

DEK Fine Grain stencils

Achieving a finer grain of stainless steel, DEK Fine Grain stencils provide superior paste release and a smoother stencil surface.



DEK Fine Grain stencils can be used with the DEK Mesh-mounted frames, DEK VectorGuard™ Classic and DEK VectorGuard™ High Tension frame systems. Fine grain stainless steel stencils provide smoother laser-cut aperture walls for improved paste release and better material transfer efficiency. A cost-effective alternative to nickel, fine grain stainless steel is ideal for challenging dimensions and high-density assemblies.

DEK Stencil solutions – stencil technical specification

ASM LASER CUT STENCIL					
	Standard stainless steel	Laser cut nickel	Fine grain stainless steel	Standard E-form nickel	Platinum E-form stencil
Material type	304 PHD	Nickel	Fine grain SS	Hard nickel	Hard nickel
Material hardness (HV)	≥370	>470+	≥370	500 +/-50	500 +/-50
Grain size (µm)	16-25	1	≤ 2	1	0.6
Thickness available (µm)	80-250	100-175	80-250	75- 200	20-230
Thickness tolerance	4%	7%	<2%	10%	<5%
Area ratio window	>0.66	>0.6	>0.55	>0.5	>0.5
Sheet width max	690 mm	584 mm	610 mm	610 mm	584 mm
Apertures size tolerance	±5 µm	±5 µm	±5 µm	±10 µm	±4 µm



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