware

Squeezer	New Check Detector				SYNC-BFM	SYNC-SD
freaks	chokes dips saddles	checks splits	thin-wall dimensional mold-reading		blemish stress dimensional mold-reading	blemish stress dimensional



CHECK DETECTOR

The new Check Detection system is a multi-function mechanical system offering robust construction, improved inspection performance and easier setup.

Check Inspection (finish body and heel checks, cracks, line-over)

Plug and Dip (dip, bore, chock neck, saddle, low fill)

Wall Thickness (thickness)

Mold Reader (process monitoring, mold select)



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SYNC-BFM

Ware handler capable of mounting all available options for base finish and mold number reading.

Finish Inspection (cracks, chips, blisters, line-over, over-press, wire-edge, other surface defects)

Base Inspection (cracks, blisters, stones, tramp glass, contamination, spikes, other base defects)

Base Stress Inspection (stones, annealing)

Mold-Reader (process monitoring, mold select)



Simple Cost Effective Solutions for Your Inspection Needs

SYNC-SD

A compact non-contact sidewall system capable of high-quality blemish (up to 6 cameras + 6 enhanced), dimensional, and stress inspection (up to 4 cameras)

Side-wall Inspection (cracks, blisters, stones, heavy mold seams, tears, saddle-waves, wash-board, contamination, fused wear, stuck glass, knock-outs, ..., other side-wall defects)

Side-wall Stress Inspection (stones, annealing)

Side-wall Dimensional (height, lean, bent-neck, slope diameter, bulge and sink, out-of-round)

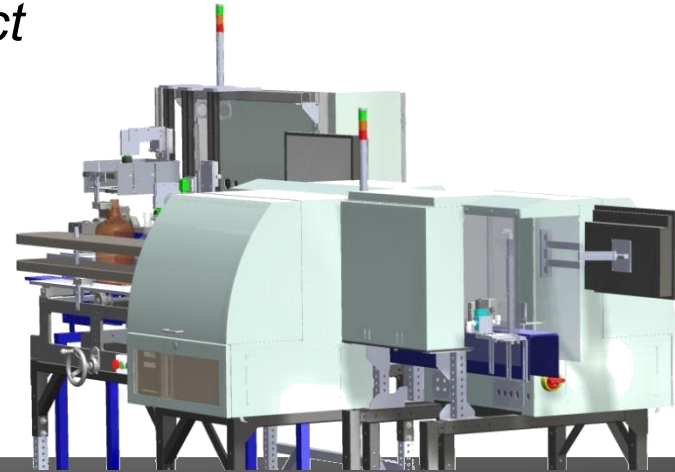


Simple Cost Effective Solutions for Your Inspection Needs

SYNC

Our modular systems can be provided as retrofits, standalone systems, or close-coupled equipment.

The SYNC-BFM, with ware handler, can be combined with the SYNC-SD to provide as complete inspection compact solution with full inspection capabilities and enhanced performance.



Simple Cost Effective Solutions for Your Inspection Needs

❖ Vision Inspection

- Hardware and software designed specifically for the challenges presented by glass
- 20 cameras with different views and illumination

❖ AI Machine Learning

- targeted defect detection
- defect classification (statistical reporting)

❖ Dimensional Process Monitoring

- sidewall (height, lean / bent-neck, off-level, diameter, bulge/sink)

❖ Smart-Data

- Long-term image storage (historical data with images)

❖ Customer Support

- critical to maintaining optimal performance

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The Unify AutoLab can be installed in the cold-end as a fully automatic sampling system.

Finish Gauge (all dimensions)

Body Gauge (all dimensions)

Wall Thickness

Inner Bore (bore dimension, choke)

Weigh Checker (weight)

Pressure Tester (integrity)

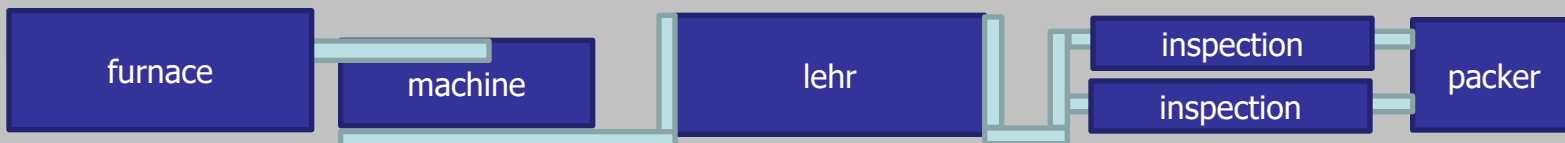


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❖ Quality Monitoring and Processes

- Checks and balances

Hot-End		Annealing	Cold-End
process monitoring (conventional and machine-learning) operation procedures full-life container traceability			
gob monitoring	hand gauging automatic gauging hot-end inspection	temp. monitoring coating gauging	hand gauging automatic gauging quality inspections dimensional monitoring long-term image storage



UNIFY-SG

A robust low-cost solution for semi-automatic end-of-lehr, Lab, or hot-end gauging with full data logging of all body measurements, including height, lean, slope/tilt, and multi-band diameter, body profile, and out-of-round/flat-seam.

The UNIFY Body gauge can be easily configured for all your containers

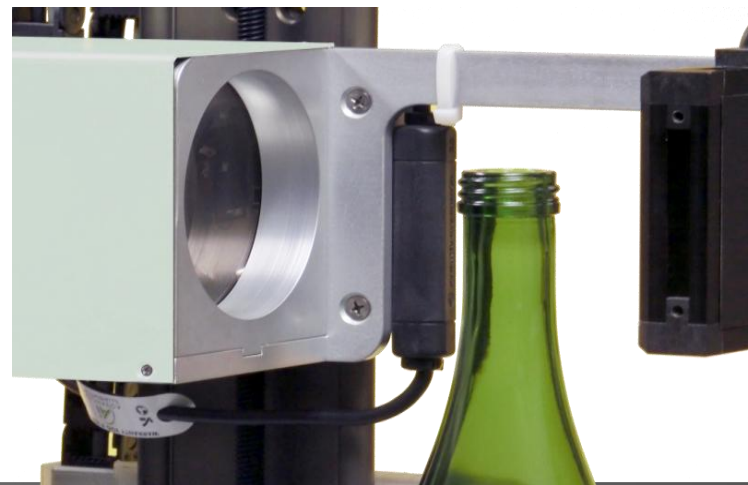


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❖ Bench-top UNIFY Finish Gauge to measure

- height / tilt
- T, E, and A dimensions
- D, D-angle and D-radius
- N dimension
- thread quality
 - radius/profile
 - low-fill/forming
 - lug spacing/lug stop, etc.

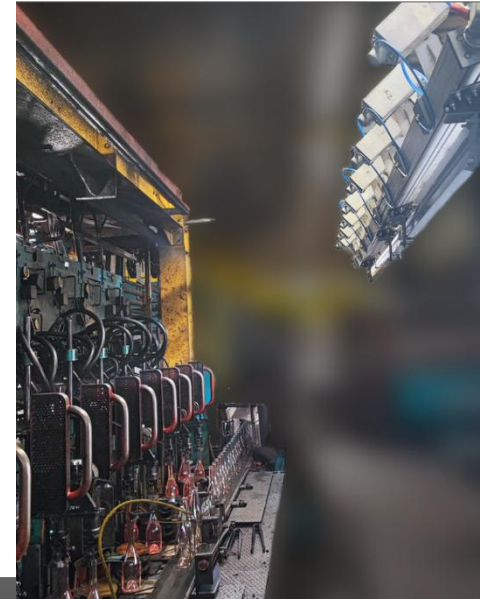
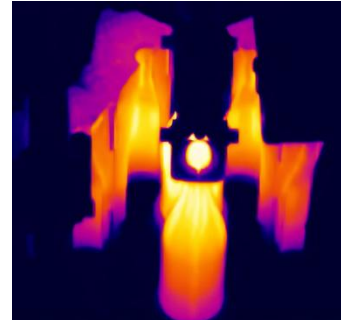
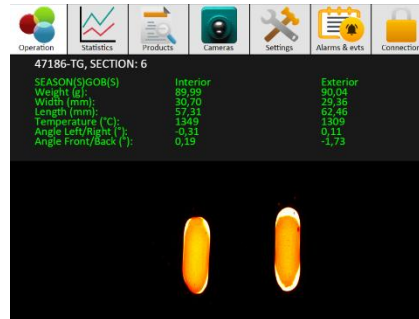
❖ For Hot-end, Lehr Quality Station or Lab



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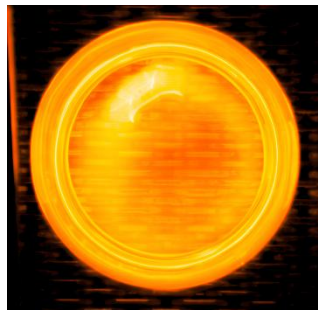
Spyro monitors forming machine temperatures to ensure optimal process control across all sections and molds.

Smart Gob monitors the temperature and shape of gib before it is loaded into the forming machine.



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Trinity offers a solution to detecting critical defects prior to entering the lehr, providing immediate feedback to the hot-end operators while forming.



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*A robust low cost solution for end-of-lehr, Lab,
or hot-end gauging of inner bore profiles.*



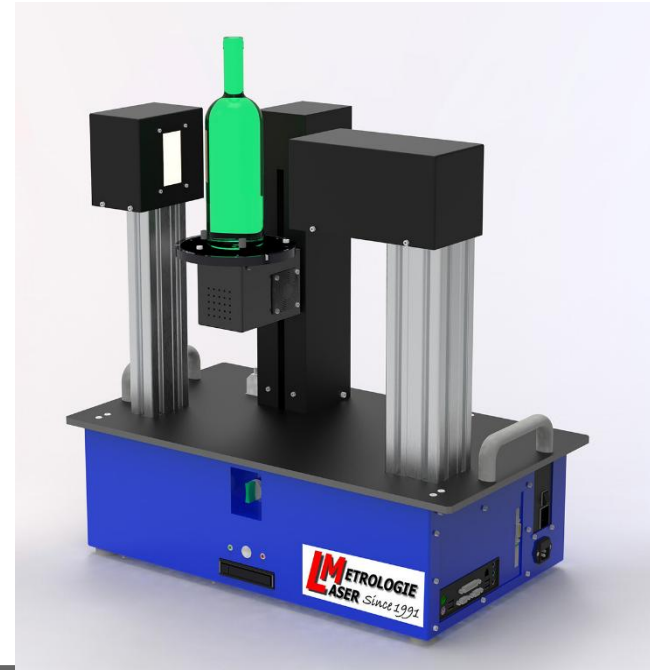
Simple Cost Effective Solutions for Your Inspection Needs

Hot-end Coating thickness measurement can be measured to nanometer accuracies with the table-top NANO or hand-held TIN READER systems.



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The original Laser Metrologie automatic seed count tool, providing repeatable and highly accurate results at a fraction of the time of manual measurement.



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We can offer a range of solutions to read data-matrix codes as part of your product traceability monitoring system.

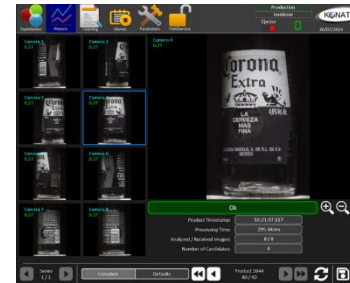
- *Code Verification*
- *Online Readers*
 - *Standalone,*
 - *Spinner,*
 - *in-Labeler*



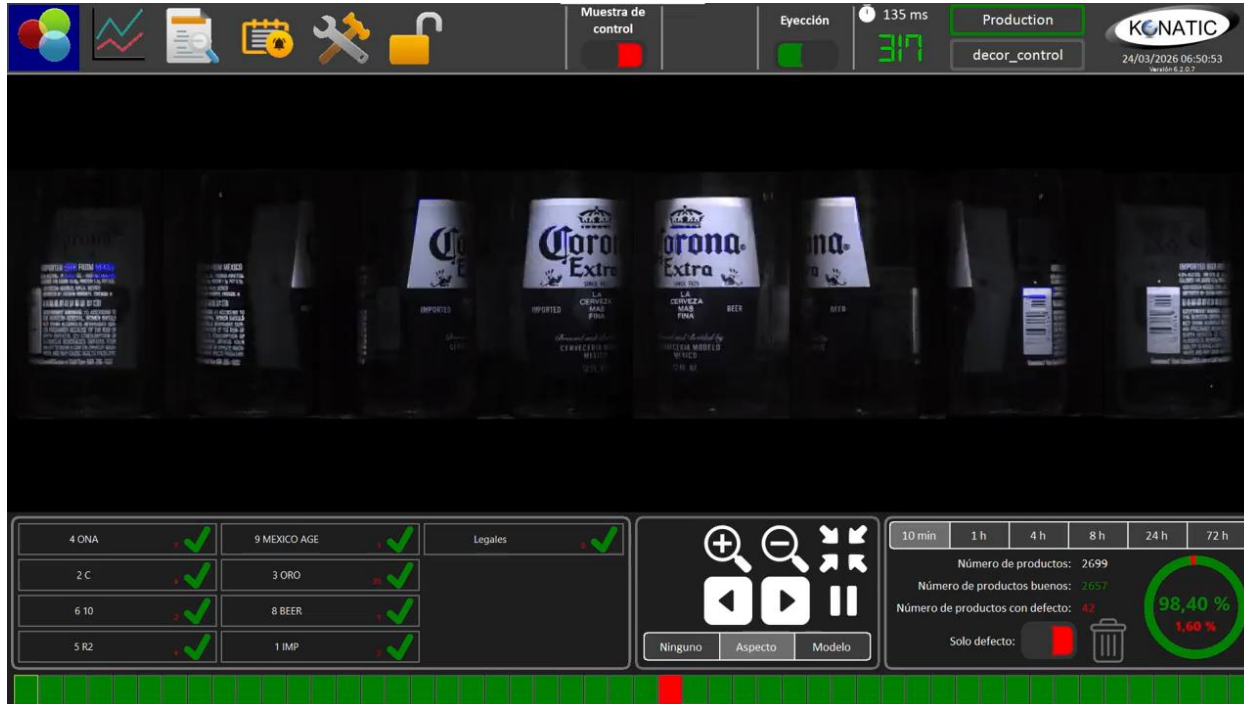
Simple Cost Effective Solutions for Your Inspection Needs

Hexagon is specifically designed for the Decorating sector and is designed to meet the challenges of screen print inspection on glass containers.

Hexagon offers 360 deg in-line reader with non-contact technology for ACL print inspection machine in glass plants or on filling lines.



Simple Cost Effective Solutions for Your Inspection Needs



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