



The Standard For Next Generation Plate Glass Inspection
P² (PowerPlate)
Extending the Limits of Glass Quality

ISRA
VISION



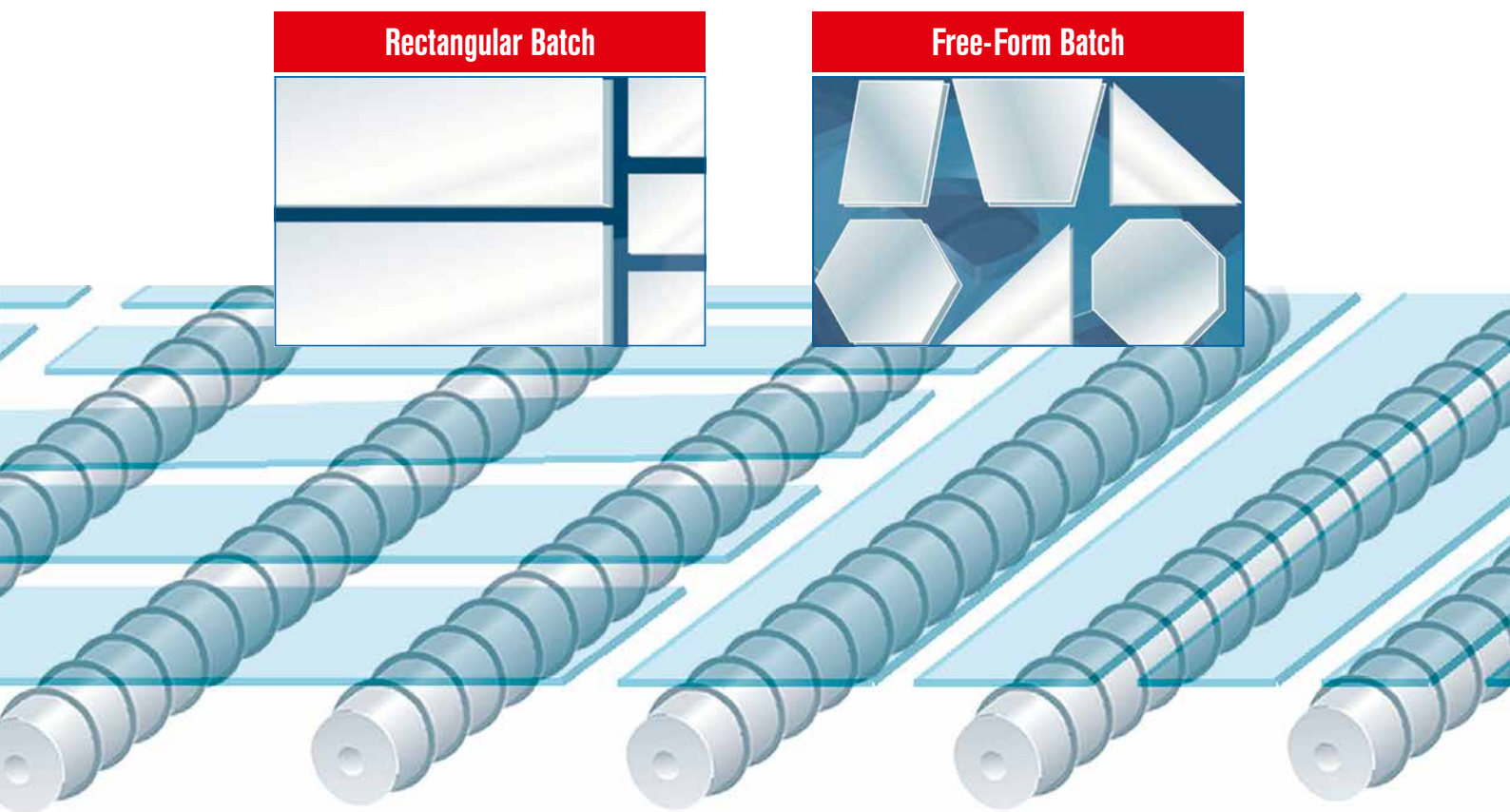
**Driven by Competence.
Powered by Innovation.**

Revolutionary Insights Into Your Production Process

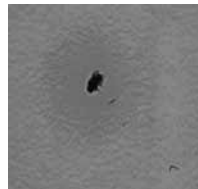
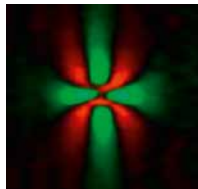
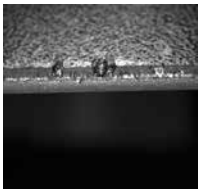
Complete Modular Product Solutions ...

The P² (PowerPlate) product line provides a high degree of inspection reliability for glass plates. The systems can be placed in operation at every step of the production chain not only for quality control purposes but also as an efficient tool for process optimization.

Highest productivity is achieved by employing inspection systems, and the tools for process monitoring and yield optimization. Consequently, further to the benefit of the defects being detected, there is the more important advantage that the solutions can help pinpoint where and why the defects have occurred.



+++ SIZE +++ INSPECT +++ COATING +++ COLOR +++ LAMI +++ CUT CONTROL +++ EDGE +++ OPTICS +++



Flexible. Reliable. Efficient.

... And Highest Productivity At All Processing Steps

P² (PowerPlate) helps take your production performance to its maximum.

The systems are designed to provide the highest flexibility. Depending on the production needs, the system set-up is possible just for one application request, and of course, in a comprehensive configuration providing several inspection applications at the same time.

The **return on investment** is quickly achieved due to fast installation, rapid commissioning and short start up times.

Get YOUR key to the future – Ask for the details.

P²-SIZE



Dimensions
Edge defects
Broken corners

P²-INSPECT



Absorbing defects
Scratches
plus even more...

P²-COATING



All coating defects
Inhomogeneity ...
and more

P²-COLOR



Color homogeneity
Color shift control

P²-LAMI



Lamination defects
Absorbing defects

P²-CUT CONTROL



Size measurement
Form check

P²-EDGE



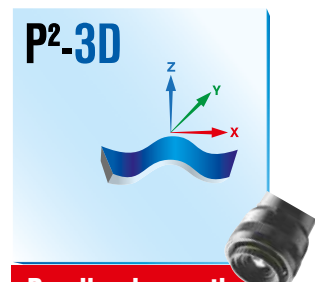
Grinding quality
Asymmetry check
Edge defects

P²-SIZE



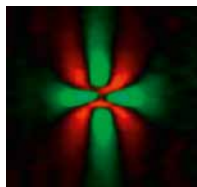
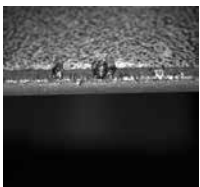
Distorting defects
Optical defects
Zebra and more...

P²-3D



Bending inspection
Flatness
3D Form

+++ SIZE +++ INSPECT +++ COATING +++ COLOR +++ LAMI +++ CUT CONTROL +++ EDGE +++ OPTICS +++ 3D

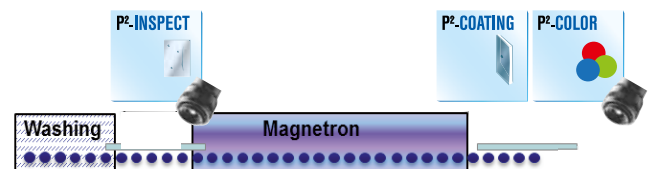
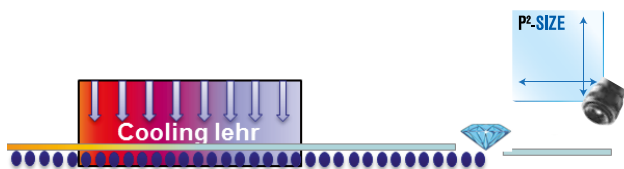


Breaking The Limits: The Real Way

Best Practice Optical Inspection

Every single defective glass sheet is detected and can be rejected immediately ensuring a significant reduction in scrap and improvements in product quality.

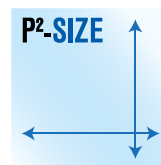
P² (PowerPlate) not only offers 100% quality control but an increase of overall production efficiency. Higher productivity is achieved through an increase in transparency and process knowledge.



The **P²** (PowerPlate) product family consists of:

P²-SIZE performs a contact-free plate geometry control directly after cutting. This includes the control for:

- Plate dimensions
- Edge defects
- Broken corners



P²-INSPECT delivers a 100%-guaranteed in-line inspection for defect detection on plates such as

- Absorbing defects (bubbles, stones,...)
- Scratches and all other typical process defects...



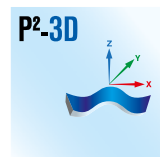
P²-COATING helps to optimize your coating. It is designed to improve coating quality by early identification of defects; thus helping to reduce production costs while saving resources.

- For all coating processes such as: Low-E, solar protection, antireflective, mirror, ...
- All coating defects
- Inhomogeneity and tone variations and color shading deviations



P²-COLOR reliably monitors the color of coatings and helps secure a consistent, standardized optical impression of the glass plates while saving resources.

- Coating homogeneity in perpendicular vision
- Color shift control between narrow and wide angle



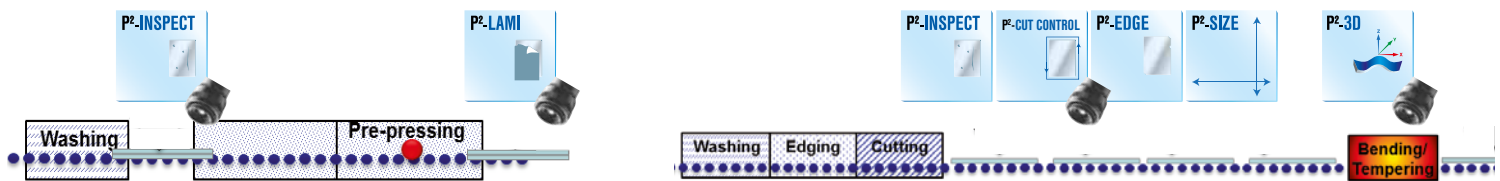
P²-3D is designed for in-line form, p on formed glass plates in every dim bending or tempering allows the user cess, and helps to keep production highest quality and an increase in p

To Highest Quality For Glass Plates

... For Your Success

All inspection data are processed and classified in real-time. The characteristics of every product – dimensions and defects – are stored numerically and visually available. The data can be reviewed any time. Just a click away and the quality grading for each batch is shown.

Equipped with full online process analysis tools for operators, the systems support easy and fast analysis of actual plate glass processing. In addition, advanced analysis and statistics are available to support process optimization.



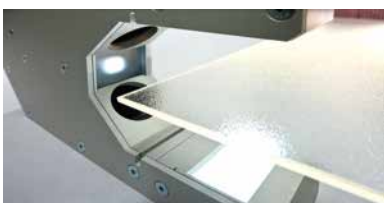
P2-LAMI delivers a guaranteed 100% in-line lamination inspection such as

- Lamination defects before or after autoclave
- Detection of absorbing defects



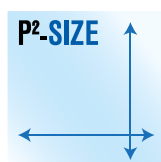
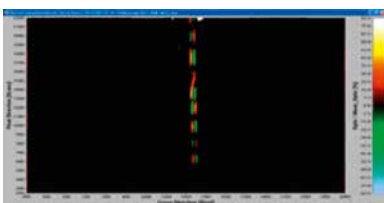
P2-CUT CONTROL delivers a 100%-guaranteed in-line shape verification consisting of

- Size measurements
- Form check



P2-EDGE facilitates a comprehensive, safe, and cost-effective inspection of plate edges. Due to its smart design, it makes the all around acquisition of the edges at a glance: float glass, pattern glass, etched glass, display...

- C-Grinding, K-grinding, asymmetric, ...
- Chips, shells, shiners, burners, asymmetry, wheel lines, ...



P2-OPTICS provides a comprehensive optical quality check to avoid distortion and other optical effects and, of course, their cause.

- Knots, reams, distorting defects
- Measurement with multiple filters :
 - Optic fine line
 - Automotive
 - Optical lines
 - Zebra defects
 - Low optical distortion

position and flatness gauging
dimension. The inspection after
to perfectly optimize the pro-
conditions stable – ensuring
productivity.



Innovations for Automated Optical Inspection

**We are the innovators in optical inspection.
Best practice. Best system. Best service.**

For over three decades, ISRA VISION has become a leading manufacturer of highly accurate automated optical quality inspection systems.

More than 10,000 successful applications reference our sustainable experience in the field of machine vision products – and our ability to innovate.

Today our products are operating worldwide in such industries as glass, plastics, foils, print and automation. It is our goal to set system standards for total process control in these industries.

Customers choose ISRA for the ability to develop products consistently to their requirements. More than 900 employees at 25 locations worldwide are working to contribute to your success.

Your global partner for surface inspection.

We offer our experience and a highly qualified team of experts to design and implement solutions for advanced applications.

We assure that our mission continues beyond our shipping dock. Just challenge our Customer Support and Service Center (CSSC).

We guarantee excellence to our customers – from consulting to service, from tailored solutions to worldwide support. We can make your business more competitive.

**Challenge Us.
Inspect to Control – with ISRA VISION**



Optimize your ROI with the technology leader **ISRA**

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