

# Coverlay optimizer

- Optimizing a flex or flex-rigid's coverlay for manufacturing is a very specific and demanding task
- Customer original data often absent or unusable
- Major rework required
- Coverlay Optimizer offers a workflow-based graphical user interface to deal with this challenge
  - First annotate the coverlayer openings:
    - specify their reference in the corresponding copper layer
    - define how much coverlay openings should become bigger or smaller than their reference
    - enter a minimum stay-clear distance towards adjacent copper
    - choose an optimization method and indicate if single coverlay openings can be merged with nearby other openings to achieve the desired result
  - Specify the production-specific optimization parameters
    - Choice of material ?
    - Customer tolerances ?
    - Coverlay to be punched, drilled / routed or lasered ?
    - Different production methods – different tolerances
    - Circular coverlay openings may have to be mapped onto the available drill bit sizes
  - Run feasibility check to find out about any anomalies or incompatibilities
  - After operator review, Coverlay Optimizer adapts the coverlay openings in accordance with the values and rules specified
  - Store frequently used annotation and production setup parameters under a specific setup name

