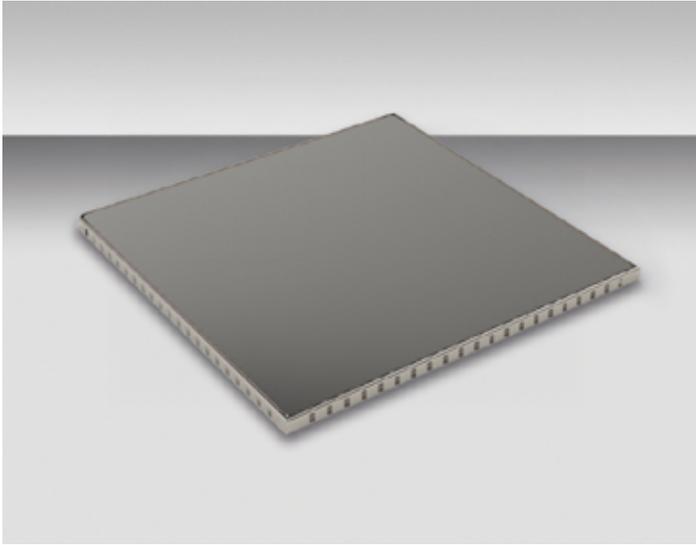


DEK PowerGuard Stencils

High-tension stainless steel stencils designed to maintain stable print quality, reduce maintenance effort and optimize total cost of ownership in SMT manufacturing.



DEK PowerGuard Stencils are mesh-free stainless steel stencils engineered for stable and reproducible solder paste printing in SMT production. The stencil foil is permanently welded to a preloaded high-tension stainless steel frame using a fully automated manufacturing process. By eliminating mesh, adhesive and air systems, the design avoids common causes of tension loss, deformation and maintenance typically associated with conventional mesh-mounted stencils.

The rigid, single-piece construction ensures consistent mechanical properties over the entire stencil lifetime and supports reliable solder paste transfer, even in demanding SMT applications.

Manufactured from fine grain stainless steel, DEK PowerGuard Stencils are well suited for ultra-fine pitch and highly miniaturized assemblies. The maintenance-free design, combined with a low-profile frame, enables long service life, efficient handling and space-saving storage in modern SMT production environments.

Features and benefits:

- Constant stencil tension over the entire lifetime
- Designed for up to 200,000 print cycles, resulting in low total cost of ownership
- Improved and consistent understencil cleaning performance
- Full ESD compliance through conductive stainless steel construction
- Up to 6% larger printable area compared to mesh-mounted stencils
- Low-profile design reduces stencil storage space requirements by up to 50%
- Resistant to aggressive stencil cleaning processes and cleaning chemistries
- Fully recyclable stainless steel frame supporting sustainable production concepts
- Fast changeovers and compatibility with all common printer platforms

ASMPT can provide DEK PowerGuard stencils in a variety of sizes:

- PG 260: 23" × 23" (17 mm × 584 mm × 584 mm)
- PG 265: 29" × 23" (17 mm × 736 mm × 584 mm)
- PG 265 wide: 29" × 24.5" (17 mm × 736 mm × 620 mm)
- PG 650 × 550: 17 mm × 650 mm × 550 mm
- PG Semicon: 17 mm × 300 mm × 300 mm