SPECIALTY BIO-DEGRADABLE SOLVENTS

2005 RUBBERIZED INK WASH

A specialty wash made for rubberized inks and expanding foam inks. These are usually very difficult inks to remove. Always test before using. This wash is not recommended for use in Screen Systems standard Recycling Systems.

SYS-2005-G   Gal.   SYS-2005-15G   15 Gal.
SYS-2005-5G   5 Gal.

2030 HOT MELT INK WASH

A specialty wash made for removing hot melt inks from ceramic dishes. These are usually very difficult inks to remove and misprints are many times waste. Always test before using. This wash is not recommended for use in Screen Systems standard Recycling Systems.

SYS-2030-G   Gal.   SYS-2030-15G   15 Gal.
SYS-2030-5G   5 Gal.   SYS-2030-55G   55 Gal

CONVENTIONAL SOLVENTS

Gal.These are a series of solvent blends that have been used by screen printers for decades. The demise of the original manufacturer prompted Screen Systems to continue with this series of solvents using the original formulations. Not only do they work well with many types of inks, but can improve flow, control drying, and improve productivity.

1900 THINNER & WASHUP

Formulated as a mild solvent and thinner for poster and enamel inks. Helps control viscosity without changing dry times. Always test before using.

SYS-1900-G   Gal.   SYS-1900-5G   5 Gal.

1902 LACQUER THINNER

Formulated as a fast washup for a wide variety of inks including; poster, enamels, lacquers, multi-purpose, acrylic, epoxy, and UV inks. One of the products that should be in every shop. Always test before using.

SYS-1902-G   Gal.   SYS-1902-5G   5 Gal.
SYS-1902-55G   55 Gal.

1910 SLOW THINNER

Formulated as a slow solvent and thinner for poster and enamel inks. Helps control viscosity and eliminate drying in problems. Always test before using.

SYS-1910-G   Gal.   SYS-1910-5G   5 Gal.

1911 VINYL WASHUP

Formulated as a efficient solvent to clean up all types of vinyl ink. Excellent for on the press cleaning. Fast Drying Always test before using.

SYS-1911-G   Gal.   SYS-1911-5G   5 Gal.

1920 SLOW VINYL THINNER

Formulated as a slow solvent and thinner for vinyl inks. Helps control viscosity and eliminate drying in problems. Useful for hand runs and rack drying. Always test before using.

SYS-1920-G   Gal.   SYS-1920-5G   5 Gal.

1925 MILD LACQUER
Our Best Selling Solvent

Formulated as a mild washup for a wide variety of inks including; poster, enamels, lacquers, multi-purpose, acrylic, epoxy, and UV inks. One of the products that should be in every shop. Always test before using.

SYS-1925-G   Gal.   SYS-1925-5G   5 Gal.
SYS-1902-55G   55 Gal.

1971 SLOW THINNER

Formulated as a slow solvent and retarder for acrylic and poly banner inks. Helps control viscosity and eliminate drying in problems. Always test before using.

SYS-1971-G   Gal.   SYS-1971-5G   5 Gal.

1980 RETARDER

Formulated as a very slow solvent for epoxy, vinyl, and polyester inks. Helps control viscosity and eliminate drying in problems. Useful for hand runs and rack drying. Always test before using.

SYS-1980-G   Gal.   SYS-1980-5G   5 Gal.

5100 FRAME PREP CLEANER
(Isopropyl Alcohol)

A mild solvent cleaner which evaporates without a trace. Can be used on wood, metal, or plastic frames to remove grease and dirt, and to insure maximum-strength adhesive bonds.

SYS-5100-Q   Qt.   SYS-5100-5G   5 Gallon
SYS-5100-G   Gal.

612-729-7361 ---- Phone   nwgraphic.com   800-221-4079 ---- Toll Free Phone
612-729-6647 ---- Fax   800-544-7022 ---- Toll Free Fax

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SPECIALTY TEXTILE PRODUCTS

CLEANING FLUIDS

PLASTISOL CLEANING GUNS

PLASTISOL REMOVER

1935 PLASTISOL REMOVER SPOT CLEANING FLUID

A fluid that will remove cured and uncured plastisol, water based inks, flock lettering, and adhesives, nylon and catalyst inks, etc. Formulated for all cleaning guns. Very fast acting, non-flammable fast drying, with minimum toxicity. This product requires employee exposure monitoring.

SYS-1935-5G   5 Gal.

ALBATROSS SPIFF 2 CLEANING FLUID

SPIF II is a new and unique cured ink remover which does not contain methylene chloride, perchloroethylene or any other chemical requiring a cancer warning. It has a high TLV and is not subject to the methylene chloride exposure monitoring standards. Flashpoint of over 141°F

SPIF-2-G   S.P.I.F. 2   Gal.
SPIF-2-5G   S.P.I.F. 2   5Gal

TEKMAR TS-3

A traditional cleaning fluid containing methylene chloride. This product requires employee exposure monitoring.

TS-3-G   Teckmar Remover   Gal.

KREBS TEXTILE SPOT CLEANING GUN

Saves rejects and seconds. High-pressure spot-cleaning guns remove misprints and smudges from material. Lightweight, high-impact plastic gun is outfitted with an adjustable nozzle for fine mist control.

54-1870-2   Tex-3 Spot-Cleaning Gun w/Nozzle.

ALBATROSS 4000 SPOT CLEANING GUN

This gun is an excellent combination of quality and economy. It is perfect for apparel contractors, screen printers and other medium volume use applications.

Features include;
• Adjustable spray head basket
to insure proper distance from garment.
• Powerful motor with Silicon Diode
• Wide mouth 16 oz. Reservoir
• Variable spray nozzle
• 40 watt motor
• Made in Switzerland for Precision Quality
• 7 Year Consumer's Protection Plan
• Vapor lock switch.
• Adjustable flow rate.

54-1871-3   4000 Spot-Cleaning Gun

GOOF GUN

Economy cleaning gun with high pressure adjustable nozzle.Cast metal housing makes it heavy for prolonged use.

54-1869-1   Goof Gun

CLEANING ACCESSORIES

EXHAUSTER

Superkleen Venta Systems provide strong vacuum suction to exhaust solvent fumes. The brisk air movement also dries the fabric aiding in the spot cleaning process. The volume of spot cleaning required and production facility space constraints will dictate which Superkleen Venta System will best serve your needs.
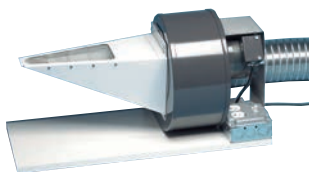
E-ALB-VENTA-1 Venta Table-Top System

ALBATROSS FLOOR MODEL EXHAUSTER

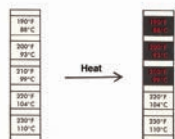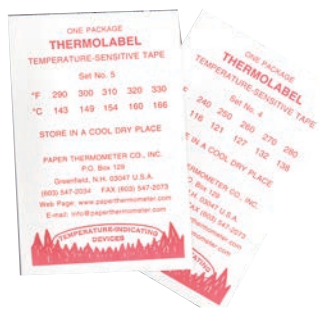This complete spot cleaning station takes up only 2 square feet of space.

Includes;
• Gun Reel
• 7' Support Pole
• Convenient Shelf to hold spotters or cleaning fluid
• Arm pivots to prevent ricochet of fluids.

E-ALB-VENTA-2 Venta Floor-Model System

PAPER THERMOMETER CO.

These are self-adhering labels with the same characteristics as Thermopaper and available as 5-temperature labels. The single temperature Thermolabels are completely enclosed in clear plastic for protection against water, steam, oil, grease, etc. The 5-temperature Thermolabels are not liquid tight and are used in tests where liquids are not present. Thermolabels are especially suited to supply thermal data on inaccessible areas such as remote parts of conveyor dryers. Sixteen labels per package.

TL/1	Set #1	(100°-130°F)
TL/2	Set #2	(140°-180°F)
TL/3	Set #3	(190°-230°F)
TL/4	Set #4	(240°-280°F)
TL/5	Set #5	(290°-330°F)
TL/6	Set #6	(340°-380°F)
TL/7	Set #7	(390°-435°F)
TL/8	Set #8	(450°-500°F)

LASER DIGITAL THERMOMETER

All you do is push the side button, aim the laser pointer where you want to check the temperature and release the button. The digital panel instantly reads the temperature of whatever the laser pointer is on. Switchable for Celsius of Fahrenheit. Runs on two AAA batteries.

PE-2   Digital Laser Thermometer

PROOFING MATERIALS

PROOFING SQUARES

An economical method of proofing screen designs prior to production runs, for design displays, and production records. These outstanding squares will not stick to palettes, will not rip or tear when removed, and have exceptional detail and color retention characteristics. Both sides can be used for further economies. Can also be used for heat transfer, sublimation, water color, and airbrush techniques.

STX-160	14 x 14" White	500 pcs.
STX-160-100	14 x 14" White	100 pcs.
STX-175	14 x 14" Black	500 pcs.
STX-175-100	14 x 14" Black	100 pcs.
STX-180	14 x 16" White	500 pcs.
STX-180-100	14 x 16" White	100 pcs.
STX 185	14 x 16" Black	500 pcs.
STX-185-100	14 x 16" Black	100 pcs.
STX-200	16 x 18" White	500 pcs.
STX-200-100	16 x 18" White	100 pcs.
STX-205	16 x 18" Black	500 pcs.
STX-205-100	16 x 18" B lack	100 pcs.
STX-260	18 x 20" White	500 pcs.
STX-260-100	18 x 20" Black	100 pcs.
STX-275	18 x 20" Black	500 pcs.
STX-275-100	18 x 20" Black	100 pcs.
STX-ST-200	18 x 21" White	50 pcs.

T-SHIRT TUBES

T-Shirt material woven in tubes. This is actual T-shirt material in long tubes. Ideal for testing. usually three prints can be put on each section of tubing by rotating the tube. Box of 25lb.

TUBE WHITE   White Transfer Tube
TUBE BLACK   Black Transfer Tube

NUMBERING STENCILS

Stencils are a fast and easy way to number sports garments. A screen is prepared with an unblocked square where you want the numbers to print. The paper stencils are placed on the garment in position. The screen is brought down and ink is printed through the screen and stencils. The screen is lifted and the paper stencils peeled off of the screen. Then on to the next number. Stencils are packaged in lots of 100. Sets have two hundred #1's and one hundred of all other numbers, plus spacers.

1234567890
STANDARD BLOCK

Two Inch Block Stencils

18-1048-0	#0	18-1048-5	#5
18-1048-1	#1	18-1048-6	#6
18-1048-2	#2	18-1048-7	#7
18-1048-3	#3	18-1048-8	#8
18-1048-4	#4	18-1048-S	Spacer Strip

18-1544-S	Two Inch Block Stencil Set

Four Inch Block Stencils

18-1072-0	#0	18-1072-5	#5
18-1072-1	#1	18-1072-6	#6
18-1072-2	#2	18-1072-7	#7
18-1072-3	#3	18-1072-8	#8
18-1072-4	#4	18-1072-S	Spacer Strip

18-1579-S	Four Inch Block Stencil Set

Six Inch Block Stencils

18-1110-0	#0	18-1110-5	#5
18-1110-1	#1	18-1110-6	#6
18-1110-2	#2	18-1110-7	#7
18-1110-3	#3	18-1110-8	#8
18-1110-4	#4	18-1110-S	Spacer Strip

18-1617-S	Six Inch Block Stencil Set

Eight Inch Block Stencils

18-1137-0	#0	18-1137-5	#5
18-1137-1	#1	18-1137-6	#6
18-1137-2	#2	18-1137-7	#7
18-1137-3	#3	18-1137-8	#8
18-1137-4	#4	18-1161-S	Spacer Strip

18-1633-S	Eight Inch Block Stencil Set

Ten Inch Block Stencils

18-1161-0	#0	18-1161-5	#5
18-1161-1	#1	18-1161-6	#6
18-1161-2	#2	18-1161-7	#7
18-1161-3	#3	18-1161-8	#8
18-1161-4	#4	18-1161-S	Spacer Strip

18-1668-S	Ten Inch Block Stencil Set

Twelve Inch Block Stencils

18-1173-0	#0	18-1173-5	#5
18-1173-1	#1	18-1173-6	#6
18-1173-2	#2	18-1173-7	#7
18-1173-3	#3	18-1173-8	#8
18-1173-4	#4	18-1173-S	Spacer Strip

18-1684-S	Twelve Inch Block Stencil Set

OUTLINE STENCILS

Outline stencils are slightly larger than block stencils and are used first to create two color numbers.

Four Inch Block Outline Stencils

18-1323-0	#0	18-1323-5	#5
18-1323-1	#1	18-1323-6	#6
18-1323-2	#2	18-1323-7	#7
18-1323-3	#3	18-1323-8	#8
18-1323-4	#4	18-1323-S	Spacer Strip

18-1838-S	Four Inch Block Stencil Outline Set

Six Inch Block Outline Stencils

18-1358-0	#0	18-1358-5	#5
18-1358-1	#1	18-1358-6	#6
18-1358-2	#2	18-1358-7	#7
18-1358-3	#3	18-1358-8	#8
18-1358-4	#4	18-1358-S	Spacer Strip

18-1854-S	Six Inch Block Stencil Outline Set

Eight Inch Block Outline Stencils

18-1374-0	#0	18-1374-5	#5
18-1374-1	#1	18-1374-6	#6
18-1374-2	#2	18-1374-7	#7
18-1374-3	#3	18-1374-8	#8
18-1374-4	#4	18-1374-S	Spacer Strip

18-1870-S	Eight Inch Block Stencil Outline Set

Ten Inch Block Outline Stencils

18-1390-0	#0	18-1390-5	#5
18-1390-1	#1	18-1390-6	#6
18-1390-2	#2	18-1390-7	#7
18-1390-3	#3	18-1390-8	#8
18-1390-4	#4	18-1390-S	Spacer Strip

18-1897-S	Ten Inch Block Stencil Outline Set

Twelve Inch Block Outline Stencils

18-1395-0	#0	18-1395-5	#5
18-1395-1	#1	18-1395-6	#6
18-1395-2	#2	18-1395-7	#7
18-1395-3	#3	18-1395-8	#8
18-1395-4	#4	18-1395-S	Spacer Strip

18-1688-S	Ten Inch Block Stencil Set

FULL BLOCK STENCILS

Full block stencils are similar to block stencil and are different in only four numbers (1, 2, 4, & 7). These have the extra block on the bottom as shown. Other numbers are the same as regular block.

1234567890
FULL BLOCK

Four Inch Full Block Stencils

18-1080-1	#1	18-1080-4	#4
18-1080-2	#2	18-1080-7	#7

18-1587-S	Four Inch Full Block Stencil Set

Six Inch Full Block Stencils

18-1129-1	#1	18-1129-4	#4
18-1129-2	#2	18-1129-7	#7

18-1625-S	Six Inch Full Block Stencil Set

FULL BLOCK STENCILS

Eight Inch Full Block Stencils
18-1145-1	#1	18-1145-4	#4
18-1145-2	#2	18-1145-7	#7

18-1641-S   Eight Inch Full Block Stencil Set

Ten Inch Full Block Stencils
18-1188-1	#1	18-1188-4	#4
18-1188-2	#2	18-1188-7	#7

18-1676-S   Ten Inch Full Block Stencil Set

Twelve Inch Full Block Stencils
18-1192-1	#1	18-1192-4	#4
18-1192-2	#2	18-1192-7	#7

18-1683-S   Twelve Inch Full Block Stencil Set

FULL BLOCK OUTLINE STENCILS

Full Block Outline stencils are slightly larger than block stencils and are used first to create two color numbers.

Four Inch Full Block Outline Stencils
18-1336-1	#1	18-1336-4	#4
18-1336-2	#2	18-1336-7	#7

18-1919-S   Four Inch Full Block Stencil Set

Six Inch Full Block Outline Stencils
18-1363-1	#1	18-1363-4	#4
18-1363-2	#2	18-1363-7	#7

18-1935-S   Six Inch Full Block Stencil Set

Eight Inch Full Block Outline Stencils
18-1383-1	#1	18-1383-4	#4
18-1383-2	#2	18-1383-7	#7

18-1951-S   Eight Inch Full Block Stencil Set

Ten Inch Full Block Outline Stencils
18-1399-1	#1	18-1399-4	#4
18-1399-2	#2	18-1399-7	#7

18-1986-S   Ten Inch Full Block Stencil Set

Twelve Inch Full Block Outline Stencils
18-1402-1	#1	18-1402-4	#4
18-1402-2	#2	18-1402-7	#7

18-1686-S   Twelve Inch Full Block Stencil Set

SOCCER BLOCK STENCILS

Eight Inch Soccer Block Stencils

18-1749-S   Eight Inch Soccer Block Stencil Set

TRANSFER PAPERS

PARCHMENT SILICONE PAPER
This highly transparent, silicone treated paper is ideal for cold peel, total transfers. Plastisol transfers are least likely to stick to this sheet. A 50 lb stock that is silicone treated on both sides. Always test print before production. May not shrink consistently from sheet to sheet, recommended for 2 colors maximum. Priced by the 500 sheet ream or individual sheet.

21-6026-1	12-1/2 x 12-1/2" Sheet
21-6027-3	12-1/2 x 18" Sheet
21-6029-3	25 x 38" Sheet
21-6030-7	12-1/2 x 18" Ream
21-6031-5	18 x 25" Ream
21-6032-3	35 x 38' Ream
21-6033-1	12-1/2 x 12-1/2" Ream

TRANS FRENCH T-75 (TRANSFERT 75)
A non-parchment white sheet that is the most heat stable transfer sheet available. Works well with multi-color designs with minimal paper shrinkage. Excellent for screen printing or lithography for cold peel transfers. Priced by the 500 sheet ream.

UPAPR-TF25	25X38" Trans French
UPAPR-TF11	12-1/2 x 12-1/2" Trans French

SOFT-TRANS 60
Considered to be the best for hot peel and split transfers. Also works well for cold peel transfers. Has good dimensionally stability for multi-color transfers. Also recommended for trans puff transfers. Priced by the 500 sheet ream.

UPAPR-ST25	25x38" Soft Trans
UPAPR-ST11	12-1/2 x 12-1/2" Soft Trans

SUPER-TRANS
A versatile heat transfer paper that can be used for the production of regular, high opacity, cold-peel, puff, glitter, and metallic transfers. Excellent stability for multi-color transfers. Not recommended for plastisol backed lithographic transfers. Priced by the 500 sheet ream.

UPAPR-SU25	25x38" Super Trans
UPAPR-SU11	12-1/2 x 12-1/2" Super Trans

ULTRA STRIP 3000
A coated hot peel paper that allows the screen printer to obtain complete plastisol ink release at the time of transfer, yet still maintain the hot peel look. Excellent opacity is obtained when transferred to dark garments. Priced by the 1000 sheet carton.

L US3000	25x38" Soft Trans

CLEAR TRANS FILM
Transfilm is a release coated (1 side) clear polyester film for production either hot or cold peel transfers. The release coating provides easy release and leaves a very smooth surface on the transferred image. The clear film makes placement and line up very easy. Ideal for tagless labels. A 75 micron thick plastic film that is much more dimensionally stable than paper and does not5 have a moisture / humidity problem. Priced by the sheet.

L-TF1927	19.5x27" Clear Trans Film

HEAT APPLIED CUTTING FILMS

Specialty Materials
A FULL LINE OF DIGITAL PRINTING AND PLOTTER CUT FILMS FOR TEXTILE DECORATION

THERMO FLEX PLUS

Compare the ease of weeding and applying ThermoFlex¨ Plus with competitive products and discover why so many professionals ask for it by name. ThermoFlex Plus is a durable polyurethane based material that is highly flexible. It has a soft hand and strong grip. ThermoFlex Plus is available in thirty-nine (37) colors with a matte finish to match popular team colors including metallic gold and silver with four (4) bright neons and six (6) Metal Flake colors. Available in widths of 15", 20", and 30" in lengths of 15', 30', and 75'.

TF-PLS-9100-WWLL	White	TF-PLS-9513-WWLL	Navy Blue
TF-PLS-9150-WWLL	Storm Grey	TF-PLS-9522-WWLL	Royal Blue
TF-PLS-9236-WWLL	Black	TF-PLS-9540-WWLL	Teal
TF-PLS-9301-WWLL	Red	TF-PLS-9562-WWLL	Sky Blue
TF-PLS-9305-WWLL	Dusty Rose	TF-PLS-9564-WWLL	Sapphire
TF-PLS-9307-WWLL	Medium Pink	TF-PLS-9576-WWLL	Columbia Blue
TF-PLS-9310-WWLL	Hot Pink	TF-PLS-9577-WWLL	Lilac
TF-PLS-9312-WWLL	Crimson	TF-PLS-9581-WWLL	Lavender
TF-PLS-9315-WWLL	Flame Red	TF-PLS-9584-WWLL	Royal Purple
TF-PLS-9333-WWLL	Orange	TF-PLS-9587-WWLL	Wine
TF-PLS-9335-WWLL	Tangerine	TF-PLS-9601-WWLL	Aqua Green
TF-PLS-9340-WWLL	Texas Orange	TF-PLS-9625-WWLL	Apple Green
TF-PLS-9350-WWLL	Maroon	TF-PLS-9633-WWLL	Kelly Green
TF-PLS-9426-WWLL	Athletic Gold	TF-PLS-9669-WWLL	Olive Drab
TF-PLS-9450-WWLL	Medium Yellow	TF-PLS-9676-WWLL	Forest Green
TF-PLS-9460-WWLL	Vegas Gold	TF-PLS-9729-WWLL	Vanilla Cream
TF-PLS-9465-WWLL	Ochre	TF-PLS-9789-WWLL	Chocolate
TF-PLS-9472-WWLL	Lemon Yellow		

THERMO FLEX PLUS METALLICS

TF-PLS-9834-WWLL	Antique Silver	TF-PLS-9843-WWLL	Old Gold

THERMO FLEX PLUS METAL FLAKES

TF-PLS-9848-WWLL	White	TF-PLS-9878-WWLL	Red
TF-PLS-9858-WWLL	Silver	TF-PLS-9888-WWLL	Blue
TF-PLS-9868-WWLL	Gold	TF-PLS-9898-WWLL	Green

THERMO FLEX PLUS NEON
NOTE: Neon colors will *NOT* layer!

TF-PLS-9910-WWLL	Neon Pink	TF-PLS-9930-WWLL	Neon Orange
TF-PLS-9920-WWLL	Neon Yellow	TF-PLS-9940-WWLL	Neon Green

THERMO FLEX SPORT

ThermoFlex® Sport is a durable thick film material designed to bridge the gaps in open-mesh athletic jersey.

You can heat press ThermoFlex® Sport at a relatively low (300° F - 320° F) temperature and short dwell time (8-10 seconds), which minimizes dye migration from colored polyester jersey mesh.You can transfer ThermoFlex® Sport to nylon jersey well using the lowest temperature (300° F) and the shortest dwell time (8 seconds). ThermoFlex® Sport is available in fifteen (15) standard team colors and Available in widths of 13.75", 18", and 27.5" in lengths of 15', 30', and 75'.

TF-SP-4100-WWLL	White	TF-SP-4522-WWLL	Royal Blue
TF-SP-4150-WWLL	Storm Grey	TF-SP-4576-WWLL	Columbia Blue
TF-SP-4236-WWLL	Black	TF-SP-4584-WWLL	Purple
TF-SP-4301-WWLL	Red	TF-SP-4633-WWLL	Kelly Green
TF-SP-4333-WWLL	Orange	TF-SP-4676-WWLL	Dark Green
TF-SP-4350-WWLL	Maroon	TF-SP-4843-WWLL	Old Gold
TF-SP-4526-WWLL	Athletic Yellow	TF-SP-4910-WWLL	Neon Pink
TF-SP-4513-WWLL	Navy Blue		

3M SILVER REFLECTIVE, 18" Rolls

3M™ Scotchlite™ Reflective Material is a cutter-ready film for heat applications. It is flexible, light weight, and comfortable to wear. After cutting, apply pre-spacing tape to top-side of image. To apply to fabric, remove paper carrier and place on substrate adhesive side down. Heat as follows:

Most fabrics: 350˚F for 20-30 seconds at med to firm pressure. For Nylon: 375˚F for 30 to 40 seconds at medium pressure. Allow to cool before removing carrier. Avoid applying over seams or stitches. Available in 1, 5, 25, and 100 meter x 18" rolls.

L8711-XX   3M Silver Reflective Roll   White
(Enter length for XX, 01, 05, 25, or 100)

FLOCK HEAT TRANSFER SYSTEM

Lancer's Super Flock is a complete transfer system for applying flock designs to a variety of fabrics and substrates. Super Flock has an 8 mil height that yields a beautiful, high loft transfer that is 60% higher than traditional flock. Flock transfers have excellent washability, and will adhere to cotton, cotton/polyester blends. polyester, acrylic s, denim, and many other surfaces. Not suitable for water-proofed materials. Sheets are 15 x 21"

PRINTING METHODS:
One Step Water Base Method: Print Aquabond Adhesive using light squeegee pressure and a soft squeegee printing like a flood stroke. A heavy deposit is required. Use 30 to 110 mesh and a waterproof stencil. Let air dry, then cure through a conveyer dryer at 325˚F to 350˚F. When cured, the Aquabond Adhesive will be a continuous film.

One Step Plastisol Method: Print 845 Adhesive onto flock paper using light pressure, leaving a heavy deposit. Use 80 to 110 mesh. Cure for one minute at 325˚F.

Two Step Method (FT87 & H23 Transfer Powder): Print FT87 onto flock paper using light squeegee pressure, leaving a heavy deposit. After screening, apply H23 crystals. Shake off excess, then let air dry for 6 to 10 hours. Excess crystals not shaken off, must now be removed with a soft bristle brush. If not sufficiently removed, crystals will melt in the heat curing process and carry over during transfer. Cure through conveyer dryer at 325˚F to 350˚F. When properly cured, the crystals will appear as a continuous film.

Transferring: Use light pressure, and heat at 350˚F for 10-20 seconds. (Thicker materials require more time.) Allow to cool down before peeling paper.

L-SF-1000	White
L-SF-1200	Black
L-SF-1400	Royal Blue
L-SF-1500	Navy
L-SF-1600	Bright Red
L-AQUABOND-X	Aquabond Adhesive
L845	Plastisol Adhesive
L-FT87	Flock Adhesive
L-H23	Flock Transfer Crystals

REFLECTIVE FILM
A printable reflective transfer system with 3M Scotchlite® material.

Features: Extremely high reflectivity and excellent durability for life of garment which retain reflectivity after repeated washings when applied properly. The Flash-Trans Reflective Transfer System can provide reflecting power similar to reflective transfer tapes while also allowing printers the ability to create custom decorated reflective designs. The Reflective Transfer System is a user friendly system consisting of 3M Scotchlite® Reflective Transfer Film, transfer adhesive and coupling Agent. Transfers made with this system and applied properly will typically retain reflectivity and aesthetic appeal for the life of the garment depending upon actual use, exposure conditions and maintenance

Opacity: Flash-Trans transfers are opaque and can be applied to 100% cotton or polyester blended garments of any color, with excellent day and night visibility. Transfers will appear a silver color when viewed in daytime conditions.

Mesh: Best results are achieved with polyester monofilament meshes in the 110-156 (43-62 metric) range.

Stencils: Use any direct emulsion or capillary film compatible with plastisol inks.

Additives: None recommended. When Flash-Trans Transfer Adhesive is mixed with Flash-Trans Coupling Agent the mixed ink will thicken when not in use. However, it will regain an easy printing viscosity when stirred or during the printing process.

Mixing Instructions: Thoroughly mix 100 parts of Flash-Trans Transfer Adhesive with 4 parts of Flash-Trans Coupling Agent by eight to make a workable printing solution. Use mixed adhesive within one hour of mixture. For optimal washfastness, it is critical that the Flash-Trans Coupling Agent be 4-6% of the total mixture. Because of this, it is highly recommended that the components be weighed with a reliable scale. Caution: Refer to the Material Safety Data Sheet as the Flash-Trans Coupling requires special handling.

Printing Instructions: Lightly spray the printing platen with a repositionable pressure sensitive spray adhesive and carefully place the transfer film backing side down against the platen. Apply a thin, uniform flood coat of the adhesive over the image. It is recommended for best results that the image be flood coated before the print stroke. Utilize screen mesh size and adjust speed of print stroke so that the gelled ink thickness is a approximately 3 mils in thickness.

Gel Instructions The Flash-Trans Transfer Adhesive solution will not air dry and must be gelled or semi-cured prior to application to garment. Using a conveyor style oven with either an infrared or forced air heat source, adjust the belt speed and temperature so the semi-cured image is dry to the touch, does not smear and has a smooth, rubbery feel. An image that looks wet or has a halo around it is under-gelled and the belt speed and oven temperature should be recalculated. A starting guideline is for the temperature to be 200°-250°F at belt level with a dwell time of 30-45 seconds. Do not stack semi-cured transfers until they have cooled to room temperature. Do not over cure transfers as this will cause poor adhesion and affect the longevity.

Transferring Instructions: Use a transfer machine with a flat surface where uniform heat and pressure may be applied. Transfer to garment at temperatures of 375°F for 15-20 seconds applying firm, 20-40 psi pressure. Allow transfer to cool to room temperature before removing the backing. Remove backing by firmly grabbing one corner and pulling diagonally in a continuous, smooth manner.

Caution: Exceeding transfer temperatures above 375° will make the backing difficult to remove. If higher temperatures are required for durability first apply the transfer at the recommended temperatures and then transfer again at the higher temperature using a slipsheet to protect the image. Always test the application prior to the production run.

Wash-Up: Clean screens and squeegees with mineral spirits or any screen wash designed for plastisol inks.

Storage: Store Flash-Trans Transfer Adhesive and Flash-Trans Coupling Agent at temperatures between 60°-90°F) Store 3M Scotchlite® Reflective Transfer Film at temperatures between 40°-90°F (4°-32°C). in a cool, dry area. For best storage results store sheets flat in the original shipping carton. Partially used rolls should either be stored in the original shipping carton or suspended horizontally through the core. Leftover pieces cut from a roll should also be stored flat.

Adhesives available in Qt, Gal, 5 Gal, and 55 Gal. drums

UFLTR-2024-10	20x24" 3M®Reflective Film	10 sht pkg
UFLTR-2024-25	20x24" 3M®Reflective Film	25 sht pkg
UFLTR-12100	12" x 100yd 3M®Reflective Film	
UFLTR-24100	24" x 100yd 3M®Reflective Film	
UFLTR-9080	Flash-Trans Transfer Adhesive	
UFLTR-9120	Flash-Trans Coupling Agent	
L-RTF-1218	12x18" 3M®Reflective Film	10 sht min
L-RTF-1824	18x24" 3M®Reflective Film	10 sht min
L844	Lancer Retroflec® Adhesive	
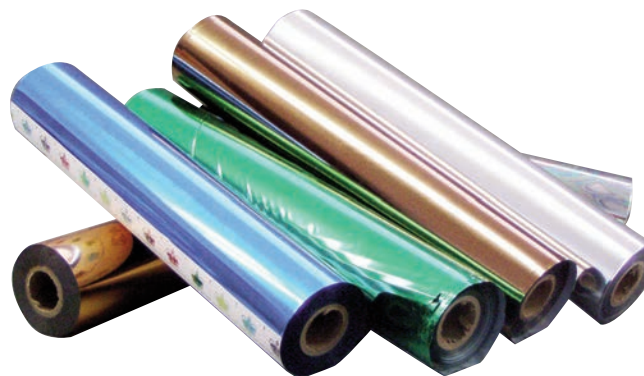
FOIL
Our foils are a set of brilliant metallic foils especially selected for application to t-shirts and other garments. Using a transfer press, the foil is transferred to a garment that has been previously printed. Even though foil will adhere to many plastisol inks, and even some urethane and water based inks, optimum results are achieved when a foil adhesive is used. To apply, cut foil to the desired shape and place it color side up where you want the foil effect. If foil doesn't cover the entire printed area, cover exposed plastisol with release paper to shield the hot platen surface. Transfer press should be set to between 325°-350°F with medium to high pressure for 10-15 seconds. If the transfer method (adhesive printed directly to foil) was used, transfer for 1-2 seconds at 325°-350°F with medium to high pressure. Allow foil to cool completely before peeling. **Note:** Foil decorated prints are not as durable as unfoiled prints. Some dulling of the foil over time is to be expected with normal wear and laundering. Minimize by hand laundering inside out with cool or lukewarm water, drying by hanging or laying flat. Do not dry clean. Rolls are 12" x 200'

UFOIL-3000	Red	UFOIL-M100	Copper
UFOIL-3111	Pink	UFOIL-M120	Silver
UFOIL-4025	Violet	UFOIL-M220	Gold
UFOIL-5035	Royal Blue	UFOIL-M300	Bronze-Copper
UFOIL-6000	Green	UFOIL-M400	Rainbow
UFOIL-9090	Oil Slick		
UFOIL-9200	Union Foil Adhesive		

TABLE ADHESIVES

Pal-A-Tac Spray Adhesive

Pal-A-Tac is a quick-drying, translucent, web spray which provides temporary adhesion for holding textile fabrics to the printing pallet. Strong and waterproof, Pal-A-Tac assures accurate registration and excellent print quality. Printing can immediately follow the application of Pal-A-Tac, as it dries instantly on the pallet. After printing, fabrics strip quickly without staining. Permanent Pal-A-Tac bonds are obtainable by spraying both surfaces to be bonded. Surfaces sprayed with Pal-A-Tac may accumulate dust and lint but it is easily reactivated with water using a lint free cloth. Pal-A-Tac is safe to use for many materials, resulting in water-tight bonds. Applications of Pal-A-Tac to flexible stock permits folding. Available in 12 oz.aerosol cans, 12 per carton. Use Pal-A-Tac with a wide variety of materials:

SYS-1865	Web Pal-A-Tack Adhesive
SYS-1866	Mist Pal-A-Tack Adhesive
SYS-1867	High-Temp Pal-A-Tack Adhesive

Safety- Pal Adhesives

Albatross Safety-Pal water-based pallet adhesive provides a long-lasting, pressure-sensitive tack which will not transfer onto fabrics. Safety-Pal may be flash cured prior to placing material on pallet. Tack can be reactivated with a mist of water. Roller applicator makes it easy to apply just the right amount of adhesive to your pallets.

54-1081-0	Pint
54-1082-1	Gallon
54-1083-5	5 Gallon

Tekmar TB-10

TEKMAR TB 10 is a revolutionary new adhesive, developed specifically for the textile screen printing industry. It is manufactured using newly developed synthetic polymer technology, that until now, has not been available for screen printing applications. TB 10 is designed to be sprayed through an adhesive applicator, but can be hand applied. It affords tremendous hold down for both Tee's and sweats and has a tack time that rivals aerosol solvent based adhesives. Should the adhesive lose its' tackiness as a result of lint or fleece build up, it can be quickly re-activated by wiping over with a damp sponge, giving maximum use and minimizing reapplication.

|		
TB-10-G	TB-10 Adhesive	Gal
TB-10-5G	TB-10 Adhesive	5 Gal
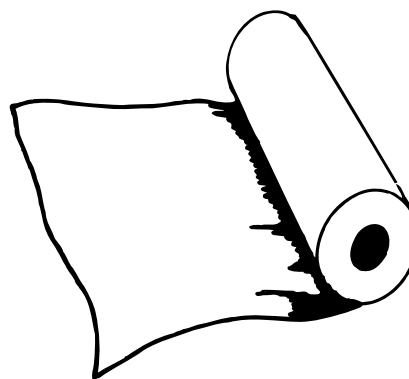
PALETTE PROTECTOR

These are rolls of adhesive backed paper that are used to cover a platten while adhesive is applied to the paper. This makes for easy removal of excess ink, adhesive, and lint. Available in 100 yard rolls. Available in either a crepe or smooth surface

Smooth Surface
RT-4350-16	16" x 100 yd
RT-4350-18	18" x 100 yd
RT-4350-24	24" x 100 yd

ALUMINUM "LID-OFF" OPENER

Safely opens all tightly sealed plastic pails and tubs in just seconds. Containers may easily be reclosed.
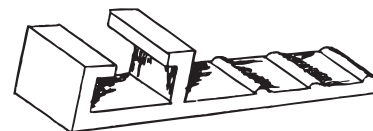
69-1890-8	Aluminum Lid Opener

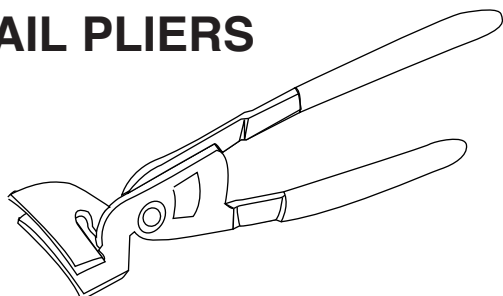# PLASTIC PAIL OPENER
With Bung Opener
A plastic tool that easily opens plastic gallon and 5 gallon containers. Plastic studs in the handle open both small and large size bungs on barrels.

69-1892-4   Plastic Lid Opener

PAIL PLIERS

A unique plier that spreads instead of squeezing. This action allows the wide jaws to spread the lids of plastic quarts and gallons easily without cutting. Pails can be easily resealed

71-8021-9   Pail Plier

Screen & Squeegee Blade Scraper
Tough, unbreakable, all-metal scraper saves time, saves ink, saves screens. Slot enables easy and quick squeegee cleaning. 6" wide.

69-1839-5   Screen & Squeegee
               Blade Ink Scraper

Solid Ink Scraper
Solid steel scraper, ideal for old dried ink on squeegees and other tools.

69-1813-0   Solid Ink Scraper

Ink Spatula
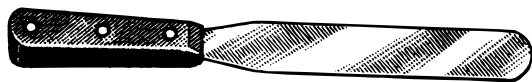
Especially useful in mixing colors and in cleaning paint cans. Special stainless steel blade, expertly tempered to proper degree of flexibility. Hardwood handle.

69-1808-0	4" Spatula	69-1811-4	10" Spatula
69-1809-8	6" Spatula	69-1812-2	12" Spatula
69-1810-6	8" Spatula	69-1814-8	14" Spatula

Plastic Spatulas

Durable plastic spatulas that can be re-used or thrown away

69-1806-1   8" Plastic Spatula
69-1807-3   11" Plastic Spatula
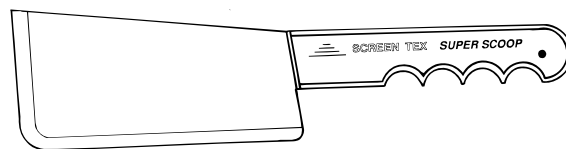
Goop Scoop
The ideal tool for dispensing ink. This is a tough tool of polyethylene that is impervious to all inks. Its unique shape with lid notch allows complete cleaning and scraping of ink from any shape can.

69-1801-2   Goop Scoop

Wide-Mouth Plastic Bottle
Unbreakable white plastic containers for easy pouring and secure storage of liquids.   Caps included.

15-7216-6   Pint plastic jar
15-7219-7   Quart plastic jar
15-7220-5   Gal. plastic bottle

Plastic Squeeze Bottle

Ideal glue for grooves of screens,etc. Screw cap. Spout cuts off at desired length to provide exact flow.

15-1823-4   4 oz. squeeze bottle
15-1824-9   8 oz. squeeze bottle
15-1825-7   16 oz. squeeze bottle
15-1832-1   32 oz. squeeze bottle

Plastic Spray Bottle
An easy to use spray bottle with adjustable trigger spray for either a stream or mist. bottle has 32 oz. capacity. Spray unit will not spray solvent based products as the seals will dissolve.

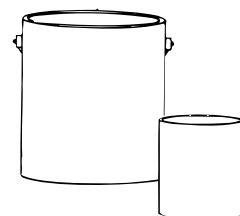18-1828-2   Trigger Sprayer only
15-1827-3   8 oz Plastic Spray Bottle
15-1826-5   32 oz Plastic Spray Bottle

METAL PAINT CANS

Available in quart, and gallon sizes with press-on covers.

69-8028-8   Quart
69-8029-6   Gal.

PLASTIC MIXING PAILS
In pint, quart, gallon, and 5-gallon sizes. Pints and quarts have wide-mouth press on lids,. Gallons and 5-gallon sizes have handles and press-on covers. All size containers nest into each other to save space. Easily cleaned; inert to water and most chemicals.

69-8024-7   Pint
69-8025-4   Quart
69-8026-2   Gallon
69-8027-0   5-gallon

PROTECTIVE EQUIPMENT

Series 8 Protective Barrier Cream

This wash-off hand-protection rinses inks, paints, adhesives and solvents off hands with just water. Simply rub a small amount on hands before work; Series 8 lasts all day until you wash it off. This protective film also prevents drying and cracking of hands.

54-1858-7   Series 8, qt.
54-1859-5   Series 8 gal.

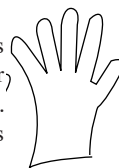## Ink-Off Waterless Hand Cleaner (ACHC)

Safely removes all types of ink using citrus and other natural ingredients. Leaves hands soft and fresh smelling. Contains no solvents.

UACHC-9900   4.5 pound. container

PROTECTIVE EQUIPMENT

Dust and Mist Respirator

Eases breathing and protects against flock and vapors. Pliable plastic mask contains sanitary face cloths and filters which may be removed quickly.

71-9551-4   Respirator
71-9552-2   Dust and Mist Filter Pads (Box of 100)
71-9553-0   Organic Vapor Filter pads (box of 6)
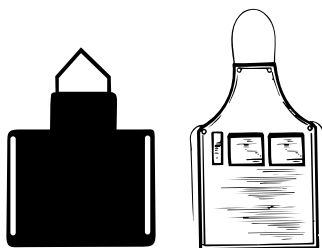
Shop Apron

Comfortable aprons designed to protect your clothing while you work. Designed to tie around waist and loop over neck.
69-1823-9   Polyethylene disposable apron,
                       1.75 mil. thick; 28 x 46", pkg. of 100
69-1824-7   Bib-cloth apron; blue, metal grommet,
                       38 x 37"; 2-pocket style

Clear Polyethylene Gloves

Extra-thick disposable hand protection. Keeps hands clean of ink, dirt and solvents. One size, five finger style fits comfortably over right or left hand. 1.75 mil. extra thick. Dispenses easily from box of 100 gloves (50 pair).

69-1833-8   Large Polyethylene Gloves

Rubber Gloves

Heavy-duty, black, rubber gloves for handling strong solvents and other chemicals. 14" length; available in sizes 9 - 11 only.

69-1818-8   Size 9
69-1818-9   Size 10

Sol-Vex Gloves

A high performance glove with outstanding strength and chemical resistance. Using a tough nitrile compound, Sov-Vex gloves wear longer and offer better protection than other chemical resistant gloves. These gloves won't weaken or swell like rubber or neoprene in solvents, and don't promote contact dermatitis as some nitrile and many latex gloves do.

69-1835-6   Size 8
69-1835-9   Size 9
69-1836-0   Size 10
69-1836-1   Size 11

Vinyl Gloves

Stretchable surgical/examination type gloves for mild solvents. Also ideal for inspection and assembly work. Thin gloves for an excellent feel.

69-1842-2   Medium
69-1843-3   Large
69-1844-4   X - Large

UV GLASSES

One piece polycarbonate lens and sideshield gives wearer unobstructed wide angle vision. The clear lens meets ANSI Z87.1-1989 standard for UV protection. UV protection is part of the lens, not a coating
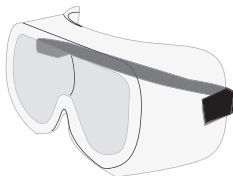
UVP-1005-039   UV Glasses
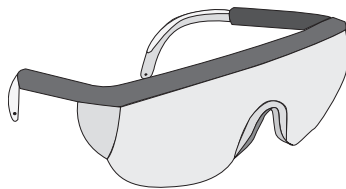
Goggles

Direct vented goggles with clear lens and adjustable head band Meets ANSI Z87.1989

69-2125-5   Goggles

Self-Closing Safety Rinse Tank

For cleaning larger parts. Free standing models have foot operated lids. Convenient 33" work height. Closes automatically. Drain plug empties tank for cleaning. FOB IN.

Bench Model
71-9332-9   11 gal. rinse tank   FM   24x16x8.75"   23 lbs.

Floor Models
71-9353-6   11 gal. rinse tank   FM   24x16x8,75"   60 lbs.
71-9351-9   22 gal. rinse tank   FM   35.25x25x16"   78 lbs.

Floor Models W/two Compartments
71-9350-1   8 gal. rinse tank   FM   24x16x8.75"   62 lbs
71-9352-7   18 gal. rinse tank   FM   35.25x16x12"   80 lbs.

Safety Can

Select from three lead-coated steel safety cans designed for storage of flammable materials. The 24 gauge steel body is covered with a red baked enamel finish. Approved by the NYC Fire Dept. Safety screens included. UL listed.

71-9305-5   1 qt. 4 5/8" dia. safety can
71-9306-6   1 gal. 7 1/4" dia. safety can
71-9309-7   5 gal. 11 1/2" dia. safety can

INK AND SOLVENT SAFETY ITEMS

Safety Cabinets

Designed and manufactured to conform to NFPA standards and OSHA regulations for the storage of flammable and combustible liquids. Double wall construction with 1-1/2" air space and three point lock, and four leveler feet. Also features a 2" leakproof sill, Yellow enamel finish and dual 2" vents. Shipped direct from factory.

Manual Closing Door
71-8076-5   30 gal   44x43x18"   1 shelf
71-8077-6   45 gal   65x43x18"   2 shelves
71-8078-7   60 gal   65x34x34"   2 shelves

Self Closing Door
71-8079-8   30 gal   44x43x18"   1 shelf
71-8080-9   45 gal   65x43x18"   2 shelves

Other Models Available

Steel Waste Can

Round, UL-listed waste can with 6 gallon capacity. Cover can be opened by a foot pedal. Lead-coated body is constructed from 24 gauge steel.

71-9321-2   6 Gallon Can   10 lbs

Plunger Can

No need to expose dangerous, hazardous chemicals to the work environment. Plunger dispenses liquid into a pan for moistening rags and cloths. The surplus immediately drains from the pan back into the can. The 7 1/4" dia. red body of 24 gauge steel is lead coated and offered in quart, 1/2 gallon and gallon sizes. UL listed.

71-9318-8   Plunger can, quart
71-9319-6   Plunger can, 1/2 gallon
71-9320-4   Plunger can, gallon

Plastic Safety Can

One-piece red HDPE cans are FM approved. Contains a metal safety screen. In 2 1/2 and 5 gallon.

71-8054-0   2 1/2 gal. plastic safety can
71-8055-7   5 gal. plastic safety can

AEROSOL SPRAY PRODUCTS

OPEN SCREENS, PROTECT ARTWORK, CLEAN GLASS, TEXTILES, RUBBER AND MORE

Glass Cleaner

Sprayway cleans glass without leaving residue. Available in a 15 oz. size. By Spray Way.

| 15-1845-5 | Glass cleaner, 19 oz. |

Lint and Dust Remover

Clean air under pressure for maximum removal of lint and dust. Available in a 6 oz. size. By Sprayway

| 54-1846-2 | Lint And Dust Remover | 6 oz. |

#208 Toner Aide

A transparent spray that deepens toner on velum and polyester laser prints. Helps provide a sharper screen exposure. Available in a 12 oz. size.

| 54-1820 8 | Toner Aide |

#955 Anti-Static Spray

Stops static electricity on paper, plastic, cellophane, etc. Available in a 14 oz. size.

| 54-1838-9 | Anti-static Spray |

#957 Screen Opener

Just spray this clog remover (in a circular motion) into the top of the screen whenever clogging occurs. A very thin application over the dried-up area is all that is necessary; two or three squeegee passes will open up the mesh completely.

| 54-7570-0 | #957 Sprayway Screen Opener |

#945 Silicone Spray

Sprayway silicone spray helps prevent sticking. Should not be used in or near printing area. Available in a 15 oz. size.

| 54-1840-5 | Silicone Spray, 15 oz. |

C-60 Solvent Cleaner/Degreaser

Non-flammable, contains no carbon tetrachloride. Cleans electric motors and machinery while running. Available in a 16 oz. size.

| 54-1842-1 | Solvent Cleaner And Degreaser |

#960 Penetrating Oil & Rust Preventative

Stops rust; lubricates close fitting parts. Available in a 13 oz. size.

| 54-1843-9 | Penetrating Oil & Rust Preventative |

ART AEROSOLS

#203 Rubber Cleaner / Rejuvenator

Cleans and revitalizes hardened rubber and blankets. Ideal for cleaning and restoring flexible vacuum frame blankets.

| 50-1857-4 | #203 Rubber Cleaner |

WORKABLE MATTE FIXATIVE

A matte finish coating that is specially formulated for pastels, charcoal, pencil, sketches, and layouts. Gives complete protection for drawings and layouts. Sprayed lightly, workable fixatif holds media in place for additional working without smearing or turning pastel colors "muddy". Also permits paint or ink to be applied over dry media. Can be easily erased.

Krylon Workable Fixatif
| KR-1306 | Workable Fixatif | 13 oz. |

Prismacolor Myston Fixatif
| G-0546 | Myston Fixatif | 12-3/4 oz. |

985 Orange Citrus Crazy Clean

A citrus based spray on cleaner for many applications including most screen inks. 16 oz. size.

| 54-1985-5 | Orange Citrus Crazy Clean |

nwgraphic.com

ART SPRAYS

CLEAR GLOSS ACRYLIC
A clear acrylic, varnish-fixative that protects charcoal and pastel drawings, printed matter, proofs, blueprints, and photographs from dust dirt and moisture. These sprays are transparent, colorless, rapid drying, and will not change the hue of colors or stain papers. Dries to a high gloss and is not workable.

Krylon Crystal Clear
KR-1303   Krylon Crystal Clear   13 oz.

Krylon UV Resistant Clear
KR-1305   Krylon UV Res Clear   13 oz.

MATTE ACRYLIC SPRAY
A clear acrylic varnish-fixatif with a matte finish that protects charcoal and pastel paintings, drawings, photographs, and proofs from dirt and moisture. Dries to a clear matte finish (flat) and is not workable.

Krylon Matte Finish
KR-1311   Matte Finish   13 oz.

ADHESIVE SPRAYS

#66 Spray Adhesive
Provides both permanent or temporary bonds. Non-wrinkling; water-resistant. Available in a 14 oz. size.

54-1844-7   #66 Adhesive Spray

Spra-ment Adhesive
A high strength aerosol adhesive that allows you to spray and bond almost immediately. Ideal for bonding paper, board, fabric, cork, etc. Spra-Ment is not repositionable, will penetrate porous surfaces, and yellow with age.

M-6060   Spra-Ment   11 oz.

#77 Spray Adhesive
The original 3M adhesive designed for heavy bonding and tough jobs. The adhesive is the same as Spra-Ment listed above, except in a bigger can and with a nozzle the puts down a very heavy deposit.

M-77   #77   Spray Adhesive   17 oz.

Spray Mount
A clear adhesive that was designed for the artist. Spray one surface, and the piece will remain repositionable for some time. However, Spray-Mount will become permanent with time. It will not wrinkle or stain.

M-6065   Spray-Mount   11 oz.

ReMount
A clear adhesive that was designed for the artist. Spray one surface, and the piece will remain always repositionable. Even pieces stored for some time may be easily removed and repositioned. It will not wrinkle or stain.

M-6091   ReMount   11 oz.

Photo Mount
A strong clear, surface adhesive that will not yellow with age. The print can be sprayed, positioned, and repositioned before burnishing. For inexpensive mounting of paper, prints, R/C paper, etc.

M-6094   Photo-Mount   11 oz

#84 Super Flash Spray
Palette adhesive designed for flash cure applications.Remains tacky in spite of exposure to high temperatures. Won't transfer or allow shifting during the screen printing process.

54-1808-4   #84 Super Flash

INK JET SPRAYS

Clear Jet

Clear Jet aerosols are designed for fine art ink jet print protection. This solvent based product provides enhanced ultraviolet (UV) protection with added durability and resistance to chemicals, water, and abrasion. Available in 12oz. aerosol cans in gloss and semi-gloss finish. By Clear Star.

CS-AFA-G   Clear Jet Gloss
CS-AFA-SG   Clear Jet Semi-Gloss

SQUEEGEES

ALL SIZES, STYLES AND DUROMETERS OF SQUEEGEES FOR HAND AND MACHINE

ALL ABOUT SQUEEGEE BLADES

Squeegee blades are made of different types of resilient materials. All are impervious to solvents and chemicals used in screen printing inks. High quality screen prints depend on the squeegee, its size, durometer and edge.

1. COMPOSITION - There are various types of rubber blade formulations for strength and chemical resistance.

2. THICKNESS - 3/16", 1/4", 3/8" and 1/2" are standards established for commercial and industrial applications.

3. LENGTH - Up to 12 feet length is cast and cut for most.

4. WIDTH - Approximately two inches is our commercial standard. Other widths can be cut also.

5. DUROMETER - An important factor in determining the type of squeegee best suited for printing requirements and top quality results, squeegee durometers are determined according to the substrate, printed image and ink being used. Soft, low-durometer squeegees easily conform to irregularities in the substrate and various tension levels in the screen. Harder, more-rigid, high-durometer squeegees accurately flood and force the ink through the mesh while maintaining uniform off-contact release.

CHEROKEE II BLADES

Solvent and UV Resistant, natural color

A new type of polyplastic blade that is both UV and solvent resistant. Highly impervious to solvents, all polyplastic blades have four times more abrasion resistance than non-poly blades even without sharpening. They are extremely firm for long use. All durometers available in natural color only.

Square Edge, Style A

14-6661-6	3/8 x 2"	Soft (60 Duro)
14-6661-65	3/8 x 2"	Medium (65 Duro)
14-6661-7	3/8 x 2"	Med-Hard (70 Duro
14-6661-75	3/8 x 2"	Hard (75 Duro)
14-6661-8	3/8 x 2"	Ex Hard (80 Duro)

Double-Bevel, Style D

|		
14-6624-6	3/16 x 1"	60 Duro
14-6624-8	3/16 x 1"	80 Duro

FIMOR

Serilor®SR squeegee is an all purpose polyurethane blade with good combined resistance to chemicals and abrasion. It was developed to withstand various applications in screen printing. The industry standard S1 is a universal grade, your ideal choice for non critical abrasive application or when using common screen inks. Serilor®SR blades are manufactured with a centrifugation process to avoid bubbles and craters in the material and to bring optimal homogeneity to the compound, even at the core of the material and after grinding. Our exclusive computer controlled casting process guarantees batch to batch consistency. Each serilor® SR blade is inspected for edge quality and profile.

Square Edge, Style A

14-3861-6	3/8 x 2"	Medium (60-65)
14-3861-7	3/8 x 2"	Hard (70-75)
14-3861-8	3/8 x 2"	X-Hard (80-85)

6. EDGE - The following shapes are available:

A. SQUARE-EDGE: For printing on flat objects.

B. ROUNDED: (Bull Nose) For extra-heavy deposits. For printing light colors on dark backgrounds or printing with fluorescent inks. Many textile applications.

C. SINGLE-SIDED BEVEL EDGE: For use by Glass or Nameplate printers.

D. DOUBLE-SIDED BEVEL EDGE: For direct printing on uneven surfaces; bottles.

A B C D
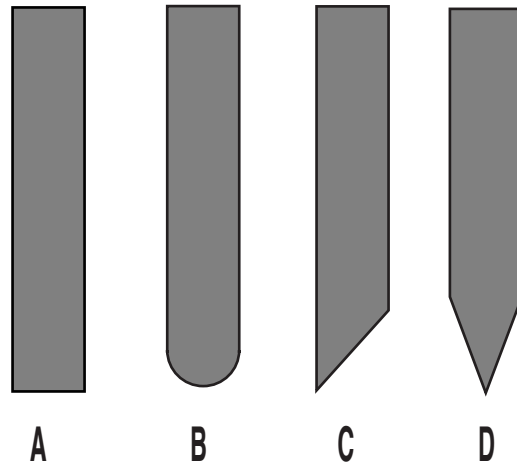
Vulkollan Blades

Vulkollan Squeegee Blades of special polyurethane composition are a first choice of advanced screen printers worldwide. They are flexible, tough, impervious to most solvents and nonswelling. Uniform blade edges meet even the exacting requirements of thick film and printed circuit production.

IMPORTED VOLKOLLAN
Square Edge, Style A

14-2461-6	3/8 x 2"	Medium (60-65)	Red
14-2461-7	3/8 x 2"	Hard (70-75)	Green
14-2461-8	3/8 x 2"	X-Hard (80-85)	Blue

Double Bevel Style D

14-2424-7	3/16 x 1"	Hard (70-75	Green
14-2424-8	3/16 x 1"	X-Hard (80-85)	Red
14-2464-7	3/8 x 2"	Hard (70-75	Green
14-2464-8	3/8 x 2"	X-Hard (80-85)	Blue

DOMESTIC VOLKOLLAN
Square Edge, Style A

14-4421-6	3/16 x 1"	Medium (60-65)
14-4421-7	3/16 x 1"	Hard (70-75)
14-4461-6	3/8 x 2"	Medium (60-65)
14-4461-7	3/8 x 2"	Hard (70-75)
14-4461-8	3/8 x 2"	X-Hard (80-85)

DOMESTIC VOLKOLLAN (Cont.)
Single Bevel, Style C
14-4423-8	3/16 x 1"	X-Hard (80-85)

Double Bevel, Style D
14-4414-7	3/16 x 7/8"	70 Duro
14-4414-8	3/16 x 7/8"	80 Duro
14-4414-9	3/16 x 7/8"	90 Duro
14-4424-7	3/16 x 1"	Hard (70-75)
14-4424-8	3/16 x 1"	X-HARD (80-85)
14-4424-9	3/16 x 1"	XX-HARD (90+)

Poly-Plastic Blades

Highly impervious to solvents and chemicals, these blades are cast from durable and flexible polyurethane. All polyplastic blades have four times more abrasion resistance than non-poly blades even without sharpening. They are extremely firm for long use.

DOMESTIC POLY-PLASTIC
Square Edge, Style A
14-4621-7	3/16 x 1"	Hard (70-75)
14-4621-8	3/16 x 1"	X-Hard (80-85)
14-4621-9	3/16 x 1"	XX-Hard (90+)
14-4661-7	3/8 x 2"	Hard (70-75)
14-4661-8	3/8 x 2"	X-Hard (80-85
14-4661-9	3/8 X 2"	XX-Hard (90+)

Bull Nose, Style B
14-4662-5	3/8 x 2"	Soft (50-55)
14-4662-6	3/8 x 2"	Medium (60-65)
14-4662-7	3/8 x 2"	Hard (70-75)

Single Bevel, Style C
14-4633-6	3/8 x 1"	Medium (60-65)
14-4633-7	3/8 x 1"	Hard (70-75)
14-4633-8	3/8 x 1"	X-Hard (80-85)

Double Bevel, Style D
14-4614-7	3/16 x 7/8"	Hard (70-75)
14-4614-8	3/16 x 7/8"	X-Hard (80-85)
14-4624-7	3/16 x 1"	Hard (70-75)
14-4624-8	3/16 x 1"	X-Hard (80-85)
14-4644-8	3/8 x1-3/8"	X-Hard (80-85)

IMPORTED POLY-PLASTIC
Square Edge, Style A
14-2661-6	3/8 x 2"	Medium (60-65)
14-2661-7	3/8 x 2"	Hard (70-75)
14-2661-8	3/8 x 2"	X-Hard (80-85
14-2661-9	3/8 x 2"	XX-Hard (90)

Single Bevel, Style C
14-2663-7	3/8 x 2"	Hard (70-75)

Double Bevel, Style D
14-2624-7	3/16" x 1"	Hard (70-75)
14 2624-8	3/16" x 1"	Ex Hard (80-85)
14-2664-7	3/8 x 2"	Hard (70-75)
14-2664-8	3/8 x 2"	E-Hard (80-85)

Economy Poly-Plastic Blades

A good grade of polyurethane for many applications.These blades provide exceptional value for any printer.

14-1961-6	3/8 x 2"	Medium (60-65)
14-1961-7	3/8 x 2"	Hard (70-75)
14-1961-8	3/8 x 2"	Ex-Hard (80-85)

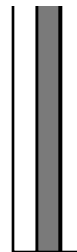# Specialty Squeegees
Triple Durometer
Vulkollan or Poly Plastic blades made up of three laminated sections of plastic. Available in either 60/90/60 or 70/90/70 durometers. These blades allow more pressure with less flex than single durometer blades while enjoying the benefit of a soft edge.

DOMESTIC VULKOLLAN
14-5861-6	3/8 x 2"	60/90/60
14-5861-7	3/8 x 2"	70/90/70

DOMESTIC POLYPLASTIC
|		
14-5661-6	3/8 x 2"	60/90/60
14-5661-7	3/8 x 2"	70/90/70

Dual Durometer
Vulkollan or Poly Plastic blades made up of two laminated sections of plastic. Available in either 60/90 or 70/90 durometers. These blades allow more pressure with less flex than single durometer blades while enjoying the benefit of a soft edge.

DOMESTIC VULKOLLAN
14-5461-6	3/8 x 2"	60/90
14-5461-7	3/8 x 2"	70/90

DOMESTIC POLYPLASTIC
14-5261-6	3/8 x 2"	60/90
14-5261-7	3/8 x 2"	70/90
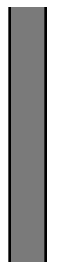
Conap Squeegees
A urethane composition that is resistant to solvents, abrasion, etc. Available in dark brown color, square edge only.
VQ-60	3/8 x 2"	60-65 Duro
VQ-70	3/8 x 2"	70-75 Duro
VQ-80	3/8 x 2"	80-85 Duro

Tan
Everlast Tan squeegee blades are made from virgin raw materials. Tan blades should provide two to three times the wear of standard black blades.

Square Edge, Style A
14-2361-5	3/8 x 2"	Soft (50-55)
14-2361-6	3/8 x 2"	Medium (60-65)
14-2361-7	3/8 x 2"	Hard (70-75)
14-2361-8	3/8 x 2"	X-Hard (80-85)

Black
Standard Black blades are cut from neoprene that has over 2,000 lbs. of tensile strength. We recommend use of these blades for hand printing applications.

Square Edge, Style A
|		
14-1361-5	3/8 x 2"	Soft (50-55)
14-1361-6	3/8 x 2"	Medium (60-65)
14-1361-7	3/8 x 2"	Hard (70-75)
14-1361-8	3/8 x 2"	X-Hard (80-85)

When ordering a squeegee holder always specify:

1. Length - Indicate the size needed up to 12'. Other custom-cut sizes are available. The squeegee must be long enough to completely cover the image, leaving one to two inches around the edges of the frame.

2. Height - Generally the height of the handle is predetermined according to manufacturer's specifications. The handle heights available from the detailed specification charts.

3. Blade - The type of blade, including composition, durometer, edge, and most importantly, size and thickness, should be specified when ordering a corresponding handle. The handle must hold the blade firmly, and be designed specifically for the thickness of the blade.

4. Stock - Handles are available in both wood and metal.

5. Press Specifications - When ordering a squeegee holder designed for the use with a screen printing press, always specify the make of the press, model and serial number as well as the printing material.

HAND PRINTING SQUEEGEE HANDLES

Classic Wood Shaped Handle

Grooved for 3/8" squeegee blades. Exclusive slit-design insures tight fit. Holes not drilled. The most popular squeegee. (Bolts and blade not included) Priced per inch.
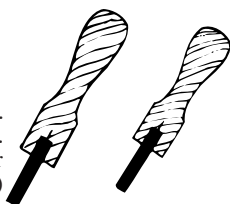
14-8189-4   Style No. 1 - 4" height.
14-8290-0   Style No. 2 - 5" height.

All-Aluminum Contoured Squeegee

All aluminum contoured squeegee handles are made for permanent use with telescopic bolts for easy squeegee rubber replacement. The adjustable rod in the center top of the handle can be extended out for resting on frame sides. Handle is similar in shape to a classic 2 wood handle. Blade not included.
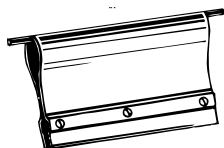
14-8902-0   All Aluminum Contoured Handle

All-Aluminum Ergonomic Squeegee

All aluminum ergonomic squeegee handles are made for permanent use with telescopic bolts for easy squeegee rubber replacement. The unique shape allows the user less fatigue over long jobs. Blade not included.

14-8903-2   Aluminum Ergo Grip   Handle

MACHINE PRINTING SQUEEGEE HANDLES

Standard Aluminum Kwik-Clamp Holder

Metal holder with raised edges on both of the long sides of the top. Designed to fit any press with a 1" holding bar. Presses include: Cameos, Eagles, Arrows, International, Viking & Multiprinters after December 1980. Also fits newer style M&R, Lawson & Anatol Squeegee blade extra. Older presses might require new U-Clamp holding brackets. Priced per inch
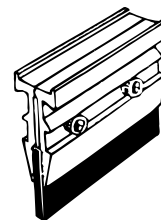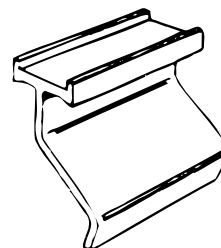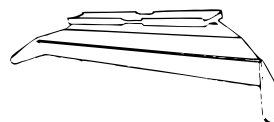
14-8172-0   Standard Alum. Kwik-Clamp Holder

U-Clamp

Designed to work with either the holder above or flood bar below. For Advance/American, M&R, Argon, Lawson, Anatol, and other presses with a 1" holding bar. Knobs are sized for old and new presses.

AWT-UC-GA1   U-Clamp holder

Flood Bars

For Advance/American, M&R, Argon, Lawson, Anatol, and other presses with a 1" holding bar. One piece light weight aluminum design glides smoothly across the screen. In either square end or wing tip versions.

43-4865-2   Square End Flood Bar
43-4868-3   Wing Tip Flood Bar

American One-Man / AO Handle
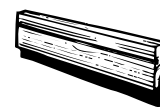
Fits American one man, M&M AO, Panther presses. 3-5/8" x 1-11/32" Bolts not included. Priced per inch. Squeegee blade extra.
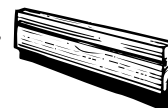
14-8582-0   Wood Handle

M & M AOA, S12 Handle

Shorter version of the above. Wood is 2-5/8" x 1-11/32"O.D. Bolts not included. Squeegee blade extra. Priced per inch
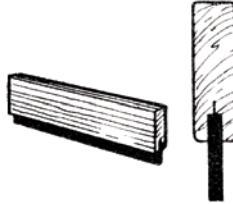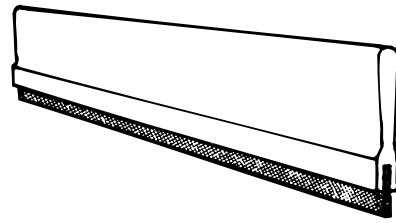
14-8583-8   Wood Handle for model AOA

Filbar • Pace • Lawson

Wood holder for Filbar, Pace, Lawson. Wood is 3-3/4" x 7/8" o.d. Squeegee blade extra. Bolts not included. Priced per inch.
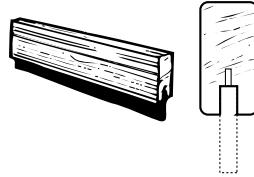
14-8179-5   Filbar, Pace, Lawson

Cincinnati One Man

Wood holder for Cincinnati. 2-11/15" x 1-1/8" Squeegee blade extra. Bolts not included. Priced per inch.

14-8910-3   Cincinnati One Man

3D - Dubuit Square Holder

Metal holder for 3D Press. Priced per inch.

14-8180-3   3D Blade Holder

M&M S12 • Old Cameo 18

"Old style" Cameo-18 Wooden Holder 20". Priced per inch

14-8171-2   Wood Handle

Aluminum Telescopic Fastening Bolts

The ideal fastener for squeegee blades, they are rust proof and easy to assemble. The screw turns into the telescopic nut so that nothing rough protrudes. Select the proper length range for your handle (1" to 1-1/4" is usually best for classic wood handles.

Each	Per 100	Fastening Range
14-1207-1	14-1211-3	3/4 to 1"
14-1208-9	14-1212-1	1 to 1-1/4"

Squeegee Sharpening Garnet

Sharpens all square edge squeegee blades. An extra heavy, hard surfaced garnet provides sharp abrasive for sharpening to the proper fineness. Stable to plywood to keep flat and firm. Standard width is four inches, sold by the yard.

14-1803-7   Squeegee Sharpening Garnet   Yard

COMPLETE SQUEEGEES FOR HAND PRINTING

The squeegees listed below are complete handle and blade assembled with aluminum telescopic fastening bolts. Handles are clear, kiln dried Ponderosa Pine with all edges smoothly finished. All squeegee blades are pre-sharpened.

Polyplastic

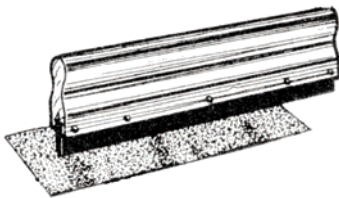|		
14-7236-4	Classic 5" High Handle	Medium
14-7237-2	Classic 5" High Handle	Hard
14-7441-0	Classic 5" High Handle	X-Hard
14-9536-5	Amer., M & M, One-Man	Medium
14-9537-3	Amer., M & M, One-Man	Hard
14-7446-9	Amer., M & M, One-Man	X-Hard

UV Polyplastic

14-7250-5	Classic 5" High Handle	Medium
14-7251-3	Classic 5" High Handle	Hard
14-7252-1	Classic 5" High Handle	X-Hard
14-9540-7	Amer., M & M, One-Man	Medium
14-9541-5	Amer., M & M, One-Man	Hard

Everlast (Tan)

14-7225-7	Classic 5" High Handle	Soft
14-7126-5	Classic 5" High Handle	Medium
14-7227-3	Classic 5" High Handle	Hard
14-7449-3	Classic 5" High Handle	X-Hard
14-9526-6	Amer., M & M, One-Man	Medium
14-9527-4	Amer., M & M, One-Man	Hard
14-7453-5	Amer., M & M, One-man	X-Hard

Standard (Black)

14-7215-8	Classic 5" High Handle	Soft
14-7216-6	Classic 5" High Handle	Medium
14-7217-4	Classic 5" High Handle	Hard
14-7456-8	Classic 5" High Handle	X-Hard
14-9516-7	Amer., M & M, One-man	Medium
14-9517-5	Amer., M & M, One-man	Hard
14-7460-0	Amer., M & M, One-man	X-Hard

Rex Hardness Gauge

Rex hardness gauges with initial and creep readings measure any squeegee blade materials and accurately display the durometer reading on its rotating wheel. This specialized durometer test instrument is accurate to within plus or minus 1/2 point. It includes a secure wooden box for safe storage.

74-1806-4   Rex Hardness Guage

SCREEN FABRIC INFORMATION
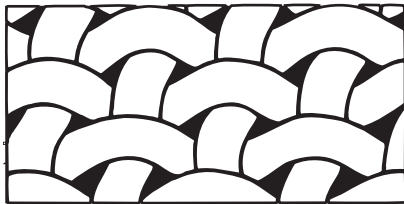
BASIC CONSTRUCTION:

MULTIFILAMENTS - a group of very fine threads twisted together. Weaving is limited to coarser fabrics, 20 threads per inch to 225 threads per inch.

MONOFILAMENTS - single strands of man-made fibers or metal mesh. Because of their uniform construction and tensile strength, they can be woven into finer screen printing fabrics up to 465 threads per inch.

Multifilament Construction
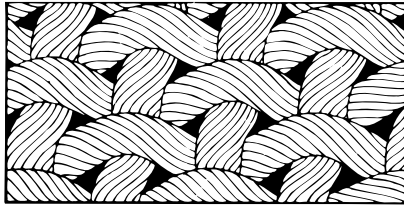
Monofilament Construction

The screen fabric should be selected for the specific type of product to be screen printed with consideration given to the ink. Three primary factors are important in the selection of screen printing fabrics:

1. **CONSTRUCTION** - Weave (plain, twill 2 or twill 3) thread diameter and type of filament.

2. **MATERIAL -** Polyester, nylon, stainless steel.

3. **MESH OPENING** - Mesh opening is the space between filaments (thread).

POLYESTER MULTIFILAMENT DACRON is woven with many very fine fibers twisted together, similar to silk (which is seldom used) but features more uniformity and extreme durability. Ideal for textile applications for better ink deposit and easier ink passage.

NYLON MONOFILAMENT fabrics used in screen printing are of monofilament construction. Therefore inks will not build up or cling to the singular smooth thread. A uniform print will result from fine mesh nylon using a wide variety of inks. It is most important to stretch this fabric very taut to maintain print registration and screen life. Nylon is excellent for rough and uneven surfaces.

POLYESTER MONOFILAMENT fabrics offer the same qualities and advantages of nylon with the additional feature of excellent registration due to its dimensional stability. Since this fabric has so little stretch it will not change size with varied temperature and humidity.

STAINLESS STEEL fabric (monofilament) is used exclusively for the ultimate in print registration. Although it is quite stable, it will stretch and is not resilient, therefore a retensionable chase must be used. Stainless steel fabrics will deform and kink under pressure and mishandling.

METAL PLATED POLYESTER fabric is a new mesh made of metallized monofilament polyester threads and specially produced for screen printing. Highly desirable features include excellent adhesion of indirect stencil films; very good dimensional stability; high resistance to abrasion; high stability of the threads in the meshes (non-slip finish); anti-static and heatable (for printing with thermoplastic inks).

MESH COUNT EQUIVALENTS:

Silk	Dynex-Apex Multi-Polyester	Monofilament Nylon, Nitex	Monofilament Polyester PeCap, Super Strong	Stainless Steel
2XX	----	40-50	----	60
4XX	----	63-70	60	60-80
6XX	6XX-7XX	70-77-83	86	80-105
8XX	8XX	83-90	86-95-110	105-120
10XX	10XX	103-108-114	110-125	120-145
12XX	12XX-14XX	120-132-160	125-140-160	145-165
14XX	14XX	160-180-200	160-180-200	180-200
16XX	16XX	220-230-245	205S-200-232-245	230-250
18XX	18XX	265-285-305	234S-262-280-305	250-270
20XX	20XX	305-310-335	285S-305-330	270-325
25XX	25XX	310-340-355-360-380	310S-350-390	325-400
30XX	30XX	340-360-385-420-465	350-390	400-508

PET 1500 YELLOW

Swiss Monofilament Polyester - Plain Weave

Pet 1500 low elongation monofilament polyester has excellent registration accuracy and dimensional stability. It surpasses ordinary screen fabric in chemical and mechanical abrasion resistance, and equalization of warp and weft elongation. Pet 1500 is recommended for fine line reproduction, large screens, halftones, and multicolor work demanding dimensional stability. Pet 1500 is available in white, and Yellow. Pet 1500 Yellow offers Optimum balance between reduced light scatter and ease of registration. The exposure time is longer, and contrast between fabric surface and emulsion coating is improved. Yellow offers the most uniform color density.
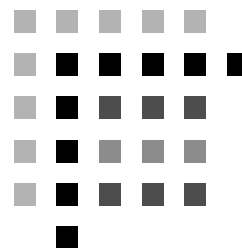
SEFAR ™
Mesh + Technology

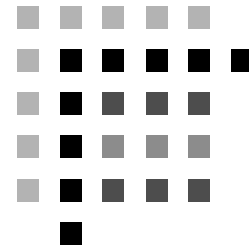| Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 83" Width	Cat.No 100" Width
83	209	44.5	100	35-1083-4		35-1083-6		
110	149	40.8	80	35-1110-4	35-1110-5	35-1110-6	35-1110-8	
123	133	40.9	70	35-1123-4	35-1123-5	35-1123-6		
137	115	38.7	64	35-1137-4	35-1137-5	35-1137-6	35-1137-8	
156	90	30.1	64	35-1156-4	35-1156-5	35-1156-6	35-1156-8	
175	85	33.5	55	35-1175-4	35-1175-5	35-1175-6	35-1175-8	
195	67	26.5	55	35-1195-4	35-1195-5	35-1195-6	35-1195-8	
230	68	37.6	40	35-0230-4	35-0230-5	35-0230-6	35-0230-8	
230	55	24.6	48	35-1230-4	35-1230-5	35-1230-6	35-1230-8	35-1230-1
240	62	35.0	40	35-0250-4	35-0240-5	35-0240-6		
240	50	22.8	48	35-1240-4				
255	57	32.5	40	35-1260-4	35-1260-5	35-1260-6	35-1260-8	
280	54	35.2	34	35-1280-4	35-1280-5	35-1280-6	35-1280-8	
280	47	26.6	40	35-9280-4	35-9280-5	35-9280-6	35-9280-8	
305	49	35.0	31	35-0305-4	35-0305-5	35-0305-6		
305	45	29.6	34	35-1305-4	35-1305-5	35-1305-6	35-1305-8	35-1305-1
305	37	20.0	40	35-9305-4	35-9305-5	35-9305-6	35-9305-8	
330	40	26.9	34	35-1330-4	35-1330-5	35-1330-6	35-1330-8	
355	36	26.0	31	35-0355-4	35-0355-5	35-0355-6	35-0355-8	
355	31	19.3	34	35-1355-4	35-1355-5	35-1355-6	35-1355-8	35-1355-9*
380	32	23.3	31	35-0390-4	35-0390-5	35-0390-6	35-0390-8	
380	23	12.1	34	35-1390-4	35-1390-5	35-1390-6	35-1390-8	35-1380-9*
420	23	14.5	31	35-0420-4	35-0420-5	35-0420-6	35-1420-8	35-1420-1
460	22	15.1	27	35-0460-4		35-0460-6		

*96"

PET 1500 LE YELLOW - TWILL

Twill is similar in thickness to the plain weave shown above. The difference is in how they are woven. Twill is woven either 2 strands over, one strand under; or 2 strands over 2 strands under. This leads to more open area in the mesh, and therefore a greater ink deposit.

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 80" Width
355	33	21.2	34		38-8355-5	38-8355-6	35-8355-8
380	26	15.4	34	38-8380-4	38-8380-5	38-8380-6	35-8380-8
420	23	13.9	34	38-8420-4	38-8420-5	38-8420-6	35-8420-8
460	20	12.4	41	38-8460-4			

PET 1000 WHITE

Swiss Monofilament Polyester - Plain Weave

Pet 1500 low elongation monofilament polyester has excellent registration accuracy and dimensional stability. It surpasses ordinary screen fabric in chemical and mechanical abrasion resistance, and equalization of warp and weft elongation. Pet 1000 is recommended for fine line reproduction, large screens, halftones, and multicolor work demanding dimensional stability. Pet 1500 is available in white, and Yellow. Pet 1000 White offers one of the most durable fabrics available. The exposure time is shorter than yellow, and is offered in a wider variety of mesh counts.

SEFAR™
Mesh + Technology

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 80" Width	Cat. No. 100" Width
25	739	57.8	260	35-2025-4	35-2025-5	35-2025-6		
40	465	48.6	200	35-2040-4	35-2040-5	35-2040-6		
60	294	49.7	120	35-2060-4	35-2060-5	35-2060-6		
60	270	41.9	140	35-6060-4	35-6060-5	35-6060-6	35-6060-8	
76	211	40.2	120	35-2076-4	35-2076-5	35-2076-6	35-2076-8	
83	209	44.5	100	35-2083-4	35-2083-5	35-2083-6	35-2083-8	
92	174	39.1	100	35-2092-4	35-2092-5	35-2092-6		
110	149	40.8	80	35-2110-4	35-2110-5	35-2110-6	35-2110-8	35-2110-1
123	133	40.9	70	35-2123-4	35-2123-5	35-2123-6	35-2123-8	35-2123-1
137	115	38.7	64	35-2137-4	35-2137-5	35-2137-6	35-2137-8	35-2137-1
156	90	30.1	64	35-2156-4	35-2156-5	35-2156-6	35-2156-8	
175	85	33.5	55	35-2175-4	35-2175-5	35-2175-6	35-2175-8	35-2175-1
195	67	26.5	55	35-2195-4	35-2195-5	35-2195-6	35-2195-8	35-2195-1
230	55	24.6	48	35-2230-4	35-2230-5	35-2230-6	35-2230-8	35-2230-1
255	57	32.5	40	35-2260-4	35-2260-5	35-2260-6	35-2260-8	35-2260-1
280	54	35.2	34	35-2280-4	35-2280-5	35-2280-6		
280	47	26.6	40		35-9240-5	35-9280-6	35-9240-8	
305	49	35.0	31	35-6305-4		35-6305-6		
305	45	29.6	34	35-2305-4	35-2305-5	35-2305-6	35-2305-8	35-2305-1
305	37	20.0	40	35-9305-4	35-9305-5	35-9305-6	35-9305-8	35-9305-1
330	40	26.9	34	35-9330-4		35-9330-6		
355	36	26.0	31	35-6355-4		35-6355-6		
355	31	19.3	34	35-9355-4	35-9355-5	35-9355-6	35-9355-8	35-9355-9*
380	32	23.3	31	35-6390-4		35-6390-6	35-6390-8	
380	23	12.1	34	35-9390-4	35-9390-5	35-9390-6	35-9390-8	
420	23	14.5	31	35-6420-4		35-6420-6	35-6420-8*	
460**	21	13.7	31	35-9460-4		35-9460-6		
480**	16	9.0	31	35-9480-4				

*96'   **Twill

POWER MESH

A totally new mesh based on the latest technology. Power Mesh uses a unique "high density" monofilament polyester thread. This allows the fabric to be stretched to higher limits and be more tear resistant. All Power Mesh is yellow in color.

YELLOW POWER MESH

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42/45" Width	Cat.No. 51/53" Width	Cat.No. 62/63" Width	Cat.No. 82/90" Width
310	48	34.0	30	39-7310-4	39-7310-5	39-7310-6	
330	39	30.5	30	39-7330-4	39-7330-5	39-7330-6	
350	36	26.0	30	39-7350-4	39-7350-5	39-7350-5	
380	32	23.3	30	39-7380-4	39-7380-5	39-7380-6	39-7380-8

Northwest Graphic Supply Co.
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nwgraphic.com

SUPER STRONG MESH MONOFILAMENT POLYESTER

Super Strong polyester screen fabrics are ideal for highest quality fine line and halftone reproduction. Low-priced, multi-purpose fabric is prized for it's strength, durability, and ease of screen reclamation. Imported form Japan these fabrics are uniformly woven to precise specifications, ensuring constant dimensional stability and registration. You can get monofilament polyester in white for super-fast exposure, and in Yellow for ultra-fine detail. Yellow fabric eliminates image distortion due to undercutting.

SUPER STRONG - WHITE

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 80" Width
25	745	58	250	39-1025-4	39-1025-5	39-1025-6	
40	200	47	200	39-1040-4	39-1040-5	39-1040-6	39-1040-8
60	303	51	120	39-1060-4	39-1060-5	39-1060-6	39-1060-8
86	195	44	100	39-1086-4	39-1086-5	39-1086-6	39-1060-8
100	201	63	55	39-1100-4	39-1100-5	39-1100-6	39-1100-8
110	185	43	71	39-0110-4	39-0110-5	39-0110-6	39-0110-8
110	151	43	80	39-1110-4	39-1110-5	39-1110-6	39-1110-8
125	132	42	71	39-1125-4	39-1125-5	39-1125-6	39-1125-8
135	117	39	71	39-1135-4	39-1135-5	39-1135-6	39-1135-8
160	95	36	64	39-1160-4	39-1160-5	39-1160-6	39-1160-8
180	88	39	55	39-1180-4	39-1180-5	39-1180-6	
200	74	34	55	39-1200-4	39-1200-5	39-1200-6	
230	61	32	48	39-1230-4	39-1230-5	39-1230-6	39-1230-8
255	61	36	40	39-1255-4	39-1255-5	39-1255-6	39-1255-8
275	54	32	40	39-1275-4			
300	48	35	34			39-1300-6	

SUPER STRONG - YELLOW

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 80" Width
110	151	43	80		39-4110-5	39-4110-6	
125	132	42	71		39-4125-5	39-4125-6	
135	117	39	71	39-4135-4	39-4135-5	39-4135-6	
160	95	36	64	39-4160-4	39-4160-5	39-4160-6	
180	88	39	55	39-4180-4	39-4180-5	39-4180-6	
200	74	34	55	39-4200-4	39-4200-5	39-4200-6	
225	58	26	48	39-4225-4	39-4225-5	39-4225-6	39-4225-8
230	61	32	48	39-4230-4	39-4230-5	39-4230-6	39-4230-8
255	61	36	40	39-4255-4	39-4255-5	39-4255-6	39-4255-8
275	54	32	40	39-4275-4	39-4275-5	39-4275-6	39-4275-8
300	48	35	34	39-4300-4	39-4300-5	39-4300-6	39-4300-8
330	48	37	30	39-4330-4	39-4330-5	39-4330-5	
350	43	35	33	39-4350-4		39-4350-6	
350	31	19	33	39-3350-4	39-3350-5	39-3350-6	39-3350-8
380	35	29	30	39-4390-4	39-4390-5	39-4390-6	
390	23	12	33	39-3390-4	39-3390-5	39-3390-6	39-3390-8
420	33	31	27	39-4420-4	39-4420-5	39-4420-6	
TWILL WEAVE							
330	43	31	34	39-5330-4	39-5330-5	39-5330-6	
350	39	28	34	39-5350-4	39-5350-5	39-5350-6	
390	31	23	34	39-5390-4	39-5390-5	39-5390-6	

MULTIFILAMENT POLYESTER FABRIC

Multifilament fabric is woven for strength and is inert to all solvents. Photo films, hand-cut films, and emulsions all adhere very well. Ideal for general textile printing, posters and banners. Multifilament screens are very easy to reclaim.

MULTIFILAMENT POLYESTER FABRIC

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 80" Width
6XX	233	41	130	34-1006-4	34-1006-5	34-1006-6	
8XX	185	38	131	34-1008-4	34-1008-5	34-1008-5	
10XX	140	35	95	34-1010-4	34-1010-5	34-1010-6	34-1010-8
12XX	107	28	95	34-1012-4	34-1012-5	34-1012-6	34-1012-8
14XX	99	29	85	34-1014-4	34-1014-5	34-1014-6	34-1014-8

E-MESH POLYESTER FABRIC

First quality monofilament polyester by Sefar, made in the Orient. Available in Yellow and white (not in all mesh counts) in a limited range of mesh counts to hold costs down. Very low pricing. Ideal for textile printing.

MONOFILAMENT POLYESTER FABRIC

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Color	Cat.No. 45" Width	Cat.No. 53" Width	Cat.No. 62" Width
83	209	44.5	100	White	30-0080-4	30-0080-5	30-0080-6
110	149	40.8	80	White	30-0110-4	30-0110-5	30-0110-6
123	133	40.9	70	White	30-0123-4	30-0123-5	30-0123-6
137	115	38.7	64	White	30-0137-4	30-0137-5	30-0137-6
156	90	30.1	64	White	30-0156-4	30-0156-5	30-0156-6
156	90	30.1	64	Yellow	30-1156-4	30-1156-5	30-1156-6
180	88	39	55	White	30-0180-4	30-0184-5	30-0184-6
180	88	39	55	Yellow	N/A	30-1184-5	30-1184-6
195	67	26.5	55	White	30-0195-4	30-0195-5	30-0195-6
195	67	26.5	55	Yellow	30-1195-4	30-1195-5	30-1195-6
230	55	24.6	48	White	30-0230-4	30-0234-5	30-0234-6
230	55	24.6	48	Yellow	30-1230-4	30-1234-5	30-1234-6
280	47	26.6	40	Yellow	30-1280-4	30-1280-5	30-1280-6
305	45	29.6	34	Yellow	30-1305-4	30-1305-5	30-1305-6

STAINLESS STEEL WIRE CLOTH

Stainless steel wire cloth is the best fabric choice where sharpness and close-tolerance printing are vital. Micro-circuits, pc boards, and electronic parts are typical applications. It is also ideal for use with thermoplastic colors in ceramic or plastic container decorating. Stainless steel mesh is the only material that will efficiently carry the electric current necessary for "hot ink" printing. Where permanent screens are required, stainless steel has a superior tensile strength (31.75 ton per square inch, 45 kg. per square mm). Steel fabrics are available in both 316 and 304 types. Other meshes and widths are also available.

STAINLESS STEEL WIRE CLOTH

Mesh Count Per Inch	Wire Diameter Inch	Cut Widths From Standard Rolls	Cat. No. 36" Width	Cat No. 40" Width	Cat. No. 48" Width
165 x 165	.0019	35-8160-0	35-8163-4	35-8162-6	35-8164-2
180 x 180	.0019	35-8180-8	35-8183-2	35-8182-4	35-8184-0
200 x 200	.0016	35-8200-4	35-8203-8	35-8202-0	35-8204-6
200 x 200	.0021	35-8210-3	35-8213-7	35-8212-9	35-8214-5
230 x 230	.014	35-8230-1	35-8233-5	35-8232-7	35-8234-3
250 x 250	.0014	35-8260-8	35-8263-2	35-8262-4	35-8264-0
250 x 250	.0016	35-8250-9	35-8253-3	35-8252-5	35-8254-1
270 x 270	.0014	35-8280-6	35-8283-0	35-8282-5	35-8284-8
270 x 270	.0016	35-8270-7	35-8273-1	35-8272-3	35-8274-9
325 x 325	.0014	35-8320-0	35-8323-4	35-8322-6	35-8324-2
325 x 325	.0011	35-8330-9	35-8333-3	35-8332-5	35-8334-1

FABRIC TENSIONING

Choosing the right tension level is dependent on several factors. The type of job, registration necessary, fabric type and thread diameter, tensioning device, frame profile, etc. Other factors include printing equipment, off contact desired, and skill of the screen maker and printer.Sefar has developed a guide for tensioning screens based on three levels of stretch.

Level I:
Fabric should be stretched to this level by screen makers using tensioning equipment of lower state-of-the art sophistication. Large format frames (50" and over) should also use Level I tensions.

Level II:
Advanced screen makers using stable frames and state-of-the-art equipment, with proper tensioning procedures should stretch to Level II tensions. Caution is required while stretching, and minimum off contact during printing.

LEVEL III:
Only expert screen makers using stable frames(with a maximum size of 55") and state of the art tensioning units, with proper tensioning procedure should attempt to stretch to Level III tension levels. Level III tensions are the maximum to be attempted. Minimal off contact during printing is required.

NOTE:
Higher tensions bring fabric closer to their ultimate tensile breaking strength. This leaves less room for stretching

Mesh Count	Thread Diameter	Theoretical Ink Volume	Relative Fabric Strength	Level I	Level II	Level III
25	260	253.9	0.531	20	35	55
40	200	172.5	0.471	20	34	54
60	120	109.3	0.271	20	29	35
60	140	104.7	0.369	20	30	47
76	120	84.4	0.339	18	28	44
83	100	73.5	0.251	18	33	40
92	100	68.5	0.283	18	38	45
110	80	53.1	0.216	32	42	51
123	70	47.1	0.185	27	35	43
137	64	38.7	0.174	26	34	42
156	64	30.4	0.196	30	39	48
175	55	28.5	0.162	24	31	38
195	55	23.4	0.183	27	35	43
230	48	19.2	0.163	24	33	40
255	40	20.5	0.126	20	26	32
280	34	18.3	0.100	16	21	26
280	40	17.0	0.138	20	26	32
305	31	17.1	0.091	16	21	26
305	34	16.3	0.109	17	22	27
305	40	12.6	0.151	23	30	37
330	34	14.8	0.118	18	23	29
355	31	12.5	0.106	17	22	27
355PW	34	10.2	0.127	18	23	29
355TW	34	12.7	0.127	20	26	32
380	31	11.4	0.113	17	22	27
380	34	6.7	0.136	20	26	32
380TW	34	9.3	0.136	21	27	34
420	31	7.0	0.125	19	25	31
460	27	6.5	0.103	16	2 1	26

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FABRIC ADHESIVES

PREMIUM QUALITY FABRIC ADHESIVE 4200-4300 SERIES

This amazing chemical discovery will save you hours of set-up time everyday. Your labor costs will be dramatically reduced! In fewer than three minutes you can stretch fabric, apply adhesive and fully cure. Field-tested on frames up to 6 by 14 feet. The overlap sheer tension is in excess of 2500 lbs. --so tough that it will never pop off by itself. Yet, fabric can easily be peeled off when it is time to remesh.

4200 Premium Series - High viscosity adhesive for use with such course mesh fabrics as 6XX through 230.

4300 Premium Series - Low viscosity adhesive which is thinner and spreads readily through the finest meshes.

High Viscosity	Low Viscosity	
SYS-4200-02	SYS-4300-02	2 oz. Fabric Adhesive
SYS-4200-04	SYS-4300-04	4 oz. Fabric Adhesive
SYS-4200-08	SYS-4300-08	8 oz. Fabric Adhesive
SYS-4200-16	SYS-4300-16	16 oz. Fabric Adhesive

ENGINEERING QUALITY FABRIC ADHESIVE 3200 SERIES

This Engineering Grade adhesive has the same solvent resistance, tension strength, mileage and flexibility as the Premium adhesives, but it has a slightly slower cure time, approximately 12 to 15 seconds to cure.

SYS-3200-08	8 oz. Engineering Quality Adhesive
SYS-3200-16	16 oz. Engineering Quality Adhesive

TRADE QUALITY FABRIC ADHESIVE
3100 SERIES

This adhesive has been specially formulated to compete against the very low priced products in the market place. 3100 will be a pleasant surprise for users of competitive products. You will find a slightly higher odor product that has better adhesion than any product in its price range. Give 3100 a try, and see how good it is for the price. Approximately 12 to 15 second cure.

SYS-3100-16	16 oz. Trade Quality Fabric Adhesive

ACTIVATOR 4000 SERIES AEROSOL, PUMP & BULK

Used in combination with any Screen Systems Adhesive, the Activator Spray causes the adhesive to care (harden) in 4 to 6 seconds. The Activator itself is non-toxic, and this excellent aerosol package sprays a clean fine mist until the contents are entirely used. The propellant is the same as used in most aerosols. The Activator acts as the catalyst which, when sprayed onto the adhesive, begins the instant curing process. If used very sparingly as recommended, one aerosol can will cover 16 oz. of adhesive. Spray will not clog or damage screens.

SYS-4000-08	8 oz. Activator (Spray Pump)
SYS-4000-12	12 oz. Activator (Aerosol)
SYS-4000-32	32 oz. Activator (Quart)
SYS-4000-36	128 oz. Activator (Gallon)

SAFETY SOLVENT
5000 SERIES

This unusual, exotic product debonds almost any adhesive within a few seconds. It can be used on skin, frames or fabric to remove unwanted adhesive. It is recommended that a quantity of Safety Solvent be kept on hand to dissolve cured adhesive.

Color-coded for your protection:
In its natural state our Safety Solvent has low flammability and is yellow in color. Should the product become flammable, the color will change to purple to indicate that the product should be properly disposed of immediately.

SYS-5000-01   1 oz. Safety Solvent
SYS-5000-08   8 oz. Safety Solvent

WIPE-ON ACTIVATOR
4010 SERIES

Wipe - On Activator is a revolution in fabric adhesive. For the first time there is no need to put anything into the air in order to activate your adhesive. This activator can be used in several ways for easy application. Best of all is the Magic Applicator, a marker type applicator that puts down just the right amount of activator for top results. This activator will pull the adhesive to the surface of the frame. Care should be used not to "puddle" the activator as this will dissolve the adhesive and weaken the bond.

-Frame Application
Apply the activator to the frame before it is in the stretcher with either the 4010-01 Magic Applicator, or the 4010-05 Giant Wipe-On Applicator. Put frame into the stretcher and stretch fabric to desired tension. Apply a 1/8" bead of adhesive where activator has been applied and spread with card or squeegee. Adhesive will cure in normal time. Activator may be applied the day before stretching.

Magic Applicators can be refilled from any of the bulk containers.

SYS-4010-01   1 oz.   Magic Applicator
SYS-4010-05   Giant   Wipe-On Applicator
SYS-4010-16   16 oz.   Bulk Bottle
SYS-4010-Q   Qt.   Bulk Bottle
SYS-4010-G   Gal   Bulk Can

B-535 LIQUID SEAL
B-535 AS FABRIC-TO-FRAME ADHESIVE

Liquid Tape firmly bonds any screen fabric to wood and/or metal frames in only 5 minutes. After air drying, screen tension is maintained at the same reading to which it was set while fabric was being stretched.

B-535 AS SCREEN SEALER
When applied to the frame's inside edge with a squeeze bottle, Liquid Tape also makes an excellent screen sealer. Once it dries it keeps ink from seeping between fabric and frame, even after repeated exposure to water and solvents.

B-535 AS A SCREEN BLOCKOUT
When modified with T-606 Thinner, Liquid Tape can be used as a permanent blockout. Simply brush a coating of Liquid Tape into the edge of the screen, all the way around, then air-dry. Liquid Tape remains intact during reclaiming. There is no need to blockout the edges every time you use it for a new image. Fabric adhered with Liquid Tape can easily removed at any future time by applying T-606 Thinner and peeling the fabric from the frame.

B-535-Q   Quart   Liquid Tape Order 2 oz. C-536 Catalyst
B-535-G   Gallon   Liquid Tape Order 8 oz. C-536 Catalyst
C-536-02   2oz.   Catalyst for Quart
C-536-08   8oz.   Catalyst for Gallon
T-606   Qt/Gal. Thinner for use with B-535

FRAME PREPARATION
5100 SERIES
(Isopropyl Alcohol)

A mild solvent cleaner which evaporates without a trace. Can be used on wood, metal, or plastic frames to remove grease and dirt, and to insure maximum strength bonds.

SYS-5100-36   Gal.   Frame Prep. Cleaner
SYS-5100-50   5 Gal.   Frame Prep. Cleaner

PLASTIC SQUEEGEE

Ideal for spreading adhesives or other coatings. Durable poly plastic. Can be cut into narrower widths.
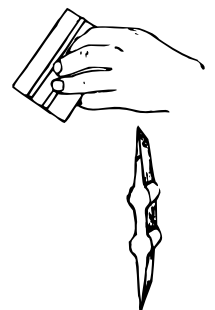
54-6226-2   4" Plastic Squeegee
54-6227-0   6" Plastic Squeegee
54-6228-8   12" Plastic Squeegee
54-6229-2   72" Plastic Squeegee

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SCREEN TAPE

SOLVENT RESIST
This white tape type is poly coated for extra solvent resistance. This tape is excellent for the screen printer who wants tape to adhere and stay on the screen through numerous washings with solvent.

15-6221-200	White Solvent Resist.Tape 2" x 60yd
15-6221-300	White Solvent Resist Tape 3" x 60yd
15-6221-400	White Solvent Resist Tape 4" x 60yd

WHITE BLOCKOUT
A light weight polyester blockout tape for all screen applications. Solvent and water resistant.

15-6707-200	White Blockout Tape 2" x 55yd
15-6707-300	White Blockout Tape 3" x 55yd.

BLUE BLOCKOUT
A medium weight tape for screen applications. Solvent and water resistant. Easily formed to the inside of the screen.

RT-2000-200	Blue Blockout Tape 2" x 36yd
RT-2000-300	Blue Blockout Tape 3" x 36yd.
RT-2000-400	Blue Blockout Tape 4" x 36yd.

SPLIT LINER
Split liner tapes have a removable back that is split the long way. This enables the screen maker to uncover half of the adhesive at a time. Tape can more easily be pushed into the inside where the fabric meets the frame.
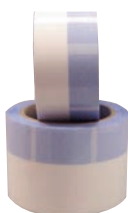
PMI SPLIT LINER

15-6451-200	PMI Split Zone Tape, 2" x 60yd
15-6451-300	PMI Split Zone Tape, 3" x 60yd
15-6451-400	PMI Split Zone Tape, 4" x 60yd

R TAPE SPLIT LINER

RT-2100SL-200	White Split Liner Tape 2" x 55yd.
RT-2100SL-300	White Split Liner Tape 3" x 55yd.

S2 Metallized Polyester
A 2.0 mil silver metallized, non-top coated polyester tape with a removable acrylic adhesive and a 90lb layflat liner. Very durable and very thin compared to conventional tapes. Ideal for hot melt screens. 3" x 600' roll, 9 per case

GF-S2-300	Silver Polyester Tape

WOOD FRAME LUMBER

Mitre-R-Stix PRE-CUT Frame Lumber
Mite-R-Stix are designed for quick, accurate and economical frame construction. Each piece of pre-cut frame lumber is exactly the same size and precise 45° angle. Mite-R-Stix are grooved to easily accommodate screens stretched with rope. The mitered corners ensure a perfect 90° angle fit. Mite-R-Stix are made from Ponderosa Pine wood, and can be ordered in custom-cut sizes if inside frame dimensions are specified.

1-1/8" Square Stock		1-5/8" Square Stock	
13-1142-2	6"	13-1155-4	10
13-1143-0	7"	13-1156-2	12"
13-1144-8	8"	13-1157-0	14"
13-1196-8	9"	13-1158-8	16"
13-1197-6	10"	13-1159-6	18"
13-1198-4	11"	13-1160-4	20"
13-1145-5	12"	13-1161-2	22"
13-1146-3	14"	13-1162-0	24"
13-1147-1	16"	13-1163-8	26"
13-1148-9	18"	13-1200-8	27"
13-1149-7	20:	13-1164-6	28"
13-1159-5	22"	13-1165-3	30"
13-1151-3	24"	13-1166-1	32"
13-1152-1	26"	13-1201-6	33"
13-1176-0	27"	13-1167-9	34"
13-1153-9	28"	13-1168-7	36"
13-1154-7	30"	13-1169-5	38"
13-1170-3	40	13-1170-3	40"
		13-1171-1	42"
		13-1172-9	44"
		13-1173-7	46"
		13-1174-5	48"

RANDOM LENGTH LUMBER

Clear grain kiln-dried random length frame lumber
All catalog numbers are available in Ponderosa Pine, 13-5701-1 and 13-5702-0 are also available in Redwood.
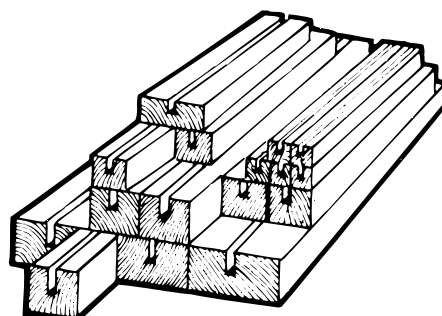
Cat. #	Width x Thickness	Groove Type
13-1646-2	1-1/8x1-1/8"	Grooved
13-1647-0	1-5/8x1-5/8"	Grooved
13-5701-1	1-5/8x2-5/8"	None

Lumber sold in random lengths 4 - 16' long.

DIAMOND CHASE TENSIONING FRAMES
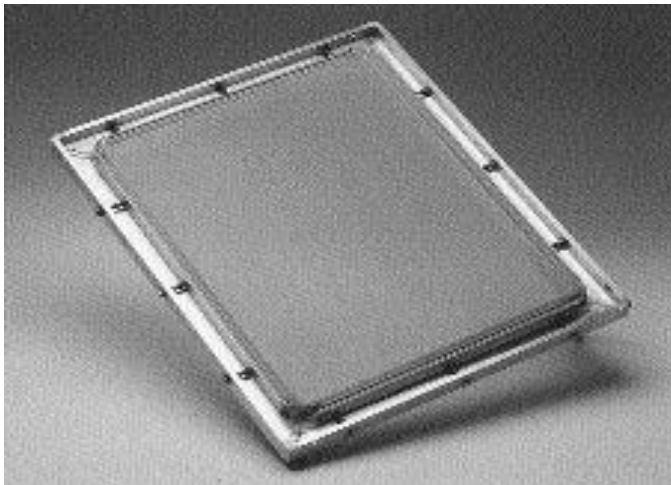
STRETCH AND LOCK-IN ALL FABRICS
FIVE MODELS FOR EASY STRETCHING/TENSIONING

The Diamond Chase self tensioning frames quickly lock any type of fabric (including stainless) into four frame locking channels. These channels are then tightened away from the center with the use of recessed countersunk allen head or hex head bolts. Frame dimensions and maximum sizes are listed.

WC-20	2.0"	Max. Size ID	30"
T-175	1.875	Max. Size ID	40"
T-175HD	2.5	Max. Size ID	60"
T-200	2.5	Max. Size ID	65"
T-200HD	2.5	Max. Size ID	85"

DIAMOND CHASE ROLLER FRAMES
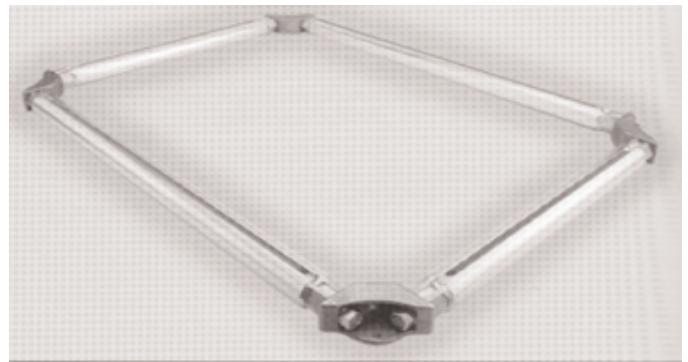
Diamond Chase Roller Frames

Quick and accurate screen tensioning at a reasonable price. Three simple steps save time, therefore lowering labor costs and speeding production. First cut screen material and secure on all four sides with the round locking rods. Note these rods are placed in slot with the use of Diamond Chase Pizza Roller. Second, loosen lock nuts slightly and exert tension away from the center using proper open end wrench. When tension is achieved use corresponding open end wrench to lock end nuts. After all four sides have been tightened any readjustment is done in same manner until proper tension is achieved.

Ext. Dia.	Bar Type	Std Size	Max. "/Side
RC-1.2	4-Rd.	18 X 20" I.D.	24"
RCS-1.2	1-Sq.	18 X 20" I.D.	24"
RC-1.4	4-Rd.	23 X 31" I.D.	31"
RCS-1.4	1-Sq.	23 X 31" I.D.	31"
RC-1.6			36"
RC-1.75			45"
RC-2.0			55"

RIGID ALUMINUM FRAMES
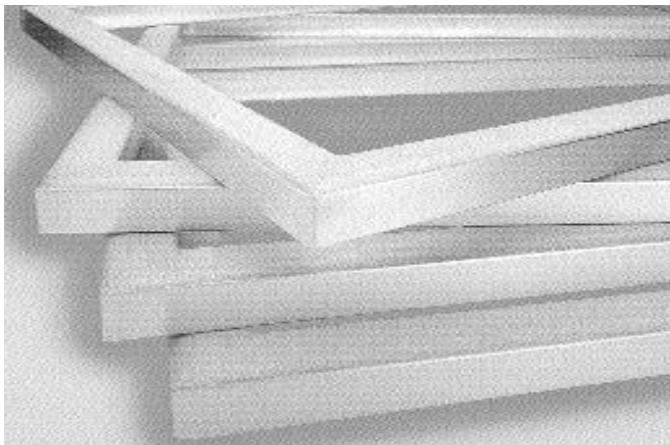
Our rigid aluminum alloy frames meet industry needs for critical registration and dimensional stability necessary for accurate printing. They can be fabricated to meet any overall size. These rigid aluminum frames are made of high strength aluminum alloy extrusions for light weight and easy handling (no gripping mechanisms or floating drawbars are required). Our aluminum frames are sandblasted on the bonding surface for maximum adhesion of fabric to frame. The wall thickness is shown for all models. Models are shown below with their cross-section and recommended maximum frame size in inches.

Size	Thickness	Max. Frame
3/4" x 3/4"	.125	18" x 18"
1 x 1"	.125	24 x 24"
1.5 x 1.5"	.087	45 x 45"
1.5 x 1.5"	.125	46 x 46"
1.5 x 2"	.125	56 x 56"
1.5 x 3"	.125	86 x 86"
1.75 x 4"	.125	86 x 151"

612-729-7361 ---- Phone
612-729-6647 ---- Fax

nwgraphic.com

800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax

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STANDARD SIZE FRAMES

Stock Aluminum Frames
Aluminum frames that are made in quantity in standard textile sizes. Available as frame only, or stretched with your favorite mesh.

FAI-1820	18x20" Aluminum Frame
FAI-2024	20x24" Aluminum Frame
FAI-2331	23x31" Aluminum Frame
FAI-2536	25x36" Aluminum Frame

Stock Wood Frames
Factory made wood frames with tongue and groove construction to resist twisting and corner break down.

FW-1820	18x20" Wood Frame
FW-2024	20x24" Wood Frame
FW-2331	23x31" Wood Frame
FW-2536	25x36" Wood Frame

SCREEN TOOLS

USE THESE TOOLS TO HAND STRETCH YOUR OWN SCREENS

Combination Fabric Stretcher
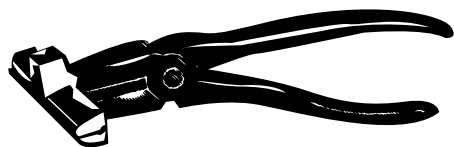
Heavy-duty combination hammer and pliers used for hand stretching fabrics to frame.

LC-1053-2   Combination Fabric Stretcher
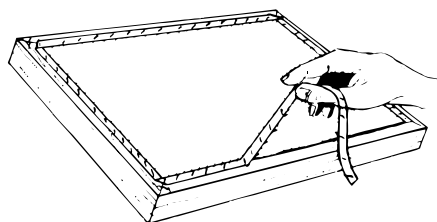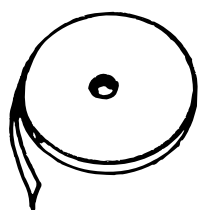
Cloth Staple Tape
TO PROTECT FABRIC AND STRIP STAPLES
Place tape over mesh and staple through tape. Prevent damage to finest screen fabrics. Remove staples with ease. Extra strong synthetic cloth tape.

15-9357-3	7/8" x 72 Yds.
15-9358-1	9/16" x 72 Yds
.

Washout Spray Nozzle

For washing out all exposed direct contact screens. Standard hose fitting. Squeeze of handle adjusts spray. Features a protective plastic coating that protects from very hot water.
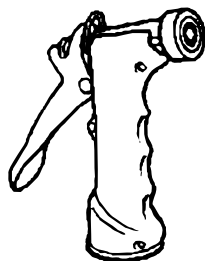
15-7213-0   Spray Nozzle

SV2 VACUUM NOZZLE

One piece aluminum cast nozzle to safely remove water from a freshly developed screen. Bottom slit pulls water off the screen and into your wet or dry vacuum. 9" wide.

AWT-SV-2   Vacuum Nozzle

Tite-Stretch Cord

Use Tite-Stretch cord for a perfect non-slip fit. Made from a hard-finish, uniform material. Available in two sizes.
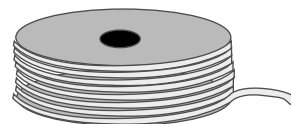
Size	Diameter	100 ft.	1000 ft.
Standard	5/32"1	15-1132-8	15-1137-7
Jumbo	3/16"	15-1133-6	15-1138-5

Tite-Stretch Tool
This easy-to-operate tool presses Tite-Stretch cord into Mite-R-Stix with the tap of a hammer for tightest stretch. Smooth finish, palm-fitting hard plastic handle with tempered hard steel blade. Frame baluster reamer mounted on handle. Blade is 5" long and 1" wide. Handle is 3 1/4" long.
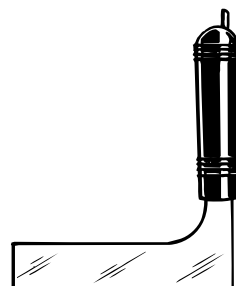
15-1129-4   Tite-Stretch Tool

TETKOMAT
Model 7-100

This mechanical tension gauge offers accuracy, durability and ease of use. This compact, direct-reading gauge is ideal for synthetic fabrics and stainless steel wire cloth.
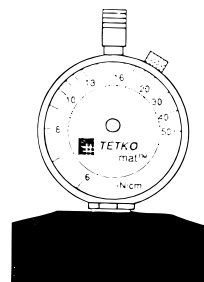
44-4632-5   TETKOmat
Tension Gauge

Mesh and Halftone Determiner

On one sheet you get a mesh and halftone determiner (6XX-25XX), a mesh counter (100-240), and a mesh counter (200-480).
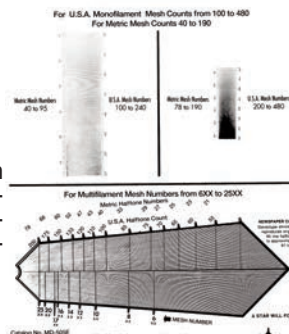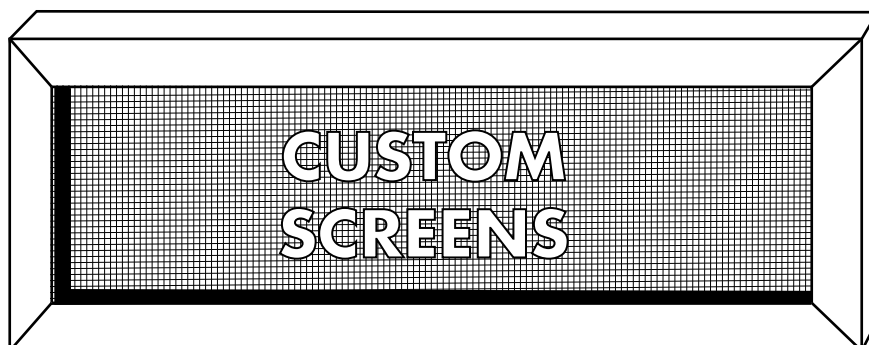
52-3525-1   All three on one sheet

SCREENS MADE TO YOUR SPECIFICATIONS IN OUR SHOP, USING EXPERT TECHNIQUES AND MATERIALS.

ARTWORK
We have been creating and touching up customer art for many years. Bring us your ideas, old printed copy, drawings, and we'll turn it into printable art.

INK JET FILM POSITIVES
Send us your digital file, and we will rip it and print it on clear, water-proof ink jet film that is ready to shoot.

FRAMES
Wood frames made to size in our shop with appropriate profile for screen size. Adequate ink well on all sides of image. Also available are , Sefar, and Quality aluminum frames (see pages 78-79 for available sizes).

STRETCHING / MESH
A wide selection of fabrics is available - polyester, nylon and stainless steel. For all available options please see pages 68-74. Frames up to 72"x144" can be stretched to manufacturer suggested tensions. We can also remesh your frames provided they are in good condition. Mesh is fixed to frame using the highest quality screen adhesive. Bias mesh stretching is available. Cap frames and most odd shaped frames can be stretched.

COAT AND SHOOT
Several Direct Emulsions and a variety of presensitized capillary stencil films are used, according to your specifications and needs. Frames up to 52"x96" O.D. can be shot in our exposure units.

BLOCKOUT / TAPE
Solvent/water resistant blockout and touch up is applied to screen along with Solvent/water resistant tape on the print side of the screen.

RECLAIMING
Reclaim your screens and save on the cost of new mesh and frames. We use state-of-the-art chemistry to remove both emulsion and ink residue, allowing the best image possible to be reshot onto the clean mesh.

- Custom screens made to the highest standards

- Basic artwork touchup and typesetting available. Electronic file transfer with digital output.

- Discounts available on 10 or more complete custom screens.

- Emulsion hardener available to prolong image life, especially for high humidity conditions.

- Complete screens ready to ship in two days unless otherwise informed when placing order.

- Free delivery and pickup within the Minneapolis/St. Paul area.

- Redwood lumber available for most frame sizes.

SCREEN CLAMPING DEVICES

APSCO HEAVY-DUTY HINGE CLAMPS

The original APSCO hinge clamps have been used by screen printers for more than three decades and are still unsurpassed in quality. Faster to set up and easier to use, these clamps are lower in price than any other frame hinge clamp available. Heavy-duty plated steel construction ensures countless carefree impressions in perfect register. Insert any size screen frame from 1/2" to 1 5/8" thickness in less than a minute. Ideal for sample runs and for pre-production test printing. Includes built-in off-contact distance. Screws for affixing clamps to printing base included. One pair of clamps per package.
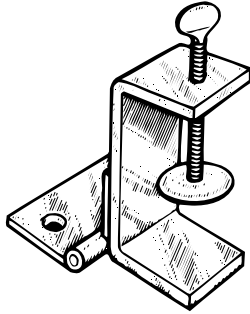
54-1110-3   APSCO hinge clamps

PERMACAST JIFFY HINGE CLAMPS

Select Permacast Jiffy hinge clamps when you need ruggedly-constructed clamps to hold up to three inch thick screen frames. These sturdy cast steel hinge clamps feature positive-locking action and guide flange. Loose-pin design facilitates convenient screen removal for fast changeover. One pair of clamps per package.
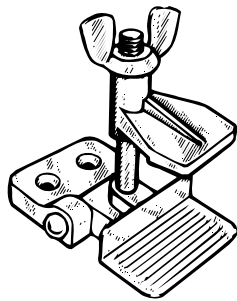
54-1111-1   Permacast Jiffy Hinge Clamps
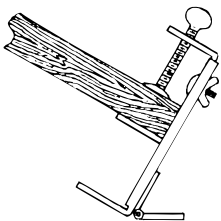
ADJUSTABLE HINGE CLAMPS

The finest 3" Adjustable hinge clamps. Can hold screens up to three inches thick. Ideal for when versatility is a must. One pair of clamps per package.

54-1202-2   Adjustable Hinge Clamps

CLAMP-ON SIDEKICK

All-metal spring-lever 8 1/4" arm for fast, easy operation. Rugged clamp up to 2" wide.

DISCONTINUED
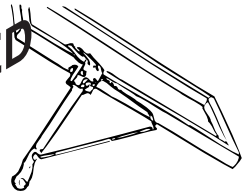
54-1107-9   Clamp-on sidekick
54-1106-1   Extra springs for arm (each)

HEAVY-DUTY SIDEKICKS

All steel spring kicklegs for larger frames. Instantly clamp on and off frame; eliminate counter-lighting. Adjustable for up to 2" frames, and can be mounted on either the right or left side.
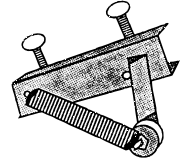
54-1108-7   Frames up to 30x45"   6" long (Reversible)
54-1109-5   Frames up to 48x80"   9" long (Reversible)

REG-STR-RITE Adjustable Screen Carriage
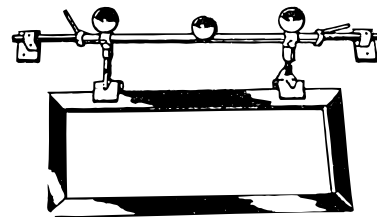
New improved Finest adjustment, complete control. Center knob controls lateral movement; outside knobs control in-and-out movement up to 1 1/2". For any screen frame from 5/8" to 2 inches thick. Four overall widths: 26", 30", 50", and 58". Knobs provide X, Y, & Z control that lock in place after adjustment. Four screws lock registration in place once setup is complete. One complete turn moves screen 1/2". Steel construction. Frame not included.

54-1117-8   26" for screens to 20 x 26"
54-1240-8   30" for screens to 26 x 30"
54-1241-6   50" for screens to 38 x 50"
54-1242-4   58" for screens to 52 x 58"

Paper Feed Guides

Tempered stainless steel spring clips secure paper from three sides during printing. Each clip measures 13/16"
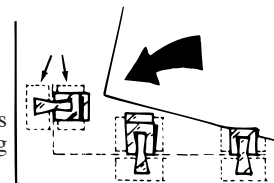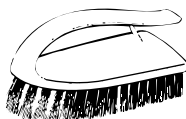
54-1101-2   Paper Feed Guides

# FABRIC BRUSHES

FABRIC BRUSH
The iron shaped Fabric Brush scrubs deep for application of degreaser, emulsion remover, ink solvents, etc. The handle makes it easy to hang on to even with gloves and when slippery.
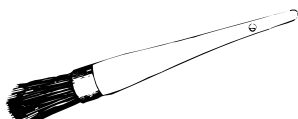
15-3505-4   Fabric Screen Brush

SCRUBBER
The Scrubber has a non-abrasive scrubbing pad attached to a handle. the ideal tool for the really tough cleaning problems. Available in two degrees of coarseness. A white fine grain coarseness and a red medium grain coarseness.
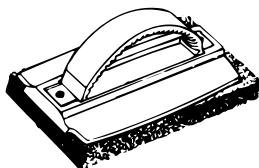
15-3506-7   Light Pad Scrubber (White)
15-3507-8   Medium Pad Scrubber (Red)

ROUND SCREEN BRUSH
A medium-stiff nylon bristle brush ideal for decreasing, stencil removal of direct/indirect or direct photo stencils, and for applying haze remover.

50-9593-0   Round Screen Brush

FABRIC CLEANING BRUSH
Apply cleaning solutions with this wooden handle stiff-bristled brush. For cleaning all types of screen fabric. Length 6" width 2-3/8"
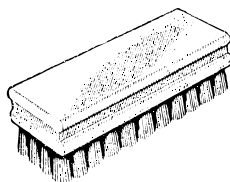
15-3503-8   Fabric Cleaning Brush

CLOG REMOVING BRUSHES
Use with Stainless Steel Mesh Prep to remove stubborn mesh clogs in all mesh and wire cloth. Overall size 1 x 3". In wooden handle with brass bristles, these can also be used with other mesh cleaners. Set of 2.
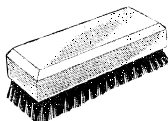
15-3504-6   Clog Removing Brushes

MESH PREP PRODUCTS

ULANO MAGIC MESH PREP
Use with capillary films. Combines the benefits of a degreaser, wetting agent, and antistatic treatment. A uniform sheeting of water on the surface of the mesh will yield uniform adhesion to films. Dry spots on the mesh will cause weak "blistered" spots.

UL-MMP-Q   Magic Mesh Prep   Qt.
UL-MMP-G   Magic Mesh Prep   Gal.

MESH PREP PRODUCTS

NO. 2 ULANO MICROGRIT MESH PREP
Fine (18-20 microns) roughening powder abrades fabrics. Powder is sprinkled on to wet polyester or nylon fabric, then rubbed in with a rag to slightly roughen the surface. This aids the adhesion of films and emulsions. Easily removed with low pressure water.

UL-002-08   Microgrit 1/2 pound
UL-002-3   Microgrit 3 pounds

NO. 3 ULANO SCREEN DEGREASER LIQUID
Ready-to-use foam-action degreaser. A heavy syrup type liquid that is brushed into stretched fabric. Rinses with water.

70-6977-6   No. 3 Liquid 1 Qt.
70-6978-4   No. 3 Liquid 1 Gal.

SCREEN SYSTEMS DEGREASER 5505 SERIES
A unique light bodied detergent that can be applied with a spray bottle. Will suds lightly when brushed, and easily washes off with a light spray of water. Use with all emulsions and films. Degreaser removes oil residues which interfere with adhesion to the mesh. Areas which are contaminated, even by skin oils from fingerprints, will break down prematurely if not degreased.

SYS-5505-32   Qt. Screen Systems Degreaser
SYS-5505-36   Gal. Screen Systems Degreaser

ULANO #23
ABRADER/DEGREASER
Use with indirect and capillary films. Mesh Abrader/Degreaser Gel will cut the screen mesh to give it "tooth" to improve adhesion of films. Use only on new fabric. Better than dry powder abraders which are inhalable.

UL-023-Q   Quart Mesh Degreaser
UL-023-G   Gallon Mesh Degreaser
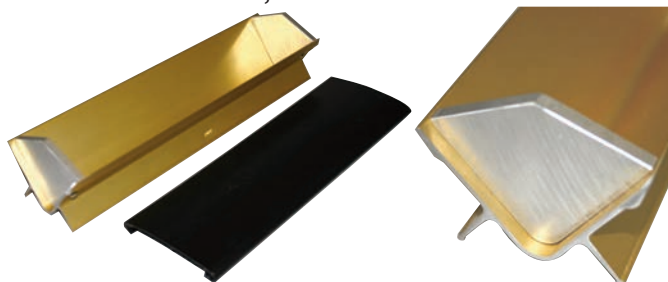
ULANO #25 CDF MESH PREP
Use with capillary films. A uniform sheeting of water on the surface of the mesh will yield uniform adhesion to films. Dry spots on the mesh will cause weak "blistered" spots.

UL-025-Q   Quart Wetting Agent
UL-025-G   Gallon Wetting Agent

SCOOP COATERS

ALL-ALUMINUM, DIRECT METHOD SCOOP

Two sided coater with a thin coating edge on one side, and a rounded edge on the other for heavier deposits of emulsion. Aluminum ends are screwed in place for durability. The only coater that sits straight up for easy filling without spills. All sizes listed indicate actual coater dimension. *All scoop coaters have effective coating area of 1" less than size ordered*. Scoop Coaters are available in customized sizes up to 144".

Cat. No.   Width

Cat. No.	Width	Cat. No.	Width	Cat. No.	Width
SC2-02	2"	SC2-15	15"	SC2-36	36"
SC2-03	3"	SC2-16	16"	SC2-38	38"
SC2-04	4"	SC2-17	17"	SC2-40	40"
SC2-05	5"	SC2-18	18"	SC2-42	42"
SC2-06	6"	SC2-19	19"	SC2-44	44"
SC2-07	7"	SC2-20	20"	SC2-46	46"
SC2-08	8"	SC2-22	22"	SC2-48	48"
SC2-09	9"	SC2-24	24"	SC2-50	50"
SC2-10	10"	SC2-26	26"	SC2-52	52"
SC2-11	11"	SC2-28	28"	SC2-54	54"
SC2-12	12"	SC2-30	30"	SC2-56	56"
SC2-13	13"	SC2-32	32"	SC2-58	58"
SC2-14	14"	SC2-34	34"	SC2-60	60"

Edge Guards

Protect scoop coater edges when not in use with replacement rubber edge guards. Specify size when ordering. Fits all Advance scoop coaters. Priced per running foot.

15-7308-8 Edge Guards

PRO M SCOOP COATER

One piece alloy construction with large emulsion reservoir. Features one edge with a round shape for thick deposits and the opposite with a sharp edge for controlled, thin emulsion deposition. Can also be custom made to specific lengths as required. Effective coating width is 1/4" less than overall length.

Cat. No.	Length	Cat. No.	Length
Pro-M-02	2"	Pro-M-34	34"
Pro-M-04	4"	Pro-M-36	36"
Pro-M-06	6"	Pro-M-38	38"
Pro-M-08	8"	Pro-M-40	40"
Pro-M-10	10"	Pro-M-42	42"
Pro-M-12	12"	Pro-M-44	44"
Pro-M-14	14"	Pro-M-46	46"
Pro-M-16	16"	Pro-M-48	48"
Pro-M-18	18"	Pro-M-51	51"
Pro-M-20	20"	Pro-M-53	53"
Pro-M-22	22"	Pro-M-57	57"
Pro-M-24	24"	Pro-M-60	60"
Pro-M-26	26"	Pro-M-63	63"
Pro-M-28	28"	Pro-M-68	68"
Pro-M-30	30"	Pro-M-77	77"
Pro-M-32	32"	Pro-M-84	84"
		Pro-M-96	96"

MAGNIFIERS

Magnifier Glass
High power hand held magnifier with highly polished aluminum rims, and black handles. 3" lens, with 6" focus.
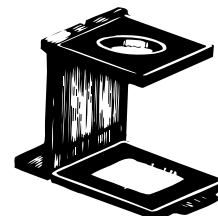
ST-735/3   Hand Magnifying Glass

Economy Linen Tester
A 1" x 1" all metal linen tester with fine optically ground and polished 2X lens. The base has 1/4" spaced engraved lines for easy counting or measuring. Folds completely.

ST-LT   Linen Tester

Professional Linen Tester
Powerful magnifiers used for counting threads, etching, engraving, checking halftone dots, etc. Soft black finish eliminates glare. Graduated markings provide reference. Folds away for carrying in a neat pouch.
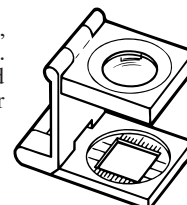
GR-0061   7X Power   1/2" x 1/2" Field
GR-0062   5X Power   1" x 1" Field

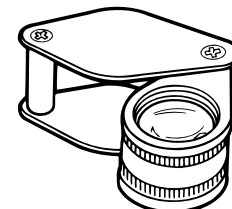## #63 Double Magnifier
8X on one end and 15X on the other. This magnifier is chrome plated and comes in its own vinyl case.
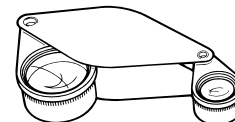
GR-0063   #63 Double Magnifier

#64 Coated Lens Magnifier

A 20X magnifier that is gold plated , with a vinyl carrying case.
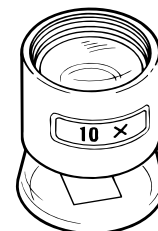
GR-0064   #64 Coated Lens Magnifier

#65 Fine Scale Magnifier
This traditional 10X Loupe is high quality yet inexpensive

GR-0065   #65 Fine Scale Magnifier

EMULSIONS

A FULL RANGE OF PHOTO SCREEN EMULSIONS TO SATISFY EVERY SCREEN MAKER

Northwest Graphic offers a complete range of emulsions for any purpose. From the ultimate SBQ photopolymer for graphic or textile applications to ultra tough dual cure emulsions and economic diazo sensitized emulsions. There are water resistant and solvent resistant emulsions.Abrasion resistant emulsions and some with wide exposure latitudes.

PHOTOPOLYMER EMULSIONS

Photopolymer emulsions are ready for use out of the container. They are fully mixed and presensitized with SBQ photopolymer sensitizer. Exposure times are 5 times faster than diazo and at least twice as fast as dual cure emulsions with excellent resolution and definition. Open containers must be handled under yellow safe lights before exposure.

GRAPHIC PHOTOPOLYMERS

One Pot Sol C
Color: Green   37% Solids

One Pot Sol C Murakami Screen's patented Premium SBQ sensitized direct emulsion developed for critical close tolerance applications. Designed for reproducing very fine detail and halftones and is resistant to solvents. Exposure is extremely fast - 3 to 5 times faster than diazo type emulsions.   Exhibits exceptional resolution and definition qualities due to the unique sensitizer, making this emulsion capable of reproducing the finest artwork. Due to balanced solids content, fewer coats are required for optimal build-up.Recommended for all inks except water soluble. It is extremely important to clean and degrease the screen mesh prior to application of emulsion

MS-SOLC-G	One Pot Sol C Emulsion	Gal.
MS-SOLC-Q	One Pot Sol C Emulsion	Qt.

SAATI PS1
Color: Red   34% Solids

PS1 is a pure Photopolymer Red emulsion that is their most economical Photopolymer. Ultra fast exposure for solvent, plastisol, and UV inks.

SAA-PS1-G	Saati PS1	
Gal		
SAA-PS1-Q	Saati PS1	Qt.

Photocure SR
Color: Magenta37% Solids

Photocure SR is PVA-SBQ presensitized pure photopolymer direct emulsion for UV, commercial graphics and textile (plastisol) inks. Photocure SR exhibits superior resolution and definition with wide exposure latitude for one color to 4 color process printing. Excellent solvent resistance and easy reclaiming. Extremely durable and resistant to pinholing and breakdown.

MS-SR-G	Photocure SR	Gal.
MS-SR-Q	Photocure SR	Qt.

Ulano QFX
Color: Magenta   38% Solids

QTX is a ready-to-use, ultra-fast-exposing photopolymer direct emulsion formulated for industrial halftone and fine detail graphics printing with solvent inks. QFX has offers high solids content for stencils with exceptional edge definition. Recommended for fine detail and halftone printing. QFX resists most solvent-based inks. Stencils made with the emulsion are extremely durable, and yet can be reclaimed easily.
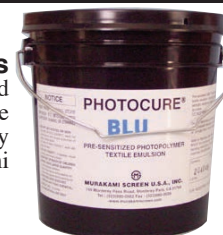
UL-QFX-G	QFX Emulsion	Gal.
UL-QFX-Q	QFX Emulsion	Qt.

TEXTILE PHOTOPOLYMERS

Photocure BLU
Color: Blue   41% Solids

Photocure BLU is a PVA-SBQ presensitized pure photopolymer direct emulsion for textile printers using plastisol inks.   Extremely durable and easily reclaimable. By Murakami

MS-BLU-G	Photocure BLU	
Gal.		
MS-BLU-Q	Photocure BLU	Qt.

PHOTOCURE TXR
Color: Pink   41% Solids

Photocure TXR is a PVA-SBQ presensitized pure photopolymer direct emulsion for textile printers using plastisol inks. TXR is easy to reclaim and his a high solids content. By Murakami.

MS-TXR-G	TXR Emulsion	
Gal.		
MS-TXR-Q	TXR Emulsion	Qt.

SAATI PV
Color: Red   42% Solids

Saati PV is their premium, durable, fast Photopolymer emulsion. This medium viscosity emulsion contains 42% solids, and can be used with plastisol and water based inks (with post exposure).

SAA-PV-G	Saati PV	
Gal		
SAA-PV-Q	Saati PV	Qt

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TEXTILE PHOTOPOLYMERS

AQUASOL - TS
Color: Blue   **44% Solids**

Aquasol TS is Murakami Screen's SBQ sensitized direct emulsion for the ultimate stencil for textile printing. Designed for reproducing very fine detail and halftones. Exposure is extremely fast - 3 to 5 times faster than diazo type emulsions. Due to the Balanced solids content (44%) fewer coats are required for optimal build up. The addition of Diazo sensitizer is recommended for use with water soluble inks. Clear (undyed) color.

MS-TSC-G	Aquasol TS	Gal
MS-TSC-Q	Aquasol TS	Qt.

Ulano QTX
Color: Red   **46% Solids**

QTX is a ready-to-use, ultra-fast-exposing photopolymer direct emulsion formulated for imprinted sportswear printing. QTX's high solids content (46%) provides superior coating properties, better bridging of course mesh, and fast drying. QTX resists plastisol and water-based textile inks, is extremely durable and reclaims easily. Do not subject to strong solvents during printing or washup.

UL-QTX-G	QTX Emulsion	Gal.
UL-QTX-Q	QTX Emulsion	Qt.

Murakami Aquasol HV
Color: Blue or Pink   **46% Solids**

Aquasol HV is an outstanding resolution, PVA-SBQ pure photopolymer, blue emulsion for plastisol or water based textile printing. (when hardened with Murakini hardener and diazo sensitizer). Coats and builds up easily because of a high (46%) solids content. Exhibits excellent durability, resolution and definition with a wide exposure latitude, with 3-5 times faster exposure times than diazo sensitized emulsions.

MS-HV-G	Murakami Aquasol HV Blue	Gal.
MS-HV-Q	Murakami Aquasol HV Blue	Qt.
MS-HVP-G	Murakami Aquasol HV Pink	Gal.
MS-HVP-Q	Murakami Aquasol HV Pink	Qt.

Ulano QLT
Color: Blue   **43% Solids**

QLT is highly resistant to most washup solvents and solvent-based inks, making it very easy to reclaim, either in automatic stencil removal equipment or by hand. Stencils made with QLT are extremely wear resistant and will not become tacky under high humidity conditions. Its high viscosity (~ 8200 CPS) provides good coating control. Its high contrast blue color affords easy stencil inspection.

UL-QLT-G	QLT Emulsion	Gal.
UL-QLT-Q	QLT Emulsion	Qt.

DUAL-CURE EMULSIONS

Dual cure emulsions have a premixed photopolymer sensitizer and a separate diazo sensitizer. They provide faster exposures than diazo only sensitized emulsions with resistance to all inks.

GRAPHIC DUAL CURE

Ulano QX-1 Hybrid
Color: Blue   **37% Solids**

QX-1 is a one pot (no mixing) SBQ sensitized dual cure hybrid that combines the convenience, exposure speed, and shelf life of pure photopolymer emulsions with the durability, versatility, and imaging properties of dual-cure emulsions. QX-1 features wide exposure latitude, very easy decoating, and superb printing performance under high and low humidity conditions. This blue-green emulsion is fast drying and is unaffected by hot solvents.

UL-QX1-G	QX-1 Emulsion	Gal.
UL-QX1-Q	QX-1 Emulsion	Qt.

Ulano QX-3 Hybrid
Color: Blue   **37% Solids**

QX-3 is a second generation of QX1. This hybrid exhibits all the qualities if QX1 plus is more resistant to UV inks, solvents, and water. Washes out easily with no color leaching.

UL-QX3-G	QX-3 Emulsion	Gal.
UL-QX3-Q	QX-3 Emulsion	Qt.

Ulano DLX - Dual Sensitized
Color: Blue   **38% Solids**

DLX is a high quality dual-cure are a reasonable price. DLX features superior resistance to humidity, rapid drying without residual surface oiliness, and reduced acrylate odor often associated with dual-cure emulsions. DLX is blue in color and has a matte finnish with no tack which allows for easy positioning of film and for easy removal of tape with negligible emulsion lift off.

UL-DLX-G	DLX Dual-cure	Gal.
UL-DLX-Q	DLX Dual-cure	Qt.

SAATI HU42
Color: Blue   **42% Solids**

Saati's most versatile emulsion uses controled particle size with 42% solids for excellent print definition. This Dual-Cure emulsion dries tack free. this makes positioning of film a snap and helps eliminate squeegee drag and chatter marks. Can be used with solvent, water based, UV, and plastisol inks.,

SAA-HU42-G	Saati HU42	Gal.
SAA-HU42-Q	Saati HU42	Qt.

Murakami GFX
Color: Blue   **44% Solids**

Murakami GFX is an outstanding resolution,dual cure, blue emulsion for use with solvent, UV, and other types of commercial inks. Ideal for use with aggressive solvents.

MS-GFX-G	Murakami GFX	Gal.
MS-GFX-Q	Murakami GFX	Qt.

Murakami PRO
Color: Blue   44% Solids
Murakami Pro is an outstanding resolution,dual cure, blue emulsion for use with solvent, UV, and other types of commercial inks. Ideal for use with aggressive solvents.

MS-PRO-G	Murakami PRO	Gal.
MS-PRO-Q	Murakami PRO	Qt.

Ulano RLX Multi-Purpose
Color: Magenta   38% Solids
RLX is a multi-purpose high speed diazo photopolymer direct emulsion. RLX's very high solids content provides better stencil build per coat, excellent bridging of coarse mesh, and faster drying. RLX has superb coating properties and durability, and is resistant to a wide variety of solvent- and water-based ink systems. RLX is recommended for imprinted sportswear, P-O-P, and advertising specialty printing.

UL-RLX-G	Ulano RLX Emulsion	Gal.
UL-RLX-Q	Ulano RLX Emulsion	Qt.

Murakami SP-9500
Color: Blue   36% Solids
SP-9500 is a high resolution, dual cure, emulsion for plastisol or water based textile or solvent based printing systems. Suitable for water based ink systems after hardened with Murakami hardeners. Coats and builds up easily because of a high solids content, and virtually pin hole and fish eye free. . Is not effected by hot solvents.

MS-SP-9500-G	Murakami SP-9500	Gal.
MS-SP-9500-Q	Murakami SP-9500	Qt

Ulano Proclaim
Color: Blue   37% Solids
New Proclaim provides unequalled exposure latitude and ease of decoating, even if underexposed and used with aggressive solvents. This provides fast stencil build up and excellent mesh bridging. highly resistant to solvents and UV inks. Ideal for graphic, textile and industrial applications. Available in blue and clear.

UL-PROCLAIM-5G	Proclaim	5Gal.
UL-PROCLAIM-G	Proclaim	Gal.
UL-PROCLAIM-Q	Proclaim	Qt.
UL-PROCLAIM-CL-5G	Proclaim Clear	5Gal.
UL-PROCLAIM-CL-G	Proclaim Clear	Gal.

SAATI HU
Color: Blue   39% Solids
Saati's most versatile emulsion uses controled particle size with 39% solids, for excellent print definition. This Dual-Cure emulsion dries tack free. this makes positioning of film a snap and helps eliminate squeegee drag and chatter marks. Can be used with solvent, water based, UV, and plastisol inks. Dries tack free, has 39% solids.

SAA-HU-G	Saati HU	Gal.
SAA-HU-Q	Saati HU	Qt.

Ulano LX-680 Hi-Resolution
Color: Blue   38% Solids
A high quality, high solids dual-cure emulsion with superb resolution, exposure latitude, edge definition and resistance to solvent and UV inks. LX-680 provides superior print quality and very fast drying.

UL-LX680-G	Ulano LX-680 Emulsion	Gal.
UL-LX680-Q	Ulano LX-680 Emulsion	Qt.

Ulano TLX - Dual Sensitized
Color: Lt Blue   38% Solids
Ulano TLX is a multi-purpose, fast exposing, green, diazo photopolymer emulsion with excellent edge definition and resolution. TLX's very high solids content (38%) provides a better stencil to build per coat, excellent bridging of coarse mesh and faster drying. TLX has superb coating properties and durability and is resistant to a wide variety of solvent and water base systems.

UL-TLX-G	TLX Multi-Purpose	Gal.
UL-TLX-Q	TLX Multi-Purpose	Qt.

TEXTILE DUAL-CURE

Ulano LX-660
Water Resistance
Color: Red   39% Solids
An Extremely durable, red, dual cure emulsion with superior wet strength and water resistance. Great edge definition and resolution with excellent solvent resistance and exposure latitude.

UL-LX660-G	L X - 6 6 0 Emulsion	Gal.
UL-LX660-Q	L X - 6 6 0 Emulsion	Qt.

Murakami SP-7500
Color: Pink   41% Solids
SP-7500 is a high resolution, dual cure, emulsion for plastisol or water based textile printing. Coats and builds up easily because of a high solids content. Is not effected by hot solvents.

DIAZO EMULSIONS

GRAPHIC DIAZO

MS-SP-7500-G	Murakami SP-7500	Gal.
MS-SP-7500-Q	Murakami SP-7500	Qt

Diazo emulsions offer economy, ease of use, and a wide exposure window. Ideal for use with weaker light sources.

Ulano Fotocoat 569
Color: Purple or Clear 39% Solids
Combines high-resolution and good solvent-resistance (except water). Emulsion 569 has a long shelf life. Has high solids for

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GRAPHIC DIAZO

Ulano Fotocoat
FX88 & FX88-SR
Color: Blue   37% Solids
Fast exposing emulsion for high volume production needs or weaker light sources. Outstanding printing quality and good solvent resistance. FX88-SR has extraordinary solvent resistance coupled with the exposure speed and printing quality of FX88. Dye supplied separately with FX88-SR
.

UL-FX88-G	FX88 Emulsion	Gal.
UL-FX88-Q	FX88 Emulsion	28 oz.
UL-FX88SR-G	FX88-SR Emulsion	Gal.

TEXTILE DIAZO

Murakami SP-300
Color: Lt Blue   42% Solids
SP-300 is a cost effective, diazo sensitized, blue emulsion for plastisol or water based textile printing. Coats and builds up easily because of a high (40-43%) solids content. Exhibits excellent durability, resolution and definition with a wide exposure latitude. not effected by hot solvents.

| MS-SP-300-G | Murakami SP-300 | Gal. |
| MS-SP-300-Q | Murakami SP-300 | Qt. |

Ulano TZ
Color: Lt Blue   33% Solids
Ulano's special water-resistant emulsion. Made to be used with water-based inks and water dyes and plastisols. Excellent mechanical resistance and resolution. Easy to reclaim, diazo sensitized. Available clear and dyed.

UL-TZ-Q	TZ (blue)	28 oz.
UL-TZ-G	TZ (blue)	Gal.
UL-TZCL-G	TZ/CL (white w/dye)	Gal.

Ulano QT DISCHARGE
Color: Pink   41% Solids
Ulano's special water-resistant emulsion, made to be used with discharge ink, water-based inks and water dyes and plastisols. Excellent mechanical resistance and resolution. Easy to reclaim, diazo sensitized. A new replacement for 925WR that ships non-hazardous.

| UL-DC-Q | QT Discharge | 28 oz. |
| UL-DC-G | QT Discharge | Gal. |

Ulano 925 WR
Color: Violet   41% Solids
Recommended for sportswear, T-shirt, and textile printing. Completely water resistant and very durable. Includes a syrup-based diazo sensitizer. Available in a clear version with separate dye. Ships hazardous.

UL-925-G	925 WR Plastisol Emulsion	Gal.
UL-925-Q	925 WR Plastisol Emulsion	Qt.
UL-925CL-G	925 WR Clear Emulsion	Gal.

Murakami Diazo Sensitizer
A powder sensitizer with long shelf life and excellent value. A separate Diazo Sensitizer that can be mixed with Murakami photopolymer emulsions to increase water resistance

| MS-4882 | (sensitizes l qt. of emulsion) |
| MS-4888 | (sensitizes l gal of emulsion |

EMULSION HARDENERS

ULANO X
Use with direct emulsions, capillary films and direct/indirect films. Emulsion hardener can have a major impact on productivity by keeping presses running during periods of high temperature and humidity or when screens are breaking down prematurely for any reason. Easy to apply and the results are dramatic.\

| UL-X-Q | Emulsion Hardener | Qt. |
| UL-X-G | Emulsion Hardener | Gal. |

MURAKAMI A/B HARDENER
Emulsion hardener can have a major impact on productivity by keeping presses running during periods of high temperature and humidity or when screens are breaking down prematurely for any reason. Use part A only for a reclaimable screen. Combining parts A & B will result in a permanent screen. In the two part system, the A & B components are mixed in equal (1:1) proportions prior to use. The combination product is applied with a sponge to both sides of the exposed and washed out, and dry mesh. Blow out residue after five minutes and allow screen to dry for 30 minutes. Rinse with water before blocking out.

| MS-A | A Emulsion hardener | Pint |
| MS-B | B Emulsion hardener | Pint |

MURAKAMI MS HARDENER

Emulsion MS hardener is a one part hardener that is applied to both sides of the screen after is has been exposed, developed, blocked out and dried. Improves stencil water resistance for improved performance with water based inks, and discharge printing, yet allows stencil to be reclaimed..

| MS-H-G | MS Hardener | Gal. |
| MS-H-5G | MS Hardener | 5 Gal. |

ULANO HARDENER WR

Designed as a companion product to QLT emulsion (with diazo added), WR improves water resistance, duarbility and compatibility with discharge inks. Can be used with any diazo sensitized emulsion. Unlike other hardeners that render stencils permanent, stencils treated with Hardener WR can be easily removed.

| UL-WR-G | Hardener WR | Gal |
| UL-WR-Q | Hardener WR | Qt |

CAPILLARY FILMS

ACHIEVE TOP-QUALITY RESULTS ON VARIED APPLICATIONS

Capillary films are high quality direct emulsions precisely coated on polyester film. The provide high definition stencils because the have uniform thickness and don't have the tendency to shrink around thread knuckles. Ink deposits can also be tightly controlled for the same reason. Screens are also prepared more quickly because screen making steps are reduced.

PHOTOPOLYMER CAPILLARY FILMS

Murakami MS

Murakami photopolymer PVA-SBQ stencil systems provide for superior imaging and durability. 100% phthalate free and environmentally safe films with a shelf life of 3+ years. Specially designed for close tolerance work and thick film applications. Use MS Graphic film for stronger solvents and MS film for textile and mild solvents.

Murakami MS-10 Film
10 micron film for mesh counts of 390 & higher, half-tones, UV inks, and PC boards.

MS-10-251968	25" x 1968"

Murakami MS-15 Film
15 micron film for mesh counts of 350 & higher, half-tones, UV inks, and PC boards.

MS-15-25394	25" x 394"
MS-15-39394	39" x 394"

Murakami MS-20 Film
20 micron film for mesh counts of 250-355.

MS-20-25394	25" x 394"
MS-20-39394	39" x 394"

Murakami MS-25 Film
25 micron film for mesh counts of 200-355.

MS-25-25394	25" x 394"
MS-25-39394	39" x 394"

Murakami MS-30 Film
30 micron film for mesh counts of 150-350.

MS-30-25394	25" x 394"
MS-30-39394	39" x 394"

Murakami MS-35 Film
35 micron film for mesh counts of 150-350.

MS-35-25394	25" x 394"
MS-35-39394	39" x 394"

Murakami MS-40 Film
40 micron film for mesh counts of 110-270.

MS-40-25394	25" x 394"
MS-40-39394	39" x 394"

Murakami MS-50 Film
50 micron film for mesh of 200-355.

MS-50-25394	25" x 394"
MS-50-39394	39" x 394"

Murakami MS-80 Film
80 micron film for coarse mesh counts.

MS-80-39394	39" x 394"

Murakami MS-100 Film
100 micron film for coarse mesh counts.

MS-100-39197	39" x 197"

MURAKAMI THICK FILMS

Murakami invented thick film and others are still trying to catch up. Thick films allow very heavy ink deposits adhesives, masks, and recently high density plastisol. Available in 16 x 23" sheets, 5 per package. Use One Pot Sol-C to adhere to mesh.

MS-150-1623	150 Micron pkg of 5
MS-150-1623S	150 Micron single sheet
MS-200-1623	200 Micron pkg of 5
MS-200-1623S	200 Micron single sheet
MS-300-1623	300 Micron pkg of 5
MS-300-1623S	300 Micron single sheet
MS-400-1623	400 Micron pkg of 5
MS-400-1623S	400 Micron single sheet
MS-700-1623	700 Micron pkg of 5
MS-700-1623S	700 Micron single sheet
MS-1000-1623	1000 Micron pkg of 5
MS-1000-1623S	1000 Micron single sheet

Ulano Photopolymer Capillary Films

Ultra fast photopolymer capillary films provide ultra sharp stencils for all applications. QSR film is a magenta colored film for graphic applications. ideal for aggressive solvents including M.E.K. lacquer thinner, toluene and UV inks, QTX is a pink film designed for plastisol printers. Solvents stronger than mineral spirits will cause premature breakdown of QTX. Special size sheets available in packages of 100.

QSR Graphic Films

QSR-20 Film
20 micron film for mesh counts of 250-355 mesh

UL-QSR20-26300	26" x 300"
UL-QSR20-42300	42" x 300"

QSR-30 Film
30 micron film for mesh counts of 150-350 mesh

UL-QSR30-26300	26" x 300"
UL-QSR30-42300	42" x 300"
UL-QSR30-52300	52" x 300"

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QSR-40 Film
40 micron film for mesh counts of 110-270 mesh

UL-QSR40-26300   26" x 300"
UL-QSR40-52300   52" x 300"

QTX Textile Films

QT-50 Film
50 micron film for mesh coarse counts of 110-270 mesh

UL-QT50-01414   14" x 14" sht pkg of 50
UL-QT50-01618   16" x 18" sht pkg of 50
UL-QT50-26300   26" x 300"

ULANO THICK FILMS

Ulano thick films allow very heavy ink deposits adhesives, masks, and recently high density plastisol. Available in 8 x 10" and 16 x 23" sheets, 10 per package. Use QTX emulsion or water to adhere to mesh.

UL-QT100-00810	100 Micron	8 x 10"
UL-QT100-01414	100 Micron	14 x 14"
UL-QT150-00810	150 Micron	8 x 10"
UL-QT150-01414	150 Micron	14 x 14"
UL-QT200-00810	200 Micron	8 x 10"
UL-QT200-01414	200 Micron	14 x 14"
UL-QT250-00810	250 Micron	8 x 10"
UL-QT250-01414	250 Micron	14 x 14"
UL-QT300-00810	300 Micron	8 x 10"
UL-QT300-01414	300 Micron	14 x 14"
UL-QT400-00810	400 Micron	8 x 10"
UL-QT400-01414	400 Micron	14 x 14"

Ulano EZ-FILM
A pure photopolymer film intended for standard textile printing using non-aqueous garment inks. Priced as an alternative to direct emulsion, it also offers savings in labor and production time. Exceptionally easy to use while producing superb quality stencils.

UL-EZ-1517   15 x 17" shts   50 per box
UL-EZ-1724   17 x 24" shts   50 per box

DUAL CURE CAPILLARY FILMS

ULANO MATRIX
Matrix is the latest capillary film from Ulano. It uses the latest dual cure technology for rapid exposure, razor sharp stencils, solvent resistance and easy reclaim. A green film with high contrast for easy visibility during washout.

Ulano MATRIX-15/UV
A 20 micron film for fine line and halftone work. Recommended for use with mesh number 305 or finer or use with UV inks.

UL-MX15-26300 26 x 300"
UL-MX15-42300 42 x 300"
UL-MX15-52300 52 x 300"

Ulano MATRIX-20
A 20 micron film for fine line and halftone work. Recommended for use with mesh number 305 or finer or use with UV inks.

UL-MX20-26300 26 x 300"
UL-MX20-42300 42 x 300"
UL-MX20-52300 52 x 300"

Ulano MATRIX-30
An ideal MX Direct-Film for intermediate mesh counts (230-305 synthetics). With stainless steel in the 325-400 range,
UL-MX30-26300 26 x 300"
UL-MX30-42300 42 x 300"
UL-MX30-52300 52 x 300"

Ulano MATRIX-40
A 38 micron film for use with most solvent-based inks, or intermediate mesh counts 195-305 . Good resolution with excellent edge sharpness.

UL-MX40-26300 26 x 300"
UL-MX40-52300 52 x 300"

DIAZO CAPILLARY FILMS

ULANO CDF
One of the original capillary films and still one of the most popular. Easy to see green film is humidity resistant, but not aggressive solvents, and may "freeze in" if aggressive solvents are used.

Ulano CDF-15
A 20 micron film for fine line and halftone work. Recommended for use with mesh number 305 or finer or use with UV inks.

UL-CDF15-2630 26 x 300"
UL-CDF15-4230 42 x 300"

Ulano CDF-2/UV
A 20 micron film for fine line and halftone work. Recommended for use with mesh number 305 or finer or use with UV inks.

UL-CDF2-26300 26 x 300"
UL-CDF2-42300 42 x 300"
UL-CDF2-52300 52 x 300"

Ulano CDF-3
An ideal CDF Direct-Film for intermediate mesh counts (230-305 synthetics). With stainless steel in the 325-400 range.
UL-CDF3-26300 26 x 300"
UL-CDF3-42300 42 x 300"
UL-CDF3-52300 52 x 300"

Ulano CDF-4
A 38 micron film for use with most solvent-based inks, for intermediate mesh counts 195-305 . Good resolution with excellent edge sharpness.

UL-CDF4-26300 26 x 300"
UL-CDF4-42300 42 x 300"
UL-CDF4-52300 52 x 300"

Ulano CDF/5VT

For glitter screens, puff inks, flocking, light colors on dark fabric, printed circuit solder masks - in short, for all applications requiring a thick ink deposit with sharp definition on very coarse mesh, ULANO CDF/5VT is recommended.

UL-CDF5-26300	26 x 300"
UL-CDF5-42300	42 x 300"
UL-CDF5-52300	52 x 300"

MASKING FILM

Ulano Rubylith

Rubylith is a red gel film coated on a stable base polyester backing sheet. Designs are cut into the gel, and areas are peeled out for drop-outs, masks, or overlays. Rubylith is light safe; this means that presensitized material under the red gel will not react or expose to light. The film also photographs black, making it helpful in overlays. Available in rolls, in combinations of several base material thicknesses, and fast all-purpose and easy peeling universal adhesive.

Rubylith RU3
Universal Adhesive
.003 Polyester Base

UL-RU3-40300	40 x 300"
UL-RU3-151800	15 x1800"
UL-RU3-241800	24 x1800"
UL-RU3-301800	30 x1800"
UL-RU3-361800	36 x1800"
UL-RU3-481800	48 x1800"

Rubylith RU5
Universal Adhesive
.005 Clear polyester base

UL-RU5-40300	40 x 300"

HAND-CUTTING FILMS

Hand cut films are used to create clean and sharp stencils. Northwest offers two basic types of hand-cut films: solvent-adhered films for resistance to water-based inks and water-soluble films for use with solvent-based inks. The structure of all hand-cut film consists of a coated film on a plastic support sheet. Support sheets are available in either of two thicknesses: .003 or .005. .005 films are recommended for beginners, because thicker film is easier to cut and mistakes are more easily repaired.

Ulano Plasti-cut Films
[SOLVENT-ADHERED]

Sta-sharp films are solvent-adhered for use with water-based inks and mild solvent based inks. The cutting surface of these films is very smooth for fast cutting and peeling time. They are dimensionally stable and durable for long lasting trouble-free screens. Extra-transparent films lie absolutely flat so they are easy to work with. They adhere fast and have excellent stick-back qualities for easy corrections.

S3S Sta Sharp (.003 Base)

UL-S3S-241800	24 x 1800"
UL-S3S-40300	41 x 300"
UL-S3S-48300	48 x 300"

Sta-Sharp Adhering Fluid

Recommended for adhering all regular lacquer-type films. Acts fast yet will not "burn" the finest cut lines if used as directed.

UL-ADH-G	Gallon
UL-ADH-Q	Quart

HAND-CUTTING FILMS

Ulanocut Green
[WATER-ADHERED]

Resistant to most solvent-based inks, these films adhere with water to all fabrics. The emulsion layer is formulated to retain edge sharpness and to resist bleeding. A special adhesive layer provides easy peeling and removal of the backing sheet after drying. They are easy to cut and stick-back for corrections. The following are UlanoCut knife-cut water-soluble film on a .003 polyester base.

Green

UL-UCG-151800	15 x 1800"
UL-UCG-241800	24 x 1800"
UL-UCG-301800	30 x 1800"
UL-UCG-40300	40 x 300"
UL-UCG-44300	44 x 300"
UL-UCG-52300	52 x 300"
UL-UCG-521800	52 x 1800"

ULANO PRE-SENSITIZED FILM

Super Prep Film

Super Prep is a green emulsion that is the same as HI-FI Green except it is on a .002 polyester backing sheet. Use developer listed below.

UL-PREP-40300	40 x 300"

Poly 2 Blue

Poly 2 Blue pre-sensitized film on a .002 polyester backing sheet. Simply expose to a film positive, develop, wash out, and adhere. A more sensitive film for fine detail and razor sharp prints. Use developer listed below.

UL-POLY2-40300	40 x 300"
UL-POLY2-44300	44 x 300"

Poly 3 Blue

Poly 3 Blue pre-sensitized film on a .003 polyester backing sheet. Simply expose to a film positive, develop, wash-out, and adhere. A more very sensitive film for detail and sharp prints. Use developer listed below.

UL-POLY3-40300	40 x 300"

Hi-Fi Developer

Ulano developer for pre-sensitized films shown here. Easy to use in pre-measured packets, in sets of A & B chemicals. Available in pint and quart sizes.

UL-AB-P	Pint of Hi-Fi Developer
UL-AB-Q	Quart of Hi-Fi Developer

612-729-7361 ---- Phone
612-729-6647 ---- Fax

nwgraphic.com

800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax

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ULANO PRE-SENSITIZED FILM (NO DEVELOPER)

Ulano PULSAR

A new totally unique stencil film from Ulano. Pulsar is exposed prior to mounting on the screen like gelatin films, however, it provides stencil life and durability similar to capillary films. Stencil thickness is determined by exposure time. No processing chemicals are required for development of stencils, and a three dimensional exposure unit is not required making it ideal for schools with only a plate maker available.

UL-PR-42300   Pulsar 42 x 300"

INDIRECT FILM REMOVER

Ulano #1 Special Enzyme

A safe, effective enzymatic specially formulated for faster action and better results in removing indirect photo stencils from all types of fabric. Odorless.

UL-001   Ulano #1 Special Enzyme (1 lb)

EXPOSURE GUIDE

DAVIS EXPOSURE GUIDE
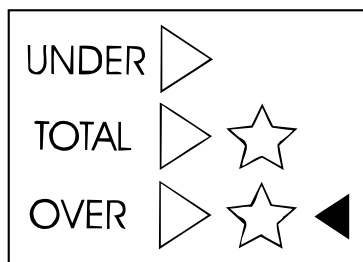
The easiest to use screen exposure guide ever made, and highly accurate. A 3/4" x 2-1/8" film that is small enough to be placed on every screen made. If only the left triangle appears, more exposure is needed. If the left triangle and star appear, exposure is correct. I f all three symbols appear, screen is over exposed. Make sure you have the right exposure.

DEC   Davis Exposure Guide

ULANO EXPOSURE GUIDE

The Ulano exposure guide is a professional tool for calculating the correct exposure for your emulsion. Gives the effect of five exposures in one because of the of the filter with five different densities in five distinct zones.

UL-EC   Ulano Exposure Calculator

WATER BLOCKOUTS

Screen Systems Blockout

All-purpose, water-based blockout. Use straight from the can or thin with water. Ideal for touching up and/or sealing screens made with solvent-resistant films or emulsions. Prevents screens from sagging, resists humidity, and does not become tacky in any weather. Provides a durable yet flexible blockout coating. Washes out with warm water. Available in quarts and gallons and 5 gallon containers.

SYS-5511-16	Red W/S Blockout	Pint
SYS-5511-Q	Red W/S Blockout	Qt.
SYS-5511-G	Red W/S Blockout	Gal.
SYS-5511-5G	Red W/S Blockout	5 Gal.

7600 Candoc
W/S Blockout

A water soluble all purpose blockout for use with films or direct emulsion. Washes out with water and dries fast to a durable, flexible finish. Available in gallons only.

7600-G   Red Candoc W/S Blockout   Gal.

#6 Ulano Blockout

A non-flammable, water soluble blockout with drying characteristics similar to indirect films. Can be thinned with cold water, and used in unventilated rooms. Blue in color, water soluble.

UL-006-Q	Ulano #6 Blockout Qt.
UL-006-G	Ulano #6 Blockout Gal.

#10 Ulano Blockout

A heavy, non-flammable, water soluble blockout with drying characteristics similar to indirect films. The high viscosity generally assures effective covering in a single coat. Especially good for coarse mesh. Can be thinned with cold water, and used in unventilated rooms. Blue in color, water soluble.

UL-010-G   Ulano #10 Blockout Gal.

Saati Red Blockout

A water soluble all purpose blockout for use with films or direct emulsion. Washes out with water and dries fast to a durable, flexible finish. Available in gallons only.

SAA-S1-G   Red Saati W/S Blockout   Gal

Blockout Pen

Handy pen for touching pin holes in the screen department and on the press.

BO-PEN-G   Green Blockout Pen

LACQUER BLOCKOUT

Candoc Fast-Dry Lacquer Blockout

Pyroxylin-type blockout. Use straight from the can or thin with SYS-1925. Ideal for touching up and/or sealing screens made with waterproof films or emulsions. Check ink being used for compatibility. Available in gallons only. Available in blue and clear in gallons only.

9500-G   Candoc Blue
Lacquer   Gal.
9500C-G   Candoc Clear Lacquer   Gal.

EMULSION REMOVER

Screen Systems Emulsion Remover

This is a liquid which is applied to screens to dissolve the emulsion. It can be sprayed or brushed onto a dry screen and allowed to set for 5 minutes. Then, a pressure washer should be used to remove any emulsion residue. Ideal for tank use without heat. Available in square, dispensing, 5 gal cubes.

6000 Series

Regular Strength for use right from the bottle.

SYS-6000-Q	Emulsion Remover	Qt.
SYS-6000-G	Emulsion Remover	Gal.
SYS-6000-5G	Emulsion Remover	5 Gal.
SYS-6000-5C	Emulsion Remover Cube	5 Gal.

6100 Series Concentrate

Concentrate - 1 part concentrate to 3 parts water.

SYS-6100-Q	Concentrated Remover	Qt.
SYS-6100-G	Concentrated Remover	Gal
SYS-6100-5G	Concentrated Remover	5 Gal.
SYS-6100-5C	Concentrated Rem Cube	5 Gal.

ULANO #4

A ready to use stencil remover liquid for fast and thorough removal of direct emulsions. Will not etch fabric and contains no strong alkalis or hypochlorites. Ideal for tank use.

UL-004-Q   Ulano #4 Remover   Qt.
UL-004-G   Ulano #4 Remover   Gal.

EMULSION REMOVER POWDER

These SMP crystals are the same as used to make the liquid removers above, except without the water. Two ounces of powder are used for each gallon. Available from a 2 ounce size (premeasured for one gallon) to 110 ounce for a 55 gallon drum. Ships as hazardous.

SYS-6002	2 oz	Makes one gallon
SYS-6016	16 oz.	Makes 8 gallons
SYS-6040	40 oz.	Makes 20 gallons
SYS-6080	80 oz.	Makes 40 gallons
SYS-6110	110 oz.	Makes 55 gallons

Screen Systems Premium Emulsion Remover

This is a liquid acid based concentrate must be reduced with water before use. Available in several strengths for your convenience. Reduced remover is applied to screens to dissolve the emulsion. It can be sprayed or brushed onto a dry screen and allowed to set for 5 minutes. Then, a pressure washer should be used to remove any emulsion residue. Ideal for tank use without heat.

6415 Series 15:1

Mix one gallon in fifteen gallons of water.

| SYS-6415-Q | Concentrated Remover | Qt. |
| SYS-6415-G | Concentrated Remover | Gal |

Stencil Remover Paste Ulano #5

A ready to use stencil remover paste for fast and thorough removal of direct emulsions. Will not etch fabric and contains no strong alkalis or hypochlorites. Ideal for tank use.

UL-005-Q   Ulano #5 Remover   Qt.
UL-005-G   Ulano #5 Remover   Gal.

HAZE REMOVER

5230 Haze Remover Gold

A very potent and works very fast, yet without the strong odor usually associated with haze removers., Extremely effective for removing even the most stubborn ghosts from printers' screens. Less harmful to mesh that corrosive haze removers. For use with all films and emulsions. Does not ship as hazardous. By Screen Systems.

SYS-5230-Q	Haze Remover	Qt.
SYS-5230-G	Haze Remover	Gal.
SYS-5230-5G	Haze Remover	5 Gal.
SYS-5230-5C	Haze Remover	5 Cube

ULANO 78

Remove emulsion or ink residue easily with this paste screen reclaiming agent. Corrosive product that contains caustic soda and can etch fabric. Ships as hazardous.

UL-078-G   5 Kg #78 Haze Remover Paste
UL-078-Q   1 Kg #78 Haze Remover Paste

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800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax
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HAZE REMOVER

5230 Haze Remover Gold

A very potent and works very fast, yet without the strong odor usually associated with haze removers., Extremely effective for removing even the most stubborn ghosts from printers' screens. Less harmful to mesh that corrosive haze removers. For use with all films and emulsions. By Screen Systems.

SYS-5230-Q	Haze Remover	Qt.
SYS-5230-G	Haze Remover	Gal.
SYS-5230-5G	Haze Remover	5 Gal.
SYS-5230-5C	Haze Remover	5 Cube

Walk Away Haze Remover

An ink stain and stencil residue haze remover with unrestricted dwell time. Can be coated and left to dry on the screens! Formulated to react as it dries on the screen, so that it can be applied and left to work for hours - even over night. Will not harm polyester, nylon, or stainless steel mesh, (Avoid metalized polyester.)

UL-WAHR-G	Walk Away Haze Remover	Gal
UL-WAHR-Q	Walk Away Haze Remover	Qt

PLASTIC LAYOUT BASE

Polyester

A Polyester is an extremely durable, and flexible plastic film. It is available in both crystal clear, and matte. It has several strong advantages over the other types of films. There is almost no change in dimension with polyester film. This means tight registration for overlays with no fear of misregistration later. The film never yellows, and is almost impossible to tear, making it a product that will store very well. .004" Thick.
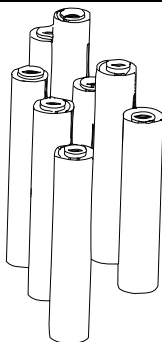
TR-4P-02025	20 x 25"
Sheets	
TR-4P-40012	40" x 12' Roll
TR-4P-40050	40" x 50' Roll
TR-4P-40100	40" x 100' Roll

Prepared Polyester

The specially treated surface of prepared polyester contains a thin coating of gelatin that will accept all wet media: ink, tempera, water color, opaque, acrylics, etc. In other ways it fits the description listed above for Polyester. Available in rolls, or sheets. .004" Thick

TR-AP-02025	20 x 25" Sheets
TR-AP-40012	40" x 12' Roll
TR-AP-40050	40" x 50' Roll

Acetate

Acetate is a plastic like material that is an ester or salt of acetic acid. All acetate is moisture proof. Caution should always be used with all acetate because it will yellow with age, tears easily, and is not dimensionally stable. Available in rolls or sheets.

Sheets	.003 in.	.005
20"x25"	TR-3C-02025	TR-5C-02025
25"x40"	TR-3C-02540	TR-5C-02540

Rolls	.003 in.	.005
20"x50'	TR-3C-20050	TR-5C-20050
20"x100'	TR-3C-20100	TR-5C-20100
40"x12'	TR-3C-40012	TR-5C-40012

OPAQUE MARKERS

Special formulation of inks that opaque photographic negatives. This is done by an intense red or black color that changes light to a safe color for photo work. Saves time over liquid opaques that must be brushed on.

KIMOTO OPAQUE MARKER
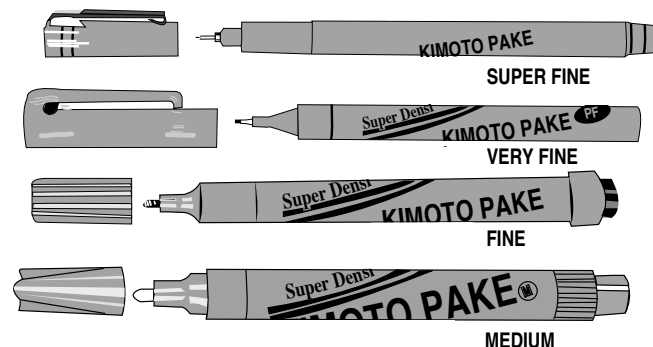
A professional retouch pen with super dense ink for single application that opaques completely. In dries in seconds after application. Pens work on a push and flow mechanism which allows the proper amount of opaque at the point. Available in red or black in four sizes. The medium size (largest) is refillable.

RED	SIZE	BLACK
KM-100	Fine	KM-101
KM-105	Medium	KM-106
KM-107	PF (Fine)	N/A
KM-109	Super fine	KM-110

SAFELIGHTS

Arm-A-Safe Gold Safelights

Slip the gold tubes over any standard fluorescent tube, and flood the screen room with safe, even gold light. Safe for all forms of screen films and emulsions, including printed circuit films and resists. Provides 50% more light than conventional gold lamps. Use 20W and 40W tubes. The easy way to light screen making rooms where sensitized emulsion films are affected by ultra violet light.

FG-99596	96" Brite-lite gold sleeve with end caps
FG-99548	48" Brite-lite gold sleeve with end caps
FG-99524	24" Brite-lite gold sleeve with end caps

Safelight Bulb

A 60 watt incandescent yellow safe light bulb. Ideal for a small coating/drying room.

70-1774-2	Yellow Incandescent Safe Light

Photo Flood Bulb

PHOTO FLOOD BULB

A #1 incandescent photo flood bulb. An inexpensive, but slow, exposure bulb

HU-4581	#1 Photo Flood Bulb

COMPUTER FILM & VELLUM

INK JET FILM

Aku Jet
Non Waterproof Ink Jet Film
Crystal clear polyester ink jet film for high quality film positives. Accepts ink in most ink jet printers including Epson 3000. Very reasonably priced. For dye inks only.
In 100 sheet packages and rolls.

SHEETS

IJF-0811	8-1/2 x 11"
IJF-0814	8-1/2 x 14"
IJF-1117	11 x 17"
IJF-1318	13 x 18"
IJF-1722	17 x 22"

ROLLS

IJF-16100	16" x 100' Roll
IJF-24100	24" x 100' Roll
IJF-36100	36" x 100' Roll
IJF-44100	44" x 100' Roll

ULANO PIGMENT INK JET
Waterproof Ink Jet Film
Clear polyester ink jet film for high quality film positives. Not affected by humidity, perspiration, washout sink over spray or coffee spill. Accepts ink in most ink jet printers including Epson 3000. For dye & pigment inks.

100 SHEETS

UL-PIJF-0811	8-1/2 x 11"
UL-PIJF-0814	8-1/2 x 14"
UL-PIJF-1117	11 x 17"
UL-PIJF-1319	13 x 19"
UL-PIJF-1722	17 x 22"

ROLLS

UL-PIJF-17100	17" x 100' Roll
UL-PIJF-24100	24" x 100' Roll
UL-PIJF-36100	36" x 100' Roll
UL-PIJF-44100	44" x 100' Roll
UL-PIJF-52100	52" x 100' Roll

LASER FILM

Laser Film
Premium 4 mil matte polyester film treated for toner receptivity. Dimensionally stable film that is ideal for multi color work where registration is required. Works with most laser printers, ideal for enhanced toner laser printers. 100 sheets per package.

LF-0811	8-1/2 x 11"
LF-0814	8-1/2 x 14"
LF-1117	11 x 17"
LF-1218	12 x 18"
LF-1220	12 x 20"
LF-13185	13 x 18.5"

Clear Laser Film
New crystal clear polyester film for laser printers. Designed for the Xante Film Writers, this clear film works with a number of other printers. (Test before production run.) 100 sheets per pkg,

LFC-0811	8-1/2 x 11"
LFC-1117	11 x 17"
LFC-1218	12 x 18"

Afford-A-Black
Waterproof Ink Jet Film
The first and still finest waterproof ink jet film. Designed to product opaque black positives or brilliant color prints on crystal clear film. Works in most ink jet printers, ideal in an Epson 3000 (test others before production). For dye and pigment inks. Available in 100 sheet packages and rolls.

SHEETS

IJF-AB-0811	8-1/2 x 11"
IJF-AB-1117	11 x 17"
IJF-AB-1318	13 x 18"
IJF-AB-1722	17 x 22"

ROLLS

IJF-AB-13100	13" x 100' Roll
IJF-AB-14100	14" x 100' Roll
IJF-AB-17100	17" x 100' Roll
IJF-AB-24100	24" x 100' Roll
IJF-AB-42100	42" x 100' Roll
IJF-AB-60100	60" x 100' Roll

ECONO-BLACK INK JET
Waterproof Ink Jet Film
Clear polyester ink jet film for high quality film positives. Good quality at an affordable price. Accepts ink in most ink jet printers including Epson 3000. For dye & pigment inks. In 100 sheet packages and rolls.

SHEETS

IJF-EB-0811	8-1/2 x 11"
IJF-EB-1117	11 x 17"
IJF-EB-1318	13 x 18"
IJF-EB-1319	13 x 19"
IJF-EB-1722	17 x 22"

ROLLS

IJF-EB-13100	13" x 100' Roll
IJF-EB-14100	14" x 100' Roll
IJF-EB-17100	17" x 100' Roll
IJF-EB-24100	24" x 100' Roll
IJF-EB-36100	36" x 100' Roll
IJF-EB-42100	42" x 100' Roll

LASER VELLUM

LV VELLUM
A high tech translucent laser paper for negative or positive images to use in exposing screens or printing plates without costly film. Specially coated for incredible toner adhesion. Dimensionally stable under heat and pressure of laser printing - can be used to create color separations. Consistent moisture content for easy handling and curl resistance.
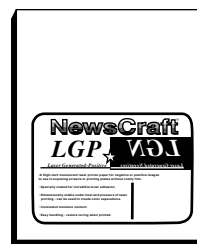
100 Sheet Pkg	Size	500 Sheet Pkg
LV-10810	8-1/2 x 11"	LV-50810
LV-10814	8-1/2 x 14"	LV-50814
LV-11117	11x17"	LV-51117
LV-11219	12 x 19-1/2"	LV-51219
LV-11318	12.9 x 18"	LV-51318

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AFFORD-A-BLACK

Afford-A-Black is the only ink designed for film positive output on ink jet printers. This is a dye ink formulated for clear ink jet film that is scratch resistant and quick drying, with excellent UV blocking characteristics. There are cartridges for the popular Epson printers as well as bulk systems for the R1800, R2400, 2200, and 1520. Note: all cartridges contain black ink. Where a color is named, it indicates the slot the cartridge is designed to replace. All fast inks are designed for use with Accurip and other raster image processors.

FASTINK DYE BULK INKS

USBLKD90	90ml	1520,2200 Bag Refill
USDBLK8	8 oz.	Refill Bottle

EPSON R1400 FASTINK

US1400MTBLKD18U	18ml	Cartridge
US1400BULKSYS	90ml	Bulk System

EPSON 1520 FASTINK

US1250BLKD25	25ml	Cartridge
US1520BULKSYS	90ml	Black Bulk System

EPSON R1800 FASTINK

US1800BLKD18U	18ml	Cartridge
US1800BULKSYS	90ml	Bulk System

EPSON 2200 FASTINK

US2200BLKD18U	18ml	Cartridge
US2200BULKSYS	90ml	Bulk System

EPSON R2400 FASTINK

US2400BLKD18U	18ml	Cartridge

EPSON 3000 FASTINK

US3000BLKD110U	110ml	Cartridge

EPSON 4000 - 7600 - 9600 FASTINK   Slot

US479BLKD110U	110ml	Cartridge	Photo Black
US479BLKD220U	220ml	Cartridge	Photo Black

EPSON 7800-9800 FASTINK   Slot

US78/98LBLKD110U	110ml	Cartridge	Lt Black
US78/98LBLKD220U	220ml	Cartridge	Lt Black
US78/98LLBLKD110U	110ml	Cartridge	Lt Lt Black
US78/98LLBLKD220U	220ml	Cartridge	Lt Lt Black
US78/98LTMAGD110U	110ml	Cartridge	Lt Magenta
US78/98LTMAG220U	220ml	Cartridge	Lt Magenta
US78/98LTCYAND110U	110ml	Cartridge	Lt Cyan
US78/98LTCYAND220U	220ml	Cartridge	Lt Cyan

EPSON 4800 FASTINK

US48LBLKD110U	110ml	Cartridge	Lt Black
US48LBLKD220U	220ml	Cartridge	Lt Black
US48LLBLKD110U	110ml	Cartridge	Lt Lt Black
US48LLBLKD220U	220ml	Cartridge	Lt Lt Black
US48LTMAGD110U	110ml	Cartridge	Lt Magenta
US48LTMAG220U	220ml	Cartridge	Lt Magenta
US48LTCYAND110U	110ml	Cartridge	Lt Cyan
US48LTCYAND220U	220ml	Cartridge	Lt Cyan

Northwest Graphic Supply Co.
4200 East Lake St. • Minneapolis, MN 55406   nwgraphic.com

EPSON® Brand Inks

Genuine Epson cartridges for your Epson printer.

EPSON R1800 PRINTER 18ml

EPSON-T054020	Gloss Optimizer
EPSON-T054120	Photo Black
EPSON-T054220	Cyan
EPSON-T054320	Magenta
EPSON-T054420	Yellow
EPSON-T054720	red
EPSON-T054820	Matte Black
EPSON-T054920	Blue

EPSON 2200 18ml

EPSON-T034120	Photo Black
EPSON-T034220	Cyan
EPSON-T034320	Magenta
EPSON-T034420	Yellow
EPSON-T034520	Light Cyan
EPSON-T034620	Light Magenta
EPSON-T034720	Light Black
EPSON-T034820	Matte Black

EPSON 4000 / 7600 / 9600 UltraChrome Inks

110 ml	220ml	
EPSON-T543100	EPSON-T544100	Photo Black
EPSON-T543200	EPSON-T544200	Cyan
EPSON-T543300	EPSON-T544300	Magenta
EPSON-T543400	EPSON-T544400	Yellow
EPSON-T543500	EPSON-T544500	Light Cyan
EPSON-T543600	EPSON-T544600	Light magenta
EPSON-T543700	EPSON-T544700	Light Black
EPSON-T543800	EPSON-T544800	Matte Black

EPSON 4800/ 4880 UltraChrome Inks

110 ml	220ml	
EPSON-T6051	EPSON-T6061	Photo Black
EPSON-T6052	EPSON-T6062	Cyan
EPSON-T605B	EPSON-T606B	Magenta
EPSON-T6054	EPSON-T6064	Yellow
EPSON-T6055	EPSON-T6065	Light Cyan
EPSON-T605C	EPSON-T606C	Light Magenta
EPSON-T6057	EPSON-T6067	Light Black
EPSON-T6138	EPSON-T6148	Matte Black

EPSON 7800 / 9800 / 7880 / 9880 UltraChrome Inks

110 ml	220ml	
EPSON-T6021	EPSON-T6031	Photo Black
EPSON-T6022	EPSON-T6032	Cyan
EPSON-T602B	EPSON-T603B	Magenta
EPSON-T6024	EPSON-T6034	Yellow
EPSON-T6025	EPSON-T6035	Light Cyan
EPSON-T602C	EPSON-T603C	Light Magenta
EPSON-T6027	EPSON-T6037	Light Black
EPSON-T6118	EPSON-T6128	Matte Black

TEXTILE INK

Direct Ink Textile is a specially formulated water based, pigment textile ink that will work on 100% cotton (light and dark colored shirts) and 50/50 (light colored) materials. It only needs a simple heat setting with a transfer press to make the print wash fast. FastInk is manufactured to the highest standards, and is the brightest in the industry. Plus, Direct Ink White is the finest anywhere!

FastInk Colors	8 oz.	16 oz.	1 Litre
Cyan	DTG O 08 CY	DTG O 16 CY	DTG O 36 CY
Lt. Cyan*	DTG O 08 LTCY	DTG O 16 LTCY	DTG O 32 LTCY
Magenta	DTG O 08 MG	DTG O 16 MG	DTG O 32 MG
Lt. Magenta*	DTG O 08 LTMG	DTG O 16 LTMG	DTG O 32 LTMG
Yellow	DTG O 08 YE	DTG O 16 YE	DTG O 32 YE
Lt. Black*	DTG O 08 LTBK	DTG O 16 LTBK	DTG O 32 LTBK
Black	DTG O 08 BK	DTG O 16 BK	DTG O 32 BK
White**	DTG O 08 WH	DTG O 16 WH	DTG O 32 WH

*Used only in T-Jets configured for light shirts only.
** Used only in T-Jets configured for printing on dark shirts.

TEXTILE PRETREATMENT

Pretreatment is applies to shirts with a Wagner® Power Sprayer and heat set in a transfer press. Pretreatment makes ink sit on the surface for a brighter print. While pretreatment is essential for printing white in dark shirts, either alone or as an underbase, it is optional on light colored shirts. FastBright pretreatment will make colors much brighter on light colored fabrics.

	1 Liter	1 Gallon
PreTreat for Dark Shirts	DTG O 32 PD	DTG O 36 PD
FastBright for Light Shirts	N/A	DTG O 36 PL

FastInk Cleaning Solution & Cleaning Swabs

A ready for use cleaner for cleaning heads on your T-Jet. T-Jet cleaning swabs are an indispensable ait in maintenance.

	8 oz.	16 oz.	QT	GAL
Purge solution	DTG O 08 PURG	DTG O 32 PURE	DTG O 32 PURG	DTG O G PURG
Swabs - Box of 50	TJETSWAB			

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800-544-7022 ---- Toll Free Fax
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SubliJet IQ™

SAWGRASS TECHNOLOGIES

Sawgrass is the premier sublimation ink for ink jet printers. Sublimation ink is controlled with a special rip (Supplied at no cost by Sawgrass) to sublimation paper. This is then transferred with a heat press to a synthetic fabric or specially treated solid object. A fast, inexpensive way to decorate many objects.

EPSON Printer Ink

	C88	C-84/86	Refill Bag
Cyan	SG-203352	SG-203262	SG-2103262
Magenta	SG-203353	SG-203263	SG-2103263
Yellow	SG-203354	SG-203264	SG-2103264
Black	SG-203351	SG-2032610	SG-2103261

R1800	Cart	Refill	Lg Refill
Cyan	SG-203312	SG-603312	SG-2703312
Magenta	SG-203313	SG-603313	SG-2703313
Yellow	SG-203314	SG-603314	SG-2703314
Black	SG-2033112	SG-6033112	SG-27033112

1280	Cart	Refill
Black	SG-203161	SG-2103161
5 Color	SG-203165	
Cyan		SG-2103162
Magenta		SG-2103163
Yellow		SG-2103164
Light Cyan		SG-2103167
Light Magenta		SG-2103168

4000	110 ml	220 ml
Cyan	SG-203272	SG-703272
Magenta	SG-203273	SG-703273
Yellow	SG-203274``	SG-703274
Black	SG-203277	SG-703271
Lt Cyan	SG-203277	SG-703277
Lt Magenta	SG-203278	SG-703278
Lt Black	SG-203276	SG-703275
Photo Blk	SG-203276	SG-703276
Red	SG-2032710	SG-7032710
Blue	SG-2032711	SG-7032711

4800	110 ml	220 ml
Cyan	SG-30033402	SG-703402
Magenta	SG-30033403	SG-703403
Yellow	SG-30033404``	SG-703404
Black	SG-30033412	SG-703412
Lt Cyan	SG-30033407	SG-703407
Lt Magenta	SG-30033408	SG-703408
Red	SG-30033410	SG-703410
Blue	SG-30033411	SG-703411

4880	110 ml	220 ml
Black	SG-30031412	SG-7031412
Cyan	SG-3003142	SG-703142
Magenta	SG-3003143	SG-703143
Yellow	SG-3003144``	SG-703144
Blue	SG-30031411	SG-7031411
Lt Cyan	SG-3003147	SG-703147
Lt Magenta	SG-3003148	SG-703148
Red	SG-30031410	SG-7031410

Permanent markers are solvent soluble, not water soluble. The term "permanent" in markers refers to solubility, not light fastness.

SHARPIE

A water resistant marker for writing on almost any surface. A bullet tip on the regular model or a fine plastic (0.4mm) tip on the Extra Fine Sharpie, mark boldly on metal, glass, plastic, foil, rubber, waxed paper, etc. The high intensity are also used for overhead projection. 12 per box.

SUPER SHARPIE

SA-33001	Black	SA-33003	Blue
SA-33002	Red	SA-33004	Green

REGULAR SHARPIE

SA-30001	Black	SA-30005	Yellow
SA-30002	Red	SA-30006	Orange
SA-30003	Blue	SA-30007	Brown
SA-30004	Green	SA-30008	Purple

ULTRA FINE SHARPIE

SA-37001	Black	SA-37003	Blue
SA-37002	Red	SA-37004	Green

TWIN TIP SHARPIE

A new Sharpie that features a regular tip in one end and an ultra fine tip in the other.

SA-32001	Black	SA-32003	Blue
SA-32002	Red	SA-32004	Green

TECHNICAL PENS

A technical pen is a writing instrument designed to produce an extremely uniform, dense line. It must meter ink so that the line width remains the same from start to finish, and produces a line dense enough for photographic reproduction. The pen does this using the principal of capillary action. The ink flows down a tube and around a wire that is inside the tube. The wire also breaks the surface tension when the point touches the drawing surface. A technical pen is a sensitive instrument that requires care and must be used with the right ink (see ink products later in this section). It is also recommended that the point and wire not be disassemble during cleaning.

KOH-I-NOOR RAPIDOGRAPH

The Koh-I-Noor Rapidograph features an extra smooth feel on the drawing surface. The patented dry double seal cap system seals the
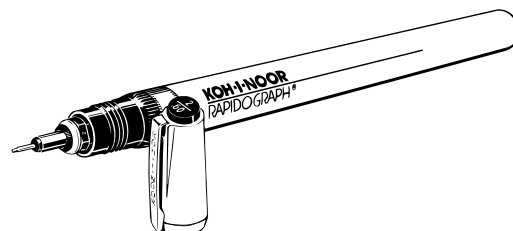
entire nib and tube orifice This helps eliminate drying out. There is no need to add water, and no mechanical parts to jam. 13 different line widths are available that are marked in standard and metric sizes. Nine of these sizes are in widths that conform to the International Standards Organization (ISO). Available with stainless steel points.

COMPLETE PENS			POINTS
K-3165-013	6/0	.13mm	K-0072D-013
K-3165-018	4/0	.18mm	K-0072D-018
K-3165-025	3/0	.25mm	K-0072D-025
K-3165-030	2/0	.30mm	K-0072D-030
K-3165-035	0	.35mm	K-0072D-035
K-3165-050	1	.50mm	K-0072D-050
K-3165-060	2	.60mm	K-0072D-060
K-3165-070	2-1/2	.70mm	K-0072D-070
K-3165-080	3	.80mm	K-0072D-080
K-3165-100	3-1/2	1.00mm	K-0072D-100
K-3165-120	4	1.20mm	K-0072D-120
K-3165-140	6	1.40mm	K-0072D-140
K-3165-200	7	2.00mm	K-0072D-200

SLIM PACK SETS

Slim Pack Sets are sets in attractive plastic boxes with clear plastic lids and push button release. Each set includes a bottle of ink, and two nib wrenches. Sets are only about an inch thick to fit into drawers.

K-3165-SP-4	2/0, 0, 1, 2	Steel Points
K-3165-SP-7	3/0, 2/0, 0, 1, 2, 3, 4	Steel Points

MARS PIGMENT LINER

Permanent ink that is popular with accountants, students, artists and graphic designers, the Mars basic drawing pen is available in five different sizes. Any size is perfect for renderings, sketches and mechanical drawings. Because the ink dries fast and permanently, artists can wash and color overlay pigment liner ink artwork. There is no feathering or bleeding through paper. 10 per box

MR-308-OO5-9	.05mm Pigment Liner	Black
MR-308-01-9	.1mm Pigment Liner	Black
MR-308-02-9	.3mm Pigment Liner	Black
MR-308-05-9	.5mm Pigment Liner	Black
MR-308-07-9	.7mm Pigment Liner	Black

SETS

MR-308-BK4	Pigment Liner	Set of 4 Black

Dr Martins' TECH INK

An ink designed for technical pens and film. Can be used on almost any film including ink jet, camera, and diffusion transfer. Dense black blocks light for use on positives. Also recommended for paper and illustration board.

DRM-70-14W	FW Ink	Black

3085 ULTRADRAW

A waterproof ink specially formulated to be non-clogging in technical pens. It has a longer open time in the pen, but dries quickly on paper. There is good blackness, easy flow, and is non-smearing. No unpleasant odor.

K-3085F	3/4 oz Bottle	Black

#6 GRIFHOLD KNIFE

A light weight aluminum handle knife with replacement blade and 5" overall length. Handle is 1/4" in diameter. Uses GR-0006B or X-0204 blades. Ideal for film cutting in schools.

GR-0006   Grifhold #6   Light Knife

#1 STYLE KNIFE

The most popular knife from X-Acto, the #1 knife is an aluminum handle that is 4-7/8" long and comes with a #11 blade. Has unlimited uses from professional graphic artists to hobbyists and accepts a variety of blades including #11, #10, #21, #12, #13, #14, #17 and #18.

X-3201   X-Acto #1 Knife   Carded
X-3001   X-Acto #1 Knife   Bulk w/Safety Cap
GR-0007   Grifhold #7 Knife   Card

#2000 X-ACTO KNIFE

A new rubberized comfort grip knife with anti roll wedge and center barrel release. Has unlimited uses from professional graphic artists to hobbyists and accepts a variety of blades including #11, #10, #21, #12, #13, #14, #17 and #18. Safety cap included

X-3722   #2000 Knife Cranberry   Carded
X-3723   #2000 Knife Royal Blue   Carded
X-3724   #2000 Knife Black   Carded

GRIPSTER STYLE KNIFE

A new rubberized comfort grip knife with anti roll design. Rear blade release for easy safe replacement. Has unlimited uses from professional graphic artists to hobbyists and accepts a variety of blades including #11, #10, #21, #12, #13, #14, #17 and #18. Safety cap included, all are carded.

X-3623   X-Acto Gripster   Red
X-3626   X-Acto Gripster   Blue
X-3627   X-Acto Gripster   Black

CUT-ALL KNIFE

The Cut-All knife by X-Acto is similar to the #1 knife, except that it has a plastic handle. This handle tapers toward the rear and is attached to an aluminum chuck. Uses the same blade as the #1 knife. All are carded.

X-3290   X-Acto Cut-All   Black

#3 X-ACTO KNIFE

A knife with a gold tone barrel and a screw on cap that clips to your pocket. Comes with a #10 blade.

X-3203   X-Acto #3 Knife   Carded

#24 STENCIL KNIFE

The Grifhold #24 knife is unique in that it will take both flat and round shank blades. Round shank blades are sometimes preferred by professionals because they are easier to sharpen. Features screw release clutch that holds the same blades as the #1 knife as well as the #24 series of blades by Griffin.

GR-0024   Grifhold #24 Knife   Carded

#2 X-ACTO KNIFE

The #2 knife has a slightly larger diameter handle than the #1, and uses larger shank blades. Has screw lock front clutch for blade release. Uses #2, #15, #18, #19, #22, #23, #24, #25, #26, #27 and #2 assortment blades.

X-3202   X-Acto #2 Knife   Carded

#6

#1

#2000

Gripster

Cut-all

#3

#24

#2

#5

#9
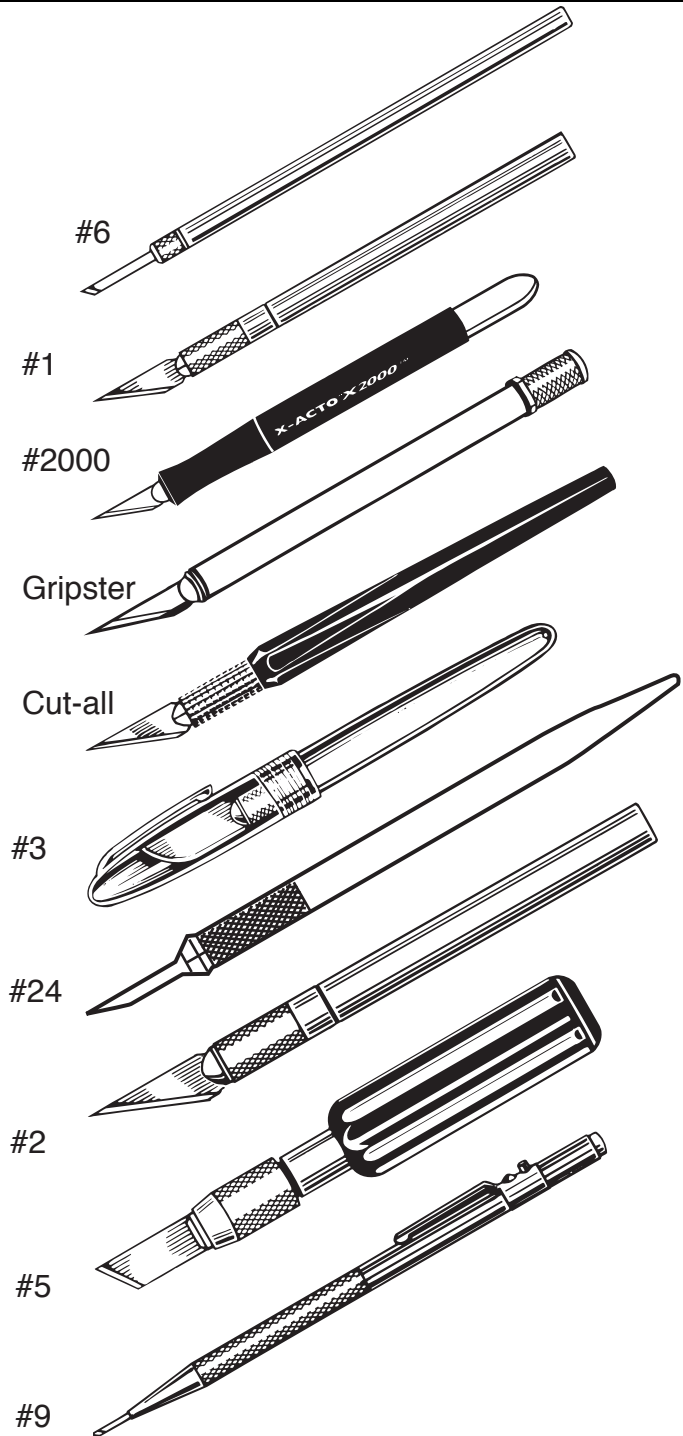
#5 X-ACTO KNIFE

A heavy duty knife with a red plastic handle that is 4-1/4" long. Comes with a #19 blade, and uses the same blades as the #2 knife plus razor saw blades. Ideal for hobby and craft work.

X-3205   X-Acto #5 Knife   Carded

#9 RETRACTABLE KNIFE

This all metal knife features a retractable push button release blade with a positive lock when open. Designed for delicate, close work demanding accuracy. Comes with handy pocket clip. Uses #9 blades only.

X-3209   X-Acto #9 Retractable   Carded
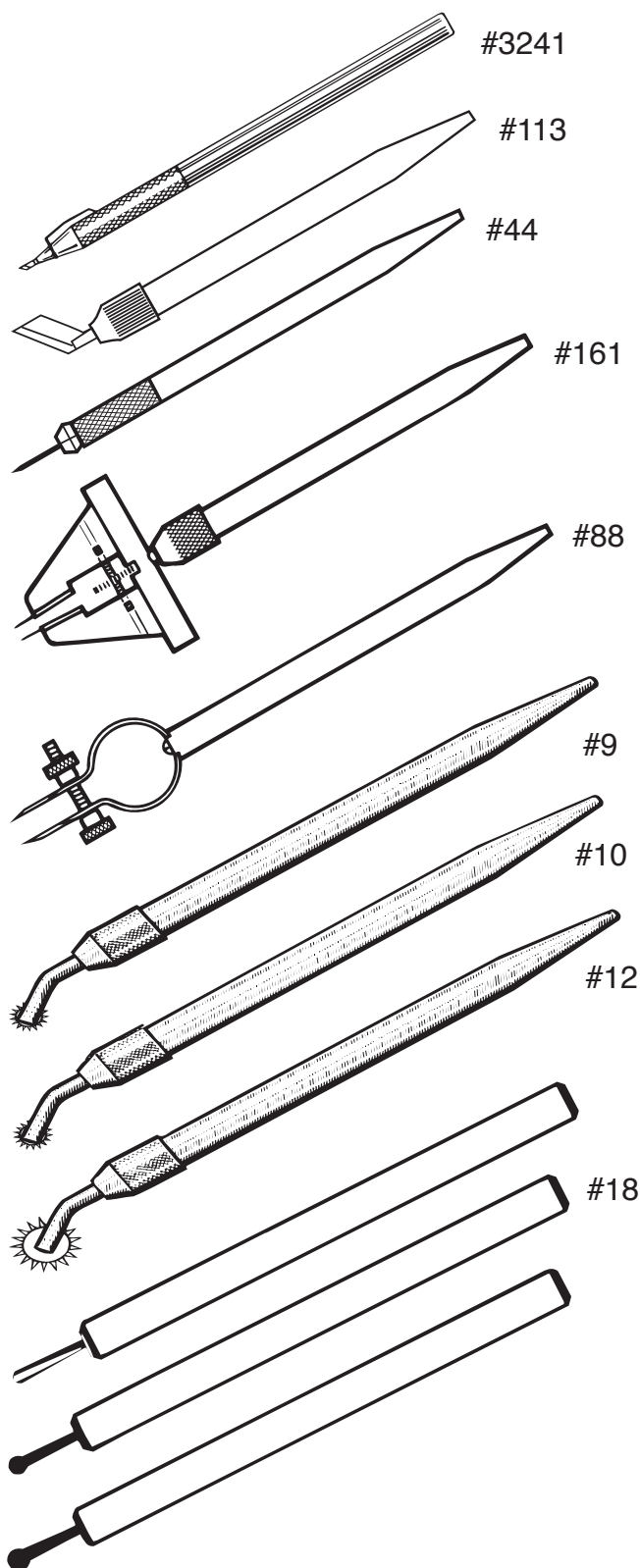
SWIVEL

#3241 X-ACTO CRAFT SWIVEL

The craft swivel knife has an anodized aluminum handle with cap and a blade that rotates 360 degrees easily. Ideal for paper and friskets. Uses X-Acto #241 blades only.

X-3241   X-Acto Craft Swivel Knife   Carded

#113 GRIFHOLD SWIVEL

An all aluminum knife that cuts arcs, curves, etc. in film or paper. Uses Grifhold #113B blade only.

GR-0113   Grifhold Swivel Knife

DUAL CUTTERS

#88 DUAL CUTTER

A double blade knife that makes parallel cuts quickly and easily. Rapid adjustment from very fine to 1/2" is made at the turn of a screw. Ideal for cutting lines on masking film, screen films, stencils, type strips (from strip type setting machines), and stencils. Blades are not replaceable.

GR-0088   Grifhold Dual Cutter   Carded

#161 DUALFLEX CUTTER

The Dualflex is a double blade knife with flexible spring action for making parallel cuts. The tempered steel blades are encased in an adjustable spring platform. Press more heavily on one blade (as in curves), and the spring effect compensates, holding the opposite blade to the cutting surface, eliminating waver. The light weight aluminum head has a swivel for cutting circles, scrolls, and curves. Ideal for stencil film, type strips, etc. Line width is adjustable from very fine to 5/8". Uses Grifhold #161B blades.

GR-0161   Grifhold Dualflex Cutter   Carded

SPECIALTY

#44 PIN VISE

An all aluminum handle that holds #44P pins or drill bits up to 1/16" Ideal for fine scribing, retouching, stenciling, or perforating. Pin retracts into handle when not in use, carded.

GR-0044   Pine Vise   Carded
GR-0044-P   Pins for above   Carded

POUNCE WHEELS

A pounce wheel is made up of a handle that holds a small wheel with little teeth. The teeth on the wheel put a line of holes in paper they are rolled over. Usually the wheel is rolled over a pre-drawn design. The design becomes a pattern that can be held against an object and tapped or pounced with a bag of charcoal. This puts the pattern on the object. Carded.

GR-0009   1/4" Pounce Wheel, 21 Teeth/Inch
GR-0010   1/4" Pounce Wheel, 15 Teeth/Inch
GR-0012   7/16" Pounce Wheel, 15 Teeth/Inch

FILM LINE CUTTERS

An easy way to cut or scribe lines on hand cut stencil film or orthographic photo film. The scientifically designed edge of the scooper enables you to cut sharp, clean lines without damaging the base film. Sets of three cutters in a range of sizes.

GR-0018A   Grifhold Set   Carded

#3241
#113
#44
#161
#88
#9
#10
#12
#18

BLADES

These are the replacement blades for the knives listed on the previous pages. They are divided into three sections by the size of the handle chuck that they fit. Packaging is listed in four ways: Tuck box packaging is a unit of blades wrapped in paper. Carded blades are in a plastic tray on a blister card. A safety dispenser is a package of blades in a plastic box with a side compartment for disposal of used blades. Finally, the Bulk Pack is a unit of 100 blades in a paper box. These blades fit the popular light weight handles. Knives they fit

FOR SMALL HANDLES

include the X-Acto #1, #3, Super #1, Cut-All, #1 SGK, and the Grifhold #24. They also fit other brands of comparable knives.

#10 X-ACTO BLADES

A rounded edge blade for general cutting, carving, and correcting stencils.

| X-0210 | #10 Blades, Carded | Pkg. 5 |
| X-0610 | #10 Blades | Pkg. 100 |

#11 X-ACTO BLADES

An extremely sharp angled point for fine cutting and stencil cutting. Also ideal for masking films.

X-0211	#11 Blades, Carded	Pkg. 5
X-0411	#11 Blades, Safety Disp.	Pkg. 12
X-0611	#11 Blades, Bulk Pack	Pkg. 100

#7E GRIFHOLD BLADES
The same blade as the #11 with an extremely sharp angled point for

fine cutting and stencil cutting. Also ideal for masking films. High quality at a lower price.

| GR-0007E | #7E Blades, Carded | Pkg. 5 |
| GR-0007E-100 | #7E Blades, Bulk Pack | Pkg. 100 |

#11 X-ACTO BROAD TIP
Same shape and use as the #11 blades above, except in A Broader Point for extra strength.

| X-0291 | #11 Broad Blades, Carded | Pkg. 5 |
| X-0691 | #11 Broad Blades, Bulk | Pkg. 100 |

#16 X-ACTO BLADES

An angle edge blade with an off set point. Popular for stenciling, scoring, etching, and film cutting.

X-0216	#16 Blades, Carded	Pkg. 5
X-0416	#16 Blades, Safety Disp.	Pkg. 12
X-0616	#16 Blades, Bulk Pack	Pkg. 100

#7F GRIFHOLD BLADES

The same blade as the #16 with an extremely sharp angled point for fine cutting and stencil cutting. Also ideal for masking films.High quality at a lower price.

GR-0007F	#7F Blades, Carded	Pkg. 5
GR-0007F-100	#7F Blades, Bulk Pack	Pkg. 100
GR-0007F-1000	#7F Blades, Bulk Pack	Pkg. 1000

#17 X-ACTO BLADES

A 1/4" wide chisel blade for narrow cuts.

| X-0217 | #17 Blades, Carded | Pkg. 5 |

FOR LARGE HANDLES

These following blades fit the common heavier handle knives. Knives they fit include the X-Acto #2, #5, #6, and the #3261 Woodcarving handle, plus other brands of similar knives.

#2 X-ACTO BLADES

An extremely sharp, angled point for fine cutting and stencil cutting. Ideal for masking films.

| X-0202 | #2 Blade, Carded | Pkg. 5 |
| X-0402 | #2 Blade, Carded | Pkg. 12 |

#18 X-ACTO BLADES

A 1/2" wide chisel blade for deep cross cuts and scraping.

| X-0218 | #18 Blades, Carded | Pkg. 5 |

#24 X-ACTO BLADES

An angled point used for close corner cuts, templates, mats, deburring, trimming, stripping, gasket cutting etc.

| X-0224 | #24 Blades, Carded | Pkg. 5 |
| X-0624 | #24 Blades, Bulk Pack | Pkg. 100 |

SPECIALTY BLADES

LIGHT WEIGHT BLADES

A light weight blade that is ideal for stencil cutting. Fits the Grifhold #6 knife. Same blade offered from both companies.

| GR-0006-B | #6 Blades, Carded | Pkg. 5 |

SPECIALTY BLADES

#8 X-ACTO BLADES

A refill for the #8 Utility knife.

X-0208   #8 Blades, Carded   Pkg. 5

#9 X-ACTO BLADES
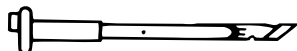
Refill blades for the #9 Retractable knife.

X-0209   #9 Blades, Carded   Pkg. 5

CRAFT REFILL BLADES

Refill blade for the X-Acto Craft Swivel knife #3241

X-0245   Craft Swivel Blade   Pkg. 2

113-B GRIFHOLD SWIVEL
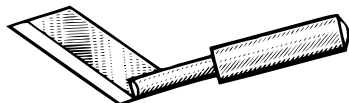
Replacement blade for the Grifhold #113 Swivel knife.

GR-113-B   #113 Grifhold Blade

24-E GRIFHOLD STENCIL

A round shank blade that is angled to a fine point. Ideal for film cutting, stencils, and other fine work. Fits the Grifhold #24 knife. Carded.

GR-0024-E   Grifhold Stencil Blades   Pkg. 5

24-A & B GRIFHOLD ETCH

Round shank blades sharpened to either the right or left edge. This makes scribing and etching easier. Fits Grifhold #24 handle. Carded.

GR-0024-A   Grifhold Right Hand Etcher Pkg. 5
GR-0024-B   Grifhold Left Hand Etcher   Pkg. 5

24-F COMPASS CUTTER

A round shank blade with a tapered blade. Shape and diameter are

designed to replace lead in a compass for cutting circles in film. Will also fit into lead holders for standard 2mm leads. Carded.

GR-0024-F   Grifhold Compass Blades Pkg. 5

161-B DUALFLEX BLADES

Replacement blades for the Grifhold #161 Dualflex cutter.

GR-0161-B   Grifhold Dualflex Blades   Set of 2

Hvy. DUTY SNAP OFF BLADE

Fits the large snap off blade knife. For canvas, card, polyester and acetate, posters, mats, etc. Provide a continuous sharp blade.

X-243   Heavy Duty Snap Off Blade   Pkg. 5
X-443   Heavy Duty Snap Off Blade   Pkg. 10

Lt. DUTY SNAP OFF BLADE

Fits the small snap off blade knife. For canvas, card, polyester and acetate, posters, mats, etc. Provide a continuous sharp blade.

X-244   Light Duty Snap Off Blade Pkg. 5
X-444   Light Duty Snap Off Blade Pkg. 10

UTILITY BLADES
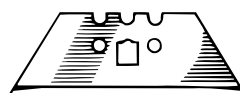
Heavy duty utility blades that fit X-Acto as well as most brands of utility knives. Carded.

X-0292   Utility Blades, Carded   Pkg. 5
X-0492   Utility Blades, Safety   Pkg. 15
X-0692   Utility Blades, Bulk   Pkg. 100
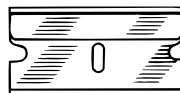
#9 & #12 RAZOR BLADES

Single edge razor blades for a variety of cutting. #12 blades are heavier than #9 and recommended for mat cutters.

X-0270   #9 Razor Blades Pkg. 5
50-5086-9   #9 Razor Blades Bulk   Pkg. 100
50-5087-0   #12 Razor Blades Bulk   Pkg. 100

UTILITY KNIVES

SNAP-OFF BLADE KNIFE
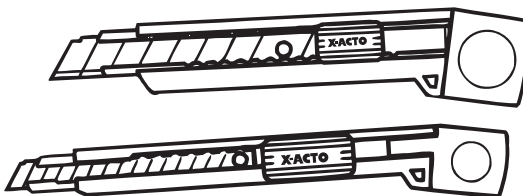
Heavy duty and light duty models for any kind of cutting. Both feature continuous snap-off blades for uninterrupted sharp cutting, and a slide lock mechanism with rigid metal safety sleeve. There is a storage compartment for extra blades, and both come with two extra blades. Carded

X-3243   Heavy Duty Snap-Off Blade Knife
X-3244   Light Duty Snap-Off Blade Knife

612-729-7361 ---- Phone
612-729-6647 ---- Fax   nwgraphic.com   800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax   129

HVY DUTY UTILITY KNIVES
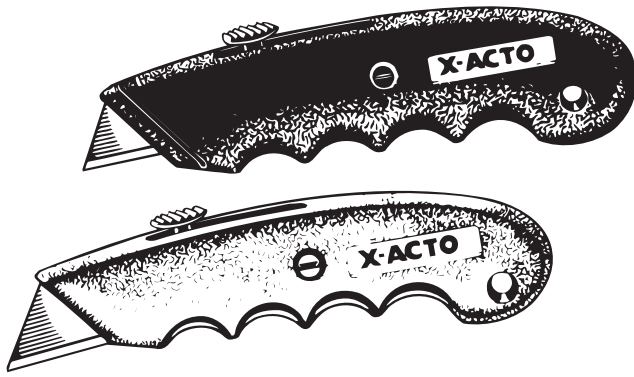
An ideal mat or heavy duty utility knife. All models feature a textured surface with a pistol grip that is shaped to fit the hand and not slip. Available in metal or plastic body models both with retractable blades. Adjustable cutting depths to suit the job, and a large slotted screw for easy blade change. A compartment in the handle holds extra blades. Both models feature a push button for depth selection, and full blade retraction into the handle. Carded. Uses standard utility blades.

X-3272	X-Acto Utility	Plastic Handle
X-3274	X-Acto Utility	Metal Handle

#8R UTILITY KNIFE
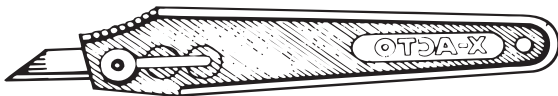
A light weight utility knife that can be used for a variety of uses. The handle is all plastic, while the handle is retractable and reversible. This means two edges can be used on each blade. Uses #208 replacement blades.

X-3208	X-Acto 8R Utility Knife	Carded
X-3008	X-Acto 8R Utility Knife	Bulk

AKUKUT Depth Controlled Cutter
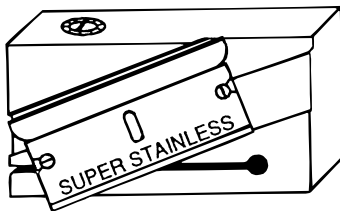
Clamp a standard single edge razor blade into this hand held device and control the depth of cut to 1/1000 of an inch. Slit carrier sheets or cut the top layer of film without disturbing the carrier.

AKUKUT   Controlled Depth Cutter

BEAM COMPASS CUTTER
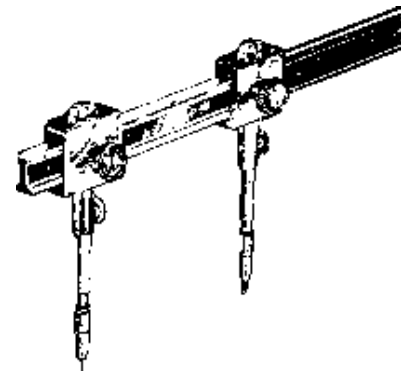
Precision beam compass with 14" aluminum bar with 14" extension for a total span of 28". Micro adjust rollers with lock nuts for precise control.Uses GR-0024F blades.

52-5269-7   Beam Compass Cutter

BOW COMPASS CUTTER
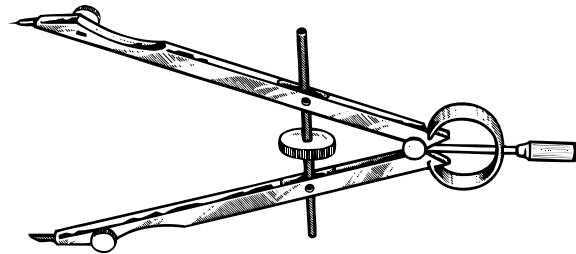
A precision giant bow compass that is also useable as a pencil compass or divider. Rigid construction to prevent creeping. Complete with #24-F blade for film cutting.

GR-2804   Bow Compass Cutter   Carded

SHARPENING STONE

A high quality, aluminum oxide sharpening stone that will keep cutting tools in tip-top shape. Measures 3-1/2 x 3/4 x 7/8".

GR-0043   Sharpening Stone   Boxed

YARD STICK COMPASS
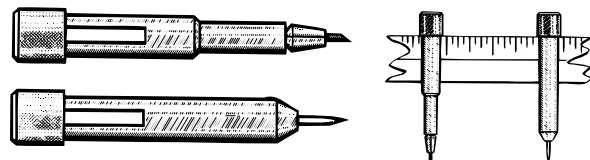
Aluminum pivot point and holder that fit on most wood yardsticks. Turns the yard stick into a compass. Easily adjustable, and holds #19, #20, and #24-F blades for cutting.

GR-0108   Yard Stick Compass   Carded

MAHLSTICK
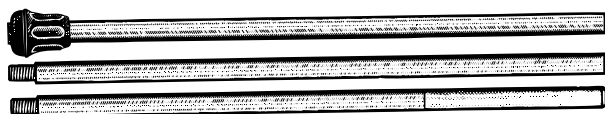
A three part aluminum mahlstick that extends to 30", is strong, and weighs only 3-1/2 oz. Designed for the artist and sign painter with rubber, no mar tip.

GR-0099   Mahlstick

DAHLE SUPER SHEAR

Today's styling in scissors, these scissors feature stainless steel, super sharp blades, contoured acrylic handles, and a light, featherweight touch. Self sharpening Solingen steel blades keep their edges, even through long, hard use. The contoured acrylic handles are more comfortable to hold, fit fingers better, and give better control. Made in America.

DH-50006	6" Super Shear
DH-50008	8" Super Shear
DH-50009	9" Super Shear
DH-50010	10" Super Shear

DAHLE VANTAGE SHEAR

Similar to Super Shear, this lower priced scissor features stainless steel, rust resistant blades, tough handles, and a light, featherweight touch. The contoured plastic handles are more comfortable to hold, fit fingers better, and give better control.

DH-40005	5" Vantage Shear
DH-40006	6" Vantage Shear
DH-40008	8" Vantage Shear

CUTTING BASE

C-THRU CUTTING BASE
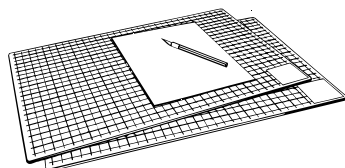
This cutting base is a self-sealing mat with an instant heal surface. Surface assures a long lasting, smooth base for both writing and cutting, even after many cuts. Knives cut smoothly and last longer, while pens write easier. Is attractive while also protecting light boxes and tables. There is a grid design on the surface and mats are available in either translucent or blue.

BLUE		TRANSLUCENT
CT-2000B	8-1/2 x 12" Base	CT-2004T
CT-2001B	12 x 18" Cutting Base	CT-2005T
CT-2002B	18 x 24" Cutting Base	CT-2006T

TRIMMERS

DAHLE TRIMMER

Attractive surface to compliment any decor, this cutter features self sharpening stainless steel blades that are ground and tempered to cut up to 15 sheets of paper. Also cuts film, poster board, and textiles. The patented blade design eliminates the need for a blade latch and prevents the blade from popping up or dropping down. A safety shield protects fingers and holds paper in place while maintaining visibility.

DH-012E	12" Dahle Personal Cutter
DH-015E	15" Dahle Personal Cutter
DH-018E	18" Dahle Personal Cutter
DH-212	12" Dahle Professional Cutter
DH-215	15" Dahle Professional Cutter
DH-218	18" Dahle Professional Cutter
DH-124	24" Dahle Professional Cutter

PERSONAL ROLLING TRIMMER

An attractive, lightweight, and portable rolling trimmer for offices,

studios, art rooms, etc. The patented self-sharpening rotary blade cuts up to 7 sheets of paper in either direction. The high impact grid surface will not chip, fade, or scratch. Precision cuts from light weight tissue to film.

DH-500	9"	Personal Rolling Cutter
DH-507	12-1/2"	Personal Rolling Cutter
DH-508	18"	Personal Rolling Cutter

HEAVY DUTY ROLLING CUTTER

A precision cutter for light to medium weight material. Features metal base commercial grade construction and a rotary blade shielded for safe cutting. Precision cuts from light weight tissue to film, poster board, laminate, acetate, etc. Lifetime guarantee.

DH-550	13-3/8"	H/D Rolling Cutter
DH-552	18-1/8"	H/D Rolling Cutter
DH-554	26-3/8"	H/D Rolling Cutter
DH-556	37-1/2"	H/D Rolling Cutter
DH-558	50"	H/D Rolling Cutter
DH-696	Stand for #556	
DH-698	Stand for #558	

TRIANGLES

STAINLESS CUTTING EDGE

This is a professional .150" thick clear acrylic triangle. It features a stainless steel edge on one side for easy, nick free cutting. Edges are graduated in 16ths of an inch with an 1/8 inch grid on each right angle leg. Grids are visible on both light and dark surfaces. Double bevel and finger lifts for easy pick up.

30/60		45/90
N/A	8" Cutting Edge Triangle	CT-T-6M
CT-T-4M	10" Cutting Edge Triangle	CT-T-7M
CT-T-5M	12" Cutting Edge Triangle	CT-T-15M
CT-T-14M	14" Cutting Edge Triangle	N/A
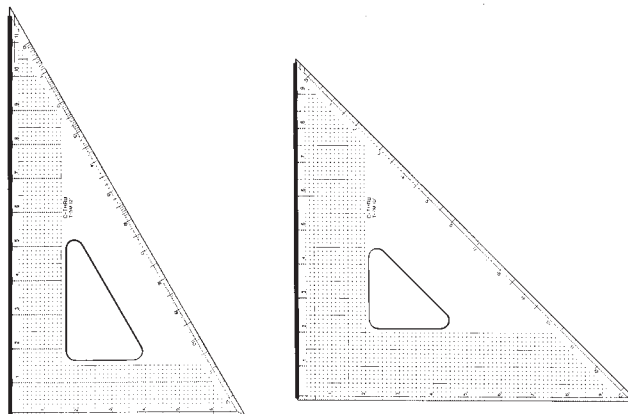
INKING EDGE TRIANGLE

A premium acrylic triangle with a double bevel inking edge that keeps ink from markers, technical pens, ruling pens, etc. from spreading underneath. Precision made to .10" thickness with a transparent smoke tint for easy visibility. Continuous double bevel inside finger lifts provide easy pick up and placement. The ideal triangle for pen and ink by Koh-I-Noor.

30/60 TRIANGLES		45/90 TRIANGLES
K-7202-04	4" Inking Triangle	K-7203-04
K-7202-06	6" Inking Triangle	K-7203-06
K-7202-08	8" Inking Triangle	K-7203-08
K-7202-10	10" Inking Triangle	K-7203-10
K-7202-12	12" Inking Triangle	K-7203-12
K-7202-14	14" Inking Triangle	K-7203-14

INKING EDGE
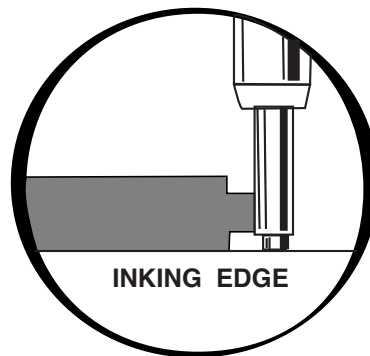
CLEAR ACRYLIC TRIANGLE

Clear acrylic triangles that are precision molded for accuracy, combining clarity with long life. Continuous double bevel inside edges provide finger lifts for easy pick-up and placement. A professional tool by Koh-I-Noor.

30/60 TRIANGLES		45/90 TRIANGLES
K-7205-04	4" Acrylic Triangle	K-7206-04
K-7205-06	6" Acrylic Triangle	K-7206-06
K-7205-08	8" Acrylic Triangle	K-7206-08
K-7205-10	10" Acrylic Triangle	K-7206-10
K-7205-12	12" Acrylic Triangle	K-7206-12
K-7205-14	14" Acrylic Triangle	K-7206-14
K-7205-16	16" Acrylic Triangle	
K-7205-18	18" Acrylic Triangle	

30/60 Triangle

45/90 Triangle
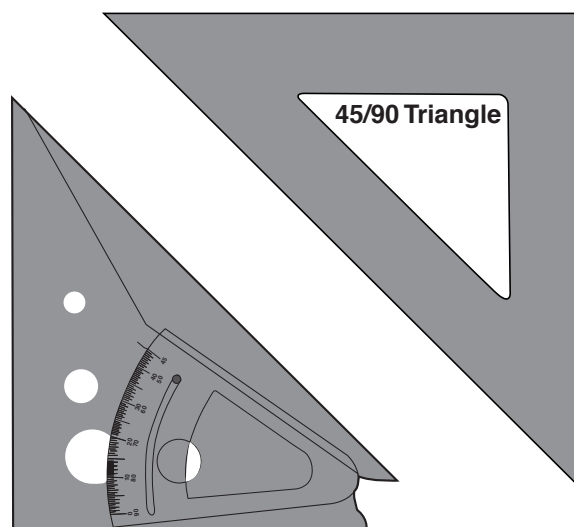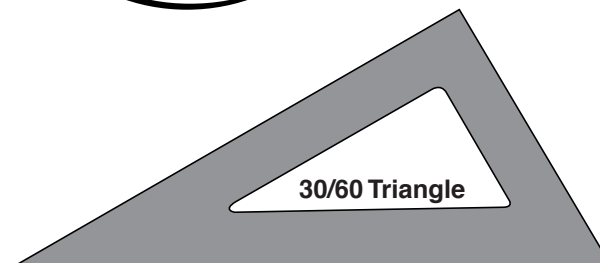
ADJUSTABLE TRIANGLE

Transparent triangles of clear plastic that permit tracing of any angle from zero to 90 degrees. Inner graduations on the arc give degrees of one angle, while the outer row of figures gives figures of the degrees of the complementary angle. Available in a regular grade from C-Thru. individually boxed.

CT-AT-06	6" Adjustable Triangle
CT-AT-08	8" Adjustable Triangle
CT-AT-10	10" Adjustable Triangle

AT-10

PUSH PINS

The modern replacement to the thumb tack. In either aluminum or plastic. In boxes of 100.

MOR-2P-100-1	Moore Push Pin	Plastic Clear
MOR-2P-100-2	Moore Push Pin	Plastic Red
MOR-2P-100-3	Moore Push Pin	Plastic White
MOR-2P-100-4	Moore Push Pin	Plastic Blue
MOR-2P-100-5	Moore Push Pin	Plastic Yellow
MOR-2P-100-6	Moore Push Pin	Plastic Green
MOR-2P-100-7	Moore Push Pin	Plastic Assorted
MOR-2P-100-8	Moore Push Pin	Plastic Black
MOR-2P-100-9	Moore Push Pin	Plastic Day-Glo
MOR-3-100	Moore Push Pin	Aluminum 3/8"
MOR-4-100	Moore Push Pin	Aluminum 1/2"
MOR-5-100	Moore Push Pin	Aluminum 5/8"

Northwest Graphic Supply Co.
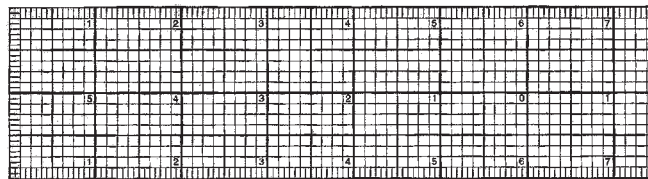4200 East Lake St. • Minneapolis, MN 55406   nwgraphic.com
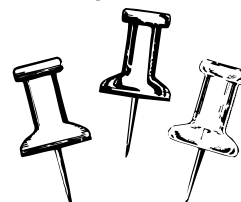
RULERS

C-THRU RULERS
C-Thru rulers are clear plastic with red markings in various scales and grids. These markings are easy to read for close registration over black lines beneath. Markings are over laminated so they will not rub off.
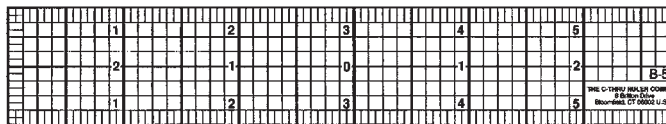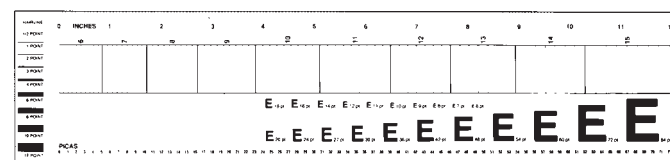

B-50   1 x 6" transparent graph ruler calibrated in sixteenths.
CT-B-50   1 x 6" Ruler

B-70   2 x 12" transparent graph ruler calibrated in sixteenths.
CT-B-70   2 x 12" Ruler
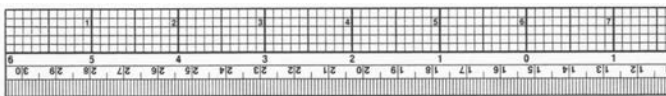
B-65   1 x 12" ruler with standard and metric scales, beveled both sides. Standard marked in tenths.
CT-B-65   1 x 12" Ruler

GRAPHIC ARTS LEADING GAUGE
3 x 13-3/4" ruler is printed on transparent plastic and laminated for printing permanency. It includes scales in picas, point sizes, printer's rules, sixteenths to the inch and a leading gauge.

CT-GA-96   3 x 13-3/4" Graphic Arts Ruler
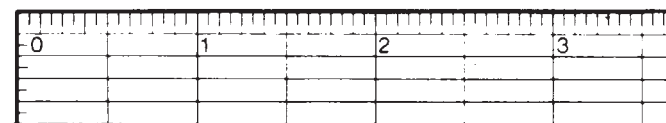
METAL EDGE RULERS
B-1M   1-1/2" x 12-1/2" heavy gauge clear acrylic ruler. .150 thick 0 centering scale. One edge is beveled, the other has a stainless steel edge. Calibrations and grids visible on both dark and light surfaces. Ruler is graduated in 16ths to the inch

CT-B-1M 1-1/2"x12-1/2" Steel Edge Ruler

B-2M   Same as B-1M above except 1-1/2" x 18-1/2".

CT-B-2M 1-1/2"x18-1/2" Steel Edge Ruler

METAL RULERS

GAEBEL RULERS
Gaebel rulers are premium stainless steel rulers that are available in a variety of types for any kind of ruling. Markings are etched into the metal and filled with black ink. This makes a ruler that will provide many years of service.
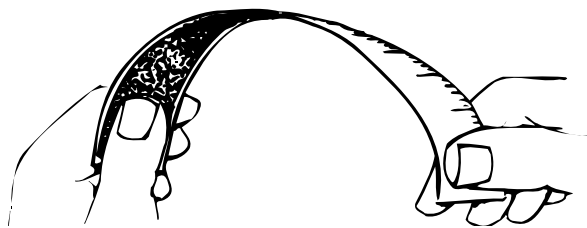
CORK BACK RULERS
A one sided ruler that has a thin strip of cork laminated to one side. This keeps it from slipping when set down. The ruler is 1-1/8" wide with inches on one side and metric on the other
.
GB-212   12" Gaebel Cork Back Ruler
GB-215   15" Gaebel Cork Back Ruler
GB-218   18" Gaebel Cork Back Ruler
GB-224   24" Gaebel Cork Back Ruler
GB-236   36" Gaebel Cork Back Ruler
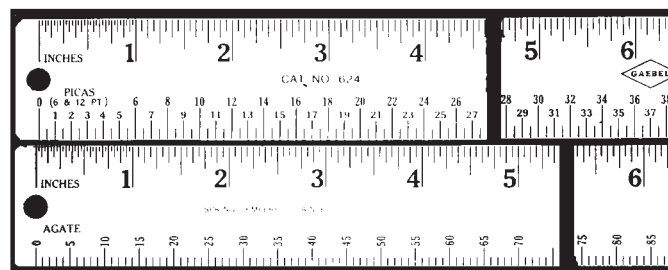
624   A two sided, 1-1/4" wide ruler with the front in inches and picas, and the back in inches and agate.

GB-624-12   12" Gaebel Ruler
GB-624-24   24" Gaebel Ruler
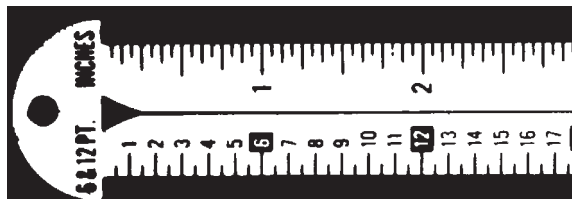
GAEBEL PRINTERS RULES
Gaebel stainless steel rulers with a special end that catches on the edge of printed stock for easy measuring.

612   A two sided ruler with the front in 6 & 12 point with inches. The back has 6 & 12 point with agate.

GB-612   12" Gaebel Ruler

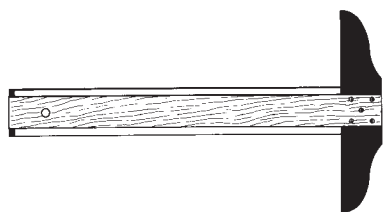**612A**   A two sided ruler with 6 & 12 point with 8 point on the front, and inches and 8 point on the back.

GB-612A-12   12" Gaebel Ruler

612F   Similar to above. A two sided ruler 6 & 12 point on the front, with inches and agates on the back.

GB-612F-12   12" Gaebel Ruler

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800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax
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T-SQUARES

ACRYLIC EDGE T-SQUARE

Acrylic edges are bonded to hardwood blades by Koh-I-Noor. Plastic and hardwood are bonded together in a special process, leaving the edges elevated for inking. Attached to ebony hardwood heads.

K-8276-18   18" Acrylic Edge T-Square
K-8276-24   24" Acrylic Edge T-Square
K-8276-30   30" Acrylic Edge T-Square
K-8276-36   36" Acrylic Edge T-Square
K-8276-42   42" Acrylic Edge T-Square
K-8276-48   48" Acrylic Edge T-Square

ALUMINUM T-SQUARE

Hard aluminum blades that are accurately graduated on the edges.
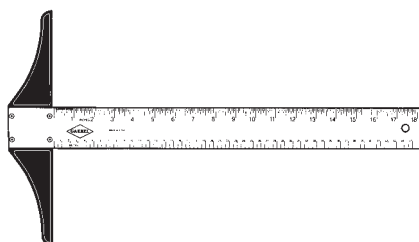
Markings are sharp and clear, plus blades are anodized and surface treated to minimize scratching and marking. Blades are 2" wide. By Fairgate

F63-118   18" Aluminum T-Square (1-1/2" Blade)
F60-124   24" Aluminum T-Square
F60-130   30" Aluminum T-Square
F60-136   36" Aluminum T-Square
F60-142   42" Aluminum T-Square
F60-148   48" Aluminum T-Square

STAINLESS STEEL T-SQUARE

Stainless steel, tempered blades with beveled edges, and a fixed cast
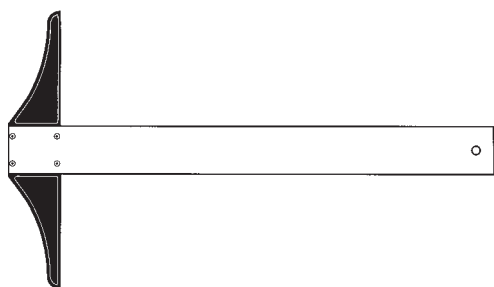
aluminum head. The blade is 1-1/2" wide with guaranteed accuracy.

CT-ST-24   24" Stainless Steel T-Square
CT-ST-30   30" Stainless Steel T-Square
CT-ST-36   36" Stainless Steel T-Square

STRAIGHT EDGES

STAINLESS STEEL STRAIGHT EDGE

Stainless steel straight edges that are an extra heavy, .093" thick. Blades are 2" wide and have one beveled and one straight edge.

AL-1109-18   18" Stainless Steel Straight Edge
AL-1109-24   24" Stainless Steel Straight Edge
AL-1109-30   30" Stainless Steel Straight Edge
AL-1109-36   36" Stainless Steel Straight Edge
AL-1109-42   42" Stainless Steel Straight Edge
AL-1109-48   48" Stainless Steel Straight Edge
AL-1109-60   60" Stainless Steel Straight Edge
AL-1109-72   72" Stainless Steel Straight Edge

SAFETY EDGE
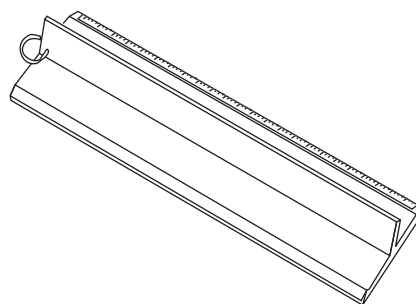
A uniquely designed tool that provides accurate straight lines, and accident free cutting. The Dahle Safety Edge's protective guard rail protects your fingers from careless injuries. The extra wide, non-skid rubber backing protects your art from accidental cuts or slipping while drawing straight lines. The precision graduated edge makes it perfect for use with a ruling pen. Easy to hold, use and hang for storage, the Safety Edge is a tool you won't want to be without.

DH-73312   12" Safety Edge
DH-73318   18" Safety Edge
DH-73324   24" Safety Edge
DH-73330   30" Safety Edge
DH-73336   36" Safety Edge
DH-73342   42" Safety Edge

PARALLEL RULE

Paradraft parallel ruling straight edges have an ebony finish with a
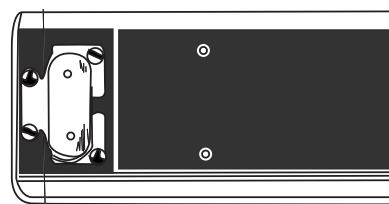
double thick phenolic blade with clear plastic edges. Parallel rules are faster and more precise than T-squares. Ball bearings make the rule float over the board and eliminate smudging. Slight pressure forces the ball bearings to retract and lock the rule in position. Includes all hardware necessary for mounting.

AL-1101-36   36" Parallel Rule
AL-1101-42   42" Parallel Rule
CH-33-4248   48" Parallel Rule

AIR BRUSHES

The air brush is a mini spray gun. It is used to apply many types of color in a wide variety of applications. These applications range from retouching photos to architectural renderings, to original art, to model painting. The air brush gives a high degree of control over the spray, making this possible, especially with the use of frisket films and liquids. There are several types of air brushes that are separated in groups as follows

Dual action air brushes are the most versatile and generally the most expensive. The term "dual action" refers to the way the air brush is

DUAL ACTION

controlled. The trigger button is pushed down to control air, and pulled back for color. Both can be controlled with the same button. Most are also internal mix, which means that air and color are mixed inside the brush. This provides a very thorough atomization with little blobbing of color.

AB PAASCHE AIR BRUSH

Considered to be the air brush that delivers the finest detail. The AB operates on a unique principal. An air driven turbine moves a needle through the color cup, and places a minute amount of color in front of an air stream. This action will allow hair line to 3/4" wide lines. Only low viscosity fluids such as water colors, inks, etc. may be used. Operates on from 28 to 30 lbs. of air pressure.

PAA-101   AB Paasche Air Brush

175 BADGER AIR BRUSH
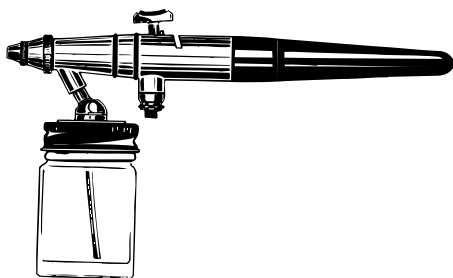
The Badger 175 Crescendo model features a larger body for comfort and handling. The 175 comes in three heads that are interchangeable. The HD head sprays four times the color that the XF head sprays in patterns from 1/8" to 2".

BA-175-1   Badger Crescendo, Fine
BA-175-2   Badger Crescendo, Medium
BA-175-3   Badger Crescendo, Large
BA-175-7   Badger Crescendo, kit w/3 Heads

VL AIR BRUSH

The VL is a versatile air brush that is available with three different heads that are interchangeable. It can do work from fine lines to broad areas. The #1 head has the smallest pattern, from 1/32" to 1", and is for very light fluids. The #3 head has a range from 1/32" to 1-1/4" and is for thinned lacquers, enamels, and acrylics. The #5 head has a range from 1/16" to 1-1/2" and is for free flowing lacquers, enamels, and acrylics. All VL air brushes come with a 1/4 oz color cup and a 3 oz. color bottle. All operate at from 20 to 40 lb. pressure.

PAA-401   VL-1 Paasche Air Brush
PAA-403   VL-3 Paasche Air Brush
PAA-405   VL-5 Paasche Air Brush

VL SET

The VL set contains a VL-1 air brush, 1/4 oz color cup, 1 oz. and 3 oz. bottle assemblies, 1 oz. plain bottle with cap, #3 and #5 heads with needles, hanger, wrench, 6' hose, head protector cap and instruction booklet.

PAA-408   VL air Brush Set
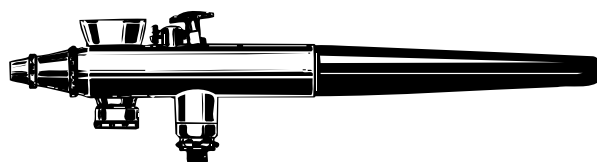
V PAASCHE AIR BRUSH

A precision instrument for detail, shading, and tinting. A brush that is

second only to the AB in ability for detail. Available with two heads: the #1 for 1/64" to 1" lines and very low viscosity colors, or the #2 for 1/32" to 1" lines and low viscosity colors. Heads are interchangeable.

PAA-201   Paasche V1 Air Brush
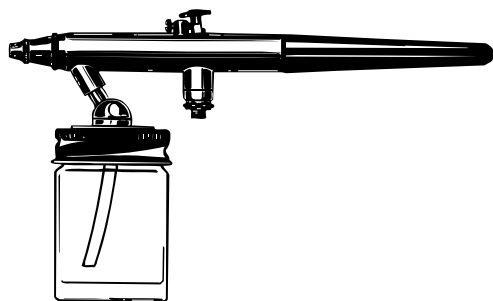PAA-202   Paasche V2 Air Brush

100 BADGER AIR BRUSH

The Badger 100 is a dual action, internal mix air brush. It is made to exact precision of all metal parts except for the teflon head seal and bearings. The 100 uses a side color cup with a screw off bottom for easy cleaning. Operates form 15 to 50 lbs. of air pressure, normal is 30 lbs. Available with two different heads that are interchangeable. The XF will spray from a pencil line to a 1" pattern with very low viscosity liquids. The IL model is spray from a 1/16" to 1-1/2" pattern with low viscosity liquids.

BA-100-1-XF   Badger XF Airbrush
BA-100-2-IL   Badger IL Airbrush

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800-544-7022 ---- Toll Free Fax
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150 BADGER AIR BRUSH

The Badger 150 model is the same as the model 100, except that the color is fed from the bottom, and not the side. This allows for either left or right hand use, and the use of a larger color jars. The 150 comes in three heads that are interchangeable. The HD head sprays four times the color that the XF head sprays in patterns from 1/8" to 2". 150 models come with 1/4 oz. color cup, plus 3/4 oz and 2 oz. bottles. The HD head will handle higher viscosity liquids such as acrylics, glazes, etc.

BA-150-1 IL   Badger IL Poster Air Brush
BA-150-2-XF   Badger XF Poster Air Brush
BA-150-3-HD   Badger HD Poster Air Brush

SINGLE ACTION

A single action air brush is one where the trigger controls the air only. The amount of color that flows through is controlled by the needle which is locked in position at the rear of the brush. This is also an internal mix brush, or one where the air and color are mixed inside the brush. This provides through atomization of the color. Single action brushes are simple to operate and ideal for the beginner.

200 BADGER AIR BRUSH
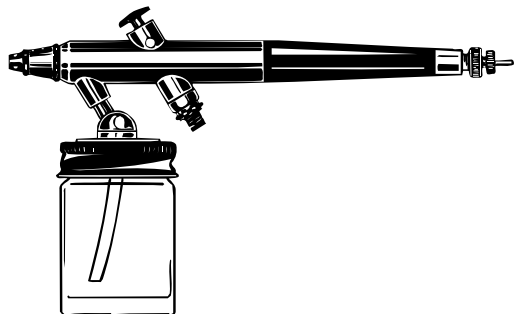
The Badger 200 is an all metal air brush with a bottom feed that can be used in either the right or left hand. The amount of color can be easily adjusted by a thumb screw at the rear of the handle. The 200 is available in two heads. The IL Model ranges from 1/16" to 1-1/2" with thinned down lacquers, enamels, etc. The HD model ranges from 1/8" to 2" and is for heavy viscosity colors such as enamels, ceramic glazes, or acrylics. The 200-3 kit comes with a can of Propel propellant, six foot vinyl hose, a 3/4 oz. color jar, and three 3/4 oz. color jars with screw covers.

BA-200-1   Badger Illustrator Air Brush
BA-200-2   Badger Heavy Duty Air Brush
BA-200-3   Badger Illustrator Air Brush Kit

EXTERNAL MIX

In external mix air brushes, the mixture of color and air occurs outside the head assembly. These brushes do not provide as through atomization of color as internal mix air brushes do; however, they are less expensive when compared to other models from the same company.

350 BADGER AIR BRUSH
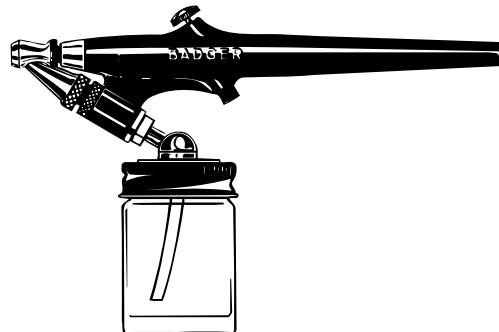
The Badger 350 is a brush that is easy to maintain and operate. Adjustment can be made for different width sprays by adjusting the color cap at the front of the brush. There are three different heads for different ranges of spray widths. Brushes come with 3/4 oz. and 2 oz. jars, wrench, and instructions.

BA-350-1-F   350 Badger Fine Air Brush
BA-350-1-M   350 Badger Medium Air Brush
BA-350-1-H   350 Badger Heavy Air Brush

H PAASCHE AIR BRUSH

An easy to use brush that is dependable and adaptable. This external mix brush is available in three different, adjustable heads. The #1 head adjusts from 1/32" to 1" coverage and is for low viscosity materials such as water colors and inks. The #3 head adjusts from 1/32" to 1-1/4" coverage, and is for thinned lacquers, enamels, and varnish. The #5 head adjusts from 1/32" to 1-1/2" coverage, and is for most free flowing fluids. The Paasche H Air brush comes with 1/4 oz. metal color cup, 3/4 oz. color bottle, wrenches, hanger, and instruction book. Operates on from 20 to 40 lbs. air pressure.

PAA-601   H-1 Paasche Air Brush
PAA-603   H-3 Paasche Air Brush
PAA-605   H-5 Paasche Air Brush

H SET
The H set contains a H-1 air brush, 1/4 oz color cup, 1 oz. and 3 oz. bottle assemblies, 1 oz. plain bottle with cap, #3 and #5 color adjusting parts, hanger, wrench, 6' hose, head protector cap and instruction booklet.

PAA-608 H Air Brush Set

TRAVELERS KIT
Travelers kits contain an air brush, two cans of propellant, 4' air hose, tank valve, wrench and booklet.

PAA-613   H-3 Travelers Kit

HOSES

Hoses carry the air from the source to the air brush. They are available in two types: a vinyl hose for lower pressures, and a braided hose for higher pressures. Coil hoses are vinyl hoses formed in a coil to stay out of the way. Hoses from different manufacturers are usually not interchangeable without adaptors.

BA-50-0011   Badger 10' Vinyl Air Hose
BA-50-2011   Badger 10' Braided Air Hose
BA-50-4011   Badger 10' Coiled Hose
PAA-906 Paasche 6' Braided Hose
PAA-908 Paasche 8' Braided Hose
PAA-910 Paasche 10' Braided Hose
PAA-930 Paasche 10' Coil Hose

MOISTURE TRAPS

Moisture traps are small (about 2") cylinders that remove water, the by- product of compressed air. This helps reduce moisture damage and inconvenience. Provided separately and in-line in hoses.

PAA-825 Paasche Moisture Trap
PAA-918 Paasche 8' Hose W/ Moisture Trap
BA-50-2012   Badger Filter W/In-line Hose
BA-50-2015   Badger Filter Only

Braided Hose

Vinyl Hose

Coiled Hose

Hose W/Inline Moisture Trap

Moisture Trap

COMPRESSORS

BADGER 80-2

Designed for portability and cost effectiveness, this lightweight, quiet compressor can be carried from place to place. It has a 6' cord with a two prong plug. Virtually maintenance free, oil-less and never needs lubrication. Operates one airbrush at about 25 PSI.

BA-80-2   Badger Compressor

PAASCHE D500

Economical and suitable for all airbrushes spraying properly thinned fluids. It is capable of delivering up to 30 lbs. pressure, is an oil-less diaphragm unit and comes with 3 wire cord. Delivers .5 C.F.M. at 20 P.S.I.

PAA-D500   Paasche D500

BADGER 380-2 SILENT II

The high efficiency 1/2 horsepower oil reciprocating piston motor mounted on a larger capacity air tank. It quietly powers one to five air-brushes simultaneously without pulsation. Develops 1.75 CFM at 116 PSI Not for continuous industrial use.

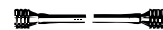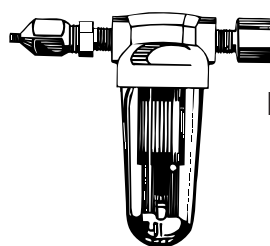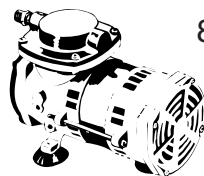BA-380-2   Badger Silent II

BADGER 380-11 SILENT I

A silent compressor with in line oil filter that assures no oil enters the air stream. Powered by a 1/4 HP oil reciprocating piston motor with a 1.06 gallon tank that quietly powers up to three air-brushes simultaneously without pulsation. Develops 1.75 CFM at 116 PSI Not for continuous industrial use.

BA-380-11   Badger Silent I
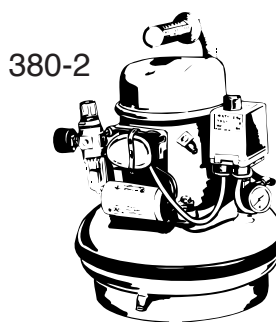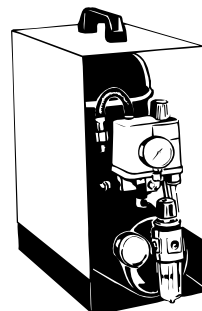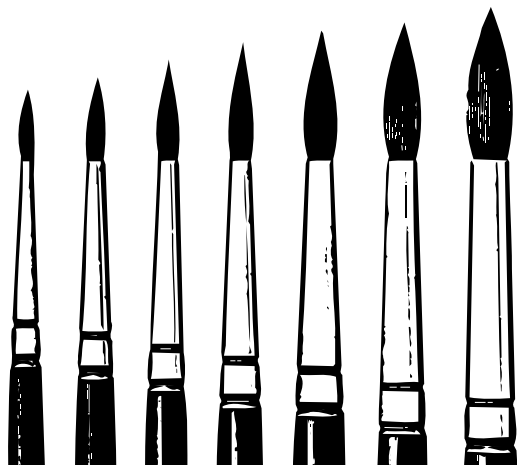

80-2

380-2

380-11

BRUSHES

Selected Red Sable is the premium grade used in artist brushes. This hair is taken only from the tails of the kolinsky, found only in Siberia and Russia. These brushes possess excellent spring, unusually fine points, and a full body.

7 WINSOR & NEWTON
Winsor & Newton has a tradition of quality with over 100 years of making the Series 7 brush. An excellent brush on plain black handles.

WN-5007-001	3/0	WN-5007-04	#4
WN-5007-002	2/0	WN-5007-05	#5
WN-5007-003	#0	WN-5007-06	#6
WN-5007-01	#1	WN-5007-07	#7
WN-5007-02	#2	WN-5007-08	#8
WN-5007-03	#3	WN-5007-10	#10

7150R PRINCETON
Only the finest Kolinsky hairs are used in this superb brush. Extraordinary natural spring and fine point. On natural wood handles.

P-7150R-003	3/0	P-7150R-06	#6
P-7150R-001	#0	P-7150R-08	#8
P-7150R-01	#1	P-7150R-10	#10
P-7150R-02	#2	P-7150R-12	#12
P-7150R-04	#4		

SYNTHETIC W/C

Synthetic filament has been recently developed for use in water color brushes. Filament is extruded in various thicknesses, cut, and each strand is pointed. The result is a brush that performs like the very finest grade of kolinsky, however, the price is much lower. Synthetic filaments have no pores as natural hair has, making these brushes easier to clean.

4050R SYNTHETIC SABLE
This is the finest performing synthetic that we have ever seen. Duplicated all stroke of a top quality red sable. You must try this brush to appreciate its quality. Mounted on red stained handles in gold ferrules.

P-4050R-003	3/0	P-4050R-04	#4
P-4050R-002	2/0	P-4050R-06	#6
P-4050R-001	#0	P-4050R-08	#8
P-4050R-01	#1	P-4050R-10	#10
P-4050R-02	#2	P-4050R-12	#12
P-4050R-03	#3		

785 WHITE SABLE
Simmons introduced synthetic water color brushes with this White Sable. These brushes have blended diameters of hairs for the absolute feel of real sable. Razor sharp points in nickel ferrules, on polished brown handles with white ring and gold tip.

S-0785-008	8/0	S-0785-04	#4
S-0785-003	3/0	S-0785-05	#5
S-0785-002	2/0	S-0785-06	#6
S-0785-001	#0	S-0785-08	#8
S-0785-01	#1	S-0785-10	#10
S-0785-02	#2	S-0785-12	#12
S-0785-03	#3	S-0785-14	#14

4350R PRINCETON
The Princeton 4350R series offers a great value in a synthetic brush. Very good quality at an affordable price. Ideal for touch ing up positives etc. A good value for schools. On short green handles with nickel plated seamless ferrules.

P-4350R-005	5/0	P-4350R-04	#4
P-4350R-003	3/0	P-4350R-06	#6
P-4350R-002	2/0	P-4350R-08	#8
P-4350R-001	#0	P-4350R-10	#10
P-4350R-01	#1	P-4350R-12	#12
P-4350R-02	#2	P-4350R-16	#16

SPOTTERS

7350SP PRINCETON
A top quality sable spotting brush for graphic arts, retouching, fine art or craft work. The Princeton Spotter has excellent color holding capacity, a sharp point and good snap. Nickel plated seamless ferrule with a short handle of gold lacquered hardwood.

P-7350SP-0001	10/0	P-7350SP-002	2/0
P-7350SP-005	5/0	P-7350SP-001	#0
P-7350SP-004	4/0	P-7350SP-01	#1
P-7350SP-003	3/0		

PMS® PROCESS GUIDE

PANTONE PROCESS GUIDE
Color Bridge

This fan shaped guide displays over 3000 CMYK color combinations on both coated and uncoated stock. These guides are the ideal way to visualize, communicate, and control applied process color for all graphic treatments. New features include higher resolution 175 line printing, KCMY print rotation for improved color presentation.

PMS-GGS201	Coated Process Guide
PMS-GGS204	Uncoated Process Guide
PMS-GPS207	Pantone Process Guide Two guide Set

PANTONE® BOOKS

FORMULA GUIDE

This reference is the industry standard for the selection and specification of color with the printer's formulas to the Pantone Matching System. With it, printers can translate the Pantone color number into print production. The complete range of 1147 colors and their ink mixing formulas are shown on both coated and uncoated stock.This new edition includes seven new metallics, an optional matte coated edition, brighter paper stocks to reflect color trends and the identification of colors that can be achieved by four color process.

PMS-GP1202   Pantone Formula Guide , Three Guide Set
               (Coated, Uncoated, Matte)
PMS-GP1201   Pantone Formula Guide, Traditional
               (Coated & Uncoated In One Book)
PMS-GG1203   Pantone Matte Only Formula Guide

METALLIC FORMULA GUIDE
This fan shaped guide is an indispensable tool that shows how301 metallic color will print on coated stock.

PMS-GG1207   Metallic Guide
PMS-GB1204   Metallic Chips

COLOR SOLID COLOR CHIPS
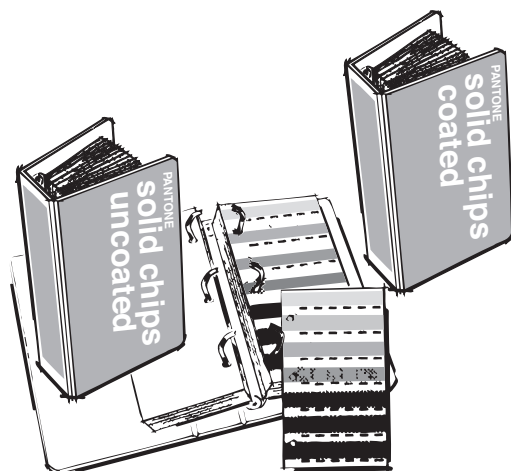
The Pantone Solid Color Chip set is a three book set the designer can use to insure that the printer has as accurate reference for any of the 1114 colors in the Pantone system. All colors are printed on six perforated into tabs for attachment to art work. A three binder set, there are Coated, Uncoated, and Matte volumes. There are improved perfs for cleaner chip edges and easier removal. Ikons are shown beneath each color that can be satisfactorily reproduced in CYMK four color process. There is also a CD-ROM Disc for entry of Pantone colors into popular graphic design programs. Replacement pages are available.

PMS-GP1203   Pantone Solid Color Chips 2 Book Set
PMS-GP1204   Pantone Solid Color Chips 3 Book Set
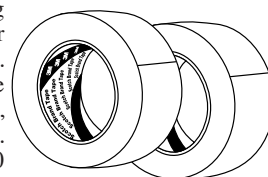
TAPE

230 DRAFTING TAPE
This is a thin, natural color tape that is flexible and has a special light adhesive that is easy to remove. Artwork can be taped down to the drawing board with no fear that the tape will delaminate the paper after the work is complete. Available in individual cutter boxes, or in bulk. All rolls are 60 yards long with 3" cores.

M-230-075   3/4" Drafting Tape
M-230-100   1" Drafting Tape

232 MASKING TAPE
This is the premium 3M masking product. It is a smooth, natural color crepe paper tape with a very deep crepe. This makes it the most flexible of the masking tapes. Ideal for paint masking, or light duty general purpose holding. Available in bulk only. All rolls are 60 yards long with 3" cores.

M-232-050   1/2" Masking Tape
M-232-075   3/4" Masking Tape
M-232-100   1" Masking Tape

600 CELLOPHANE TAPE
A crystal clear transparent tape with a wide range of uses. An economical, general purpose, transparent tape. It is long aging, non-yellowing, and easy to dispense. Ideal for general mending and holding. Available boxed only in 36 yard (1" core) and 72 yard (3" core).

M-600-050   1/2" Transparent Tape, 3" Core
M-600-075   3/4" Transparent Tape, 3" Core
M-600A-050   1/2" Transparent Tape, 1" Core

616 RED LITHO TAPE
A ruby red transparent tape that is light safe for photo sensitive materials. It is moisture proof and will not slip or ooze. Use for opaquing, stripping, and edging in graphic arts camera, plate, or scree print work. Available bulk in 72-yard rolls with 3" cores.

M-616-025   1/4" Red Litho Tape
M-616-037   3/8" Red Litho Tape

810 MAGIC TRANS. TAPE
A matte surface tape that looks frosted but is perfectly transparent when adhered.   Won't discolor, turn brittle, or shrink. The surface can be written on with pen or pencil.   Perfect for repairing torn paper or mounting. Available boxed only in 36- yard rolls (1" core) or 72-yard rolls (3" cores).

M-810-050   1/2" Magic Tape, 3" Core
M-810-075   3/4" Magic Tape, 3" Core
M-810A-050   1/2" Magic Tape, 1" Core

TAPE

## 811 LOW TACK MAGIC TRANSPARENT TAPE

The 811 tape is identical to the 810 except that it has a low tack adhesive for easy removal. Available boxed only in 36-yard rolls (1" core) or 72-yard rolls (3" cores).

M-811A-050   1/2" Low Tack Tape, 1" Core

371 PACKAGE TAPE

A strong film tape for box sealing. Split and burst resistant, it seals boxes and packages in one pass. Available in 60-yard rolls with 3" cores.

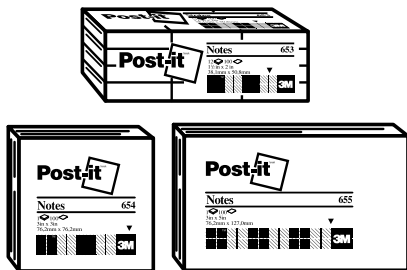M-371-200   2" Packaging Tape
Bulk
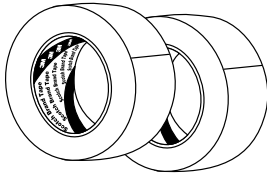
KRAFT GUM TAPE

A water-moistened, gummed paper that is economical, and excellent for bundling and other uses. 600 yard rolls.

15-6195-0   2" Kraft Gummed Tape

POST-IT NOTES

Post-it Note Pads look like ordinary note paper but are far more convenient. They have an exciting adhesive on the back which allows them to be attached without staples or paper clips to almost any surface. They also come unstuck when you want them to, without leaving a mark (even on paper). Ideal for notations on artwork. Available in 3 sizes.

M-6359   1-1/2 x 2" Pad, 12 per pkg.
M-5550   3 x 3" Post-It Pad, each
M-6559   3 x 5" Post-It Pad, each
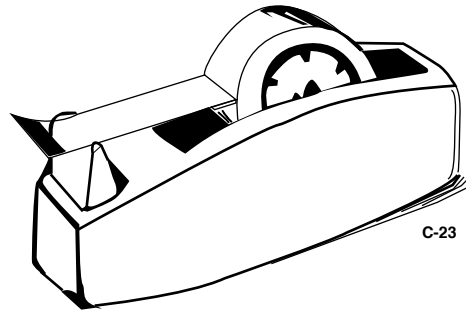
TAPE DISPENSERS

C-22 H.D. DOUBLE

A heavy metal dispenser that is similar to the C-23 listed above, except that it will hold rolls up to 2" wide or two rolls up to 1" wide. Accepts tape on 3" cores.

C-22
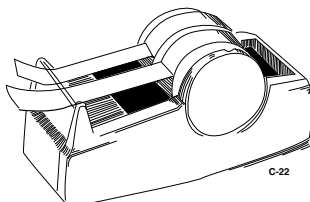
M-C-22   Heavy Duty
Double Dispenser

TAPE DISPENSERS

C-23

C-23 HEAVY DUTY

A heavy metal dispenser for single rolls of tape with a foam rubber base that won't slip or scratch. Accepts tape on 3" cores up to 1" wide. Weighs 5 pounds.

M-C-23   Heavy Duty Dispenser

RUBBER CEMENT

BEST-TEST RUBBER CEMENT

Best-Test rubber cement is made from a special premium quality of natural crude rubber, treated and blended to a formula which is one of the finest products for paper joining. For every paper joining need; photo mounting, layouts, dummies, masking, etc. There is never any curling, wrinkling, or shrinking.

BT-138   4 oz.
Best Test (Brush In Cap)
BT-139   8 oz. Best Test (Brush In Cap)
BT-101   Pint Best Test Rubber Cement
BT-102   Quart Best Test Rubber Cement
BT-103   Gallon Best Test Rubber Cement

BESTINE R/C THINNER

For thinning and reducing all types of rubber cements. Contains no benzol or other toxic liquids. Also excellent for frisket work.

BT-201   Pint Bestine Thinner
BT-202   Quart Bestine Thinner
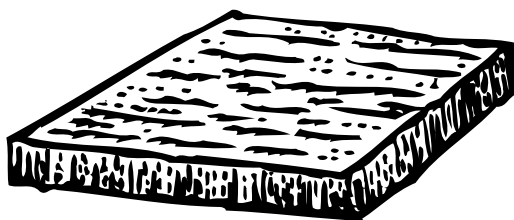BT-203   Gallon Bestine Thinner

JAR DISPENSERS

A sturdy jar with a tight cap and built in brush that adjusts to the depth of the rubber cement. This keeps the brush soft and pliable. The tight cap keeps the cement from drying out. Replacement parts are in stock.

BT-300G   9 oz. Glass Dispenser
BT-500G   16 oz. Glass Dispenser
BT-500P   16 oz. Plastic Dispense

Northwest Graphic Supply Co.
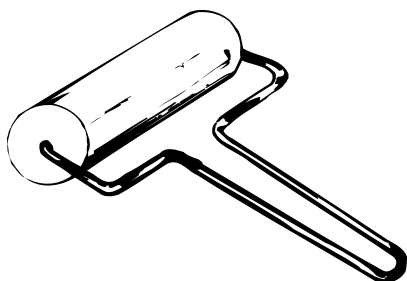4200 East Lake St. • Minneapolis, MN 55406   nwgraphic.com
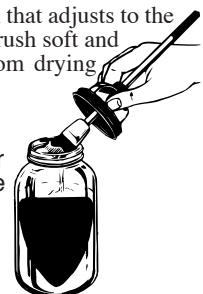
RUBBER CEMENT PICK-UP

A block of pure crepe rubber for quick removal and pick-up of excess rubber cement. It can also be used for cleaning, and cut to special shapes. Pick-ups are 2" square.

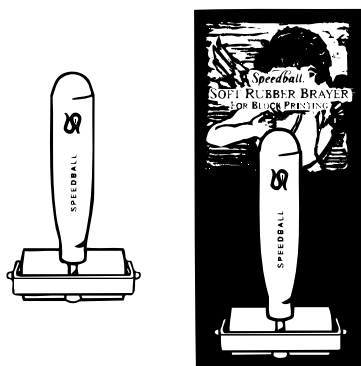BT-700   Rubber Cement Pick-Up

LUCITE BRAYER

A clear lucite brayer for burnishing down adhesive coated art work. The non-porous lucite surface will not pick-up either wax or rubber cement. This means that it won't tack cement across that surface of your artwork.

ST-44L   4" Lucite Brayer
ST-46L   6" Lucite Brayer

RUBBER BRAYERS

Premium Speedball soft rubber brayers with a metal core to prevent warping. Comfortable molded rubber handles.

HU-4170   1-1/2"   #70 Brayer
HU-4171   2"   #71 Brayer
HU-4172   2-1/2"   #72 Brayer
HU-4173   3"   #73 Brayer
HU-4174   3-1/2"   #74 Brayer
HU-4126   4"   #64 Brayer
HU-4129   6"   #66 Brayer

ART PAPERS

106 TRACING ROLL

Number 106 is a light weight sketching and tracing paper used by architects, designers and engineers. A white sheet that is perfect for preliminary drawings and sketches. In 50 yard rolls only.

BF-340-134   #106   12"
BF-340-136   #106   18"
BF-340-138   #106   24"
BF-340-140   #106   36"
BF-340-141   #106   42"
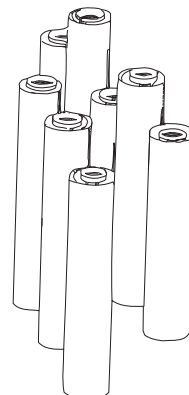
107 CANARY TRACING

The choice of architects and engineers for preliminary sketches. A high quality canary yellow tracing paper with a slight tooth, and fine for reproducing. In rolls only.

BF-341-134   #107   12" x 50 yd
BF-341-136   #107   18" x 50 yd
BF-341-138   #107   24" x 50 yd
BF-341-140   #107   36" x 50 yd

100 PARCHMENT

Excellent transparency and regularity in formation combine to make an excellent drawing surface.   The Parchment, part of the Designer series, is   used   for   rough   sketches, development drawings, and overlays.
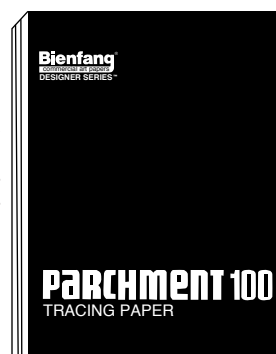
50 Sheet		
100 Sheet		
BF-240-121	9 x 12"	BF-240-221
BF-240-130	11 x 14"	BF-240-230
BF-240-142	14 x 17"	BF-240-242
BF-240-161	19 x 24"	BF-240-261

360 GRAPHICS

The #360 Graphics pad by Bienfang has a 100% rag paper created for felt tip markers.   Holds sharp edges with excellent color penetration, and no bleeding through to the next sheet. Very good translucency. One of the Designer Series, in 50 and 100 sheet pads.
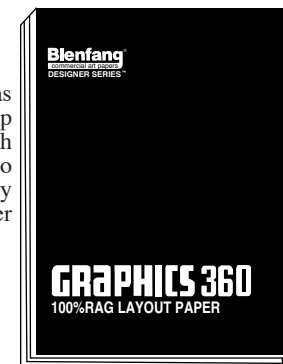
100 Sheet		
50 Sheet		
BF-316-221	19 x 12"	BF-316-12
BF-316-230	11 x 14"	BF-316-130
BF-316-242	14 x 17"	BF-316-142
BF-316-261	19 x 24"	BF-316-161

612-729-7361 ---- Phone
612-729-6647 ---- Fax
nwgraphic.com
800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax
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PRESSURE SENSITIVE FILMS

PERMALAR M

The films listed below are available in thicknesses, color, and sizes other than those listed. TC in the number represents a film that is top coated for ink adhesion. NTC in the number represents a non-top coated film.

CLEAR PRINTABLE POLYESTER

A transparent polyester film with an aggressive permanent acrylic adhesive. Applicable for doors, window decals, decorative decals, product identification markings, parking meter decals, etc. They are also available with removable acrylic adhesive on special order. Films are 3.0-3.2 mils thick with adhesive. Sheets are 20" x 27" and packed 250 sheets per ctn. Rolls are 27' x 309'.

GF-C2/TC	Clear Polyester	Sheet
GF-C2/TC-R	Clear Polyester	Roll
GF-C2/NTC	Clear Polyester	Sheet
GF-C2/NTC-R	Clear Polyester	Roll

COLORED POLYESTER

The same polyester listed above, except with a pigmented permanent acrylic adhesive. The pigmented adhesive provides the color on the back side of the film. Applicable for doors, window decals, decorative decals, product identification markings, parking meter decals, etc. They are also available with removable acrylic adhesive on special order. C2 films are 3.0-3.2 mils thick with adhesive, C15 films are 2.5-2.7 mils with adhesive. Sheets are 20" x 27" and packed 250 sheets per ctn. Rolls are 27' x 309'. Special order by the case only.

GF-C2W/TC	White Polyester	Sheet
GF-C2W/TC-R	White polyester	Roll
GF-C2W/NTC	White Polyester	Sheet
GF-C2W/NTC-R	White polyester	Roll
GF-C15BK/TC	Black polyester	Sheet
GF-C15BK/TC-R	Black Polyester	Roll

SPECIAL ORDER

GF-C15R/TC	Red polyester	Sheet
GF-C15R/TC-R	Red polyester	Roll
GF-C15Y/TC	Yellow Polyester	Sheet
GF-C15Y/TC-R	Yellow polyester	Roll
GF-C15B/TC	Blue Polyester	Sheet
GF-C15B/TC-R	Blue Polyester	Roll
GF-C15G/TC	Green Polyester	Sheet
GF-C15G/TC-R	Green Polyester	Roll
GF-C15O/TC	Orange Polyester	Sheet
GF-C15O/TC-R	Orange Polyester	Roll

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PLASTIC SQUEEGEE

For applying pressure sensitive films. Double edged and semiflexible. 3' wide polyethylene plastic.

54-6226-2	4" Plastic Squeegee
54-6227-0	6" Plastic Squeegee
54-6228-8	12" Plastic Squeegee
54-6229-2	72" Plastic Squeegee
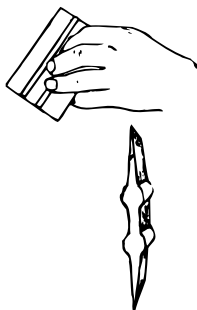
METALIZED POLYESTER

A metalized polyester film with an aggressive permanent acrylic adhesive. Applicable for identification markings, decorative trim, window decals, decorative decals, nameplates, etc. They are also available with removable acrylic adhesive on special order. Films are 3.0-3.2 mils thick with adhesive. Sheets are 20" x 27" and packed 250 sheets per ctn.

GF-S2/TC	Silver Polyester
GF-G2/TC	Gold Polyester

WHITE FLEXIBLE VINYL
Permanent Adhesive

A flexible vinyl film with an aggressive permanent pressure sensitive acrylic adhesive. Applicable for use where a high quality marking film is required for flexibility, durability, and resistance to sunlight. Made with a permanent rubber based adhesive, is also available with a top coating for improves adhesion with flexographic, offset, and letterpress inks Screen with vinyl inks such as GLV or AM.

GF-VFW-1P	20x27"	Sheet
GF-VFW-2P	24x30"	Sheet
GF-VFW-3P	27x35"	Sheet
GF-VFW-4P	27"x309'	Roll

WHITE FLEXIBLE VINYL
Removable Adhesive

A flexible vinyl film with an removable pressure sensitive acrylic adhesive. Ideal for bumper strips, temporary product markings, temporary fleet markings, or point of purchase. Applicable for use where a high quality marking film is required for flexibility, durability, and resistance to sunlight. Screen with vinyl inks such as GLV or AM.

GF-VFW-1R	20x27"	Sheet
GF-VFW-2R	24x30"	Sheet
GF-VFW-3R	27x35"	Sheet
GF-VFW-4R	27"x309'	Roll

MAGNETIC FILM

A 30 mil magnetic film, ideal for removable signs.

TF-2824GW	24"x50'	Roll

APPLICATION TRANSFER TAPE

A crepe transfer tape for lifting cut vinyl for transfer to the final sign.

RT-4050-02	Application Tape 2-1/4"x100yds.
RT-4050-03	Application Tape 3-1/4"x100yds.
RT-4050-04	Application Tape 4-1/4"x100yds.
RT-4050-06	Application Tape 6-1/2"x100yds.
RT-4050-06	Application Tape 6-1/2"x100yds.
RT-4050-08	Application Tape 8-1/2"x100yds.
RT-4050-10	Application Tape 10-1/2"x100yds.
RT-4050-14	Application Tape 14"x100yds.
RT-4050-16	Application Tape 16"x100yds.
RT-4050-18	Application Tape 18"x100yds.
RT-4050-24	Application Tape 24"x100yds.
RT-4050-36	Application Tape 36"x100yds.

MACHINE CUT VINYL

comp-u-cut
graphic films

CC 500

5 YEAR FLEXIBLE
CALENDERED VINYL

A flexible 3.0 mil polymeric gloss vinyl coated with a permanent acrylic pressure sensitive adhesive for computerized graphic sign cutting machines. Recommended for outdoor and indoor use where a high quality marking film requiring flexibility, durability and resistance to sunlight is required. Can be used for architectural signage, commercial-retail signage, point of purchase graphics, and decals. Can be printed with GLV, AM, GP and 76-000 series inks (test before production). Expected life to 5 years depending on UV exposure. Good solvent resistance to most petroleum oils, greases, and aliphatic solvents such as heptane, kerosene, and jet fuel. Rolls are 50 yards long and available in 15" & 30" punched, and 20", 24", 30", 36" and 60" unpunched.

501	Gloss White	522	Dark Yellow
500	Matte White	523	Lemon Yellow
502	Gloss Black	524	Daffodil Yellow
509	Matte Black	530	Brown
505	Gray	531	Beige
506	Midnight Blue	534	Burgundy
507	Cobalt Blue	536	Cranberry Red
508	Sapphire Blue	537	Cherry Red
510	Vivid Blue	538	Tomato Red
513	Ocean Blue	539	Light Red
514	Arctic Blue	541	Pink
515	Sky Blue	544	Orange
516	Teal	546	Purple
517	Forest Green	548	Plum
518	Dark Green	550	Gold
519	Green	551	Silver
520	Kelly Green		

GF-CC-XXX-Size   Ordering Number
GF-CC-CC   Color Card

METALIZED POLYESTER

A 2 mil print treated polyester film m with a permanent acrylic adhesive. Permanent decoration for product identification, displays, signage, etc. Expected outdoor life up to two years for silver and up to 6 months for gold. available in 15" x 50 yard rolls punched. By General Formulations.

760	Gold mirror	759	Chrome Mirror
839	Brushed Gold	838	Chrome Brushed

GF-CC-XXX-Size   XXX=Ordering Number
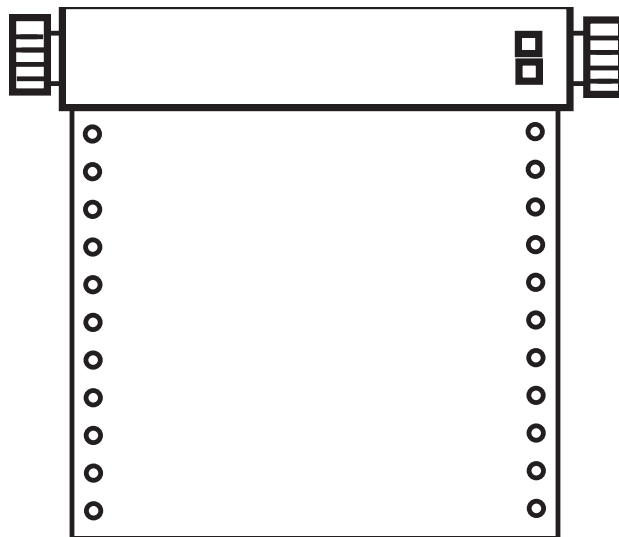
CC 700

The Cast Killer

7 YEAR FLEXIBLE
CALENDERED VINYL

Seven year calendered vinyl is considered the longest lasting of the cutting vinyls. A permanent acrylic pressure sensitive adhesive for computerized graphic sign cutting machines. Recommended for outdoor and indoor use where a high quality marking film requiring flexibility, durability and resistance to sunlight is required. Can be used for architectural signage, commercial-retail signage, point of purchase graphics, and decals. Can be printed with GLV, AM, GP and 76-000 series inks (test before production). Expected life up to 7 years depending on UV exposure. Rolls are 50 yards long and available in 15" & 30" punched, and 24", 30", and 48" unpunched.

701	White	721	Sun Yellow
702	Black	798	Orange
703	Clear	737	Bright Red
710	Royal Blue	735	Red
706	Navy	739	Cardinal
709	Sapphire Blue	734	Burgundy
717	Forest Green	730	Ivory
720	Kelly Green	770	Gold
722	Yellow (Light)	771	Silver

GF-CC-XXX-Size   XXX=Ordering Number

612-729-7361 ---- Phone
612-729-6647 ---- Fax
nwgraphic.com
800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax
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AMBER/RUBY MASKING FILM

An amber or ruby colored gel film mounted on a clear polyester film base. Ideal for creating line art work with your automated film cutter. Either film is safe for use as a positive for exposing screens. Not Punched

UL-RU3-151800	15"x1800" Rubylith RU3
UL-RU3-241800	24"x1800" Rubylith RU3
UL-RU3-301800	30"x1800" Rubylith RU3
UL-RU3-361800	36"x1800" Rubylith RU3
UL-RU3-481800	48"x1800" Rubylith RU3

S3S STA-SHARP FILM

A solvent adhering knife cut film on a polyester base. Use adhering liquid to transfer film to mesh. Becomes the image. For use with all inks except lacquer and polyester. Not Punched

UL-S3S-241800	24"x1800" Sta-Sharp S3S

ULANOCUT FILM

A water soluble knife cut film on a polyester base. Use water to transfer film to mesh. Becomes the image. For use with all inks except water soluble. Available in Amba (amber) or green, not Punched

UL-UCG-151800	15"x1800" Ulano Cut Green
UL-UCG-241800	24"x1800" Ulano Cut Green
UL-UCG-301800	30"x1800" Ulano Cut Green
UL-UCG-521800	52"x1800" Ulano Cut Green

SIGN MATERIAL

TARACLOTH ROLLS

All purpose ultra smooth sign cloth for use with most types of sign paint, ink, vinyl graphic, etc. Triple coated. not intended for high wind areas.

FX-2172	36" x 60 yd. White
FX-2175	52" x 12 yd. White
FX-2176	52" x 60 yd. White

TARA READY MADE BANNERS

All purpose ultra smooth sign cloth for use with most types of sign paint, ink, vinyl graphic, etc. Triple coated. not intended for high wind areas. Hemmed top and bottom. reinforced, grommeted every three feet.

|			
FX-2479	2 yd x 24"	FX-2489	5 yd x 34"
FX-2480	3 yd x 24"	FX-2490	6 yd x 34"
FX-2481	4 yd x 24"	FX-2492	24 yd x 34"
FX-2482	5 yd x 24"	FX-2493	2 yd x 50"
FX-2483	6 yd x 24"	FX-2494	3 yd x 50"
FX-2485	24 yd x 24"	FX-2495	4 yd x 50"
FX-2486	2 yd x 34"	FX-2496	5 yd x 50"
FX-2487	3 yd x 34"	FX-2497	6 yd x 50"
FX-2488	4 yd x 34"	FX-2499	24 yd x 50"

POSTER BOND

A fine quality 20 lb. bond paper for signs, banners, display backgrounds, theater posters, photographers backdrops, etc. A smooth surface with little tooth. Colors dry quickly with little dulling of color intensity. Water base colors will wrinkle this paper. Available in rolls only, 50 yards long.

FX-2534	18" X 50 yd.
FX-2513	24" X 50 yd.
FX-2514	36" X 50 yd.
FX-2515	48" X 50 yd.

WIPERS

New Screen Systems low lint, white wipers are a must for any screen shop. The 12x14" wipers are on a convenient 800' roll, and are solvent resistant and non-abrasive. A floor stand with trash bag holder is also available.
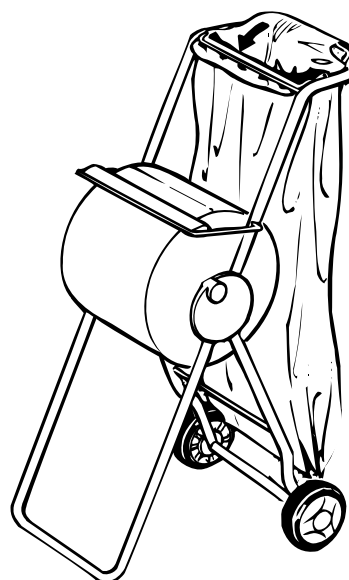
WH-250-R800	12"x800' Wiper Roll
FS-KC80585	Floor Dispenser Stand

INKJET MEDIA

PROOF BOND
24lb. Economical uncoated bond paper. Suitable for quick proofs, technical drawings, temporary signs and displays. Available in 150' rolls only.

MSP-MB-17150	17" x 150'	Roll
MSP-MB-24150	24" x 150"	Roll
MSP-MB-36150	36" x 150'	Roll
MSP-MB-42150	42" x 150'	Roll

GLOSS WATERPROOF PAPER
Heavy weight gloss photo quality paper that dries totally waterproof. Ideal for photography, display, etc. For dye and pigment inks.

IJGP-00810	8½ x 11"Box/100	
IJGP-01319	13 x 19"	Box/100
IJGP-17100	17" x 100'	Roll
IJGP-24100	24" x 100"	Roll
IJGP-42100	42" x 100'	Roll

LUSTER WATERPROOF PAPER
Heavy weight low gloss photo quality paper that dries totally waterproof. Ideal for photography, display, etc. For dye and pigment inks.

IJLP-00810	8½ x 11"Box/100	
IJLP-01319	13 x 19"	Box/100
IJLP-17100	17" x 100'	Roll
IJLP-24100	24" x 100"	Roll
IJLP-42100	42" x 100'	Rol

MATTE PAPER
120 gram intermediate weight paper. Features premium coating and base paper. Instant dry. Thermal piezo printers. Dye or pigmented inks. With Epson Ultrchrome inks, Matte black is recommended. printers with UV ink and Epson Ultrachrome Inks using Photo Black.

MSP-PLH-17150	17" x 150'	Roll
MSP-PLH-24150	24" x 150"	Roll
MSP-PLH-36150	36" x 150'	Roll
MSP-PLH-42150	42" x 150'	Roll

MATTE ADHESIVE
36lb. matte paper with adhesive backed coating. Universal, works with all printers.

MSP-MA-17100	17" x 100'	Roll
MSP-MA-24100	24" x 100"	Roll
MSP-MA-36100	36" x 100'	Roll
MSP-MA-44100	44" x 100'	Roll

WHITE VINYL PRESSURE SENSITIVE
3.5 mil, adhesive backed, water resistant vinyl. For thermal/piezo printers with dye or pigmented inks.

MSP-WPC1750	17" x 50'	Roll
MSP-WPC2450	24" x 50"	Roll
MSP-WPC3650	36" x 50'	Roll
MSP-WPC4450	44" x 50'	Roll

FREDRIX INKJET CANVAS

FREDRIX® 901 Inkjet Canvas (Polyflax® /Cotton)
A premium quality canvas specially coated to deliver enhanced color quality and a fine art appearance that can only be achieved on Canvas. 18 mil (457 microns) thickness and 11oz./yd. (373 GSM) weight.

FI-11042	24" x 40'	Roll
FI-11002	36" x 40'	Roll
FI-11004	44" x 40'	Roll
FI-11052	50" x 40'	Roll
FI-11062	60" x 40'	Roll

FREDRIX® 901Glossy Inkjet Canvas
Redesigned with Better Color Gamut & Faster Dry Time for dye- and pigmented inks. Excellent printing results and the brilliant colors make it ideal for Photographic & Fine Art Reproductions. 18mil (457 microns) thickness and 11 oz./yd. (373 gsm) weight.

FI-11517	17" x 40'	Roll
FI-11524	24" x 40'	Roll
FI-11536	36" x 40'	Roll
FI-11544	42" x 40'	Roll
FI-11550	50" x 40'	Roll

FREDRIX® 901WR Water Resistant Inkjet Canvas (Polyflax®/Cotton)
Superior Water Resistant Inkjet Coating creates excellent printing results with both pigment- and dye-based inks. The matte finish is ideal for fine art reproductions with a soft look, yet allows for bright, brilliant colors. 18mil (457 microns) thickness and 11oz./yd.2 (373 GSM) weight.

FI-11617	17" x 40'	Roll
FI-11624	24" x 40'	Roll
FI-11636	36" x 40'	Roll
FI-11644	44" x 40'	Roll
FI-11650	50" x 40'	Roll
FI-11660	60" x 40'	Roll

FREDRIX® 580 Inkjet Canvas (100% Cotton)
A finely woven 100% cotton with a smooth texture. Ideal for fine art printing. 18 mil (457 microns) thickness and 11oz/yd2 (373 GSM) weight.

FI-11700	24" x 40'	Roll
FI-11702	36" x 40'	Roll
FI-11704	44" x 40'	Roll
FI-11712	50" x 40'	Roll
FI-11713	58" x 40'	Roll

FREDRIX® 575 Inkjet Canvas (Polyflax® /Cotton)
A light-weight canvas with a more pronounced texture and medium tooth for a fine art appearance at a great value. 16 mil (406 microns) thickness and 10oz/yd2 (339 GSM) weight.

FI-11824	24"x40'	Roll
FI-11836	36"x40'	Roll
FI-11844	44"x40'	Roll
FI-11850	50"x40'	Roll

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800-544-7022 ---- Toll Free Fax
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FREDRIX INKJET CANVAS

FREDRIX® 575WR Water Resistant Inkjet Canvas (Polyflax®/Cotton)

A thinner and more economical inkjet canvas with our Superior Water Resistant Inkjet Coating that enables excellent printing results. The matte finish is ideal for Photographic & Fine Art Reproductions with a soft look, yet it allows for bright, brilliant colors. Furthermore, our Water Resistant Inkjet Coatings are compatible with most water-based protective coatings and most acrylic paints, including our Fredrix Acrylic Texturing Gel, can be applied directly to the printed image! 17mil (432 microns) thickness and 9.5oz./yd (322 gsm) weight.

FI-11417	17" x 40'	Roll
FI-11424	24" x 40'	Roll
FI-11436	36" x 40'	Roll
FI-11442	42" x 40'	Roll
FI-11444	44" x 40'	Roll
FI-11450	50" x 40'	Roll
FI-11454	54" x 40'	Roll
FI-11460	60" x 40'	Roll

CARDBOARD EASELS

Sturdy and economical cardboard easel backs in single and double wing styles. Locking tabs and glue on feature for added stability. Approximately .050" thick. Easel should be at least 2/3 of the height of the display or cards being mounted. Double wing model ideal for use on large displays.

21-6200-6	4" Single Wing
21-6201-4	8" Single Wing
21-6202-2	10" Single Wing
21-6233-4	4" Double Wing
21-6234-6	6" Double Wing
21-6235-2	8" Double Wing
21-6236-0	10" Double Wing
21-6237-8	12" Double Wing
21-6238-6	15" Double Wing
21-6239-4	18" Double Wing
21-6240-0	24" Double Wing
21-6241-0	36" Double Wing

FOME-COR

Bienfang®

foam board
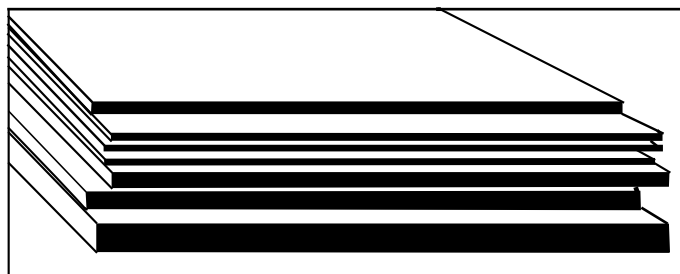
FOAM BOARD

Foam board graphic arts board is a "sandwich" laminate of polystyrene foam between white smooth finish board facings. It combines great strength with light weight and cuts easily with a razor blade. Suitable for mounting, screen printing, wet media, markers, etc. 1/2" and 3/16" thick

STANDARD WHITE FOAM BOARD			per ctn
BF-950-109	20 x 30"	3/16"	25
BF-950-510	30 x 40"	3/16"	25
BF-950-111	32 x 40"	3/16"	25
BF-950-102	40 x 60"	3/16"	25
BF-900-103	48 x 96"	3/16"	25
BF-950-398	20 x 30"	1/2"	10
BF-900-400	30 x 40"	1/2"	25
BF-900-402	40 x 60"	1/2"	12
BF-900=403	48 x 96"	1/2"	12

BLACK ON BLACK FOAM BOARD			per ctn
BF-951-120	20 x 30"	3/16"	10
BF-901-121	32 x 40"	3/16"	25
BF-901-122	40 x 60"	3/16"	25
BF-901-123	48 x 96"	3/16"	25

RAILROAD BOARD

A smooth surfaced board for all types of lettering, poster, showcard, and screen printing. An all purpose board for signs, crafts, and hobbies. Available in 4 and 6 ply. 25 sheets per carton. 22 x 28"

4 ply		6 ply
RB-401	White	RB-601
RB-403	Green	RB-603
RB-405	Canary Yellow	RB-605
RB-408	Light Blue	RB-608
RB-409	Holly Green	RB-609
RB-410	Black	RB-610
RB-411	Orange	RB-611
RB-412	Red	RB-612
RB-413	Coral Pink	RB-613
RB-415	Royal Blue	RB-615
RB-416	Magenta	RB-616
RB-418	Gray	RB-618
RB-419	Brown	RB-619

REFERENCE

HOW TO PRINT T-SHIRTS FOR FUN AND PROFIT

This handbook offers excellent technical guidance for the beginning T-shirt printer. Includes plans to build a one-color T-shirt printer for less than $30.00, a vacuum table for heat transfers, curing oven and other equipment. Written by Scott and Pat Fresner

73-9188-1   How to Print T-Shirts for Fun & Profit

SILK SCREEN TECHNIQUES

This volume explains the entire process from the construction of the frame to the moment you make the first print. You are shown how to select or assemble necessary equipment. All five of the most general and useful stencil making techniques are described in detail. Also there are chapters on multicolor printing and color matching. By J. I Biegeleisen.

73-9104-8   Silk Screen Techniques
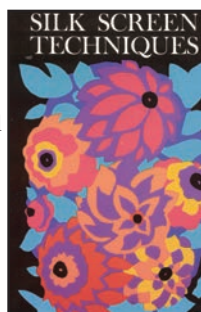
SCREEN PRINTING Contemporary Methods & Materials

This Speedball Textbook is a standard text on the subject of screen printing that completely and objectively cover the various stencil techniques in light of recent technological advances in materials and procedures from cut paper stencils to halftone stencils including photo/posterization. This is a book that was written and designed to be understandable, instructional, and motivational to the novice as well as relevant, informative, and insightful to the skilled professional. By Frances & Norman Lassiter.

HU-4511   Screen Printing Contemporary Methods and Materials
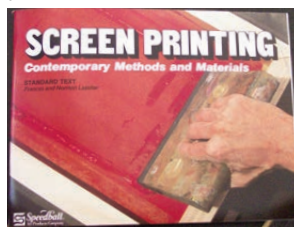
THE COMPLETE BOOK OF SILK SCREEN PRINTING PRODUCTION

This book gives a clear and complete picture of every aspect of press operation and screen printing technique for manual presses to automatic presses capable of producing 2000 to 3000 impressions per hour. Extremely thorough in its coverage of the subject, this volume includes practically everything of importance known about the screen printing process. By J.l. Biegeleisen.

73-9178-2   Complete Book of Screen Printing Production
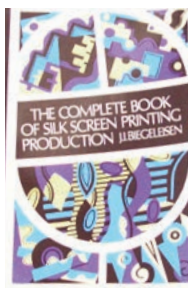
A PRACTICAL GUIDE TO SCREEN PRINTING

A clear and simple instructional document on the methods of screen printing. Presented in an elaborate step-by-step guide, complete with photos, illustrations charts and trouble-shooting tips. Written by Merrill Green.

73-9100-6   A Practical Guide to Screen Printing

DVD INSTRUCTION

Professional Garment Course

This is a complete course that will teach you everything you need to know to start a successful garment printing company.

The Professional Garment Printing Course includes the all new "Getting Started in T-Shirt Screen Printing" featuring Scott and Mike Fresener, three of our most popular video titles: How To Use Plastisol Inks, Health and Safety in the Screening Shop and Jacket Printing. It also includes a copy of How To Print T-Shirts for Fun and Profit.

73-9272-8   Professional Garment Course

Shirt Treatments

If you like the "cooking shows" you will love this DVD. Charlie shows how to paint, roll, spray and use other methods to really give the shirt a "treatment".

Taught by industry veteran Charlie Taublieb, you will see how easy it is to jazz up a shirt using simple methods.

This is a fun DVD with lots of tips and tricks from an industry pro.

73-9265-5   DVD Shirt Treatments

T-Shirt Graphics With Corel 11/12

Corel Draw is the world's number one vector based drawing program. If you want to learn how to do T-Shirt graphics with Corel and learn 100's of tips and tricks that ARE NOT in the manual, then you need this DVD set!

From how to install the program and the basics of all the tools, to doing color separations, special effects and more, it's all here! Plus learn lots of undocumented tips, how to fix problems, proper scanning techniques, using Corel Trace, creating underbases for dark shirts, proper trapping, and using halftone dots. Six plus hours of video instruction on this four DVD series.

The beauty of DVD is that you can play it on most computers and you can watch a section and then try what you have learned. PLUS, there is no rewinding or searching because there are dozens of "chapters" that you can go to with one mouse click!

73-9266-4   DVD T-Shirt Graphics W/Corel 11/12

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800-544-7022 ---- Toll Free Fax
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## Getting Started in T-Shirt Screen Printing

If you are just starting out, this course is for you! If you already print, you will be surprised at what you didn't know! This is what you have been asking for. One course that covers the entire process from start to finish. Learn how to screen print T-Shirts from industry veteran Scott Fresener and his son Michael. From "this is a T-Shirt," to creating color separations, and making a multi-color print. This information packed two DVD course is designed to get you up and running and successfully printing shirts. Some topics are covered in detail and other topics are covered on a basic level. Topics like computer graphics, plastisol inks, and marketing are covered in much more detail in our separate videos and DVDs on those topics. The perfect companion for this course is the book, How To Print T-Shirts for Fun and Profit.

72-9260-3   Getting Started In T-Shirt Printing

## Health and Safety in the Screening Shop

It's time to think about the health and safety of you and your employees in the screen printing shop AND complying with the law. This DVD covers all of the important points of both OSHA and EPA regulations and how you can come into compliance with regulations that effect your business. This presentation was videotaped live at the U.S. Screen Printing Institute and features industry expert Bob Alabaster. 75 minutes.
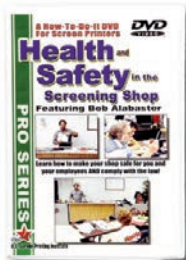
FAST-DVD-HEALTH   Health and Safety In Screen Shop

High Density, Caviar Beads, and More!

Learn the latest techniques for doing prints with a "feel." Industry veteran, Charlie Taublieb, will teach you how to make images jump off the shirt with high density ink. Learn all about thick stencil screen making, proper ink usage, doing multi-color prints and more. This DVD also teaches how to use the popular "Caviar Beads" that give the print a "glass bead" feel to it. Learn about screen making, and how to apply the beads using either a manual or automatic press. PLUS, you will learn about sparkle glitter. Create stunning garment prints with large flake glitter. Learn about special screen making and how to apply the glitter in both a manual or automatic shop environment. 55 Minutes
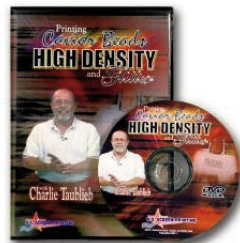
FAST-DVD-FX1   High Density Caviar Beads & More

How To Use Plastisol Inks

Questions on how to use your inks? The answers are here! This tape was shot live at the U.S. Screen Printing Institute and features Scott Fresener lecturing and demonstrating the use of Plastisol Inks. How To Use Plastisol Inks is a how-to-do-it video cassette covering the important aspects of using plastisol ink in the garment screen printing shop. Topics include types of plastisol, using additives and reducers properly, curing techniques, using high opacity and low-bleed inks, troubleshooting and much more. 45 minutes.
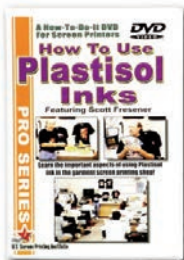
72-9262-6   How To Use Plastisol Inks

Jacket Printing

Jackets can be very profitable! Now you can quit turning down those jacket orders. If you already print jackets this video will help you minimize your mistakes and teach you how to do top quality work. Salvaging just one or two jackets could pay for this tape! Topics include screen making and art requirements, nylon inks, multicolor prints, printing lined jackets, troubleshooting and more. 30 minutes.

73-9264-8   Jacket Printing
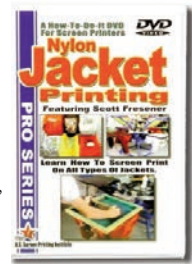
Making Plastisol Transfers

Transfers are useful when you need to print more colors than your press allows, for "event" and concession work, and in other ventures where a large pre-printed inventory would be required and therefore prohibitive. This step-by-step video shows you how easy it is to make your own transfers! Topics include hot and cold split transfers, sublimations, all about papers and inks, curing and drying, mesh and stencil systems, multi-color transfers, puff and foil, cap transfers, art requirements and much more. Featuring Scott Fresener and Bob Alabaster. 30 minutes.

73-9268-2   DVD Screen Ptg Heat Transfers

T-Shirt Graphics w/Illustrator 9

Adobe® Illistrator® is one of the most popular Mac and PC drawing programs. If you want to learn how to do T-Shirt graphics with Illistrator® and learn dozens of tricks that ARE NOT in the manual, then you need this video program. This video training course teaches yoy basic to intermediate techniques and includes all about setting up the program, the key tools, lots of undocumented tips, how to fix problems, propper scanning techniques, doing spot color separations, creating underbases for dark shirts, propper trapping, using halftones, doing hot special effects and a lot more!

Over three hours of video instruction featuring veteran, Bob Alabaster. Each DVD is fully indexed so it is easy to review specific selections. All new digital mastering high quality. A two DVD set.

FAST-DVD-ADOLBEIL9   T-SHIRT GRAPHICS W/ILL 9

Getting Started T-Shirt Screen Printing

This is what you have been asking for. One course that covers the entire process from start to finish. Learn how to screen print T-Shirts from industry veteran Scott Fresener and his son Michael. From "this is a T-Shirt," to creating color separations, and making a multi-color print. Here are just a few of the things you will learn:
 Features:
  Setting up your shop and equipment needed
  Basics of art preparation and color separations
  Screen making
  Using plastisol ink and ink curing
  Press setup and printing 1-color and multi-color
  Basic dark shirt techniques
  Cleanup and basics of Heath and Safety
  Marketing Overview
  Shop tour - see the inside of a working shop!

73-9259-1   Getting Started T-Shirt Screen Printing