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Screen Printing Technology Hand Book

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Description

Screen printing is a printing technique that uses a woven mesh to support an ink blocking stencil. The attached stencil forms open areas of mesh that transfer ink or other printable materials which can be pressed through the mesh as a sharp edged image onto a substrate. A roller or squeegee is moved across the screen stencil, forcing or pumping ink past the threads of the woven mesh in the open areas. Screen printing proves to be a good printing process for multi colour printing. Half tone printing is related to screen printing of photographs. Printings of photographs was at one time considered to be very difficult in screen printing, but now screen printed halftone photographs are also effective and economical in certain types of reproduction. Over the time stickers (transfer) have become an important medium of advertising. Now millions of stickers are printed every year through this method. Transfer stickers are of three types; instant transfer, heat transfer and water lade transfer. Gumming is an integral part of sticker production. Screen printing technique make use of and is compatible with a variety of materials, including textiles, ceramics, metal, wood, paper, glass, and plastic. It is this quality that allows this printing technique to be used in different industries, from clothing to product labels, fabric labels to circuit board printing etc. Screen printing industry experiences growth in the 10 to 15% per year rate.

Some fundamentals of this book are basic concept and classification of stencils, basic screen printing process, basic registration techniques, screen printing frames, pre treatment of screen printing fabrics, screen printing press, principal of screen process printing, printing on paper and card, printing on vertical surfaces, printing on shaped objects, cylindrical object printing, printing on uneven surfaces, ceramic and glass printing, printing on plastics etc.

This method of Printing has achieved wide spread popularity since the Second World

War, although the basic ideas in this process were used by the Chinese centuries ago. The present book contains latest technologies of screen printing along with machinery photographs, addresses of suppliers of machinery and raw materials. This book will be very helpful to new entrepreneurs, existing units and for those who want to diversify in to this field.

Content

1. Introduction

What is Screen Printing?

Seeking a challenging and creative career?

Screen printing is ancient, yet a highly revolutionary industry

Print on virtually anything

Screen printing is universal - you see it everywhere

Screen printing is simple

Screen Print Materials

Frames

Screen Mesh

Screen Prep Tape

Stencil Systems

Capillex Film (Pre-Sensitized Photo Stencils

G&S Pigment System

Essential Components

Base

Pigment

Resfix

Anti-bleedScreen

Softener

Ink Retarder

Creating Artwork

Other basic Tools and Supplies

Creating a Positive by Hand

Rubbing Dry Transfer Lettering onto

Clear Acetate (Transtay)

For Straight Type

For Arched Type

Tracing an Image onto Matte Acetate

Assembling Base Art
Putting together all parts of your artwork -
images and message
Cutting the Image out of Masking Film
Instant Positives with Velum (Drafting Paper)
For All Multi-Colour Artwork
Labeling Artwork
Mesh Preparation
Roughening the Mesh
Procedure
Degreasing the Mesh
Procedure
Preparing the Stencil
Using Capillary Film
Using Direct Emulsions
Mixing the Emulsion
Coating the Emulsion onto A Screen
Storage and Handling of Stencil Materials
Capillary Films
Direct Emulsions
Exposing the Stencil
Positioning the Artwork: Size and Placement
of Image on Substrate
Positioning the Artwork on the Screen
Exposing Units
Table Top Exposing Unit
Features
Building An Exposing Unit
The Fluorescent Tube Unit
To Expose
The Plate Light
To Expose
Exposure Time of Different Stencil Materials
Direct Emulsions
Preparing the Screen For Printing
Washing Out the Stencil
Blocking Out Pinholes
Taping the Screen
Printers
Table Top 4 Colour Printer

Printing on A Table Surface
Off-Contact Printing
Printing
Flood Stroke
Print Stroke
Stencil Removal/Screen Reclaiming
Reclaiming A Screen
Removing Tape And Ink
Removing Stencil Material
Procedure
Removing Stains Or Ghost Images with
Autohaze
Procedure
Roughening the Mesh with Autoprep
Degreasing the Mesh with Universal
Mesh Prep
Review - Screen Reclaiming
Fault Finding Guide
Capillex Films
Stencil film washes off mesh
Ragged edges
Fine detail filling
Pinholes
Poor adhesion
Patchy stencil
Difficult washout
Direct Emulsions
Sawtoothing
Exposed emulsion washes off mesh
Fine detail filling in
Premature stencil breakdown
Pinholes
Scumming
Image does not wash out at all

2. Screen Printing

Historical Background

Introduction

Section 1

Basic Concept and Classification of Stencils

The Stencil

Types of Stencils

Fabric and Frame Preparation

Screen Fabrics

Screen Frames

Fabric Stretching Techniques

Mechanical Stretching

Hand Stretching

Fabric Treatment

Photographic Stencil Methods

Direct Process

Direct/Indirect Process

Determining Photographic Stencil Exposures

Indirect Photographic Stencil Process

Exposure

Development and Washing

Application of the Stencil

Drying

Removal of the Base Material

Direct photographic Stencil Process

Preparation

Application

Drying

Exposure

Development

Masking the Stencil

Preparing a Paper Mask

Preparing a Liquid Block-out Mask

Squeegee and Ink Considerations

Selecting the Proper Squeegee

Shape

Chemical Makeup

Flexibility

Length

Squeegee Preparation

Selecting the Proper Ink

Product Characteristics

Production Limitations

Ink Preparation

Basic Screen Printing Process

Basic Registration Techniques
On-Contact and Off-contact Printing
Printing the Stencil
Multicolor Printing
Drying the Image
Cleaning the Screen
Removing the Stencil
Troubleshooting Clogged Screens
Halftone Reproduction in Screen Printing
Methods of Halftone preparation for Screen
Printing
Fabric Selection
Moire Patterns
Printing Considerations
High-Speed Production Presses
Semiautomatic Presses
Fully Automatic Presses
Special Machine Configurations
Screening Cylindrical surfaces
Carousel Units

3 Screen printing frames
Pre-treatment of Frames
Stretching equipment
Pneumatic stretching clamps
Advantages
Mounting
Components of the SST system
Correct stretching
Optimum tensioning force for different fabrics
Stability
Control of tension in measuring fabric stretch
Stretching at a fabric angle
Stretching methods
Angled stretching with a prop profile
Adhesive
Adhering screen printing fabrics onto
the frame
Screen Storage
The manufacture of diapositives

Manual diapositives
Photographically prepared diapositives
Important
Stencils
Pre-treatment of Screen Printing Fabrics
Stencil making
Manual stencils
Photo-mechanical stencils
Manual stencil making
The hand-cut stencil
Water soluble hand-cut film
Cellulose hand-cut film
Causes of errors
Bad adherence
Turned-up film edges
The direct stencil with emulsion
General procedure
Sources of errors with direct stencils
Made only with emulsion
Formation of fish-eyes after coating
Air inclusions during coating
Poor adherence of the photo emulsion after exposure
Light scatter when copying (loss of detail)
Saw-tooth effect
Half-tone printing
Difficulties in decoating
Stencils for water-based inks
Emulsions (photo emulsions)
Sensitizers
CHROMATE photo emulsion
DIAZO photo emulsions
Printing requirements
Lines
Half-tones
UV-inks
Fineness of fabrics
Examples for coating
The direct stencil with film and emulsion
General procedure

Sources of errors with direct stencils

made with film and emulsion

Bad adherence of the film on the fabric

Use of too fine a fabric

Too hard or too sharp a squeegee

Dust inclusions

Too short an exposure time

Error in exposure

General procedure

Source of errors with direct stencil

made with film and water

Bad adherence of the film on the fabric

Insufficient treatment of the fabric

Error in exposure

Indirect stencil

General procedure

Sources of errors with indirect stencils

Bad adherence of the film on the fabric

Insufficient treatment of the fabric

Insufficient degreasing of the fabric

Too long an exposure time

Inactive developer

Drying the stencil with warm air

Exposure

Hardening of stencils for printing of water

based colours in textile printing

General procedure

The hardening procedure

Attention

Suggestion

The diapositive

The stencil

Steel and light-alloy frames

The linear co-efficient of thermal expansion

Frame distortion by fabric pull

Warping of the frames under various
mechanical stresses

Steel versus Aluminium

Recommendations for frame size and
profile

Screen printing fabrics
Optimum tightness of the fabric stretch
Degree of Stretch
Gluing the fabrics to the printing frames
The printing substrate
Stencils for half-tone printing
Types of screen rulings
Printing
Setting a flat bed printing table
SST-measuring wedge
The squeegee
Squeegee System
Flood coat squeegee (Doctor blade)
Printing speed
Printing shaped objects
Single operation multiple colour printing

4. The difference between multi-filament
& mono-filament screen printing
fabrics
UV-Goldorange

5. Screen Printing Press
The Screen-Printing Press
Types of Fabrics
Construction of Fabrics
Mesh Count, Mesh Strength, and Mesh
Opening
Stretching The Screen Fabric
How to Build A Screen-Process Press?
Step 1 : Assemble Needed Materials
Bill of Materials
Step 2 : Construct the Frame
Step 3: Attach the Screen Fabric
Step 4: Tape and Seal the Screen
Step 5: Prepare the Base
Step 6: Hinge the Frame to the Base
Step 7: Add a Frame Support
Print drying equipment
Constructing Specialty Equipment

Screen Printing On: Papers, Textiles and Other Printing Substrates

Type of Paper

Principal of Screen Process Printing

Common Types of Paper

Color of Stock

Textiles

Type of Fabric

Common Types of Fabrics

Printing on T-shirts

Plastics

Types of Plastics

Metals

Woods

Ceramics

Screen-Process Stencils

Hand-cut Paper Stencil

To Prepare a Paper Stencil

Step1: Image the Paper

Step 2: Cut the Stencil

Step 3: Adhere the Stencil

Hand-cut film stencil

To prepare a Film Stencil

Step 1: Prepare for Cutting

Step : Cut the Stencil

Step : Adhere the Stencil

Step 4: Remove the Backing Sheet

Photographic stencils

To Prepare an Indirect Photographic Stencil

Step 1: Prepare for Exposure

Step 2: Load the Frame

Step 3: Expose the Stencil

Step 4: Develop the stencil

Step 5: Wash Out the Stencil

Step 6: Adhere the Stencil

To Prepare a Direct Photographic Stencil

Step 1: Mix the Emulsion

Step 2: Coat the Screen

Step 3: Expose the Screen

Step 4: Process the Stencil

To prepare a Direct/Indirect Photographic Stencil

Step 1: Sensitize the Coating Solution

Step 2: Adhere the Film to the Fabric

Step 3: Expose the Stencil

Step 4: Wash out the Stencil

Screen Printing

Automatic Press

The printing form makes it possible

The screen printing features and their singularity

Choosing A printing Process

Letter Press

Advantage

Limitations

Lithography

Advantage

Limitation

Photo Gravure

Advantage

Limitation

Screen Printing

Advantage

Limitation

Collo Type

Advantage

Limitation

Flexo Graphic

Advantages

Limitation

What process to use

6. Printing On Various Surfaces

Printing on Paper and Card

Articles With Thick Surfaces

Printing on Metal & Metal Foils

Textile Printing

Textile Inks

Make Ready

Very long Banners

Printing On Vertical Surfaces
Printing On Shaped Objects
Cylindrical Object Printing
Printing on Uneven Surfaces
Ceramic and Glass Printing
Printing On Plastics
Summary

7. The Printing Process

Actual Printing
Elementary Work
Selection of Ink
Use of Squeegee
Coating of ink layer
Racking or Drying
Multi - Colour Screen Printing
Colour Scheme
Colour Separation
Temporary Blockout
Permanent Blockout
Single Operation Multiple Colour Printing
Printing of coloured background (Patch)
Halftone Printing
Preparation of stencil for half tone printing
Stickers (Transfers)
Transfer stickers
Gumming
Cleaning Operations
Summary

8. Tabulation

Polyester Monofilament
Nylon Monofilament
Metallized Polyester Monofilament
UV-Goldorange
Polyester Monofilament
Fabric number
Carbon

Machinery Section

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