

## Global Factories' Revolutionary New Blister Packaging System Uses Thinfilm Memory™ for Pharma Security

Thinfilm's "Smart Consumables" solution delivers critical security and verification capabilities to the pharmaceutical industry

*Thinfilm Memory offers significant advantages over any other electronic verification solution we investigated, and gives us a highly secure label through the use of proprietary printed electronics technology.*

*It's a new solution which adds value to the needs of our clients all over the world, and represents the first step in our roadmap for using printed electronics in innovative systems to help improve overall patient adherence.*

*- Richard van den Brink,  
CEO of Global Factories*

Global Factories, a market leader in the field of medicine verification techniques, develops unique products to make personalized medicine distribution available for everyone. By combining breakthrough technologies with their extensive knowledge and worldwide network, Global Factories can ensure that the distribution of medicine is, and remains, efficient, reliable and safe.

### The Business Need

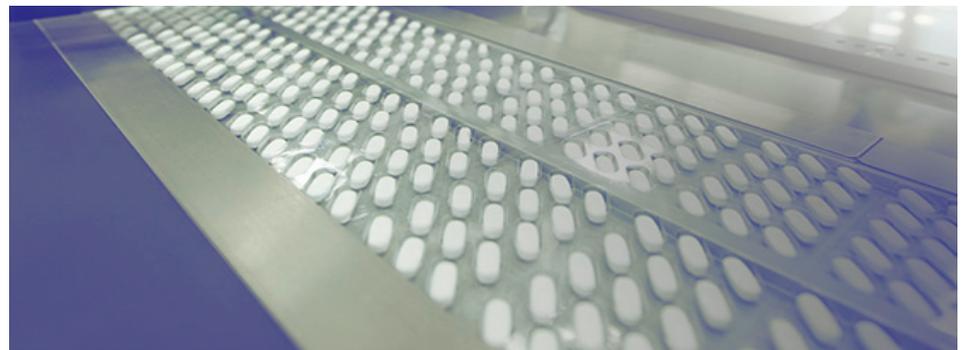
Global Factories was looking for an authentication solution for its next-generation medicine pouch verification system – the Vandenberg Blister Packaging Machine (VBM). The VBM provides automated filling of Global Factories' unit- and multi-dose blister trays, which securely store patient medication and provide a visual blueprint of required daily intake.

Global Factories' needed to give its clients the ability to efficiently and effectively confirm authenticity of the VBM blister trays while ensuring that only safe and qualified materials were used in their systems.

Each blister tray contains a matrix of 4x7 or 5x7 pouches depending on whether a patient takes medication 4 or 5 times a day. Each blister pouch is filled with a combination of every medication to be taken at prescribed times. The separate pouches help patients take the correct dosage and combination of medication throughout the day.

Global Factories' pharmaceutical clients using the VBM need to ensure only qualified blister packs are used with their system. Unauthorized blister trays may not be compliant. Differences in the tray size or composition can create misalignment, cause breakage in the pouches, or prevent a pouch from sealing correctly. Any of these conditions could lead to improper dispensing of medication. In addition, the machine itself may be damaged by non-qualified trays, requiring costly repairs or replacement.

**THINFILM** 



## The Solution

Global Factories chose Thinfilm Memory labels as its blister tray verification solution. After evaluating a number of alternatives, Global Factories determined that Thinfilm's Memory Label for Smart Consumables offering was the right choice for several reasons:

- Non-volatile and rewritable
- Uncopiable
- Small, flexible form factor
- Cost-effective
- Highly scalable
- Easy to integrate with VBM system

*Thinfilm Memory for Smart Consumables facilitates an electronic handshake between base units and cartridges.*

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[Watch the video](#)

Thinfilm's Memory Labels contain a unique identifier and store critical information about the blister trays including the distributor code, a valid/invalid code, and the box ID, which stores the refill limit. The VBM is able to verify the authenticity of the blister tray by reading the memory label when it is inserted into the dispensing unit. Once verified, the machine is unlocked and dispenses the pre-set limit of refills to the pouches. The memory label is invalidated at this point, preventing further use of the same memory card. When the dispensing is complete, the VBM is locked again.

## Additional Information

*Thinfilm Memory for Brand Protection provides forensic security plus in-field analysis and verification.*

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The VBM system is a breakthrough in pharmaceutical packaging, and the incorporation of Thinfilm Memory represents a key milestone in the advancement of pharma security. In addition to the packaging and checking of blister trays, the VBM uses a patented verification technique that makes distribution of medicine safer and more efficient than ever before.

Global Factories' revolutionary VBM will be launched during the first quarter of 2015. Additional Global Factories' blister cards featuring Thinfilm memory label systems will be introduced to key global markets throughout 2015.

*Global Factories, the global market leader in the field of medicine pouch verification, will use Thinfilm printed memory labels for security and authentication in its new Vandenbrink Blister Packaging Machine (VBM).*

[Watch the video](#)

### About Global Factories

Global Factories is an international and multidisciplinary organization. By learning, understanding and listening to the needs of its customers, they are able to develop innovative products which are both forward-thinking and unique.

### About Thin Film Electronics ASA

Thinfilm is a leader in the development of printed electronics. The first to commercialize printed, rewritable memory, the Company is creating printed systems that include memory, sensing, display, and wireless communication, all at a low cost unmatched by any other electronic technology. Thinfilm's roadmap integrates technology from a strong and growing ecosystem of partners to enable the Internet of Everything by bringing intelligence to disposable goods.



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