



FOR NEW LEVELS OF EFFICIENCY
IN EVAPORATION PROCESSES

Unicalc determines the best shaper design to optimise uniformity for all the materials and sources in your BAK system. Use it to eliminate test runs during new process set up and reduce materials consumption in production.

1. THE UNICALC ADVANTAGE

- Achieves optimum shaper design and size according to your process materials and uniformity specs
- Reduced shaper area for higher rate, lower materials utilisation, and reduced process times
- Work with single, multiple source (up to 6) or co-evaporation configurations
- Handles all source types including boats and e guns
- Works with standard or extended throw "Lift Off" geometries
- Handles the full range of Evatec BAK platform sizes

2. TAKE A LOOK AT THE TYPICAL RESULTS

Production Set Up

- Single multipocket e gun
- Multilayer Titanium, Nickel and Molybdenum process
- Uniformity spec $\pm 5\%$ for all metals
- Standard throw with dome substrate holder

Results

- Shaper manufactured from calculated design achieves uniformity spec immediately
- Materials consumption reduced by $>20\%$
- Process time reduced due to higher deposition rate

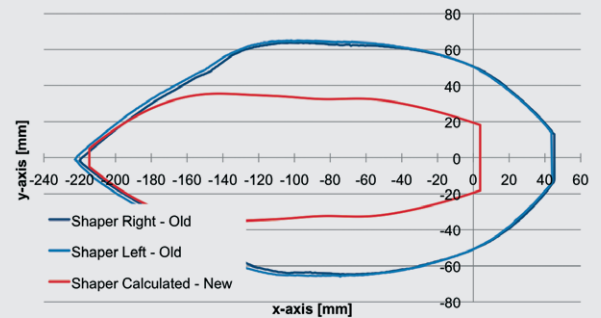


Fig 1: Smaller shaper design calculated by Unicalc compared with shaper developed by traditional interactive process

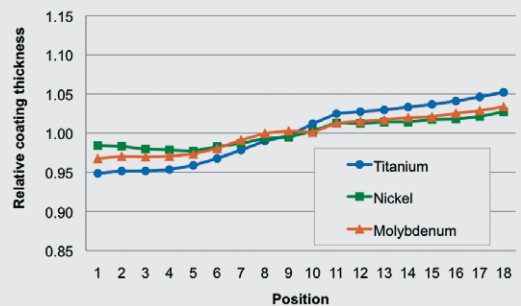


Fig 2: Wafer uniformity using optimised shaper designed by Unicalc

3. HOW CAN I BENEFIT FROM UNICALC

To make sure your evaporator is operating at peak efficiency contact your local Evatec sales and service team to find out how Unicalc can help you save costs.

