



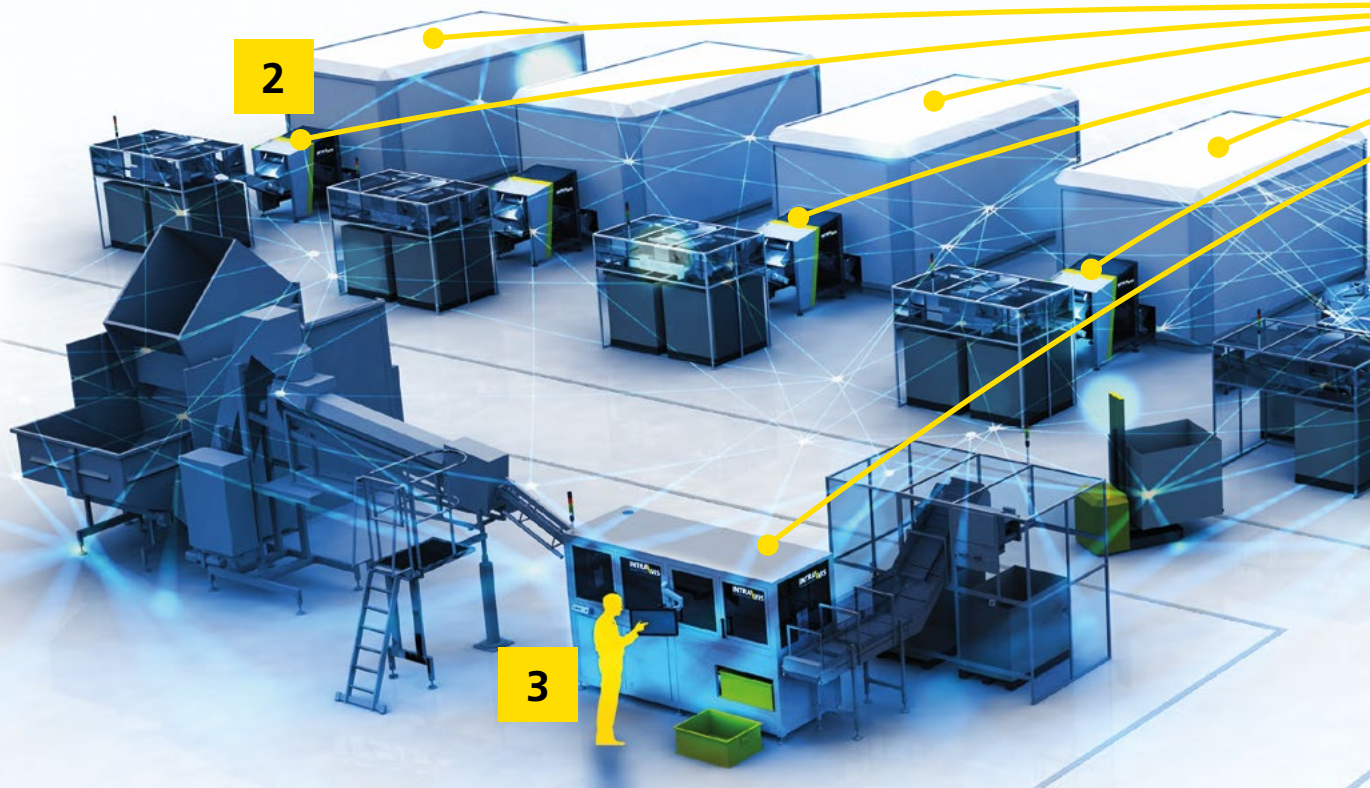
INTRAVIS
VISION SYSTEMS

PREFORMS

VISION INSPECTION SYSTEMS
FOR THE PLASTIC
PACKAGING INDUSTRY

WWW.INTRAVIS.COM

WE SOLVE PROBLEMS.
BEFORE THEY OCCUR.

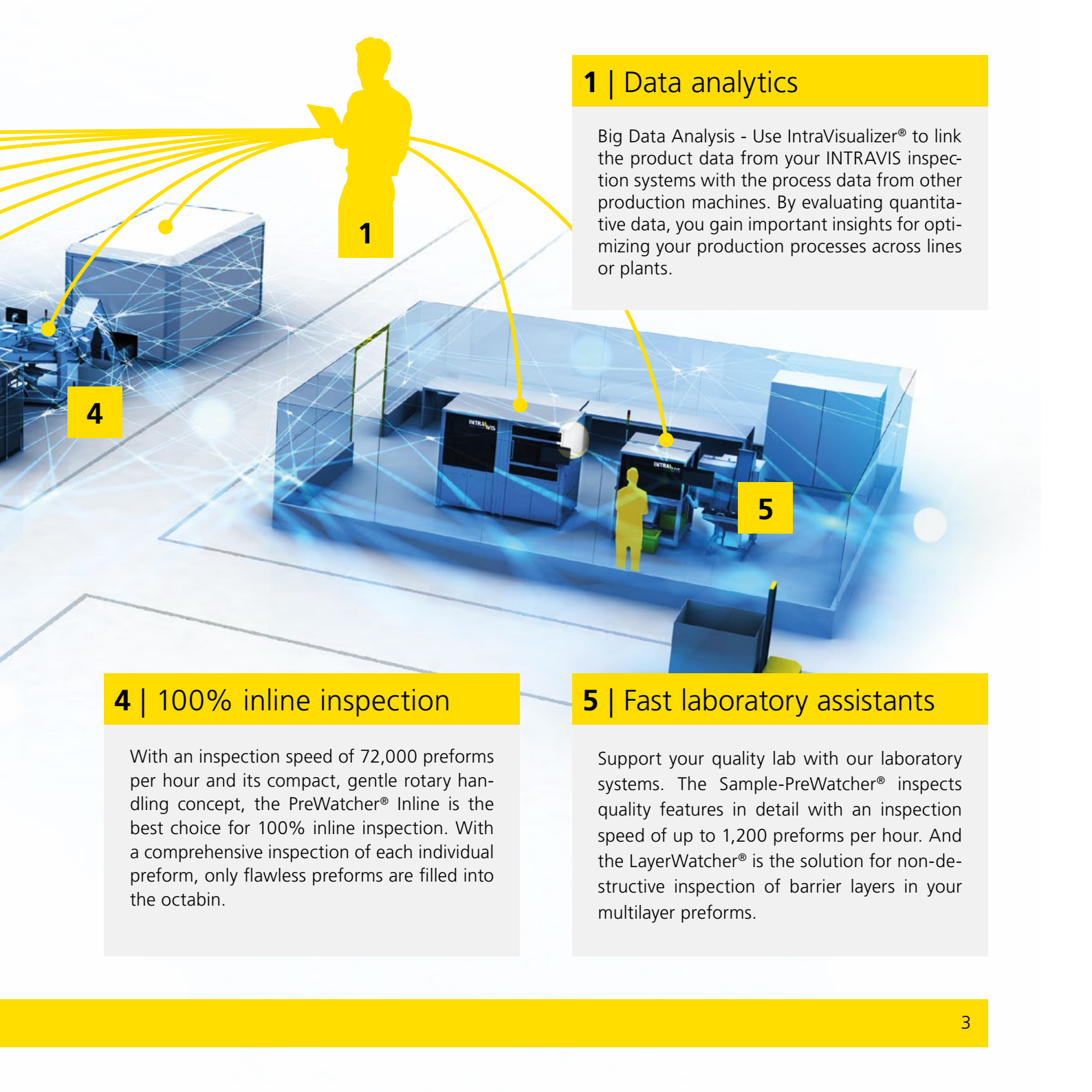


2 | Preform monitoring

The PreMon® delivers quality results even before packaging your opaque or transparent preforms. By visualizing the digital octabin image, you can identify production issues at an early stage. In addition, with the PreMon® PLUS option it is possible to eject defective preforms directly.

3 | High-speed offline sorting

Octabins that have been blocked after monitoring, can be resorted with the Pre-Watcher® Offline. With an inspection performance of up to 100,000 preforms per hour, you get octabins with just flawless preforms in a short time. Without the need of personalization parts, you can save time and resources when changing to a new product.



1 | Data analytics

Big Data Analysis - Use IntraVisualizer® to link the product data from your INTRAVIS inspection systems with the process data from other production machines. By evaluating quantitative data, you gain important insights for optimizing your production processes across lines or plants.

4

4 | 100% inline inspection

With an inspection speed of 72,000 preforms per hour and its compact, gentle rotary handling concept, the PreWatcher® Inline is the best choice for 100% inline inspection. With a comprehensive inspection of each individual preform, only flawless preforms are filled into the octabin.

5

5 | Fast laboratory assistants

Support your quality lab with our laboratory systems. The Sample-PreWatcher® inspects quality features in detail with an inspection speed of up to 1,200 preforms per hour. And the LayerWatcher® is the solution for non-destructive inspection of barrier layers in your multilayer preforms.

	INTEGRATION			FOOTPRINT m ²	INSPECTION SPEED Parts / h	INSPECTION CRITERIA			
	Inline	Offline	Laboratory			Dimensions	Contamination	Long shots / scratches	Scratches
PREMON®	✓	-	-	< 1,5	72.000	✓	✓	✓	✓
PREWATCHER® INLINE	✓	✓	-	8	72.000	✓	✓	✓	✓
PREWATCHER® OFFLINE	✓	✓	-	4	100.000	✓	✓	✓	✓
SAMPLE-PREWATCHER®	✓	✓	✓	2,5	1.200	✓	✓	✓	✓

PreMon®



Preform monitoring during operation. The PreMon® inspects preform quality features in real time directly behind the injection molding machine. With the bad part ejector, the system actively improves the overall quality of an octabin or grid box. Due to its minimal footprint, the PreMon® can easily be integrated between the injection molding machine and the packaging unit and with its active conveying concept, it guarantees a smooth production process.

Short shots	Notches / notches / dents	Color	Length of injection gate	Bubbles	Oil marks	Burn spots	Holes	Unmelted material	Cavity number reading	Defects at the neck support ring	Stress test	Core shift	Weight
✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓



PreWatcher® Inline



Compact 3-in-1 preform inspection solution.

Preform feeding, orientation and inspection: With the PreWatcher® Inline you get a compact 3-in-1 solution for your inspection needs. Directly integrated behind an injection molding machine, your preforms are carefully fed, oriented and inspected. Bad parts are ejected directly. In addition, you will receive important information about your production process.

PreWatcher® Offline



High-speed sorting of your preforms.

The PreWatcher® Offline is the new standard for the quality control of opaque and transparent preforms. It offers a high-speed, comprehensive inspection for the post-sorting of preforms, with its 17 cameras missing no detail. In addition, the system is quickly and effortlessly adjustable to your various preform sizes. Sorting of contaminated preforms has never been easier!

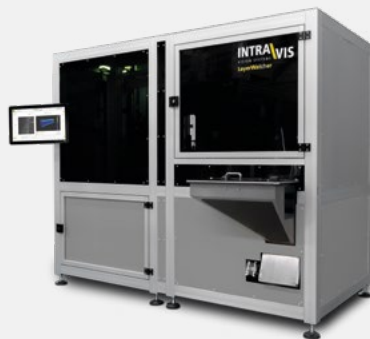
Sample-PreWatcher®



Inspection results as from the quality lab.

The Sample-PreWatcher® provides a high-precision, turnkey vision inspection system for non-destructive inspection of your preforms. It offers the best ratio of inspection scope to inspection speed. As a laboratory system, it provides your quality team with fast and reproducible preform monitoring of complex quality characteristics, with simple operation.

LayerWatcher®



3D inspection for preforms with barrier layers. The LayerWatcher® simplifies and accelerates the inspection of barrier layers in PET preforms. In a non-destructive inspection process, the stand-alone system fully inspects for the presence and thickness of the barrier. After the inspection, the results allow different visualizations: from the representation of individual layers to a comprehensive 3D overall image of the preform.

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