

## DEK Electroform 3D stencils

DEK Electroform 3D stencils ensure highest print quality and throughput for jobs that require printing with different height levels and into indentations.



DEK Electroform 3D stencils are single thickness stencils produced to accommodate mass imaging of surfaces that are not flat or include features or structures that would prohibit conventional one-pass printing.

Well-suited for printing inside cavities or cover printing on pre-populated substrates, 3D stencils allow higher throughput and lower costs through the elimination of secondary printing or dispensing steps.

### Benefits:

- Enables single pass printing for challenging, non-flat or pre-populated substrates
- Lowers cost by eliminating traditional secondary printing or dispensing steps used to accommodate positive or negative Z axis values
- Improves production throughput
- Can be manufactured to conform to any shape or topography
- Better uniformity and deposit shape control than with dispensing processes

### Specifications:

- Special, (usually) supplied slotted squeegee required
- Proven for a variety of different applications
  - LED cavity printing
  - SMT multi-level printing
  - SMT ceramic substrate cavity printing
  - Semiconductor printing to accommodate wafer embossment
  - Semiconductor die top printing
- Stencil frame size: DEK VectorGuard™ Classic or DEK VectorGuard™ High Tension 23" x 23" recommended
- Stencil foil thickness: 50 µm - 250 µm (2 mil-10 mil)
- Pocket size: 1.0 mm square (min)
- Pocket depth: 2.0 mm (max, depending on pocket size)
- Pocket to pocket gap allowance: 2.5 mm (min)



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