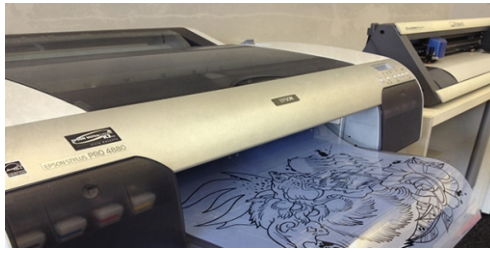


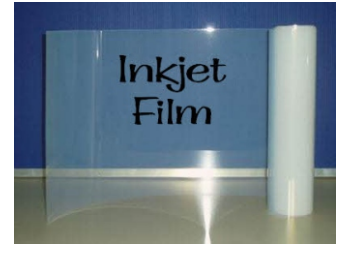
Screen Printing Process



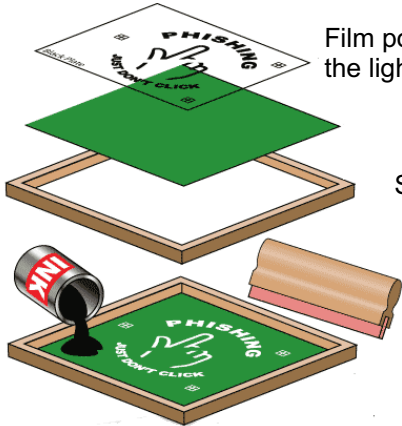
Graphic artist setups up art in a specially designed program that will print an image in the correct spot on the film.



Film is printed out of a printer that specifically designed to print screen printing film.



Film has been created and is ready to be applied to the screen.



Film positive used to expose and harden the light sensitive emulsion.

Screen frame tightly with fabric.

Emulsion is spread across the screen prior to the film being applied to the screen.



Screens



Screen, with film attached, is taken to a film exposure machine that burns the image into the emulsion and exposes the print image..



Screen is then washed and the emulsion is washed away only where the print image has been burned. This will allow the ink color to go through the screen only where the image is.



The screen is then affixed on to the machine that will run the production. Once screen is affixed, the desired imprint color (ink) is poured on top of the screen. The machine is then loaded up with the desired product (in this case, this is a pen printing machine). The machine then works in an automated fashion to run the pens through and push the screen against the pen. In a simultaneous process, the machine turns the pen, and a squeegee brushes across the surface of the screen spreading the ink through the exposed area of the screen and applying it to the product. The pens then leave the printing station and runs through a UV dryer before they are dumped in to the finished bin. If a second color is going to be printed on the product, another screen is created that has just the 2nd colors image burned on it and the whole process starts over again.

Once the printing process is complete, the screen is removed, washed free of emulsion and stored for later use. In some cases the screens are kept for a re-order.

A video below demonstrates a pen printing machine in action.