

Swiss Partnership comes up with upgrades and new solutions

Preform & closure inspection solutions

IMD Ltd. and M. Tanner Ltd. are presenting preform and closure innovations as the complete upgrade of the IMDvista Peco V3 preform inspection system, the new IMDvista Digital Printer CLDP and the IMDvista Portal, which links all the systems together.



Inspection solutions get more and more important for the fully automated and optimised preform production process 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., defect detection is becoming a must. Problems like black spots, colour deviations, crystallisations etc. happen during production, appear and go away again. 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 initiated immediately.

IMDvista Peco V3

Upgrade of a well proven inspection system: The target was better accessibility, a smaller footprint and an artificial intelligence to read the cavity number. The Tanner roller sorter was lowered to the floor to gain accessibility. With two easy to open swing doors, operators get the perfect access to the inspection systems. IMDvista V5 Vision Control Center with its new and unique artificial intelligence module is used to read the cavity

number of your preform. The statistics are well presented to the operator based on the defects per cavity. The proven Tanner sorting system combined with a new connection to the IMDvista Peco V3 inspection system makes the system even more reliable and easy to use.

The concept of preforms sorting was kept with roller system because the tests have proven that this is still the most gentle way compared to the rotary sorters. The layout has a wide range of configuration possibilities to flexibly adapt to the production area. A unique “double conveyor” feeds the good and the bad parts to half octabins, again to perfectly adapt to the production aiming for the best possible logistics in production.

IMDvista CLDP

Closure Digital Print (CLDP) is printing 1,500 closures per minute in high quality and full flexibility in format and print.

For the first time the IMDvista CLDP will be shown in operation. Starting with the “clean and save” concept conveying the closures on a stainless steel conveyor, the closure

is pre-treated and then conveyed through the RedCube Plus from Hapa. CMYK printing up to 720dpi can be combined with a white print head to be as flexible as possible with almost no limitations in artwork and colour. The unique ink handling makes the system easy to use for the operator. By using the same calibrated ink artwork is always in the same quality. An automated cleaning and conserving system is the base of a robust and clean industry proven digital printing system. Hapa low migration ink, specially developed and optimised for this application, makes the system reaching unseen adhesions. Specific migration is compliant with EU 10/2011.

As a perfect combination, the digital printer does not require specially skilled people and by principle can not damage a closure. For final inspection, an IMDvista print inspection system is part of the system to make sure 100% conforming print is reaching the customer. V5 Vision Control Center is the controlling HMI to make it as easy to use as the known vision inspection systems.

IMDvista Portal connects the vision systems

The IMDvista Portal became a proven data center. Based on an SQL database there is easy access to all the connected vision systems. Compact and well organised product screen provides a simple and fast production overview. Quality monitoring comes as easy as using an app by a simple event log. SPC charts for easy and fast trend analysis is the base for preventive actions: act before something goes wrong. A simple click connects the user with their vision system. Industrie 4.0 is in everybody's do list to improve efficiency. Also “closed loop control” becomes possible feeding back the data from the vision system.

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