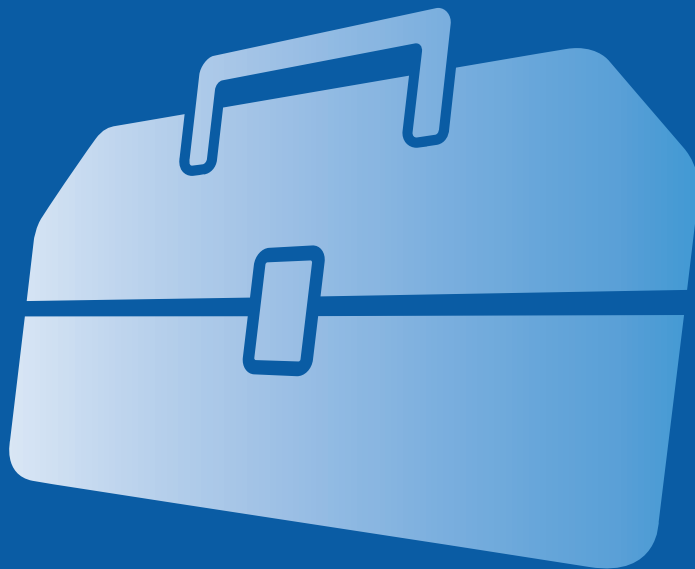


# OPTICS TOOLBOX

For 'Fast Track' thin film processes  
using quartz or optical monitoring



# Seamless processes

From thin film design to finished product

## Why integrate your processes?

- Minimise process development times
- Achieve higher process performance
- Reduce costs



### 1. Thin Film Design Software

Work at your desktop with industry standard design packages including FilmStar™, Essential Macleod™ and Optilayer™.



### 2. Layer Monitoring Strategy

Evatec's proprietary software gives you the choice of end point algorithms for each layer. Simulation of the coating process helps you choose the best algorithm to reach optimum spectral performance.



### 3. Broadband Optical Monitor

Create the monitoring file to control all the parameters of the optical monitor, e.g. in transmission or reflection, direct substrate or heated test glass.

Rapid changes in production demand requires “fast track” installation of complex thin film processes. Minimising process development time keeps production throughput high reducing unit costs. The initial theoretical thin film design calculation is just the start for a new process. The performance of the coating sources must be optimised for the exact materials and layers being processed, the sources themselves must be monitored at a point as representative as possible of the actual substrates being coated and then individual layers must be terminated at just the right time to hit target spectra in the thin film design.

Integration of all these aspects removes errors and ensures the quickest development of high end optical processes.



#### 4. Process Recipe File Generation

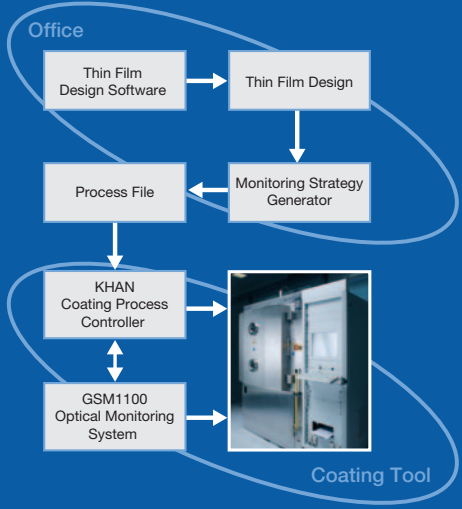
Create the complete Khan recipe out of the monitoring strategy generator for broadband or standard optical monitoring, as well as quartz thickness monitoring. Import the strategy into Khan's recipe editor via network or USB.

#### 5. Coating Execution

Load the substrates and let Evatec's Khan system and process controller manage the production from door closure to vent, with data logging of process parameters defined by you.

#### 6. Finished Product

Achieve reliable processes in the shortest development times. Edge repeatabilities  $T_{50} < \pm 0.2\%*$



## OPTICS TOOLBOX

### Advantages of Evatec Optics Toolbox

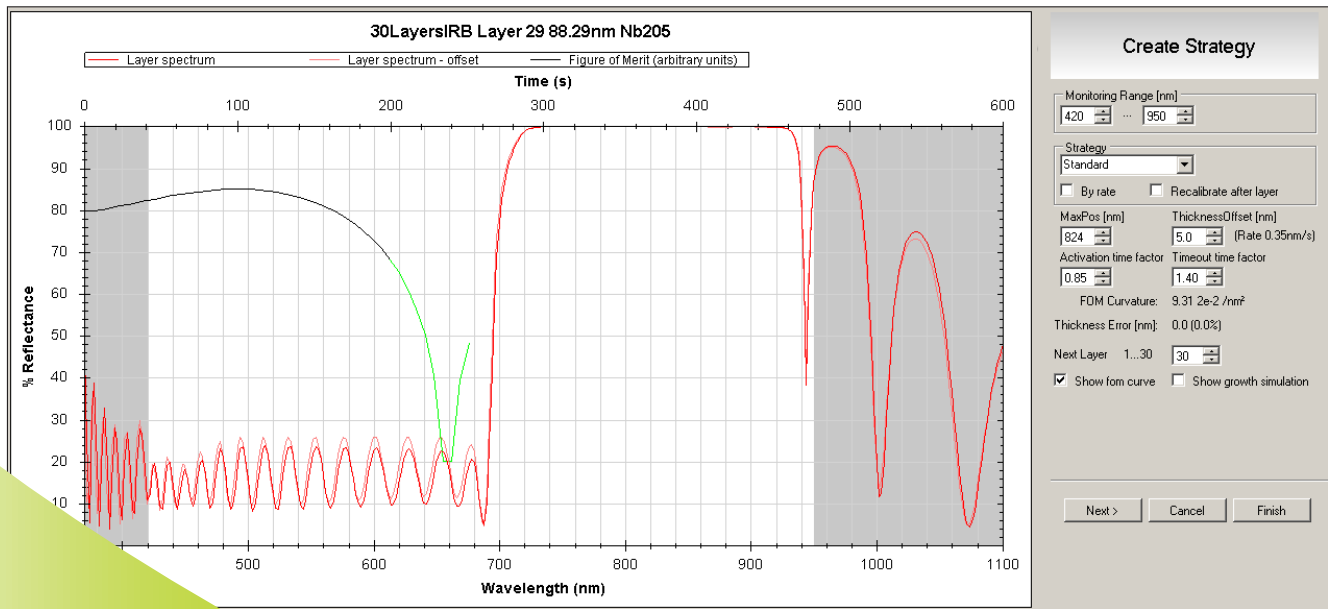
- Suitable for UV, VIS and IR
- Works with quartz or optical monitoring
- Coating platform, monitoring hardware and software all from one supplier
- Works with industry standard thin film design software



\*with MSP Sputter

# The complete solution

Coating platform, optical monitoring and software all from one supplier.



Proprietary Evatec strategy generator software helps you choose the best algorithm for end point determination in each layer of the process.

## About Evatec

Evatec offers complete solutions for thin film deposition and etch in the optical and semiconductor markets. Evatec engineers are able to offer practical production advice from R&D to prototyping and mass production. We recognize that no single technique offers the answer to all problems. With a technology portfolio including standard and enhanced evaporation as well as sputter, we are ready to offer sampling services and custom engineering to meet our customers individual needs.

We provide sales and service through our global network of local offices. For more information visit us at [www.evatecnet.com](http://www.evatecnet.com) or contact our head office.

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