PRESS RELEASE
Pressemitteilung

New LEYBOLD OPTICS machine for vacuum coating of flexible holographic products

The FLEX-M 650 is a newly developed machine for the vacuum coating of flexible holographic security products. Precise process control, mass production reliability and optimized cost of ownership are the main characteristics of this production solution. The machine allows the roll-to-roll vacuum coating of PET and OPP film with a max. width of 670mm and a film thickness in the range from 12 to 100 µm (PET). Key components are evaporation sources for the coating of High-Refractive-Index (HRI) materials and metals onto the holographic film. The newly developed high-rate zinc-sulphide (ZnS) evaporator allows a uniform high-rate coating of a HRI layer. An uniform coating thickness of 50 nm at a coating speed of 2,5 m/sec can be easily achieved. Most accurate process controls are guaranteed due to the use of several direct heated and individually controlled evaporation crucibles.
The coating of metals, such as aluminium or copper onto the film, is managed by boat-type evaporators with automatic metal-wire-feeding function.
The ISS, In-Situ-Sensor, allows ultra-fast coating-thickness control.
An optional flexo-print-type system for the printing of oil prior to the coating allows a precise segmentation of the film.
Winding system and vacuum pump package has been adopted from the mass-production proven CAP-M 650 system for the manufacturing of electrical film-capacitors.
The first machine of the new FLEX-M series will start the production at customer site in Europe by end of Q IV/2010.
LEYBOLD OPTICS, one of the leading manufacturers of vacuum coating machines, underlines with this machine the capability to provide innovative, mass-production-capable solutions for the manufacturing industry.

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