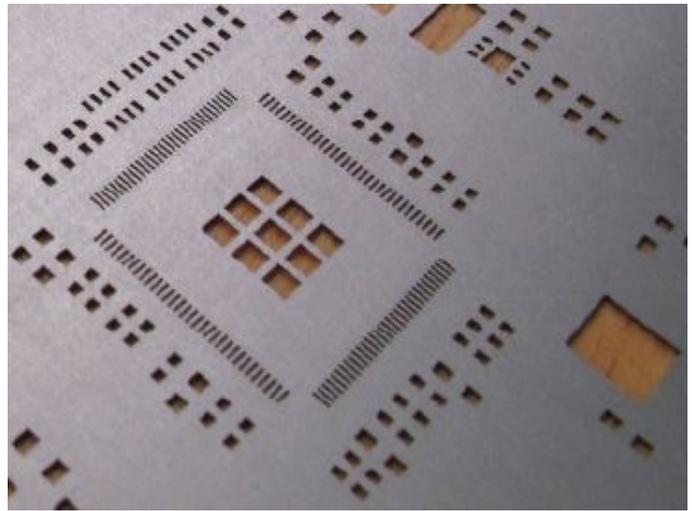


Application story



Acid Treatment of Metal Stencils

Location	Russia	Hydra-Cell model	G10XKPJHFEHA
Type of application	Acid Treatment of Metal Stencils	Flow rate	15 L/min (4 gpm)
Liquid	Phosphoric Acid Sulphuric Acid	Pressure	7 bar (100 psi)
Application details	Hydra-Cell® in Surface Mount Stencil Prep <p>Metal stencils are used to print solder paste onto printed circuit boards during electronics assembly. LaserTrafaret, in Russia, pre-treats the sheet material with a mixture of sulphuric and phosphoric acid (30-60%) before laser cutting the individual apertures.</p> <p>The company used a centrifugal pump with a mag drive coupling to deliver this acid mixture but the system frequently ran dry, a condition that causes irreparable damage to all pumps with dynamic seals. Consequently, the pump was out of action regularly.</p> <p>It was subsequently replaced with a Hydra-Cell G10 pump and the dry-running problem is now a thing of the past. The Hydra-Cell with a polypropylene pump head, handles the corrosive acidic mix with consummate ease and higher pumping efficiency, saving both energy and maintenance costs.</p>		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: <ul style="list-style-type: none">- Its ability to handle multiple, aggressive liquids with ease.- Its seal-less design with no dynamic seal, meaning the liquids are 100% contained and maintenance requirements are vastly reduced.		

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