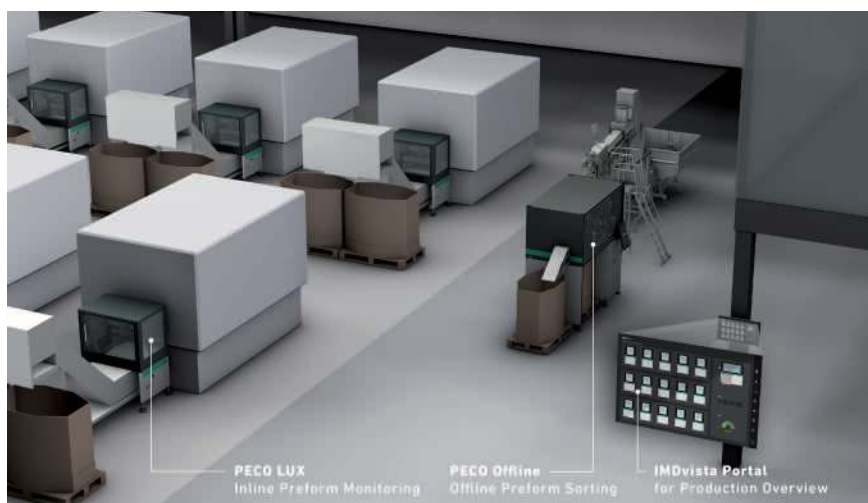


Three steps for higher preform quality

IMDvista offers with its Peco Lux a preform monitoring system that can be added to every existing or new preform production line. Combined with the established IMDvista offline preform testing system with a M. Tanner AG sorter and tipper, accruing problems can be sorted to make sure, that most of the production can be sold with a high quality.



Preform production is one of the most automated and optimised production processes in the plastic industry. Factory layouts are optimised to the limits and no square meter stays "unused". Driven by the need to use recycled material, using UV Blocker etc., defects can no longer be excluded. Problems like black spots, colour deviations, crystallisations etc. happen during production, appear and go away again. Out of this IMD Ltd got more and more the request for an inline preform monitoring system for each production line. The IMDvista Portal links all the systems together offering the production people a fast and easy overview of the monitored production. Problems are displayed and alerted immediately when they happen and corrective actions can be immediately initiated.

Peco Lux: Inline preform monitoring system, step no 1

Installed after the existing conveyor, the preforms are sliding over the Peco Lux slide with integrated "light plate". No adjustments are necessary, no parts to change for dif-

ferent preform designs and sizes. It requires no additional floor space. The vision system automatically detects the preforms and is taking pictures to analyse every shot of the production. Typical defects like burn marks, haze, too long injection gates etc. can be detected. Colour variations are monitored to a high accuracy and defects like milky preform, crystallinity and yellowing are also detected. Alarms will be displayed on the vision system and transferred to the IMDvista Portal. The software V5, based on self-learn functions, is said to be easy to use for all operator levels.

The Peco Lux is a customer driven innovation and opens a perspective to smart and economic inspection routines for all preform production lines.

Peco offline sorting with M. Tanner AG feeding system and tipper, step no 2

The IMDvista Peco offline preform testing system is sorting out the bad preforms because usually not all

cavities were affected by any inaccuracy. Faulty productions detected by Peco Lux can be re-sorted.

Tanner preform tipper & feeding system

For more than 25 years, M. Tanner AG has been developing, designing and manufacturing preform feeding systems worldwide. Tippers with features like the electrical container cover the falling height of preforms can be reduced for a smoother and adjustable tipping procedure. With the Tanner roller sorter preforms of almost any design are handled in a gentle way, compared to rotary sorters. With a wide range of configuration possibilities the layout of the feeding system is flexible and can be designed according to customer needs.

IMDvista Peco preform testing system

The Peco preform testing system takes care of the preforms from the sorter to keep the flow of the product in one line with a gentle handling. The flexible system can handle preforms from 7,9g to 150g without changing any size parts.

Peco inline inspection system, step no 3

The system is available with a special setup to be connected inline directly after the preform production machine. The testing of all parameters, including cavity number reading is recommended for critical products or main projects. Although it uses floor space, the setup is very flexible and easy to use.

www.imdvista.ch
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- Side cameras for a full 360° outside inspection
- Specific side camera with polarisation filter
- Camera for bottom inspection
- A new added side camera for cavity recognition