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Printing technique This article includes a list of general references, but it lacks sufficient corresponding inline citations. (November 2019) (Learn how and when to remove this template message) Not to be confused with print screen. A silk screen design Part of a series on the History of printing Techniques Woodblock printing 200 Movable type 1040 Intaglio (printmaking) 1430 Printing 1690 Aquatint 1772 Lithography 1837 Rotary press 1843 Hectography 1860 Offset printing 1875 Hot metal types etting 1884 Mimeography 1885 Daisy wheel printing1889Photostat and rectigraph1907Screen printing1911Spirit duplicator1923Dot matrix printing1950Dye-sublimation1957Laser printing1940Phototypesetting1940Photot printing (traditionally called silkscreen printing; also known as serigraphy and serigraph printing) is a printing technique where a mesh is used to transfer ink (or dye) onto a substrate, except in areas made impermeable to the ink by a blocking stencil. A blade or squeegee is moved across the screen to fill the open mesh apertures with ink, and a reverse stroke then causes the screen to touch the substrate momentarily along a line of contact. This causes the ink to wet the substrate and be pulled out of the mesh apertures as the screen springs back after the blade has passed. One colour is printed at a time, so several screen screen screen screen screen screen screen screen springs back after the blade has passed. Traditionally, silk was used in the process. Currently, synthetic threads are commonly used in the screen printing process. The most popular mesh in general use is made of polyester. There are also different types of mesh size which will determine the outcome and look of the finished design on the material. The technique is used not only for garment printing but for printing on many other substances, include laying down conductors and resistors in multi-layer circuits using thin ceramic layers as the substrate. History The poster shop at Heart Mountain War Relocation Center was operated by Japanese-American internees who used the silkscreen method to design information for the entire center (January 1943) Origins Screen printing first appeared in a recognizable form in China during the Song Dynasty (960-1279 AD).[1][2] It was then adapted by other Asian countries like Japan, and was further created using newer methods. Adoption in the West Screen printing was largely introduced to Western Europe from Asia sometime in the late 18th century, but did not gain large acceptance or use in Europe until silk mesh was more available for trade from the east and a profitable outlet for the medium discovered. Early in the 1910s, several printers experimenting with photo-reactive chemicals used the well-known actinic light-activated cross linking or hardening traits of potassium, sodium or ammonium chromate and dichromate and dichromate chemicals with glues and gelatin compounds. Roy Beck, Charles Peter and Edward Owens studied and experimented with chromic acid salt sensitized emulsions for photo-reactive stencils. This trio of developers would prove to revolutionize the commercial screen printing industry by introducing photo-imaged stencils to the industry, though the acceptance of this method would take many years. Commercial screen printing now uses sensitizers far safer and less toxic than bichromates. Currently, [when?] there are large selections of pre-sensitized emulsion chemicals for creating photo-reactive stencils. A group of artists who later formed the National Serigraph Society, including WPA artists Max Arthur Cohn, Anthony Velonis and Hyman Warsager, coined the word "serigraphy" in the 1930s to differentiate the artistic application of screen printing from the industrial use of the process.[3] "Serigraphy" is a compound word formed from Latin "sericum" (silk) and Greek "graphein" (to write or draw).[4] The Printers' National Environmental Assistance Center says, "Screenprinting is arguably the most versatile of all printing processes. Since rudimentary screenprinting materials are so affordable and readily available, it has been used frequently in underground settings and subcultures, and the non-professional look of such DIY culture screenprints have become a significant cultural aesthetic seen on movie posters, record album covers, flyers, shirts, commercial fonts in advertising, in artwork and elsewhere. [verify] 1960s to present Video of Silk Screening process for decal paper to be pasted on the ceramic wares Credit is given to the artist Andy Warhol's silk screens include his 1962 Marilyn Diptych, which is a portrait of the actress Marilyn Monroe printed in bold colours. Warhol was supported in his production by master screen printer Michel Caza, a founding member of Fespa. [5][6] Sister Mary Corita Kent gained international fame for her vibrant serigraphs during the 1960s and 1970s. Her works were rainbow coloured, contained words that were both political, and fostered peace and love and caring. American entrepreneur, artist and inventor Michael Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine in 1960. Vasilantone started to use, develop, and sell a rotatable multicolour garment screen printing machine started to use, develop, and sell a rotatable multicolour garment screen printing machine screen printing machi logos and team information on bowling garments, but was soon directed to the new fad of printing on T-shirts. The Vasilantone patent was licensed by multiple manufacturers and the resulting production and boom in printed T-shirts made this garment screen printing machine popular. Screen printing on garments currently [when?] accounts for over half of the screen printing activity in the United States. [8] Graphic screen-printing is widely used today to create mass- or large-batch produced graphics, such as posters or display stands. Full colour printing in CMYK (cyan, magenta, yellow and black). Screen printing lends itself well to printing on canvas. Andy Warhol, Arthur Okamura, Robert Rauschenberg, Roy Lichtenstein, Harry Gottlieb and many other artists have used screen printing as an expression of creativity and artistic vision. Another variation, digital hybrid screen printing, is a union between analog screen printing and traditional digital direct-to-garment printing, two of the most common textile embellishment technologies in use today. Essentially, digital hybrid screen printing is an automatic screen printing is capable of variable data options, creating endless customizations, with the added ability of screen print specific techniques. Method Screen printers use a silkscreen, a squeegee, and hinge clamps to screen print their designs. The ink is forced through the mesh using the rubber squeegee, and hinge clamps to screen print their designs. The ink is forced through the mesh using the rubber squeegee, and hinge clamps to screen print their designs. The ink is forced through the mesh using the rubber squeegee, and hinge clamps to screen print their designs. The ink is forced through the mesh using the rubber squeegee, and hinge clamps to screen print their designs. printed image A screen is made of a synthetic polymer, such as nylon, and a finer and smaller aperture for the mesh to be effective, it must be mounted on a frame and it must be under tension. The frame which holds the mesh could be made of diverse materials, such as wood or aluminum, depending on the sophistication of the mesh may be checked by using a tensiometer; a common unit for the measurement of the tension of the mesh is Newton per centimeter (N/cm). How to screen print one imageHow to screen print with multiple layers using CMYK A stencil is formed by blocking off parts of the screen in the negative image of the design to be printed; that is, the open spaces are where the ink will appear on the substrate. Before printing occurs, the frame and screen must undergo the pre-press process, in which an emulsion is 'scooped' across the mesh. Once this emulsion has dried, it is selectively exposed to ultra-violet light, through a film printed with the required design. This hardens the emulsion in the exposed areas but leaves the unexposed parts soft. They are then washed away using a water spray, leaving behind a clean area in the mesh with the identical shape as the desired image, which will allow passage of ink. It is a positive process. In fabric printing, the surface supporting the fabric to be printed (commonly referred to as a pallet) is coated with a wide 'pallet tape'. This serves to protect the 'pallet' from any unwanted ink leaking through the screen and potentially staining the 'pallet' or transferring unwanted ink onto the next substrate. Next, the screen and frame are lined with a tape to prevent ink from reaching the edge of the screen and the frame. The type of tape used in for this purpose often depends upon the ink that is to be printed onto the substrate. More aggressive tapes are generally used for UV and water-based inks due to the inks' lower viscosities and greater tendency to creep underneath tape. The last process in the 'pre-press' is blocking out any unwanted marks. To block out these holes, materials such as tapes, speciality emulsions and 'block-out pens' may be used effectively. The screen is placed atop a substrate. Ink is placed on top of the screen and behind a reservoir of ink. The operator lifts the screen to prevent contact with the substrate and then using a slight amount of downward force pulls the fill bar to the front of the screen. This effectively fills the mesh openings with ink and moves the ink reservoir to the front of the screen. The operator then uses a squeegee (rubber blade) to move the mesh down to the substrate and pushes the squeegee to the rear of the screen. The ink that is in the mesh opening is pumped or squeezed by capillary action to the substrate in a controlled and prescribed amount, i.e. the wet ink deposit is proportional to the thickness of the mesh and or stencil. As the squeegee moves toward the rear of the screen the tension of the mesh and or stencil. substrate surface. There are three common types of screen printing presses: flat-bed, cylinder, and rotary.[9] A development of screen printing with flat screens from 1963 was to wrap the screen around to form a tube, with the ink supply and squeegee inside the tube. The resulting roller rotates at the same speed as the web in a roll-to-roll machine. The benefits are high output rates and long rolls of product. This is the only way to make high-build fully patterned printing/coating as a continuous process, and has been widely used for manufacturing textured wallpapers. Textile items printed with multi-coloured designs often use a wet on wet technique, or colours dried while on the press, while graphic items are allowed to dry between colours that are then printed with another screen and often in a different colour after the product is re-aligned on the press. Most screens will have to undergo a further step in the reclaiming process called dehazing. This additional step removes haze or "ghost images" left behind in the screen once the emulsion has been removed. Ghost images tend to faintly outline the open areas of previous stencils, hence the mesh, often in the knuckles of the mesh (the points where threads cross). Stencils A macro photo of a screen print with a photographically produced stencil. The ink will be printed where the stencil does not cover the substrate A method of stencilling that has increased in popularity over the past years is the photo emulsion technique: The original image is created on a transparent overlay, and the image may be drawn or painted directly on the overlay, photocopied, or printed with a computer printer, but making so that the areas to be inked are not transparent. Any material that blocks ultra violet light can be used (projected onto the screen). However, unlike traditional plate-making, these screens are normally exposed by using film positives A screen must then be selected. There are several different mesh counts that can be used depending on the detail of the design being printed. Once dry, it is then possible to burn/expose the print. The overlay is placed over the screen, and then exposed with a light source containing ultraviolet light in the 350-420 nanometer spectrum. The screen is washed off thoroughly. The areas of emulsion that were not exposed to light dissolve and wash away, leaving a negative stencil of the image on the mesh. Garment printing inks This section does not cite any sources. Please help improve this section by adding citations to reliable sources. Unsourced material may be challenged and removed. Find sources: "Screen printing" - news · newspapers · books · scholar · JSTOR (February 2022) (Learn how and when to remove this template message) Hand-painted colour separation on transparent overlay by serigraph printer Csaba Markus Caviar beads A caviar bead is a glue that is printed in the shape of the design, to which small plastic beads are then applied - works well with solid block areas creating an interesting tactile surface. Cracking ink Ink may be so applied as to produce a cracked surface after drying. Similar cracking may occur unintentionally if the ink does not cure fully. Discharge inks Discharge inks use zinc formaldehyde sulfoxylate (the zinc analogue of Rongalite) to remove, or discharge their dye to different degrees. The fumes resulting from the application and curing are pungent and strong ventilation and a face mask are commonly needed to relieve exposure. Pros to this process is that discharge is especially effective for distressed prints and under-basing on dark garments that are to be printed with additional layers of plastisol. It adds variety to the design and the commonly needed to relieve exposure. gives it that natural soft feel. Expanding ink, or puff, is an additive to plastisol inks which raises the print off the garment, creating a 3D feel and look to the fabric and then flock material is applied for a velvet touch. Foil Foil is much like flock, starting with an adhesive glue or plastisol ink base layer. Foil is finished by applying a thin sheet of reflective/mirror like material on top of the screened base, then heat pressed to set. The foil substrate does not adhere to non-screened areas of the design, and the balance of the foil sheet is discarded. Four-colour process or the CMYK colour model Four-colour process is when the artwork is created and then separated into four colours (CMYK) which combine to create the full spectrum of colours needed for photographic prints. This means a large number of colours can be simulated using only 4 screens, reducing costs, time, and set-up. This processes utilises halftones. The inks are required to blend and are more translucent, meaning a compromise with vibrancy of colours. Glitter/shimmer ink is when a clear base laid over previously printed inks to create a shiny finish. Metallic ink is similar to glitter, but smaller particles suspended in the ink. A glue is printed onto the fabric, then nano-scale fibers applied on it. This is often purchased already made. Mirrored inks to create a shiny finish. Metallic ink is similar to glitter, but smaller particles suspended in the ink. A glue is printed onto the fabric, then nano-scale fibers applied on it. This is often purchased already made. tarnishing over time. Nylobond Nylobond is a special ink additive for printing onto technical or waterproof fabrics. Plastisol is the most common ink used in commercial garment decoration. Good colour opacity onto dark garments and clear graphic detail with, as the name suggests, a more plasticized texture. This print can be made softer with special additives or heavier by adding extra layers of ink. Plastisol inks require heat (approx. 150 °C (300 °F) for many inks) to cure the print, except in the case of low cure inks. PVC and phthalate free PVC and phthalate also has a soft texture and is being produced by most major suppliers.[10] Suede ink Suede ink Suede ink Suede ink sa mulky coloured additive that is added to plastisol. With suede additive you can make any colour of plastisol have a suede feel. It is actually a puff blowing agent that does not bubble as much as regular puff ink. The directions vary from manufacturer to manufacturer, but generally up to 50% suede can be added to normal plastisol. Water-based inks these penetrate the fabric more than the plastisol inks and create a much softer feel. Ideal for printing darker inks onto lighter coloured garments. Also useful for larger area prints where texture is important. Some inks require heat or an added catalyst to make the print permanent. Water-based dye (ink) As opposed to a thicker 'Plastisol Alternative' this (ink) arrives as a concentrate which is mixed into a printing paste (thickener) to allow Screen Printing, this process is best used on light garments and as the dye is in the fibers themselves is often used for dish cloths, napkins and the like. This is similar to traditional textile printing. High density Hig process, the varnish yields a Braille effect, hence the term 'high density'. Non-garment uses Screen with exposed image ready to be printed under pressure, unlike etching or lithography, and it does not have to be planar. Different inks can be used to work with a variety of materials, such as textiles, ceramics, [11] wood, paper, glass, metal, and plastic. As a result, screen printing is used in many different industries, including: Balloons Clothing Decals Medical devices Printed electronics, [12] including circuit board printing Product labels Signs and displays Snowboard graphics Textile fabric Thick film technology Pinball machines In screen printed on the back. Subsequently, aluminum paste is dispensed over the whole surface of the back for passivation and surface reflection. One of the parameters that can vary and can be controlled in screen printing is the thickness of the print. This makes it useful for some of the techniques of printing is the thickness of the print. This makes it useful for some of the parameters that can vary and can be controlled in screen printing is the thickness of the print. rate, though high throughput at the printing stage improves the throughput of the whole cell production line. Automation To print multiple copies of the screen printing press, which is a colloquial term as most screen printing machines are vastly different from Offset Printing Presses. Many companies offer simple to sophisticated printing presses. These presses come in one of three types, Manual (also referred to as Handbench), Semi-Automatic machines with manual machines for small runsels for small runsels. and sampling. Whilst Manual Screen Printing on to tables. Semi and Fully-Automatic machines are broken into two main categories; Flatbed Printers[13] (Poster, Art Printing or other flat substrates) and Carousels and Oval Machines (Garments and other apparel, amongst other textiles). Both which are fundamentally similar in terms of automation but differ in areas such as physical footprint and upgrade paths.[14] These machines are much faster and use either pneumatic pressure generated by air compressors or use electric motors to draw the squeegees, rotate and raise or lower pallets removing much of the manual labour from the task - resulting in significant reductions in operator fatigue as well as more consistent results. With printed circuit board (PCB), and the top and bottom sides are described in individual Gerber files like any other layers (such as the copper and solder-stop layers).[15] Typical names for these service print overlays include tSilk/bSilk aka PLC/PLS[16][nb 1] or TSK/BSK (EAGLE), F.SilkS/B.SilkS (KiCad), PosiTop/PosiBot (TARGET), silkTop/silkBottom (Fritzing), SST/SSB (OrCAD), ST.PHO/SB.PHO (PADS), SEVS/SERS (WEdirekt)[17] or TSK/BSK (EAGLE), F.SilkS/B.SilkS (KiCad), PosiTop/PosiBot (TARGET), silkTop/silkBottom (Fritzing), SST/SSB (OrCAD), ST.PHO/SB.PHO (PADS), SEVS/SERS (WEdirekt)[17] or TSK/BSK (EAGLE), F.SilkS/B.SilkS (KiCad), PosiTop/PosiBot (TARGET), silkTop/silkBottom (Fritzing), SST/SSB (OrCAD), ST.PHO/SB.PHO (PADS), SEVS/SERS (WEdirekt)[17] or TSK/BSK (EAGLE), F.SilkS/B.SilkS (KiCad), PosiTop/PosiBot (TARGET), silkTop/silkBottom (Fritzing), SST/SSB (OrCAD), ST.PHO/SB.PHO (PADS), SEVS/SERS (WEdirekt)[17] or TSK/BSK (EAGLE), F.SilkS/B.SilkS (KiCad), PosiTop/PosiBot (TARGET), silkTop/silkBottom (Fritzing), SST/SSB (OrCAD), ST.PHO/SB.PHO (PADS), SEVS/SERS (WEdirekt)[17] or TSK/BSK (EAGLE), F.SilkS/B.SilkS (KiCad), PosiTop/PosiBot (TARGET), silkTop/silkBottom (Fritzing), SST/SSB (OrCAD), ST.PHO/SB.PHO (PADS), SEVS/SERS (WEdirekt)[17] or TSK/BSK (EAGLE), F.SilkS/B.SilkS (EAGLE), F.SilkS GTO/GBO (Gerber and many others[18]). See also Batik Gocco Ink jet Notes ^ The letters 'C' and 'S' in EAGLE's old Gerber filename extensions .PLC/.PLS for the top and bottom silk screens have their origin in times when printed circuit boards were typically equipped with components populated on one side of the board only, the so called "component side" (top) versus the opposite "solder side" (bottom) where these components were soldered (at least in the case of through-hole components). Each silk screen layer is often a combination of the corresponding Place and Names layers (and the Dimension layer), thus the 'PL' in the filename extension. References ^ Sheng, Angela (1999) "Review: Why Ancient Silk Is Still Gold: Issues in Chinese Textile History". Ars Orientalis, 29. JSTOR 4629553. ^ "History's Influence on Screen Printing's Future | ScreenWeb". screenweb.com. 2006-05-04. Archived from the original on 2013-01-21. Retrieved 2012-11-15. ^ "Interview with WPA silkscreen artist Tony Velonis". Library of Congress. 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