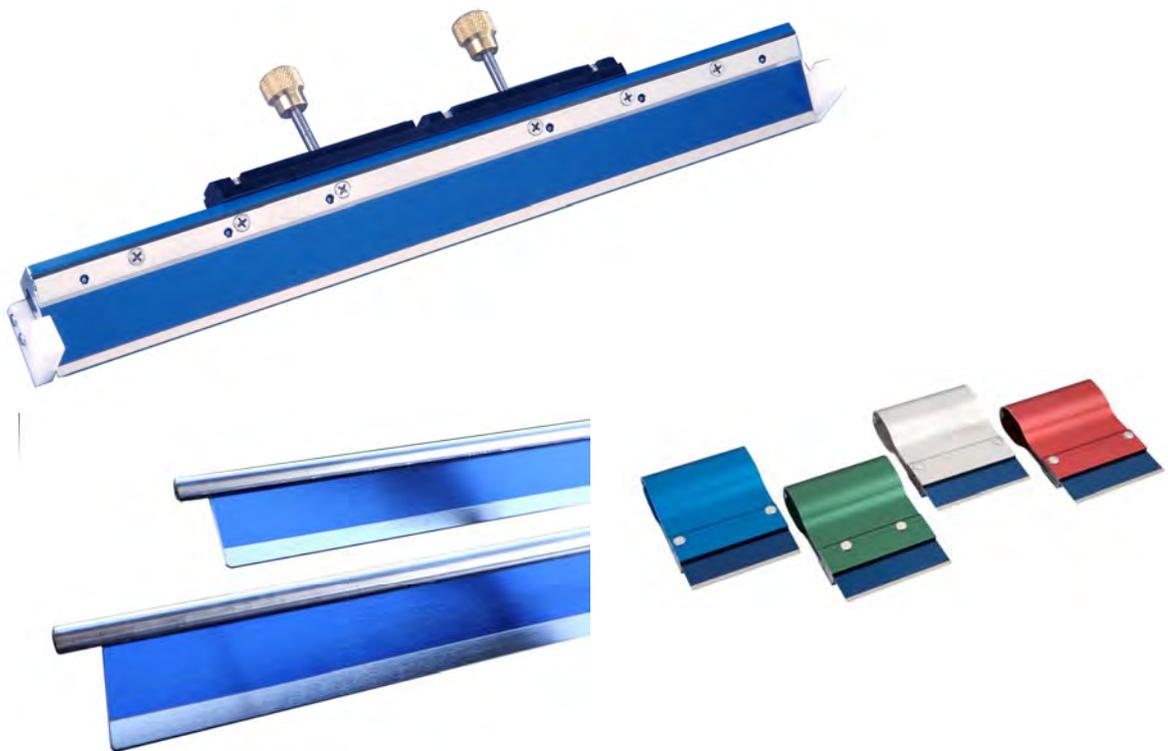


Permalex™ High Quality Squeegees For an optimized print process



Maximize your printing results

Permalex™ Edge Metal Squeegees are a premium brand of metal squeegee used for SMT and Microelectronics printing applications. This leading product incorporates many customer needs such as long service life, improved printing quality, ease of use and ease of ordering.

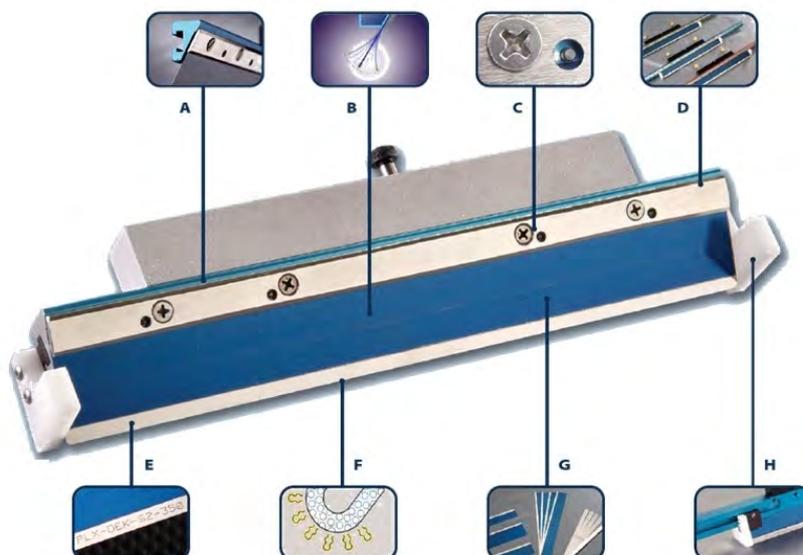
Permalex Edge Squeegees directly support your lead-free process by assuring maximum print quality despite the reduced wetting and joining performance of lead-free materials.

Furthermore, the long life of Permalex blades reduces wasteful material maintenance and down-time cycles.

Permalex Squeegees and holders are available for all types and brands of printers in the market.

Transition's patented Universal Holder design gives you outstanding functionality, ergonomics and choices that enable you to achieve greater performance and profitability on your SMT line:

- A. Lightweight, low profile holders reduce paste sticking and handling damage
- B. No risk of injury because of sharp edges
- C. Spring steel base metal assures many thousands of flexures without failure
- D. Accurate blade referencing insures the setup quality
- E. Colour choice adds visual ergonomics and helps to segregate materials
- F. Permanent product ID for tracking and repeatability of high-quality processes
- G. The Permalex Infused Teflon Edge reduces friction and wear – keeping the squeegees and stencils in top condition
- H. Adjustment of blade thickness and/or angle easy with product codes for intrusive paste in hole or other special applications
- I. Sliding paste retainers for reconfiguration of these advanced holders for smaller/larger squeegee sizes saving time, money and storage space

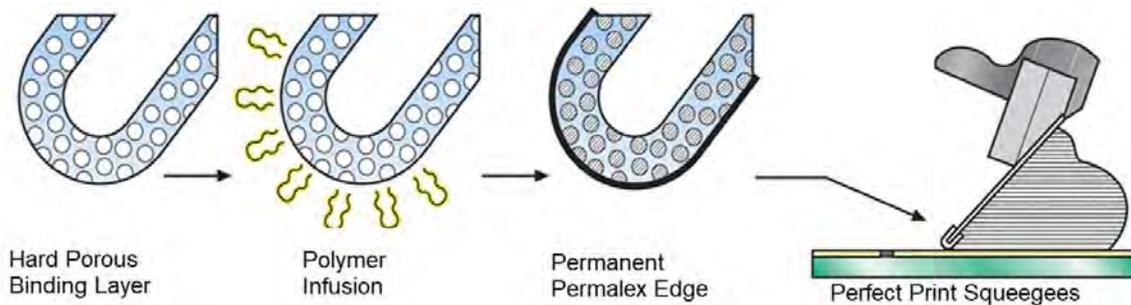


Permalex

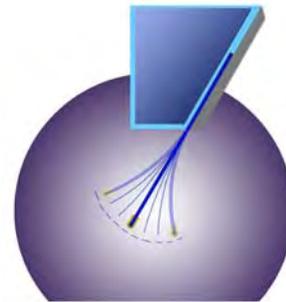
Blade Technology for Long Duty Cycles

Permalex is a multi-step metallurgical bonding process that produces a smooth, durable metal squeegee with a hard, low-friction edge designed to prevent stencil wear.

Permalex Edge Metal Squeegees contain a unique base alloy and our special Permalex coating to provide superior performance.



Tempered Spring Steel Alloy assures many thousands of flexures while maintaining original shape, unlike softer etched blades made from stencil material.



Holder Technology Light Weight and Strong

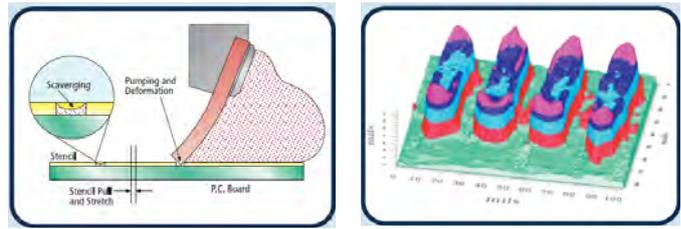
Patented Holders

The lightweight design eliminates most handling dents and dings; unique reference window insures accurate blade installation



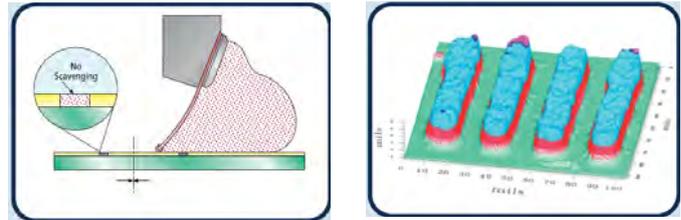
Advantages over Rubber Squeegees

The diagram above shows the details of solder pad deposits made with a standard polymer squeegee. The diagram clearly shows uneven, dog-bone solder deposits resulting from scooping and scavenging. *Courtesy of Intergraph Corporation*



Better results with Permalex

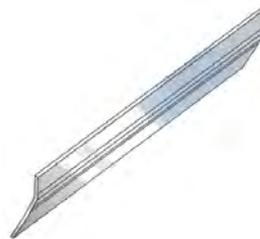
Permalex Edge Metal Squeegees eliminate pumping and scavenging, improving solder paste deposit quality. The smooth, lubricated edge reduces stencil pulling and stretching, improving pad registration and stencil life



Advantages over other Metal Squeegees

Fatigue Bending

Blades made with soft etched stainless steel or nickel are prone to bending.



Fatigue Warping

Soft metals allow bends and dings from handling.



Cracking and Chipping

Other plated blades exhibit cracks and flakes.



The photo shows a crack in a nickel blade, undetectable with the eye.

