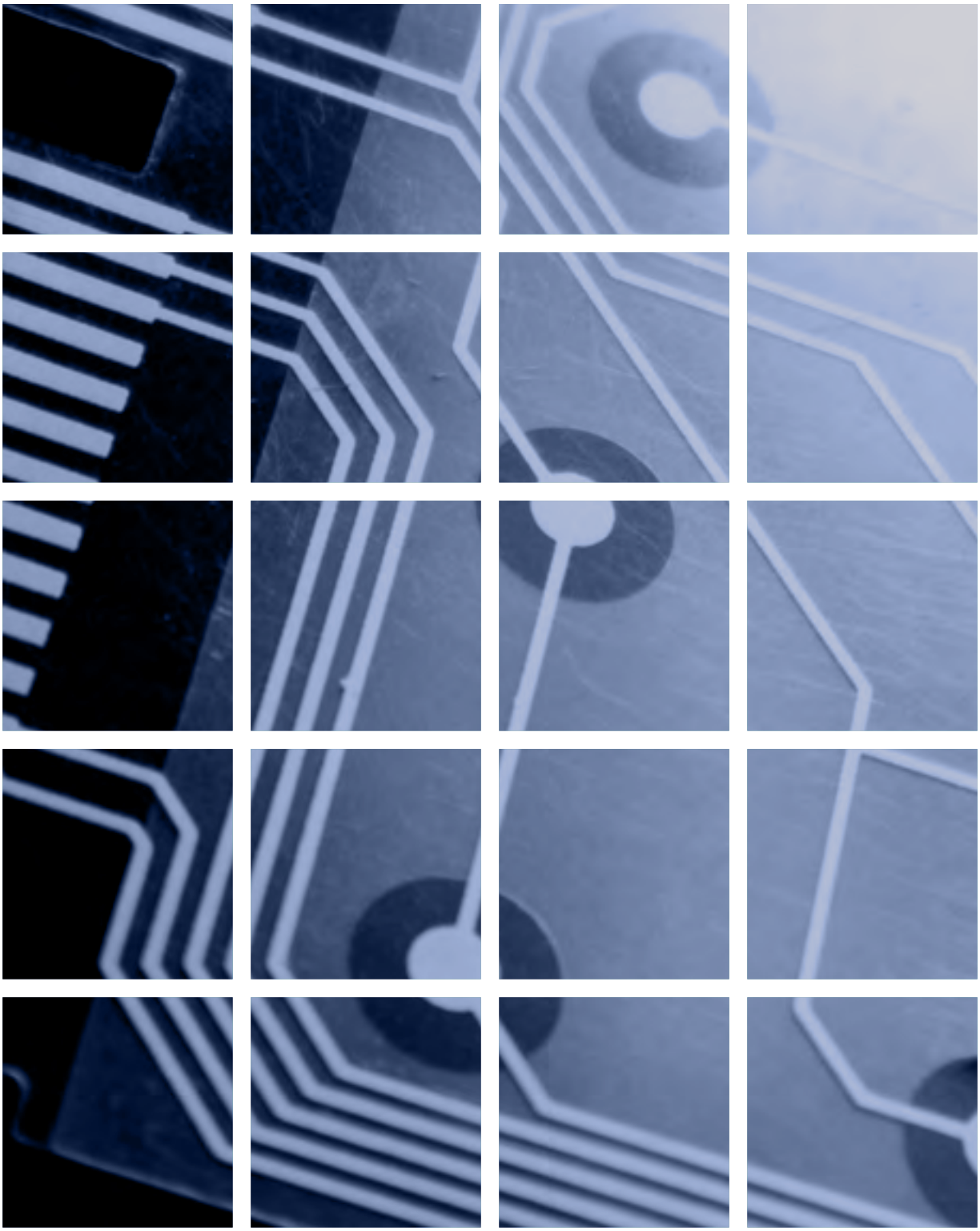

SAATI Printing

Screen Printing Mesh, Emulsion, Chemicals, Equipment & Accessories

MAKING A MATERIAL DIFFERENCE

SAATI

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Engage with SAATI

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INFO

If you see this icon, click to get more information about the product

Click to Contact Us

MAKING A MATERIAL DIFFERENCE

SAATI produces many products for all types of markets that find their way into the daily life of billions of people. We are leaders in both process and microfiltration, screen printing, and personal and vehicular multi-threat protection products.

SAATI Screen Printing

SAATI is a global organization with locations in Italy, France, Germany, Spain, China, Korea, and the USA. We aim to improve the life of every person, every day.

For the screen printing industry, SAATI has been weaving top quality technical fabrics since 1935.

We also formulate and produce photo-sensitive emulsions and auxiliary chemical products used in preparation for screen-printing. SAATI fabrics, when combined with SAATI chemical products ensure the production of a stencil with superior durability, capable of consistent reproduction of fine detail in any screen printing application.

In recent decades SAATI has also designed optimum quality screen printing equipment and now offers a full range of sophisticated equipment for the modern screen maker.

We are proud to provide you with a complete turnkey screen production package of specialized products, designed together to deliver superior results. SAATI product packages upgrade your present operation to while reducing your costs.

All of our offerings are backed by our friendly and efficient customer service. Factor this with more than 100 years of combined industry service, including manufacturing innovations and the most extensive technical support available, it's easy to see why so many screen printers put their trust in SAATI. It's no accident that the majority of our new business comes from referrals by satisfied customers.

SAATI is an OSHA-compliant supplier, so we keep you well-informed with up-to-date Safety Data Sheets.

(SDS sheets are shipped routinely with every shipment of any products containing hazardous ingredients). In addition, SAATI has a dedicated Regulatory Affairs Coordinator.

Customer Information

Customer Service Specialists

E-mail, call, fax or orders to:

Info.US@saatiprint.com

East Coast

Phone: 1-800-431-2200 • 864-862-0089
Fax: 800.829.9939 • 914.232.4004

West Coast

Phone: 800.992.3676 • 310.523.3676
Fax: 310.523.3610

They'll help you when:

- **Opening an account**
- **Placing an order**
- **Inquiring about a shipment**
- **Arranging for a return**

Your call will immediately be dispatched to your area's service specialist.

To Open An Account

You may fax or mail the short-form application supplied in the front of this catalog, or call our toll-free number to speak directly to a customer service specialist.

You can establish credit and open an account (30-day terms) usually on the same day we receive your first order. Just furnish us verbally with a bank reference and two commercial references (or a favorable Dun & Bradstreet® rating). We accept major credit cards.

24-Hour Order Handling

You can reach us twenty-four hours a day, seven days a week in two ways.
Our automatic answering machine accepts your calls before 8 a.m. and after 5 p.m. (EST). You may leave your order, or your name and telephone number, and we will return your call promptly at the start of the next business day.

You may also transmit correspondence, such as purchase orders, via e-mail to: Info.US@saatiprint.com or the relevant fax number.

SAATI Express Online Ordering

SAATI operates a convenient 24/7 e-commerce portal at www.SAATIexpress.com for customers in the continuous 48 United States where many SAATI screen printing products are available for purchase.

Environmental/ Regulatory Questions

Call 800.368.3243 or 864.601.8710 and ask for our Regulatory Affairs Coordinator.

Delivery

Our standard 90-day inventory of mesh and supplies means we keep you in business. 95% of our orders are normally shipped the same day. When you're in a super rush, overnight or second-day deliveries are available nationwide.

Technical Service & Training

Call toll-free 800.719.7130 for:

- **Technical assistance**
- **Problem solving**
- **An appointment to visit our technical center for screen making training**

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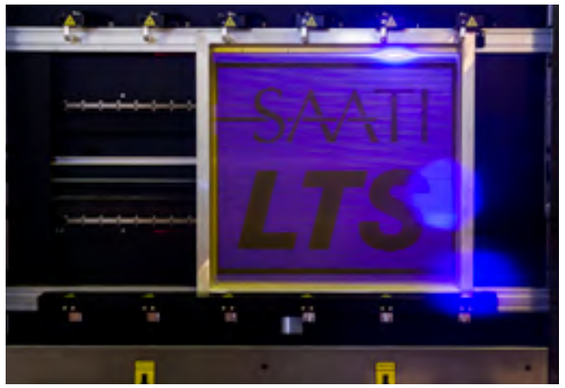
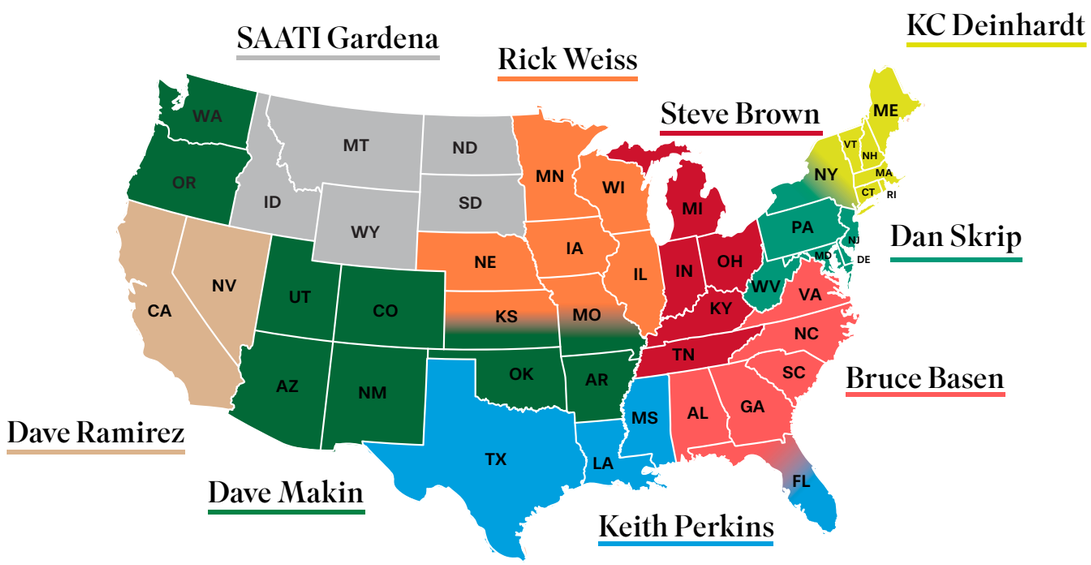
To gain direct access to Technical Data Sheets (TDS), scan the QR code



U.S. Sales Contacts



Technical Sales Rep	Mobile Phone
Bruce Basen	864-345-4736
KC Deinhardt	914-420-7690
Steve Brown	864-531-9899
Dave Makin	918-381-7275
Keith Perkins	937-554-8242
Dave Ramirez	310-350-3672
Dan Skrip	412-498-7988
Rick Weiss	414-840-5199
SAATI Gardena	800-992-3676
Bill Smith	215-970-4787

Keith Perkins | Perkins Basen | Bruce Basen | Steve Brown

Dan Skrip | Skrip KC | KC Deinhardt | Dave Ramirez

Dave Makin | Makin Weiss | Rick Weiss | SAATI Gardena

North East
KC Deinhardt
CT, MA, ME, NH, NY, RI, VT

Mid Atlantic
Dan Skrip
DE, MD, NJ, PA, WV

South East
Bruce Basen
AL, FL (North), GA, NC, SC, VA

Midwest (East of MS River)
Steve Brown
IN, KY, MI, OH, TN

Midwest (West of MS River)
Rick Weiss
IA, IL, MN, NE, WI

Middle/NW
Dave Makin
AR, AZ, CO, KS, MO, NM, OK, UT

West
Dave Ramirez
CA, NV

South
Keith Perkins*
FL (South), LA, MS, TX

National Sales Director
Bill Smith

* Keith acts as a Chemicals Specialist throughout the USA in addition to the listed territorial responsibilities

SAATI utilizes the most advanced looms in the world. Innovative in-house customization has resulted in weaving advancements that surpass our competition.

The numerous types of finishing techniques & capabilities available to SAATI allow for advanced mesh surface treatments that enhance stencil performance and mesh tension characteristics.

Manufacturing Information

A World Leader in Technical Fabrics

Whatever your application, there's a reliable SAATI mesh to meet your needs. With SAATI mesh, you'll improve your print quality and save money. Its excellent dimensional stability improves your registration, while its uniform mesh openings and fabric thickness produce controlled ink deposits. SAATI ultra-orange and ultra-yellow dyed fabrics assure you optimum resolution.

Plus their durability means your screen endures longer runs and numerous reclaimings.

SAATI produces and distributes high precision woven mesh fabrics developed from synthetic raw materials such as polyester and polyamide (nylon), with specialty finishes to optimize performance. Our fabrics meet the needs for such diverse market segments as graphics, textile, ceramic, electronics, glass & containers.

SAATI is the largest single producer of ISO 9001-certified synthetic screen fabrics worldwide, you are assured of all the benefits when making your decision to purchase SAATI Mesh.
Our technical support is unrivaled.

Chemical Manufacturing

SAAT formulates and manufactures a broad range of screen making stencil materials and reclaiming chemicals.

SAATI combines thirty plus years of chemical manufacturing experience with six decades of service to the screen printing industry. SAATI manufactures in state of-the-art facilities in South Carolina, in Appiano Gentile, Italy and in Tianjin, China. Each product is backed by worldclass R&D and is manufactured to the most exacting industry requirements in facilities accredited to ISO standards.

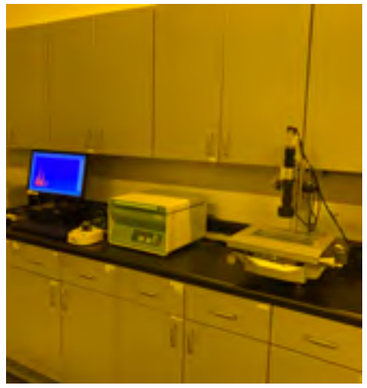
Innovative products always give you something beyond the conventional and we manufacture highly specialized, industry segment targeted products with unsurpassed performance for the most demanding applications.

SAATI offers dual-cure emulsions for making low friction stencils with improved printing properties in diverse applications.

Our photopolymer emulsions are versatile and extremely durable and our unique triple-cure technology allows production of permanent waterproof stencils.

We manufacture the most complete range of computer-to-screen emulsions and have enabled digital exposure technology to successfully enter demanding market segments by offering full control over exposure speed, chemical resistance and image quality.

Our wide range of screen reclaiming chemicals offer industry leading performance for ink, stencil, and ghost image removal. They preserve both screen fabric and the environment while increasing productivity and are suitable for manual or automatic screen cleaning.



Our Fountain Inn manufacturing facility features a state-of-the-art prototype screen-making department and a research and development laboratory for specialized applications of our emulsions and screen chemical products.

SAATI Mesh

Perfecting the Art of Precision-Woven Fabric

SAATI has a long history of manufacturing and distributing precision woven fabrics. Over the past eight decades, SAATI has perfected the technology of manufacturing fabrics to a high degree of precision.

Every phase of production is carefully monitored, employing frequent in-house testing and rigorous inspection to ensure consistent quality.

Quality Management

SAATI's dedicated Quality Management System directs and maintains our Company standards with regards to Quality.

The SAATI Quality Management System is certified in compliance to ISO 9001:2015 standard, and it covers all of our Divisions' activities.

SAATI has implemented and certified an Occupational Health and Safety Management System based on the BS OHSAS 18001.

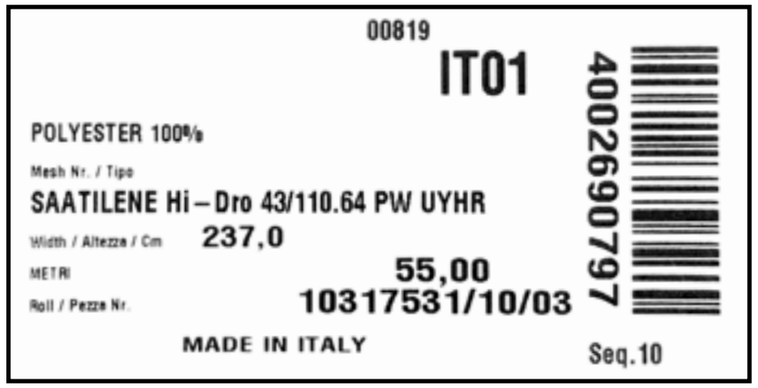
This Management System is applied to all four of SAATI's Facilities Sites in Italy.

Quality Certification

SAATI individually inspects every roll of mesh and attaches a Quality Control Inspection Label with the roll's characteristics and a traceable barcode. Measurements are taken with each roll and not just per batch.

State-of-the-art automated measuring equipment is employed for consistent and accurate results. SAATI holds itself to the highest standards by measuring their performance and giving you the actual measurement data.

Inspection Label



WORLD CLASS

SAATI Screen Printing Mesh

HiBond Plus® Mesh

The Ultimate in Surface-Modified Mesh

SAATI HiBond Plus For Incomparable Stencil Adhesion

SAATI Hibond Plus is a high tension/low elongation polyester monofilament screen-printing fabric with a "vacuum gas" modified surface to enhance stencil performance, offering added bonuses to the stencil maker and printer alike: time savings and stencil durability.

A special order fabric produced in widths up to 100", its special factory finishing renders the use of adhesion promoters obsolete and in some cases reduces the prevalence of ghost images.

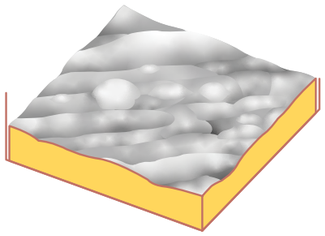
Apart from the production time savings, it will extend the life of stencils from single to triple, or more. This is a unique feature especially beneficial when printing conditions are unusually harsh, either due to the nature of the substrate or the ink system.

While underexposure is detrimental to the chemical and mechanical resistance of the stencil, there are circumstances where it is unavoidable in order to resolve the finest details of a stencil.

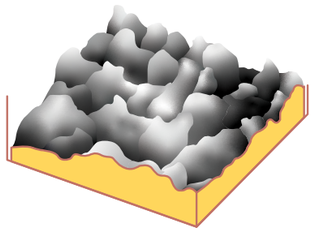
A typical example is in the production of high line count halftones and the resolution of the highlight dots.

SAATI HiBond Plus will allow for safe underexposure making it possible to cope with up to a 50% time reduction without loss of stencil adhesion with dual cure photo-emulsion and capillary films.

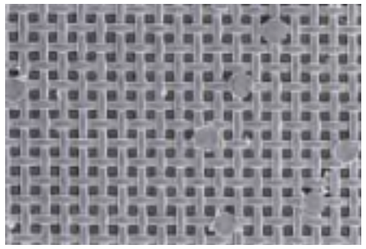
Not All Treatments Are The Same!



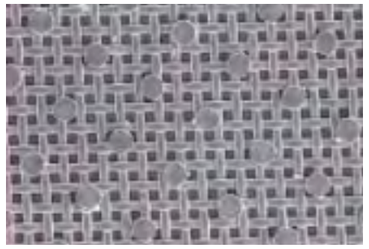
400 nanometer scale illustration of **conventional fabric surface**



400 nanometer scale illustration of **SAATI HiBond Plus fabric surface**



Conventional mesh halftone area with halftone dots missing



SAATI HiBond Plus halftone area with no stencil loss

HiBond Plus® Mesh

The Ultimate in Surface-Modified Mesh

SAATI's Vacuum Gas Plasma Treatment is a Deeper, Permanent Surface Treatment

Other competitors "chemically" treat their fabrics. These treatments wash off after one use and are ineffective for the life of the screen. The degree of surface modification of HiBond Plus could not happen by any other method.

Increased Printing Productivity & Cost Savings

Stencil Processing Time Chart		
Action	Traditional Fabric Time (minutes)	SAATI HiBond Plus Time (minutes)
Wetting of Fabric	0.5	0.0
Roughening	5.0	0.0
Rinsing	0.5	0.0
Drying	10.0	0.0
Wetting (Film)	(0.5)	(0.5)
Screen Coating	5.0	5.0
Drying	20.0	20.5
Total Time	41.0	25.0
Time Savings of 40%		

- The ultimate degree of increased stencil adhesion, resulting in less stencil breakdown on press, delivering longer print runs far beyond other conventional treated fabrics.
- Shorter exposure times due to increased stencil adhesion (halftones, fine lines etc.)
- Most cases, no degreasing pretreatment required prior to stencil processing.
- What remains is a NANO-etched surface with a greater number of hydroxyl groups that results in the absolute ultimate in surface bonding.

Recommendations For The Handling Of SAATI HiBond Plus

Preparing For Tensioning And Screen Storage

Since SAATI Hibond Plus is supplied ready to use, the user is expected to handle the product with clean hands, making sure that it does not come in contact with contaminated surfaces. Potential areas for grease contaminants include tensioning devices.

NOTE: Designate an easy access area for storing, unrolling and cutting the piece of fabric necessary for screen stretching. The work surface should be as smooth and clean as possible.

If screens are processed in an area where dust is inevitable, the screen surface can simply be washed with a spray of cold water to remove any dust particles that may have adhered to it.

SAATI Hi-Bond Plus Mesh Specifications										
Mesh Count		Thread Diameter	Mesh Opening	Overall Fabric Thick-ness		Open Area %	Theoretical Ink Deposit		Maximum Recom. Tension	Specific Cross Section
per cm	per inch	microns	microns	inches	microns	%	cm^3/m^2	in./sq. yd.	N/cm	$SCSmm^2/cm$
34	86	100	185	0.0068	173	41	71	3.64	35-40	0.267
43	110	80	150	0.0052	132	43	57	2.88	35-37	0.216
45	114	70	148	0.0045	115	47	54	2.75	30-34	0.173
49	125	70	130	0.0045	116	40	46	2.28	30-34	0.188
51	130	70	120	0.0046	118	38	45	2.30	30-35	0.196
55	140	64	120	0.0041	105	41	43	2.2	26-31	0.176
55	140	70	105	0.0045	114	33	38	1.93	30-34	0.212
62	158	64	90	0.0041	106	32	34	1.66	30-34	0.199
68	173	55	89	0.0034	89	36	32	1.63	25-30	0.161
71	180	55	80	0.0036	91	33	30	1.53	25-30	0.168
77	196	48	78	0.0031	80	36	29	1.48	24-26	0.139
77	196	55	70	0.0035	90	28	25	1.28	27-32	0.182
90	230	40	68	0.0024	62	38	24	1.23	20-24	0.113
90	230	48	55	0.0032	81	27	22	1.08	27-29	0.162
100	255	40	55	0.0025	64	31	20	1.02	26-28	0.125
100	255	48	40	0.0032	81	16	13	0.66	30-34	0.181
110	280	34	53	0.0022	56	35	20	1.02	22-24	0.099
110	280	40	47	0.0027	69	26	18	0.92	25-30	0.138
120	305	31	53	0.0019	48	40	19	0.97	21-24	0.09
120	305	34	45	0.0021	54	29	16	0.82	24-26	0.108
120	305	40	38	0.0026	67	20	13	0.66	27-32	0.15
130	330	34	39	0.0021	55	26	14	0.71	24-27	0.118
140	355	31	38	0.0019	48	28	13	0.66	20-22	0.105
140	355	34	29	0.0022	56	16	9	0.46	23-26	0.127
140	355	34	32	0.0024	60	20	12	0.61	23-26	0.127
150	380	31	29	0.0019	49	20	10	0.51	22-24	0.113
150	380	34	25	0.0022	56	13	7	0.35	25-27	0.136
150	380	34	28	0.0023	61	17	10	0.51	25-27	0.136
165	420	27	30	0.0018	46	25	12	0.61	17-21	0.094
165	420	31	25	0.0019	49	17	8	0.41	24-26	0.125
180	460	27	25	0.0017	43	20	8	0.41	18-22	0.103
180	460	31	23	0.0022	56	17	10	0.51	23-27	0.136
200	508	31	18	.0024	60	13	8	0.41	23-27	0.151

Hi-R® Mesh

SAATI HI-R is a high-modulus, low-elongation monofilament polyester screen printing fabric with a proprietary surface treatment ideal for all traditional applications.

Key Characteristics

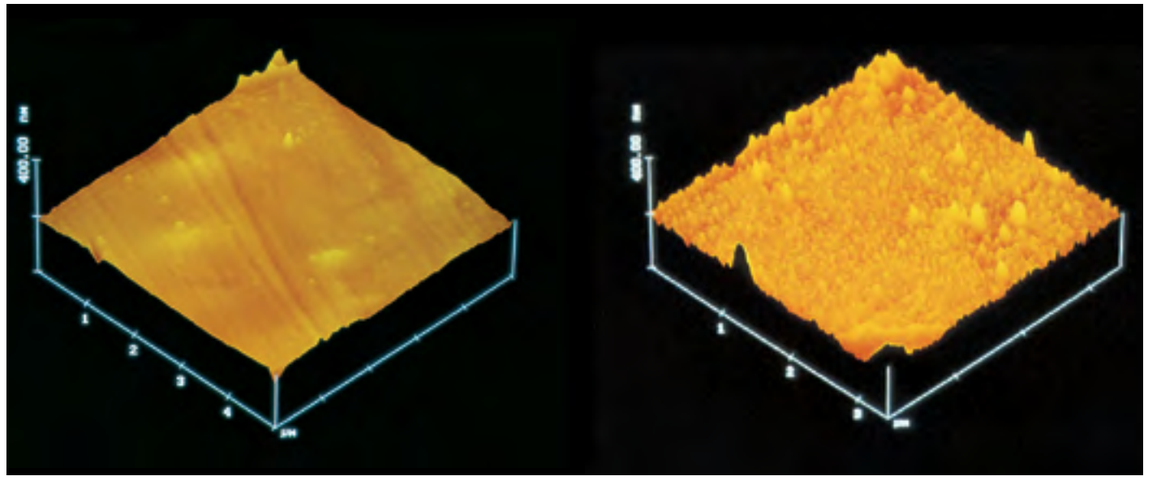
- High tension, low elongation, optimally performing monofilament polyester
- Superior stencil adhesion, resulting in less stencil breakdown on press, delivering longer print runs far beyond other conventional treated fabrics
- Shorter exposure times, due to increased stencil adhesion.
- Holds finer detail with no compromise in stencil durability (halftones, fine lines, etc.)

Benefits

- Applied to fabrics in widths up to 120"
- Safe under exposure with all emulsion/film types: Diazo, Dual Cure, and Photopolymer
- Excellent for use with abrasive printing conditions, inks and pastes
- Excellent performance on virgin fabric

Benefits of Surface Treatment

- Improved adhesion characteristics of small halftone dots and fine lines
- Even and consistent surface characteristics, enhanced for extreme durability
- Excellent ink release properties
- Ready-to-use, the degreasing process can be eliminated



SAATI Hi-R Mesh Specifications

Mesh Count		Type Of Weave	Thread Diameter	Mesh Opening	Overall Fabric Thick-ness		Open Area %	Theoretical Ink Deposit		Maxi-mum Recom. Tension	Spe-cific Cross Section
per inch	per cm	TW or PW	microns	microns	inches	microns	%	cm^3/m^2	in./sq. yd.	N/cm	$SCSmm^2/cm$
86	34	PW	100	185	0.0068	173	41	71	3.64	35-40	0.267
110	43	PW	80	150	0.0052	132	43	57	2.88	35-37	0.216
125	49	PW	70	130	0.0045	116	40	46	2.28	30-34	0.188
140	55	PW	64	120	0.0041	105	41	43	2.2	26-31	0.176
158	62	PW	64	90	0.0041	106	32	34	1.66	30-34	0.199
180	71	PW	55	80	0.0036	91	33	30	1.53	25-30	0.168
196	77	PW	48	78	0.0031	80	36	29	1.48	24-26	0.139
196	77	PW	55	70	0.0035	90	28	25	1.28	27-32	0.182
230	90	PW	40	68	0.0024	62	38	24	1.23	20-24	0.113
230	90	PW	48	55	0.0032	81	27	22	1.08	27-29	0.162
255	100	PW	40	55	0.0025	64	31	20	1.02	26-28	0.125
255	100	PW	48	40	0.0032	81	16	13	0.66	30-34	0.181
280	110	PW	34	53	0.0022	56	35	20	1.02	22-24	0.099
280	110	PW	40	47	0.0027	69	26	18	0.92	25-30	0.138
305	120	PW	31	53	0.0019	48	40	19	0.97	21-24	0.09
305	120	PW	34	45	0.0021	54	29	16	0.82	24-26	0.108
305	120	PW	40	38	0.0026	67	20	13	0.66	27-32	0.15
330	130	PW	34	39	0.0021	55	26	14	0.71	24-27	0.118
355	140	PW	31	38	0.0019	48	28	13	0.66	20-22	0.105
355	140	PW	34	29	0.0022	56	16	9	0.46	23-26	0.127
355	140	TW	34	32	0.0024	60	20	12	0.61	23-26	0.127
380	150	PW	31	29	0.0019	49	20	10	0.51	22-24	0.113
380	150	PW	34	25	0.0022	56	13	7	0.35	25-27	0.136
380	150	TW	34	28	0.0023	61	17	10	0.51	25-27	0.136
420	165	PW	27	30	0.0018	46	25	12	0.61	17-21	0.094
420	165	PW	31	25	0.0019	49	17	8	0.41	24-26	0.125
460	180	PW	27	25	0.0017	43	20	8	0.41	18-22	0.103
508	200	PW	31	18	.0024	60	13	8	0.41	23-27	0.151

Hi-Lo® Mesh

INFO

Extreme Low Elongation Mesh For High-End Printing

SAATI HiLo is a super high modulus monofilament polyester mesh. It was developed specially for tight tolerance printing to fabricate high tech products, including touch screen panels, solar cells, and membrane switches.

Hi-Lo's new 24 micron thickness ultra-high modulus fabrics represent a breakthrough in high definition electronics printing. They maintain the mechanical strength of the typical 27 micron fabrics with a reduced thread diameter that is more permeable and therefore unlocks higher definition art reproduction.

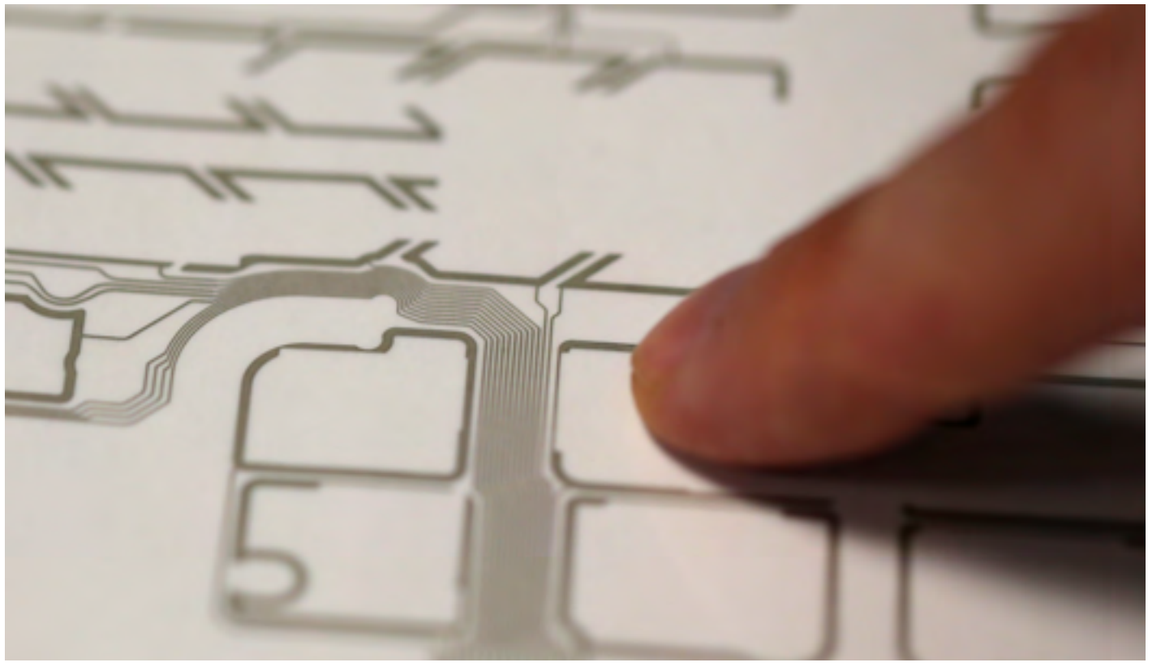
SAATI uses a special fiber whose polymeric structure gives extraordinary physical & mechanical properties to the product:

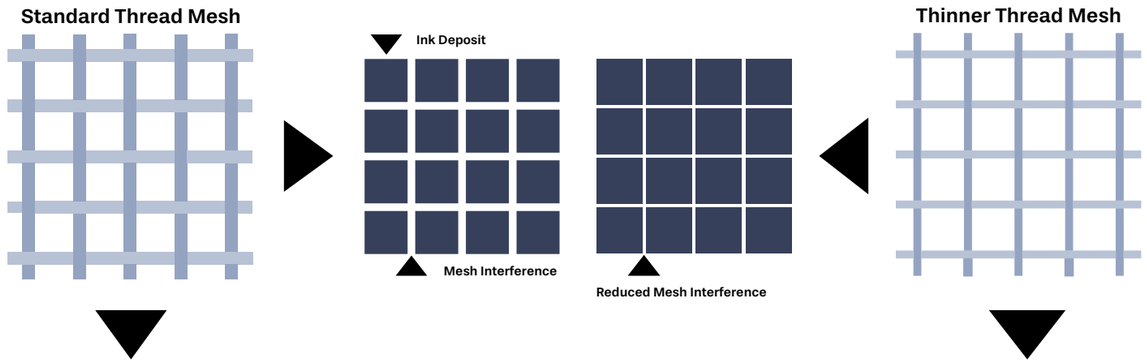
Higher dimensional stability

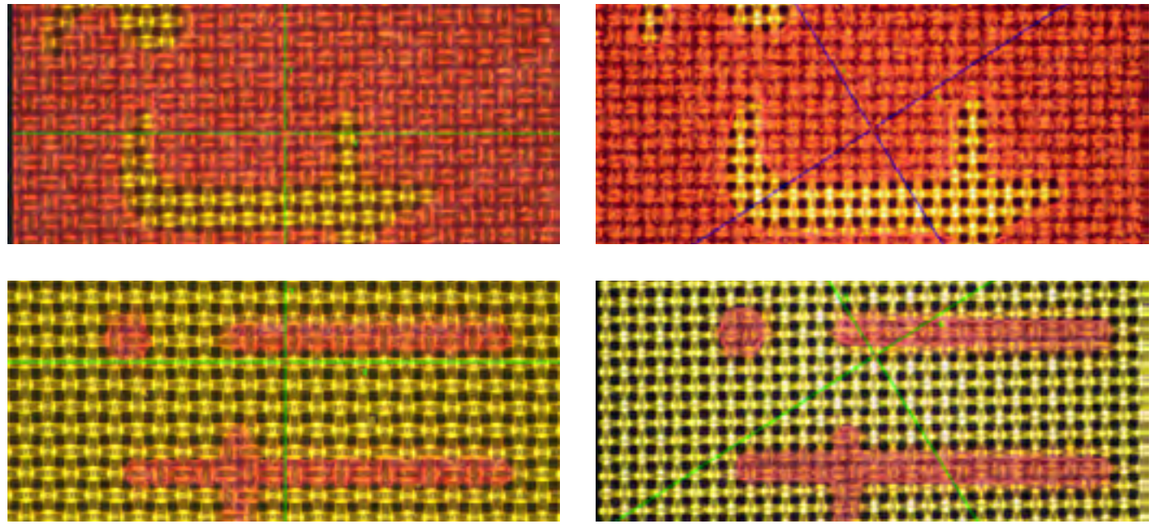
1. Extremely low mesh relaxation
2. Plasma-activated surface for enhanced stencil adhesion

Key Product Characteristics

- Top Print Quality
- Less tension loss during the print run
- Consistent performance during printing results in process reliability improvements
- Finer line Resolution
- Improved Ink Flow
- **Thread Diameters down to 24 microns maintaining the highest mechanical performance**
- Superior Stencil Adhesion: less stencil breakdown and printing life far longer than conventionally treated fabrics







Standard 165.27 Mesh

New Saatilene HiLo 165.24 mesh with higher open area maintaining the standard mechanical properties

Hi-Lo® Mesh

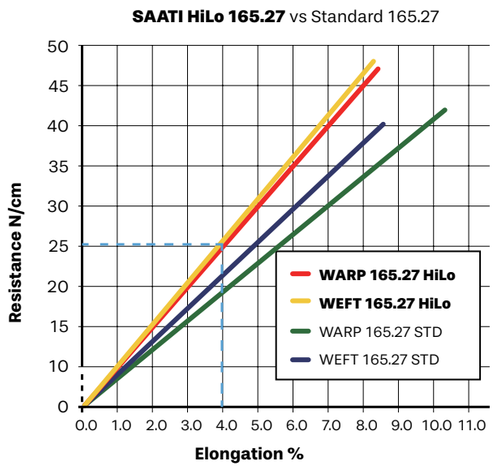
INFO

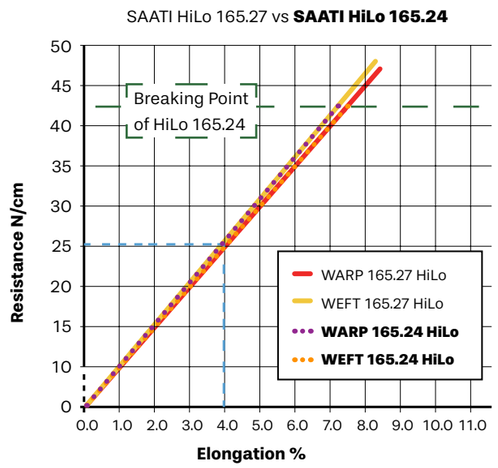
Extreme Low Elongation Mesh For High-End Printing

Availability Of SAATI HiLo Mesh								
Mesh Count	Thread Diameter	Mesh Opening	Open Area	Thickness	Theoretical Ink Volume	Speficic Cross Section	Max Recom. Tension	Roll Widths
(cm/in)	(µm)	(µm)	%	µm	(cm³/m²)	mm²/cm	n/cm	cm
180/460 ⋆	**24**	**28**	**26**	**38**	**9.5**	**0.081**	**23-26**	**115-136-158**
165/420 ⋆	**24**	**32**	**28**	**38**	**11.0**	**0.075**	**23-26**	**115-136-158**
180/460	27	21	15	42	6.0	0.103	23-27	115-136-158-186
165/420	27	29	23	42	9.5	0.094	23-27	115-136-158-186
150/380	27	36	29	42	12.0	0.086	22-25	115-136-158-186
150/380	31	30	21	43	9.0	0.113	24-28	115-136-158-186
140/355	31	35	25	43	11.0	0.106	24-28	115-136-158-186
120/305	34	43	26	53	14.0	0.109	24-32	115-136-158-186-234

⋆ U.AM Material

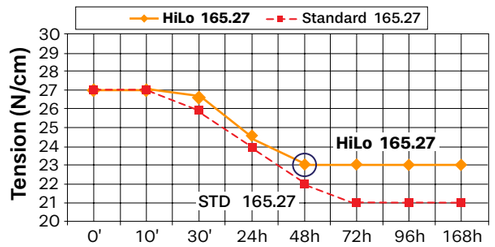
Elongation Statistics



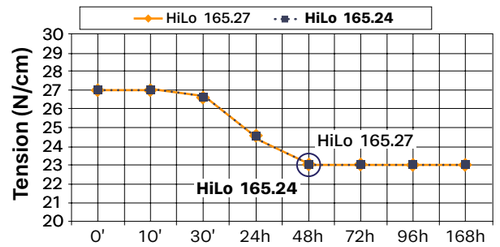


The overlap of the HiLo Warp & Weft is almost perfect. At 25N tension level the HiLo 165.27 and 165.24 elongation is around 4%.
For this and subsequent charts: 165 refers to threads/cm and is equivalent to 420 threads/inch.

Tension Loss

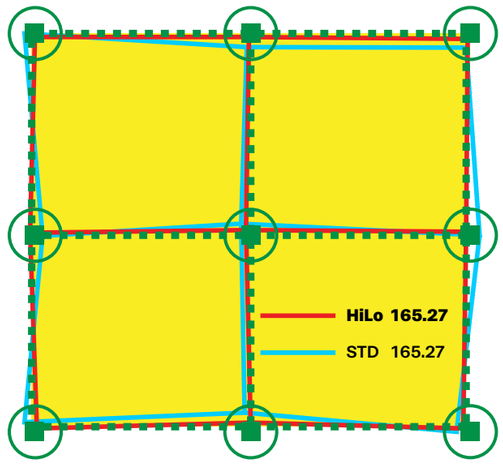


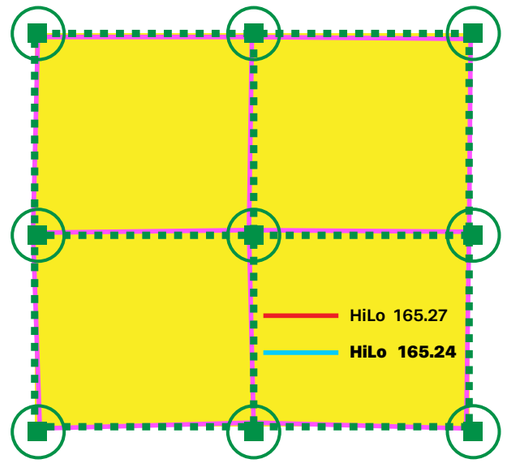
Standard 165.27 material relaxes more than HiLo 165.27



SAATI HiLo 24 micron thread maintains the same tension as the 27 micron thread

Dimensional Change after 3,000 prints





Extremely low mesh relaxation guarantees:

- **Low tension loss after stretching**
- **Mesh ready to use in less time, as it can be brought to required tension quicker**
- **Printing quality consistency and improved ink flow during all production run**

Hi-Glass® Mesh

Premium Quality High-Tension, Low-Elongation Mesh
With The Value-Added Benefit Of Surface Modification

Exclusively developed for glass screen printing industry, SAATI Hi-Glass is an innovative high modulus, low elongation monofilament polyester screen printing fabric with a proprietary surface treatment. Its excellent dimensional stability improves the printing registration, while its uniform mesh openings and fabric thickness guarantee controlled ink deposit.

Key Product Characteristics

- Excellent mechanical behavior
- Low elongation
- Low relaxation
- Optimized mesh geometry and precise mesh openings due to improved production process
- Long lasting surface modification thanks to Plasma treatment
- Excellent antistatic property
- Width up to 4 meters

High Tensile Strength Thread

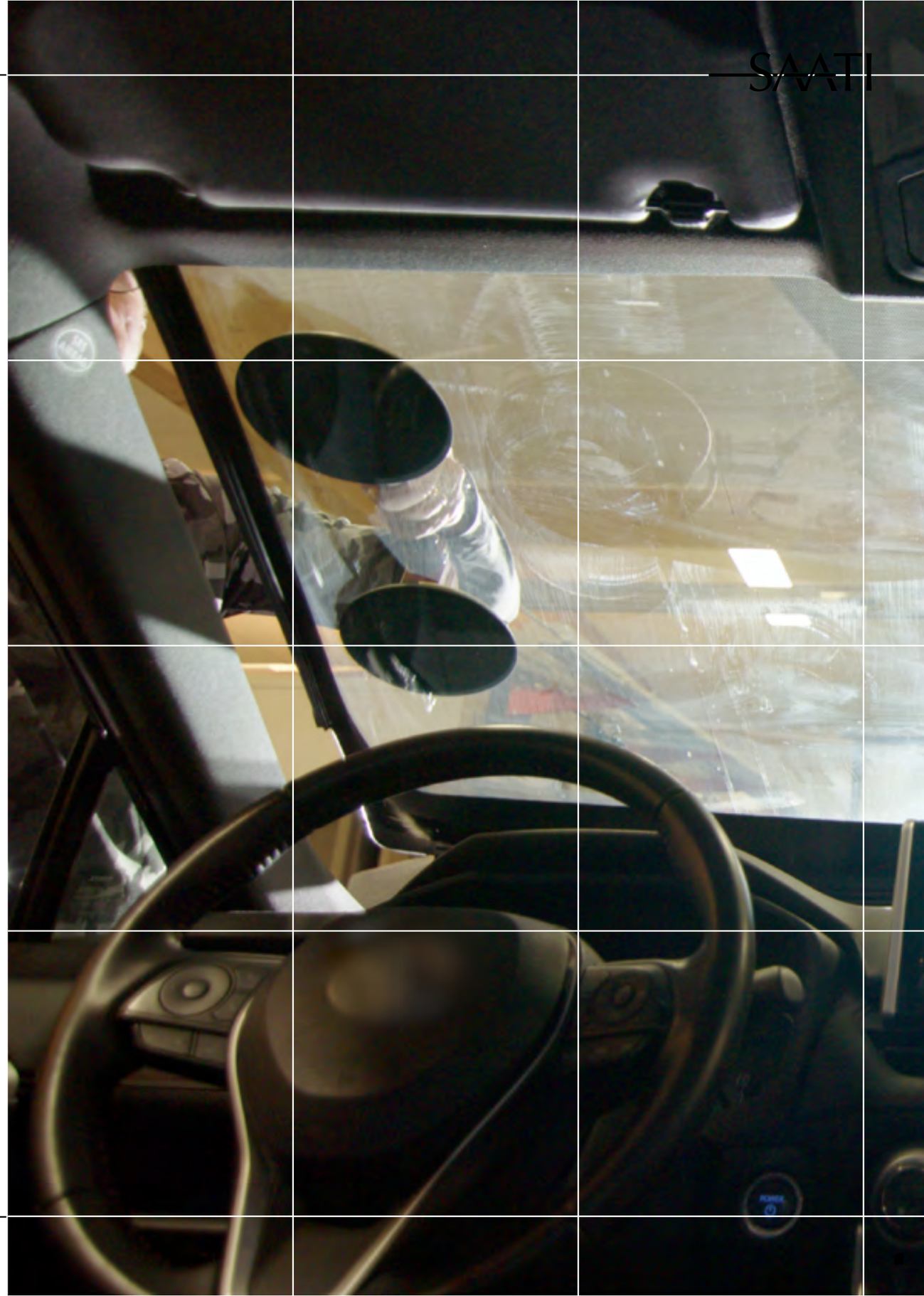
- Superior Dimensional Stability which remain constant during all printing run
- Mesh ready to use in less time, as it can be brought up to the required tension quicker
- Strict tolerance control
- Ink volume consistency
- Improves ink flow & deposit

Benefits Of Surface Treatment

- Improved adhesion characteristics of small halftone dots and fine lines
- Even and consistent surface characteristics, enhanced for extreme durability
- Excellent ink release properties
- No degreasing pretreatment step prior to stencil processing, thanks to SAATI **unique plasma surface treatment**
- Excellent for use with abrasive printing conditions, inks and pastes

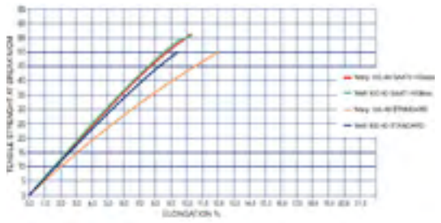
Other Advantages

- Safer with under exposure with all emulsion types: Photopolymer, Dual Cure, Diazo and Capillary Films
- No degreasing required under normal circumstances
- Reduces static build-up during printing
- Allows further productivity improvements using the newest computer-to-screen technologies
- Enhanced quality inspection system for highlighting and marking main visual defects

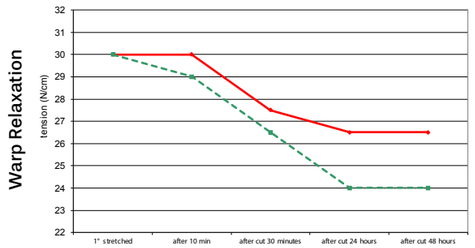


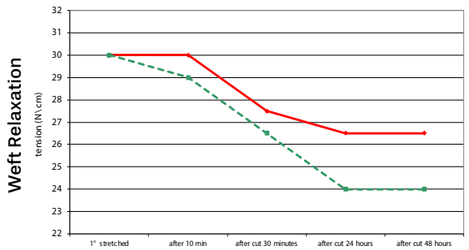
100.40 SAATI Hi-Glass vs 100.40 Standard

	(Hi-Glass)		(Standard)	
	Warp	Weft	Warp	Weft
1' stretched	40	40	40	40
after 10 min	40	40	39	39
	Screen Glued			
30' after cut	37,5	37,5	36	36
24 hours after	36,5	36,5	34	34
48 hours after	36,5	36,5	34	34
loss N/cm	3,5	3,5	6	6
elong after 10'	4,5%	4,5%	5%	5%



Biaxial 100.40 SAATI Hi-Glass VS. 100.40 Standard
(0 N\CM=5 N CM. Pre-Tension Value)

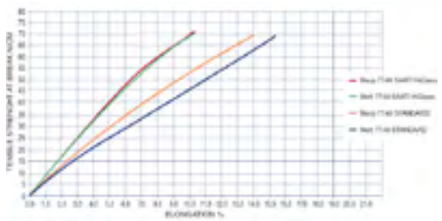




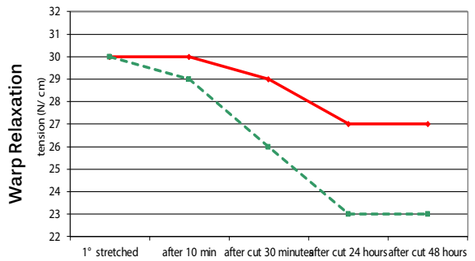
100.40 (Standard) 100.40 (Hi-Glass) 100.40 (Standard) 100.40 (Hi-Glass)

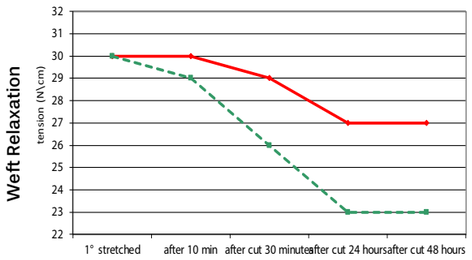
77.48 SAATI Hi-Glass vs 77.48 Standard

	(Hi-Glass)		(Standard)	
	Warp	Weft	Warp	Weft
1' stretched	40	40	40	40
10' after	40	40	38	39
	Screen Glued			
30' after cut	39	39	36	36
24 hours after	37	37	33	33
48 hours after	37	37	33	33
loss N/cm	3	3,5	7	7
elong after 10'	4%	4,5%	5,5%	6,5%



Biaxial 77.48 SAATI HiGlass VS. 77. 48 STANDARD
(0 N\CM =5 N CM. Pre-Tension Value)





77.48 (Standard) 77.48 (Hi-Glass) 77.48 (Standard) 77.48 (Hi-Glass)

SAATI Hi-Glass For the Automotive Industry

Technical Data

Article	Mesh count		Nominal thread diam.	Mesh opening	Open Area	Fabric Thickness	Theoretical Ink Volume	Specific Cross-Section	Max. Recom. Tension From - To
	n°/cm	n°/in.	µm	µm	%	µm	cm³/m²	mm²/cm	N/cm
PE AM 55.64 PW	55	140	64	120	41	98	42	0,177	26-31
PE AM 62.64 PW	62	158	64	90	32	94	29	0,199	30-34
PE AM 68.55 PW	68	173	55	89	36	79	29	0,161	25-30
PE AM 71.55 PW	71	180	55	80	33	86	28	0,169	25-30
PE AM 77.48 PW	77	196	48	78	36	78	28	0,139	24-26
PE AM 77.55 PW	77	196	55	70	28	90	26	0,183	27-32
PE AM 90.40 PW	90	230	40	68	38	63	24	0.113	20-24
PE AM 90.48 PW	90	230	48	55	27	81	22	0,163	27-29
PE AM 100.40 PW	100	255	40	55	31	63	20	0,126	26-28
PE AM 120.34 PW	120	305	34	45	29	54	16	0,109	24-26

Widths Range Availability and Applications

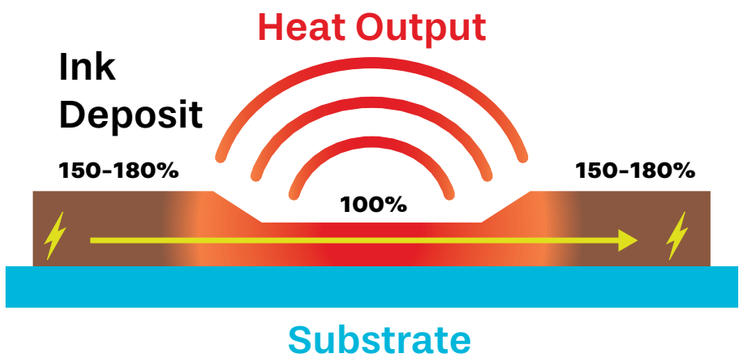
Article	BS	CS	DS	ES	FS	GS	Application
cm	134-139,9	155-161,9	184-189,9	210-215,9	232-235,9	252-256,9	
inch	52,8-52,1	61-63,7	72,4-74,8	82,7-85	91,3-92,9	99,2-101,1	
PE AM 55.64 PW	X	X	X	X	X		black-band
PE AM 62.64 PW	X	X	X	X	X		black-band
PE AM 68.55 PW	X	X					black-band
PE AM 71.55 PW	X	X	X	X	X		black-band
PE AM 77.48 PW	X	X	X	X	X	X	heat-grid
PE AM 77.55 PW	X	X	X	X	X	X	black-band
PE AM 90.40 PW	X	X	X	X	X		heat-grid
PE AM 90.48 PW	X	X	X	X	X	X	black-band
PE AM 100.40 PW	X	X	X	X	X	X	black-band
PE AM 120.34 PW	X	X	X	X	X		top roof

The above data are average values measured on piece-good in relaxed state, manufactured with yarns of a perfect nominal diameter (cfr. international standards), under normal hygrometric conditions (20°C=68°F, 65% relative humidity). They are subject to normal variations up to 7% if conditions vary from those stated above. The listed technical specifications, exception made for the thread diameter indicated with its nominal value, are referred to the arithmetic mean value of production samples and are subject to change, in accordance with our policy of continuously improving our products.
The tension tests are realised with TOP 12 plus series clamp system and appropriate frames at our laboratories.

PW: Plain Weave (1:1).

SAATIlene Variant®

Premium Quality Variable Tension Mesh for
Glass and Electronics Printing Applications



Saatilene Variant is an ultra-yellow fabric, with an orange thread between the repeats to better identify one repeat from the other.

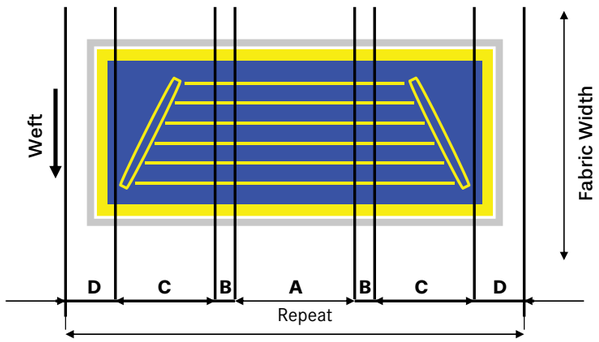
In warp it's used a 77 mesh per cm, 196 thread per inch, with 48 micron diameter and at our Saatilene Variant 101 that is 90 mesh per cm, 230 thread per inch, with 40 micron diameter.

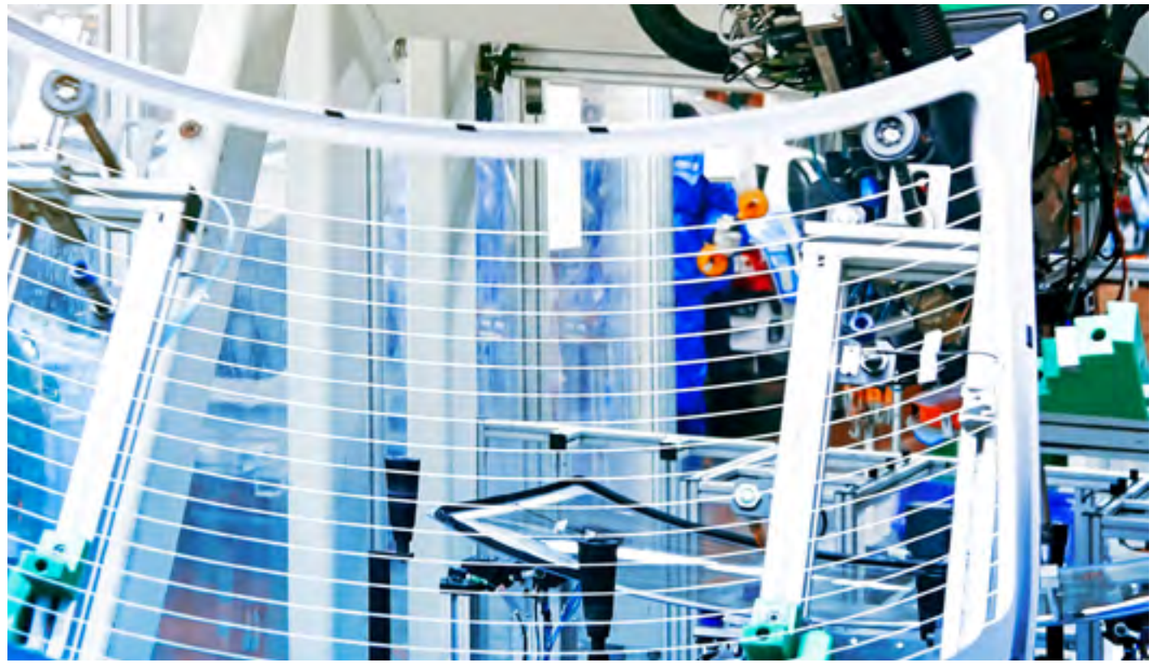
The standard finishing of Saatilene Variant is the anti-static treatment; it also possible to get the plasma treatment on every kind of Saatilene Variant, which will increase stencil resistance.

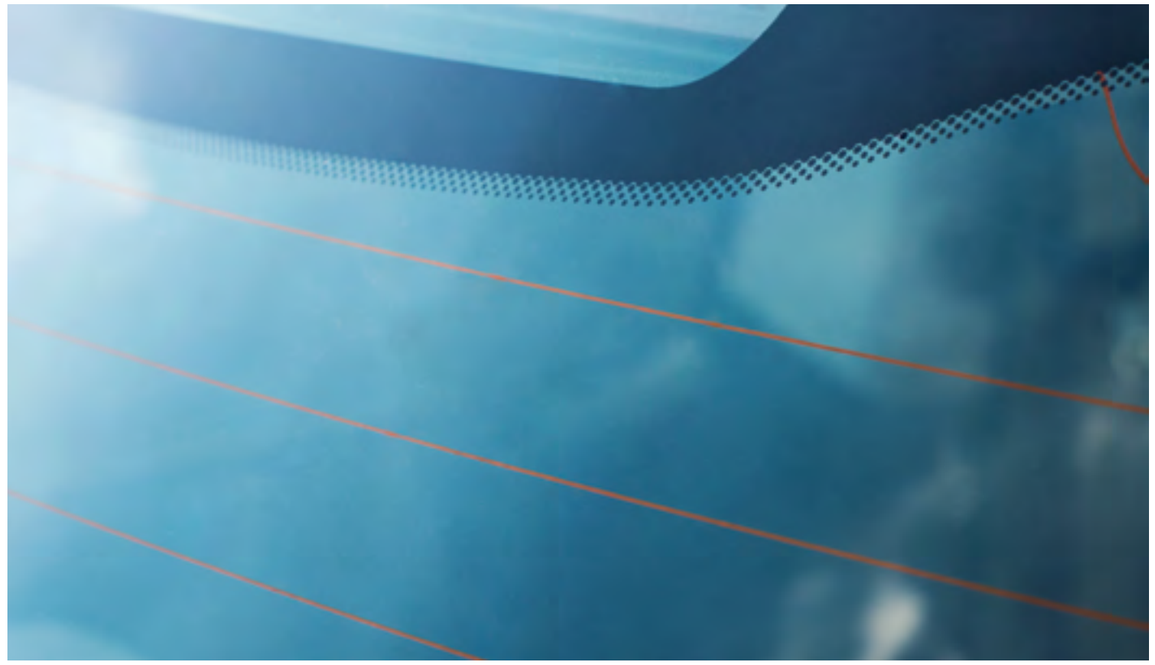
Saatilene Variant is a high modulus polyester mesh used in those applications where a different ink deposit is required, with the printing process optimisation.

Picture 1:

- **In the A zone, Resistance Zone, is necessary to have a low ink deposit to reduce the resistances and avoid the heat dissipation (Joule effect).**
- **C zone or bus-bar zone, is the connection zone between lighting set and resistances: it needs an high ink deposit to reduce the heat dissipation and to avoid the connector welding.**
- **D zone is the stretching area and does not effect the printing zone and can be considered together with the C one.**







SAATI Hi-Dro® Mesh

INFO

Surface Treated Mesh Especially For Water-Based Ink Printing and Fine Detail Printing

SAATI HI-DRO is a high modulus, low elongation monofilament polyester screenprinting fabric with a proprietary surface treatment developed to meet the requirements of garment printing application. Especially designed to optimize the deposit when printing with water base inks, this new range was constructed maintaining the same mesh counts and using thinner thread diameters.

Key Products Characteristics

- Optimized mesh geometry and precise mesh openings due to the improved production process
- Excellent antistatic property
- Long lasting surface modification thanks to plasma treatment.
- Range of mesh counts from 32-120 threads per cm (81-305 per inch)
- Safe under exposure with all emulsion types: Photopolymer, Dual-Cure, Diazo and Capillary Films

Benefits of Thin Thread Mesh

- Improved ink flow with all ink types
- Produces better coverage while using less ink volume
- Excellent coverage on dark garments
- Mesh has a reduced influence on the print quality of halftone dots and other fine details - quality improves
- Less stencil cleaning work while printing, less clogging with water-based inks
- Faster underbase curing
- Reduction of some causes of moiré effect

Benefits of Surface Treatment

- Improved adhesion characteristics of small halftone dots and fine lines
- Even and consistent surface characteristics, enhanced for extreme durability
- Excellent ink release properties
- No degreasing pretreatment step prior to stencil processing, thanks to SAATI **unique plasma surface treatment**
- Excellent for use with abrasive printing conditions, inks and pastes.

Single Stroke Print Test
Left - HiDro 198.40 | Right - Standard 196.55

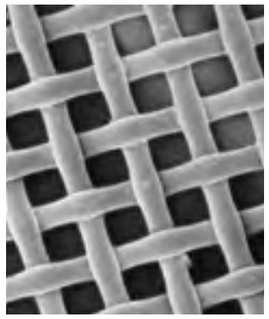
SAATI Hi-Dro® Mesh

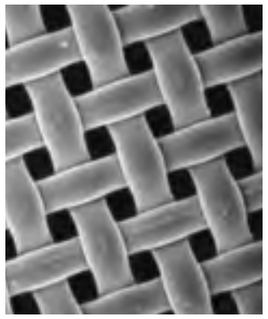
INFO

Surface Treated Mesh Especially For Water-Based Ink Printing and Fine Detail Printing

Hi-Dro Standard Mesh

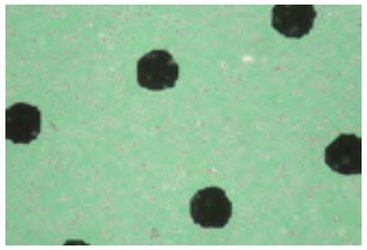
At left: SAATI HiDro 110pw64 vs a standard 110pw80.
Below SAATI HiDro 197pw40 vs a standard 196pw55.
Both examples show the result of two passes with white plastisol ink on a black t-shirt fabric.



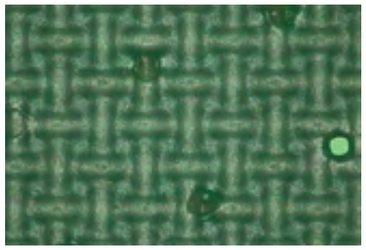


Hi-Dro

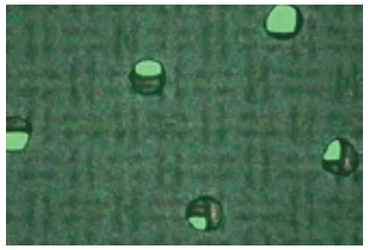
Standard Mesh



Film Positive: 5% halftone dots



Standard Mesh: 5% halftone dots
Threads block the openings



Hi-Dro Mesh: 5% halftone dots
High fidelity to film positive

Article	Mesh Count	Thread Diameter	Mesh Opening	Open Area	Fabric Thickness	Theo-retical Ink Volume	Specific Cross Section	Max. Recom. Tension
	cm / in	um	um	%	um	cm^3/m^2	mm^2/cm	N/cm
32.70 PW	32/81	70	245	61	110	67	0.123	24-26
43.64 PW	43/110	64	170	53	100	53	0.138	27-30
48.55 PW	48/122	55	153	55	90	50	0.185	24-26
55.48 PW	55/140	48	125	50	78	39	0.099	25-28
62.48 PW	62/158	48	109	46	77	35	0.112	25-28
78.40 PW	78/198	40	85	44	65	29	0.098	20-24
90.40 PW	90/230	40	68	38	62	24	0.113	20-24
120.31 PW	120/305	31	53	40	48	19	0.091	21-24

The above data are average values measured on piece-good in relaxed state, manufactured with yarns of a perfect nominal diameter (cfr. international standards), under normal hygrometric conditions (20°C=68°F, 65% relative humidity).

They are subject to normal variations up to 7% if conditions vary from those stated above. The listed technical specifications, exception made for the thread diameter indicated with its nominal value, are referred to the arithmetic mean value of production samples and are subject to change, in accordance with our policy of continuously improving our products.

The tension tests are realised with TOP 12 series clamp system and appropriate frames at our laboratories. PW: plain weave (1:1)

SAATI Hi-Tex Plus® Mesh

High Quality Plasma-Treated Textile Mesh Without The High Cost

For the printer looking to save on cost while not compromising the printing outcome, SAATI offers SAATI Hi-Tex printing mesh. Hi-Tex contains the same high tension, low elongation characteristics known throughout the globe. This offering is a standard precision woven fabric that is excellent for textile, glass, and low mesh count applications. The absence of treatment as well as the tailored specification offerings allows for the lowest prices, promoting cost savings to those who do not reclaim screens or have a high turn over in screen processing.

Key Characteristics

- **High tension, low elongation, monofilament polyester**
- **Good stencil adhesion due to plasma treatment**
- **Wide range of mesh counts available in 50 and 60" widths**

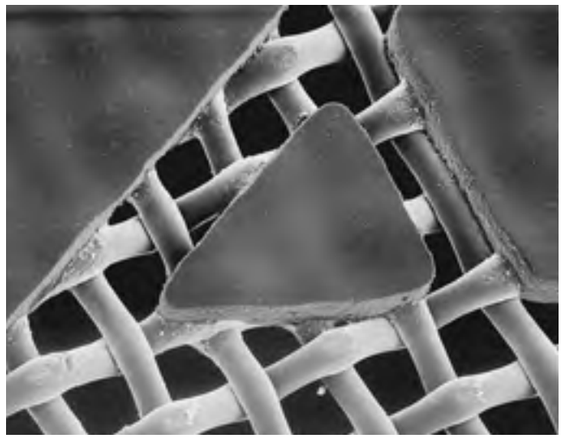
SAATI HiTex Plus Mesh Specifications

Mesh Count Inches	Mesh Count Cm	Nominal Thread Diameter (µm)	Color	Weave	Mesh Opening (µm)	Open Area (%)	Fabric Thickness (µm)	Theo-retical Ink Volume (cm^3/cm^2)	Recom. Max Tension (N/Cm)	Available Width (in)
86	34	100	White	PW	185	41	173	71	35-40	50 / 60
86	34	100	Yellow	PW	185	41	173	71	35-40	50 / 60
110	43	80	White	PW	150	43	132	57	35-37	50 / 60
110	43	80	Yellow	PW	150	43	132	57	35-37	50 / 60
125	49	70	White	PW	130	40	116	46	30-34	50 / 60
125	49	70	Yellow	PW	130	40	116	46	30-34	50 / 60
140	55	64	White	PW	120	41	105	43	26-31	50 / 60
140	55	64	Yellow	PW	120	41	105	43	26-31	50 / 60
158	62	64	White	PW	90	32	106	34	30-34	50 / 60
158	62	64	Yellow	PW	90	32	106	34	30-34	50 / 60
180	71	55	White	PW	80	33	91	30	25-30	50 / 60
180	71	55	Yellow	PW	80	33	91	30	25-30	50 / 60
196	77	55	White	PW	70	28	90	25	27-32	50 / 60
196	77	55	Yellow	PW	70	28	90	25	27-32	50 / 60
230	90	48	White	PW	55	27	81	22	27-29	50 / 60
230	90	48	Yellow	PW	55	27	81	22	27-29	50 / 60
255	100	40	White	PW	55	31	64	20	26-28	50 / 60
255	100	40	Yellow	PW	55	31	64	20	26-28	50 / 60
280	110	34	Yellow	PW	53	35	56	20	22-24	50 / 60
305	120	34	Yellow	PW	45	29	54	16	24-26	50 / 60

SAATI Hi-Tex® Mesh

High Quality Textile Mesh Without The High Cost

For the printer looking to save on cost while not compromising the printing outcome, SAATI offers SAATI Hi-Tex printing mesh. Hi-Tex contains the same high tension, low elongation characteristics known throughout the globe. This offering is a standard precision woven fabric that is excellent for textile, glass, and low mesh count applications. The absence of treatment as well as the tailored specification offerings allows for the lowest prices, promoting cost savings to those who do not reclaim screens or have a high turn over in screen processing.



Key Characteristics

- **High tension, low elongation, monofilament polyester**
- **Good stencil adhesion**
- **Wide range of mesh count**

SAATI HiTex Mesh Specifications

Mesh Count Inches	Mesh Count Cm	Color	Weave	Nominal Thread Diameter (um)	Mesh Opening (um)	Open Area (%)	Fabric Thick-ness (um)	Theoreti-cal Ink Volume (cm^3/cm^2)	Recom. Max Tension (N/Cm)	Standard Width
17	**6.5**	White	PW	385	1180	58	715	21.28	35-60	50, 60"
24	**9.5**	White	PW	280	810	55	533	15.02	35-60	50, 60"
38	**15**	White	PW	200	475	50	365	183	35-60	50, 60"
54	**21**	White	PW	160	330	46	275	127	35-60	50, 60"
61	**24**	White	PW	120	290	50	216	108	35-60	40, 50, 60"
61	**24**	White	PW	145	275	43	245	105	35-60	60, 80"
74	**29**	White	PW	120	220	41	218	89	35-60	40, 50, 60"
74	**29**	White	PW	145	190	32	240	77	35-60	40, 50, 60"
81	**32**	White	PW	70	245	61	110	67	24-26	50, 60"
86	**34**	White	PW	100	185	41	173	71	35-40	40 50 60 80 120
86	**34**	Yellow	PW	100	185	41	173	71	35-40	40, 60"
110	**43**	White	PW	80	150	43	132	57	35-37	40 50 60 80 120
110	**43**	Yellow	PW	80	150	43	132	57	35-37	40, 50, 60"
125	**49**	White	PW	70	130	40	116	46	30-34	40, 50, 60"
125	**49**	Yellow	PW	70	130	40	116	46	30-34	50, 60"
140	**55**	White	PW	64	120	41	105	43	26-31	40 50 60 80 120
140	**55**	Yellow	PW	64	120	41	105	43	26-31	40, 50, 60"
158	**62**	White	PW	64	90	32	106	34	30-34	40 50 60 80 120
158	**62**	Yellow	PW	64	90	32	106	34	30-34	40 50 60 80 120
180	**71**	White	PW	55	80	33	91	30	25-30	40, 50, 60"
180	**71**	Yellow	PW	55	80	33	91	30	25-30	40 50 60 80 120
196	**77**	Yellow	PW	55	70	28	90	25	27-32	40 50 60 80 120
230	**90**	Yellow	PW	40	68	38	62	24	20-24	50, 60"
230	**90**	Yellow	PW	48	55	27	81	22	27-29	40 50 60 80 120
255	**100**	Yellow	PW	40	55	31	64	20	26-28	50, 60"
280	**110**	Yellow	PW	34	53	35	56	20	22-24	50, 60"
305	**120**	Yellow	PW	34	45	29	54	16	24-26	40 50 60 80 120
305	**120**	Yellow	PW	40	38	20	67	13	27-32	50, 60"

Bopp™ Stainless Steel Wire Cloth

SAATI is a direct importer of G. Bopp & Co. AG Stainless Steel Wire Cloth. Bopp Precision woven wire cloth is produced in Switzerland under strict ISO 9001 international certification. SD wire cloth is woven to ultra tight tolerances for the most demanding screen printing applications. Whether for electronics, solar, graphics, or ceramic applications, Bopp wire is considered of the highest quality available in the world.

Specifications

Ink deposit uniformity and close tolerance registration are challenges that Bopp SD Wire Cloth is uniquely suited to address. Many years of research and dedication to being an industry leader has resulted in a wide selection of specifications to meet a variety of needs. Different wire diameters, mesh openings and fabric thickness offer a wide range of selection for your deposition needs. Within any mesh count there is a range of wire diameters to choose from. Wire diameters range from .0007 to .0045, mesh counts from 60/in to 500/in, plain and some twill weave and also type 304 and 316 stainless steel.

Tolerances

Bopp AG is unique in the position of manufacturing all their wire needs. In house control of wire drawing offers precision control that is unmatched by their competitors. This control translates to closer tolerances and greater accuracy in your printing operation. Individual roll inspection sheets can be supplied to you upon request. These sheets detail overall fabric thickness measurements in microns, from left, center and right sides at every meter of the entire length of the roll.

Calendared Material

Bopp's critically acclaimed calendaring capability is recognized world wide as the finest in dialing in a customized calendared fabric thickness. Maximum calendaring in cases beyond 30% of the wire diameter doubled, is capable with their most advanced state of the art calendaring technology.
Calendaring from "soft" = approx. 10% to "standard" approx. 20% to "heavy" 30%+, always of original thickness of mesh if possible.

Custom Sheeting

For your convenience, Bopp wire is available in custom sheets, cut for the maximum yield, to meet your specifications.

Bopp SD Plus Wire

New generation BOPP SD PLUS screen printing meshes are capable of achieving tension values up to 50% and more above and beyond traditional meshes. Increased screen tension improves the print result, especially with lower off contact distances, and increases accuracy of registration. Unused tensioning capacity facilitates a considerably longer screen life and improvements in process efficiency. Typical tension values for SD PLUS meshes have been established under optimum working conditions. These should be adapted in accordance with the condition of the actual frame and tensioning equipment.

Datasheets Detailing Recommended Tension Values Are Available On Request.

Bopp SD Code	USA Specification ANSI/AWCI 01-1992		Metric Specs ISO 4783-1 1989	Open Area	Cloth Thickness As Woven-AW		Theoretical Ink Deposit	Theoretical Maximum Tension
Mesh Op/d	Mesh Threads /in	Wire Diameter d Inch/mm	Width of Aperture (opening) Microns	% op % op a/o	Average d microns	Average d inch	AW as Woven Vth cm3/m2	AW as Woven Newton N/cm
224/100	80	.0040/.100	224	48	215 ± 4	0.0085	103	40
160/75	105	.0030/.075	160	46	162 ± 4	0.0064	75	40
140/65	120	.0026/.065	140	47	140 ± 3	0.0055	65	40
125/65	135	.0026/.065	125	43	140 ± 3	0.0055	61	40
118/56	145	.0020/.056	118	46	120 ± 3	0.0047	55	38-40
100/50	165	.0020/.050	100	44	110 ± 3	0.0043	49	36-38
95/45	180	.0018/.045	95	46	102 ± 3	0.004	47	33-35
90/40	200	.0016/.040	90	48	90 ± 3	0.0035	43	31-33
75/36	230	.0014/.036	75	46	80 ± 3	0.0031	37	30-32
63/36	250	.0014/.036	63	40	80 ± 3	0.0031	32	31-33
59/32	280	.0012/.032	59	42	68 ± 2	0.0027	29	29-31
56/36	270	.0014/.036	56	37	80 ± 3	0.0031	30	32-34
56/32	300	.0012/.032	56	40	68 ± 2	0.0027	28	30-32
50/30	325	.0011/.030	50	39	62 ± 2	0.0024	24	46-48
50/28	325	.0011/.028	50	41	58 ± 2	0.0023	24	
40/28	370	.0011/.028	40	35	58 ± 2	0.0023	20	29-31
40/25	400	.0010/.025	40	38	51 ± 2	0.002	19	37-42
40/23	400	.0009/.028	40	40	48 ± 2	0.0019	19	36-40
Heavy Grades								
100/65	150	.0026/.065	100	37	140 ± 3	0.0055	51	40
80/50	200	.0020/.050	80	38	110 ± 2	0.0043	42	40
63/40	250	.0016/.040	63	37	90 ± 2	0.0035	34	35-37
56/40	270 TW	.0016/.040	56	34	88 ± 2	0.0035	30	34-38
42/36	325 TW	.0014/.036	42	29	76 ± 2	0.003	22	36-38
36/28	400 TW	.0011/.028	36	32	60 ± 2	0.0024	19	28-31
32/25	450 TW	.0010/.025	32	32	54 ± 2	0.0021	17	28-31
25/25	510 TW	.0010/.025	25	25	54 ± 2	0.0021	14	31-33
Ultra Thin Grades								
100/65	150	.0026/.065	100	37	140 ± 3	0.0055	51	40
80/50	200	.0020/.050	80	38	110 ± 2	0.0043	42	40
63/40	250	.0016/.040	63	37	90 ± 2	0.0035	34	35-37
56/40	270 TW	.0016/.040	56	34	88 ± 2	0.0035	30	34-38
42/36	325 TW	.0014/.036	42	29	76 ± 2	0.003	22	36-38
36/28	400 TW	.0011/.028	36	32	60 ± 2	0.0024	19	28-31
32/25	450 TW	.0010/.025	32	32	54 ± 2	0.0021	17	28-31
25/25	510 TW	.0010/.025	25	25	54 ± 2	0.0021	14	31-33

Pre-Stretched Screens

High Quality Stretched Screens Made with SAATI Mesh and Adhesives

SAATI is pleased to introduce its new pre-stretched screen program. For the textile printer who needs to focus on stencil production and printing SAATI Stretched Screens are produced with the same high quality SAATI mesh that you are already used to.

White or yellow SAATI Hi-Tex Plus or Hi-Dro mesh is pre-stretched to SAATI's recommended tension levels on aluminium frames with profiles of 1.5 x 1.5" with a .070" wall thickness and adhered with durable SAATI SB5 Plus polyurethane glue. Standard mesh counts between 86 and 305 are available, some in multiple thread diameters.

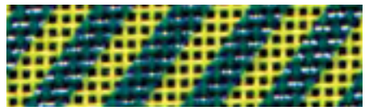
Custom screens with SAATI mesh are available, please inquire.

Characteristics

- **High quality SAATI textile mesh available in a range of mesh counts**
- **Aluminum frames that are strong but also lightweight and chemical resistant**
- **Stretched to SAATI recommended tension levels**
- **Durable SAATI SB Series polyurethane glue resists tension loss and chemical attack**

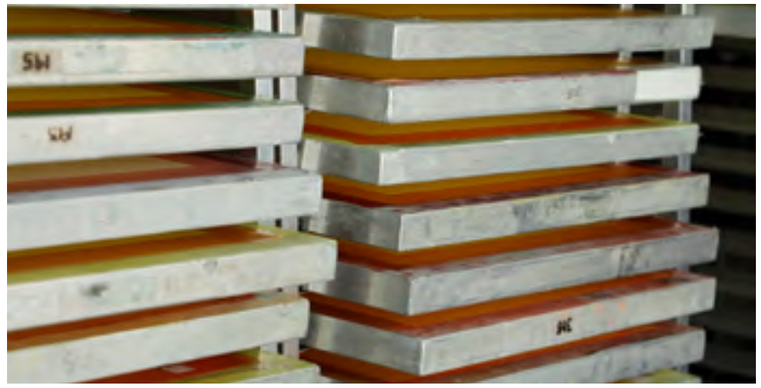
Advantages

- **Excellent performance screens**
- **Order in bulk and worry less**
- **Devote your staff to other steps in the printing process**
- **Get rid of your old frames and start using reliable SAATI frames**
- **Recycle your frames at the end of their usable life**



High quality SAATI Hi-Tex Plus Mesh goes into every SAATI Pre-Stretched Screen

Made with SB5 plus glue for superior chemical resistance



Available Specifications												
Size	**86.1**	**110.8**	**125.7**	**140.64**	**158.64**	**180.55**	**196.55**	**230.4**	**230.48**	**255.4**	**305.34**	**305.4**
20x24	WH	WH	WH	WH	WH/YE	YE	YE	YE	YE	YE	YE	YE
23x31	WH	WH	WH	WH	WH/YE	YE	YE	YE	YE	YE	YE	YE
25x36	WH	WH	WH	WH	WH/YE	YE	YE	YE	YE	YE	YE	YE

WH: White YE: Yellow

Roller Panels

Pre-Prepped Mesh Panels for Easy Installation in Roller Frames

The Roller Panel was engineered to simplify the tedious process of installing new mesh to roller frames by "locking in" all of the necessary preparation work required to consistently produce evenly stretched frames. The locking strips are securely sewn into place using high quality polyester thread.

This process securely retains all of the alignment and specific measurements to achieve premium results, eliminating 60 percent of the time required to stretch mesh onto nearly every type of roller frame. The panels are designed to be fully compatible with most brands of roller frames.

Key Products Characteristics

- Locking strips pre-woven into standard side panels of mesh
- Stretch to recommended tension easily
- Available in all of the most common SAATI Hi-Dro & Hi-Tex Plus mesh counts
- Save 60% of the time associated with stretching mesh in roller frames
- Each panel clearly labeled for cataloguing
- Stretch frames without the need for adhesives

Your Benefits

- Increased efficiency through a more repeatable stretching process
- More repeatable stencils result in more predictable printing results
- Work in a more environmentally friendly way

SAATI HiTex Plus Spec	SAATI Hi-Dro Spec
86/100 White	**81/70 White**
110/80 White	**110/64 White**
110/80 Yellow	
125/70 White	**122/55 WHite**
140/64 White	**140/48 White**
158/64 Yellow	**157/48 White**
180/55 White	**157/48 Yellow**
196/55 White	**198/48 Yellow**
196/55 Yellow	
230/48 Yellow	**230/40 Yellow**
255/40 Yellow	
280/40 Yellow	
305/34 Yellow	**305/31 Yellow**
305/40 Yellow	

Other mesh counts can be available upon request

Eco Frame Panels

Pre-Prepped Mesh Panels for Easy Installation in Nortech Graphics Eco Frames

SAATI also produces mesh panels for use in ECO Frames.

The mesh is securely attached without adhesives. Recycling mesh panels supports a "chemical free" wash booth process. Re-stretching on demand eliminates shipping frames back and forth, thereby reducing carbon footprint.

SAATI also produces mesh panels for use in ECO Frames.

Key Products Characteristics

- No adhesive failures
- No potential mesh damage during frame shipment
- Restretch in house in 1-2 minutes
- Free your floorplan from stretching equipment and still stretch in-house

Environmental Benefits

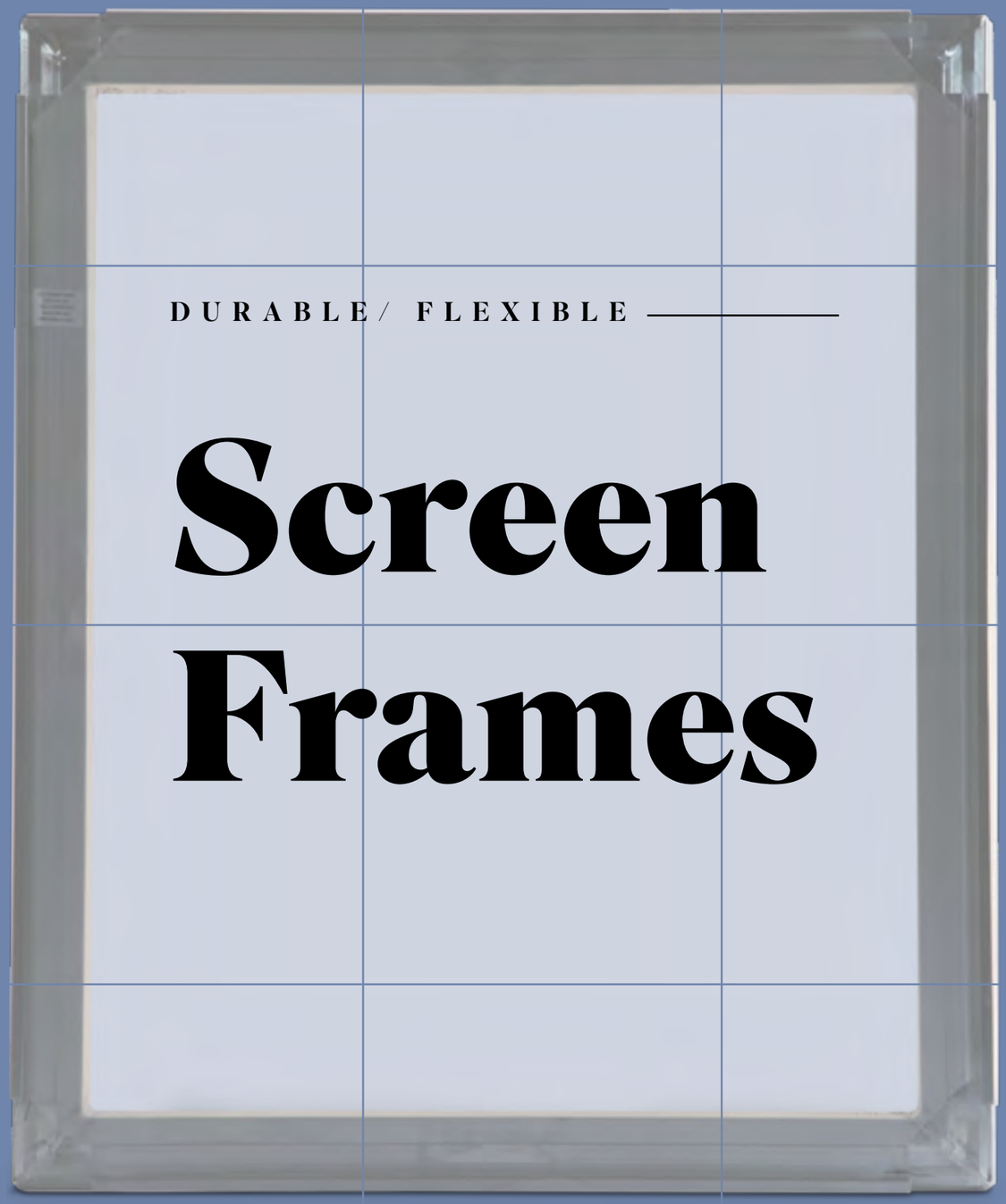
- No adhesive to apply or remove
- No need to ship frames back for re-stretching
- Ship hundreds of mesh panels in a regular static frame box
- Recycle both the mesh and strips after use - nothing goes to a landfill

Cost Savings

- No adhesive
- No potential mesh damage during frame shipment
- Restretch in house in 1-2 minutes
- No bulky stretching equipment

ECO HiTex	ECO Hi-Dro
86/100 White	81/70 White
110/80 White	110/64 White
110/80 Yellow	110/64 Yellow
125/70 White	122/55 WHite
140/64 White	140/48 White
158/64 Yellow	157/48 White
180/55 White	157/48 Yellow
196/55 White	196/48 Yellow
196/55 Yellow	198/40 Yellow
230/48 Yellow	230/40 Yellow
255/40 Yellow	
280/40 Yellow	
305/34 Yellow	305/31 Yellow
305/40 Yellow	

Other mesh counts can be available upon request



Aluminum Frames

(Standard rigid frame profiles)

A strong, sturdy, lightweight frame will enable you to tension screens properly and maintain good print registration throughout the print run. That is why SAATI recommends only the strongest aluminum alloy available, with a consistent corner construction for the life of the frame.

Custom-made to your exact requirements, these quality welded metal frames are much stronger than the classic wood frames, yet are conveniently lightweight and are more corrosion resistant when compared with steel. They are constructed with a surface ground or sandblast finish for excellent adhesion. Choose from a variety of profiles as well as wall thicknesses to meet strength requirements.

Type	Profile Thickness	Wall Thickness	Maximum Recom. OD Length
1	1/2" x 1"	0.125"	18"
2	3/4" x 3/4"	0.125"	18"-24"
3	3/4" x 1 1/2"	0.125"	31"-36"
4	1" x 1"	0.070"	18"-24"
5	1" x 1"	0.125"	24"-30"
6	1" x 1 1/2"	0.125"	30"-36"
7	1" x 2"	0.125"	40"-45"
8	1 1/4" x 1 1/4"	0.095"	26"-30"
9	1 1/4" x 1 1/4"	0.125"	30"-35"
10	1 1/2" x 1 1/2"	0.070"	31"-36"
11	1 1/2" x 1 1/2"	0.095"	36"-40"
12	1 1/2" x 1 1/2"	0.125"	40"-50"
13	1 1/2" x 2"	0.125"	50"-55"
14	1 1/2" x 2 1/2"	0.125"	55"-75"
15	1 1/2" x 3"	0.125"	90"-105"
16	1 1/2" x 4"	0.125"	120"-140"
17	1 3/4" x 5"	0.125"	200" and up
18	2" x 2"	0.125"	60"-70"
19	2" x 3"	0.125"	70"-80"
20	2" x 4"	0.125"	140"-160"
21	2" x 6"	0.125"	240" and up

Newman Roller Frames

(Retensionable)

Retensionable printing frames allow for unlimited retensionability to achieve ultra-high tensions. Whether printing manual or automatic, ultra-high tension levels provide:

- **Higher snap force provides faster squeegee speeds and shorter printing stroke**
- **Less squeegee pressure results in:**
  - **Less ink penetration into textiles for more opaque coverage**
  - **Reduced ink consumption**
  - **Less ink build-up on print side of screens, therefore fewer wipe downs**
  - **No need to re-register**

Textile Printing

The M-ZX™ Manual Textile Frames are engineered to print at 100 N/ cm, increasing productivity by 35%. The standard size Automatic Textile Frames are also engineered to print at 100 N/cm.

High Tolerance Printing (±.001" Over 2')

The Newman Roller Frame is the state-of-the-art choice for close tolerance printing applications like printed circuits, face panels, membrane switches and decals. Its high tension advantages, combined with its linear reproportioning feature (LR), allow on-press adjustments to achieve tolerances of ±.001" over 2 feet!

Specialized polyester fabrics can now be retensioned and work-hardened to tension levels comparable to, or exceeding, those of stainless steel. Thus a more accurate ink transfer is achieved, leading to reduced registration problems and smear.

Additionally, the LR feature is a 1-3 minute adjustment on press to compensate linearly for any print distortion beyond your control.

Nortech Graphics Eco Frames

ECO frames are constructed using 100% recyclable aluminum.

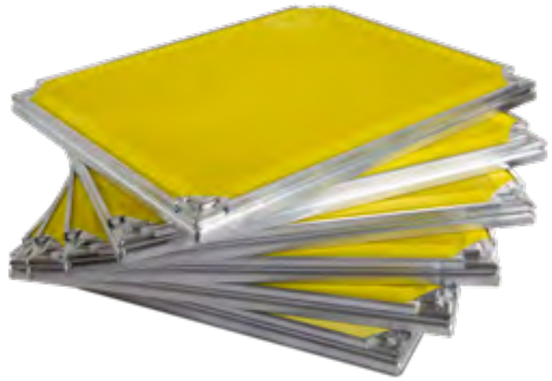
The product line was designed to accommodate a host of needs presented in the screen printing industry.

These Frame provides the ability to be well prepared for whatever complexities the consumer demands. Within two minutes you can change mesh counts and move on to your next job.

ECO Frames allows printers to stretch on demand, with no adhesives that can fail in the reclaim process or harm the environment.

With the ability to store 18 panels in the space of one frame this dramatically reduces both shipping expenses and warehouse storage space.

The ECO Frame is not only a cost-effective and time-saving solution, it is also eco friendly!



Key Product Characteristics

1. The frames are constructed using fully recyclable aluminum
2. The mesh panels are 100% recyclable
3. The mesh is securely attached without adhesives
4. Recycling mesh panels supports a "chemical free" wash booth process
5. Re-stretching on demand eliminates shipping frames back and forth, reducing the carbon footprint

The ECO Frame has quickly gained popularity in the industry for the reasons listed above and many more. It is constructed from a superior grade of aluminum for strength and consistency, and is produced using cutting-edge technology and trade-specific engineering. ECO Frames will continue to offer the consumer a super-efficient product delivering a sustainable item that will save time and money for many years to come.

One Simple Tool

Bring mesh to tension in 1-2 minutes with no floor space requirements

Eino Drawbar Frames

(Retensionable)

The Draw-Bar Frame system is a U-shaped channel with an enclosed fabric locking bar. It is drawn outward with numerous bolts to tension and adjust the screenprinting fabric. The Draw-Bars are manufactured for maximum flexibility and strength to achieve perfect screen tensions throughout the image area. The ease of the locking systems allow for excellent fabric installation and alignment. The ability to adjust onpress misregistration within the frame itself makes it the most accurate system available.

The locking systems commonly used with the Draw-Bar Frames are the Keystone™ Nylon and Top Loading™. The Keystone system utilizes a single tapered nylon rod which slides into the Draw-Bar through the end of the frame. This system is recommended for wire mesh and frames with narrow profiles because of its pretensioning ability.

The Top Loading system uses two round rods which are snapped into the Draw-Bar with a wheel-type insertion tool. This locking system allows for the fabric to be secured simply and evenly. The round nylon rods come in three color-coded diameters to accommodate all mesh counts.

White – High mesh counts
Blue – Standard mesh counts
Black – Low mesh counts, wire mesh

Applications

- **Printed Circuits**
- **Decals**
- **Membrane Switches**
- **Serigraphy**
- **Signage**
- **Face Panels**
- **POP/POS**
- **Glass**
- **Clear Coating**
- **Large Format**

Features

- **Manufactured to custom specifications**
- **±1 N/cm accuracy in tensioning**
- **On-press micro-registration capabilities**
- **Fully welded, guaranteed watertight for life**
- **Stainless steel hardware available**
- **Variety of models to choose from for each application**

Glue-On Draw-Bar

The Glue-On Draw-Bar Frame replaces the standard locking system with one that has a removable plastic strip, allowing the frame to be used over and over again in the stretch-and-glue process. Replacement inserts are available.

Keystone Locking Rods

White

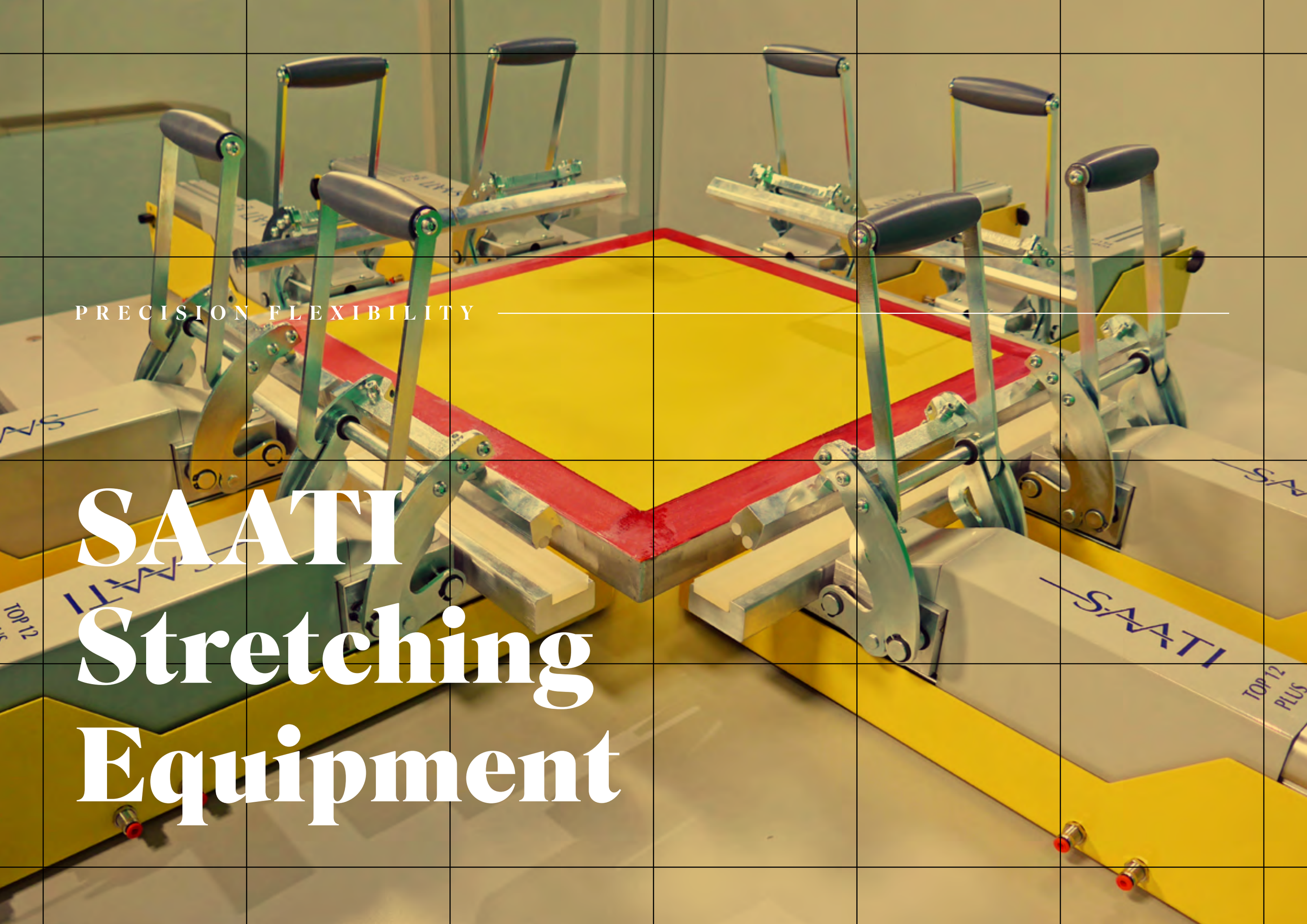
Top-Loading Double Nylon Locking Rods

White – High mesh counts
Blue – Standard mesh counts
Black – Low mesh counts, wire mesh

Glue On Surface

(Detachable Insert)

Draw-Bar Frame, Keystone, and Top Loading are trademarks of Eino/Olec Corporation.



PRECISION FLEXIBILITY

SAATI Stretching Equipment

SAATI Top 12 Plus

INFO

Rapidly Stretch Screen Off-Contact with Durable, Intuitive Stretch Clamps

The SAATI Top 12 Plus Clamp provides optimum pneumatic screen tensioning. This highly advanced yet easy to use system achieves the highest recommended tensions more uniformly, without over-tensioning the corners.

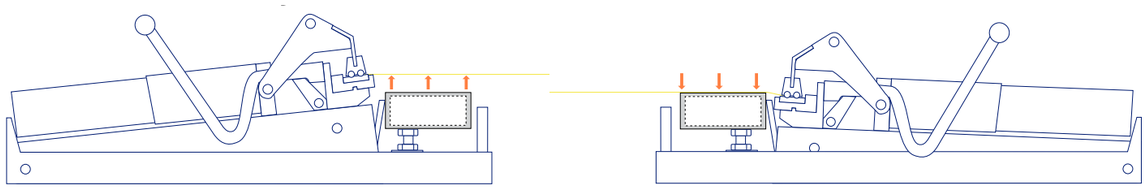
It provides the greatest stability of any system available. Among the most notable features of this premier stretching system is its independent or simultaneous warp/weft tensioning capability (when used with optional control panel).

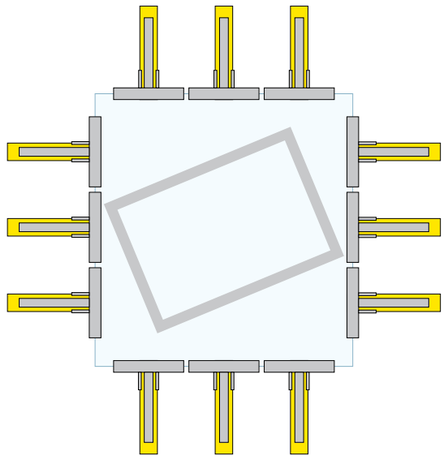
In addition, its unmatched, **patented** "raise/lower" design pre-stresses the frame while simultaneously eliminating mesh contact with the frame surface during stretching.

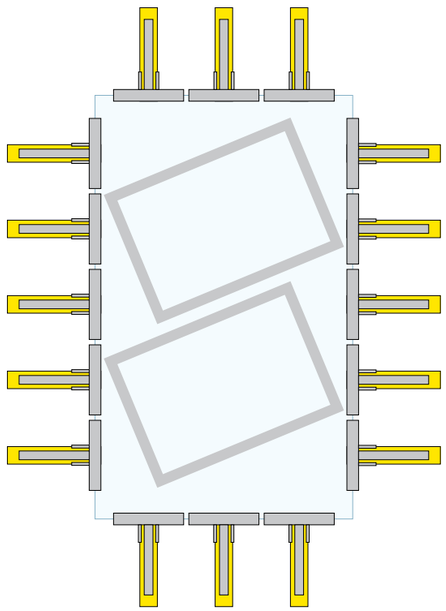
This specialized "non-contact" stretching eliminates any hazardous friction, uneven tensioning or resultant tears caused by distorting the mesh when it comes in contact with rough or uneven frame surfaces.

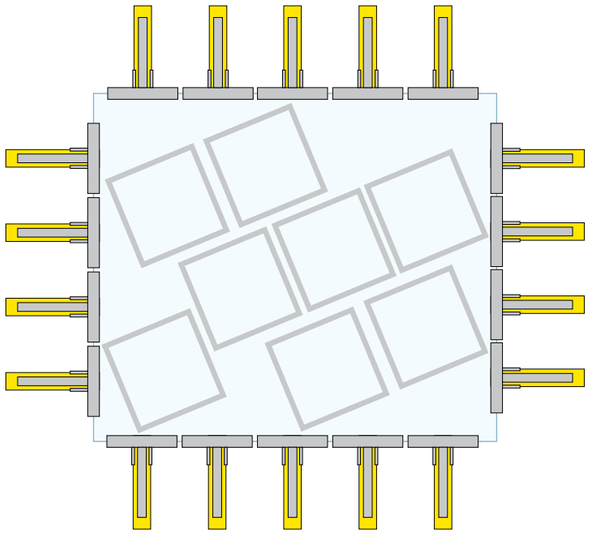
The long 120mm (4.7") stroke per clamp allows for almost 250mm (9.8") of total stretch in each direction. A special pneumatic device lifts the mesh above the frame for stretching, while the clamps hold (and pre-bow) the frame. Once the desired tension is achieved, the mesh is lowered for adhesion to the frame. The constant tension stabilizes mesh quicker than any other tensioning system.

SAATI clamps feature a uniquely designed modular plug-in system for easy set-up in minutes.





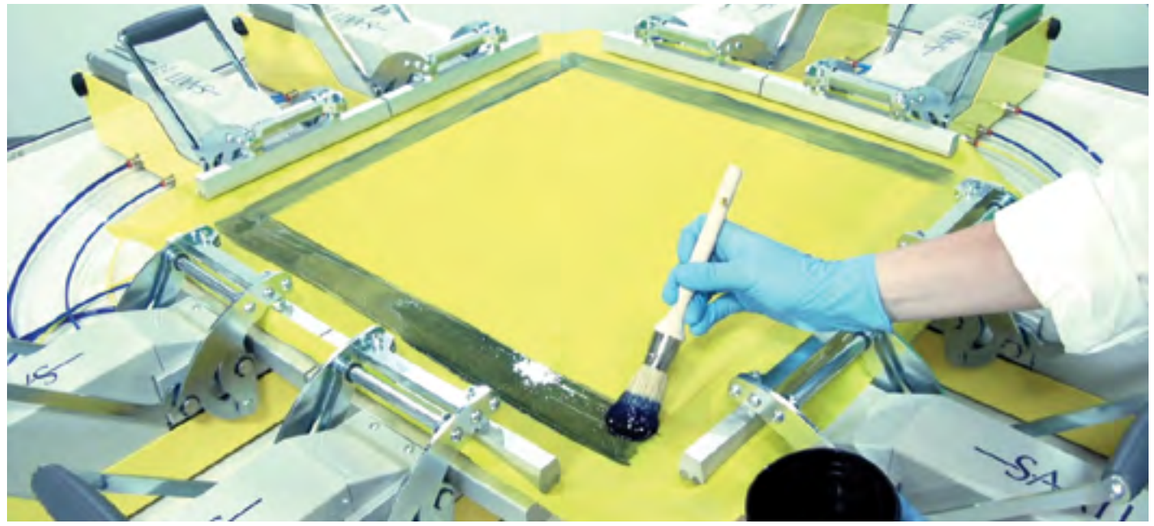




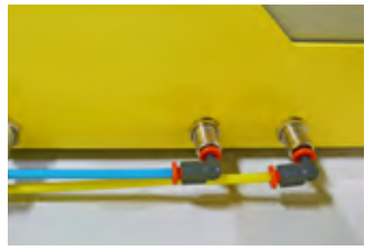
SAATI Top 12 Plus Clamps empower you to stretch all of your screen specs **in house** – as needed

SAATI Top 12 Plus

INFO



SAATI Top 12 Plus Clamp and with SAATI Ultrafix SB Series 2-part polyurethane adhesive.



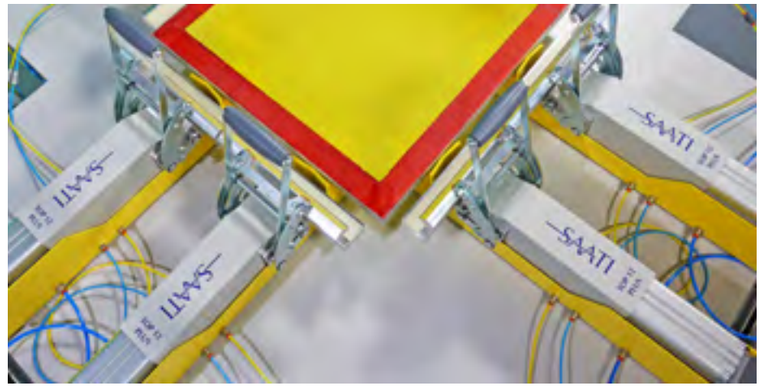
Technical Features

- **CE Certified**
- Internal components extruded in aluminum, exterior in powder coated steel
- Independent pneumatic control for both horizontal axis (via optional control panel)
- Daisy chain connection, no manifold needed
- Adjustable frame support

Benefits

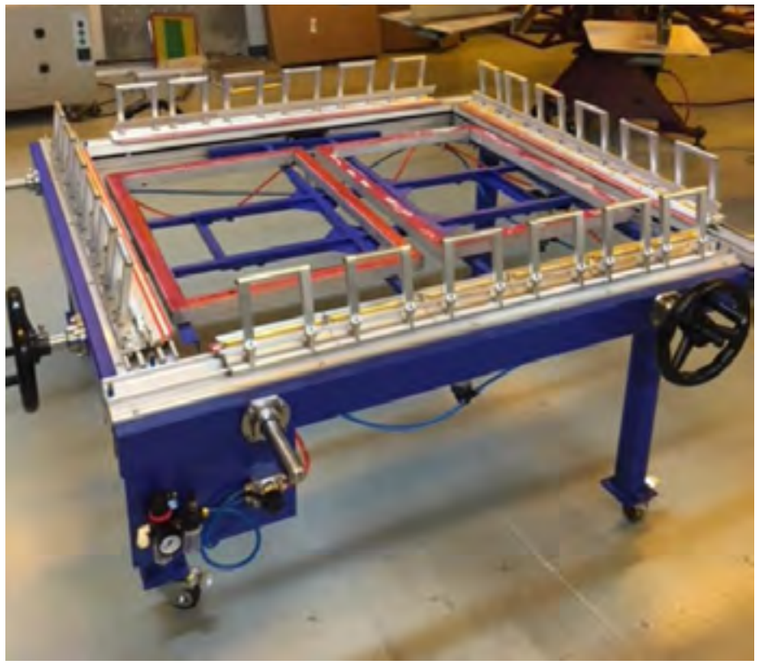
- Higher tension, longer stroke
- Tension from small frames to extremely large frames
- Very high degree of repeatability
- High reliability, easy maintenance

Top 12 Plus Technical Specifications	
Clamp Weight	10kg/22 lbs
Clamp Total Length	652mm/25.7"
Stretching Stroke	120mm/4.7"
Lifting Stroke	15mm/0.2"
Clamp Length to Frame Contact Point	540mm/21.3"
Maximum Tension	60 N/cm
Compressed Air	95-100 PSI (humidity free line required)
Jaw Width	250mm/9.8" (standard) 150mm/5.9" (on request)
Table Size	Frame External Size + 42.5"



SAATI Stretch Manual

The Highest Quality Manual Stretcher



Correct screen tensioning is vital for enhanced registration characteristics, uniform ink deposit, and longer screen and stencil life. The SAATI Stretch Mechanical provides the highest reliability and control of any mechanical stretching system. Among the most notable features are its independent warp/weft tensioning capability and self-standing configuration that eliminates the need for a table or external power requirements.

Characteristics

- Four pairs of 90 angled guiding rails for clamp carriages
- Four stretching devices (hand wheel), one located on each guide rail allowing all 4 sides to adjust tension
- Four support legs with locking casters so the machine can be adjusted easily or relocated easily
- One set of clamp carriages (12-8" and 8-6")
- Four continuously adjustable pneumatic screen supports for frame lift up
- One pneumatic control unit attached to guiding rails for frame lift up

Features

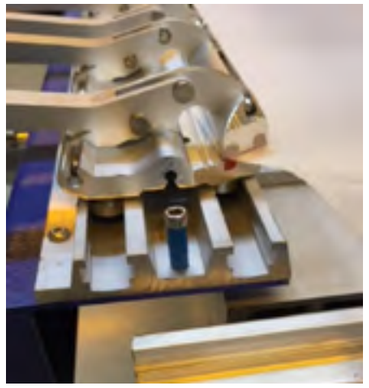
- Stretch one screen up 46 x 50", or two screens 25x36" or smaller
- Optimum Tension Uniformity
- Optimum Tension Capability
- Ongoing Tension Adjustment
- Complete Independent Control of Warp & Weft Tension
- No frame/mesh contact during tensioning
- Tension mesh at an angle relative to the frame

Benefits

- Rapid Screen Set-up
- Multiple Screen Tensioning in one operation
- Longer Screen Life
- Minimal Initial Training
- Easily Adjustable/Expandable
- Specially Designed Non-slip, Laterally Moving Clamps

Specifications

- Weight approximately 280 Kg (613 lbs)
- Minimum floor space required: 52" x 48" (for 50 x 46" set up)



WIDE RANGING

SAATI Adhesives

ULTRAFIX is SAATI's product line for screen printing adhesives. They attach mesh to frame with durable bonds and the highest resistance against screen cleaners and an outstanding adhesion on all different screen frames: both wood and metal. Adhesive removers complete our product range.

Ultrafix CA Series

Spray-activated cyanoacrylate adhesives with aerosol/pump activator

Product	Optimal Mesh Count (in)	Viscosity
Ultrafix CA50	300 - 508	High
Ultrafix CA100	196 - 380	Medium
Ultrafix CA150	17 - 196	Low

- Cures instantly
- Highly resistant to water and solvents
- Provides excellent bonding strength, high shear strength and low peel
- For use on metal and wooden frames

Available in 3 viscosities for all mesh counts

Ultrafix C-Flex™

Rubber-toughened, spray-activated cyanoacrylate adhesive

- More flexible than conventional cyanoacrylate adhesives
- Flexibility reduces damage to mesh during printing and injury to workers during handling
- Cures instantly
- Highly resistant to water and solvents
- Provides excellent bonding strength and high shear strength, yet easy to peel
- For use on wood and metal frames
- Recommended for mesh counts 305-508

Available in 16-ounce containers.

Ultrafix CA Activator

Cures cyanoacrylate adhesive instantly

- Available in two types of dispensers: aerosol and pump
- For use with all Ultrafix CA series and C-Flex

Activator A (aerosol) is available in 10-ounce cans.
Activator P (pump) is available in 8-oz and 1-gal containers.

Ultrafix CA Debonder

Removes cyanoacrylate adhesives

- Sold with a pump dispenser
- Softens/dissolves Ultrafix CA series and C-Flex

Available in 8-ounce containers.

Ultrafix Remover

Removes Ultrafix adhesives

- Convenient gel or liquid form
- Effective on urethane-based and cyanoacrylate adhesives

Gel available in quart and 1-gallon containers.
Liquid available in 1 quart, 1, 5 and 50 gal containers

Ultrafix SB Plus Series

Fast-curing, 2-part, urethane-based adhesive with superior resistance to aggressive solvents

Ultrafix SB4 Plus

- Extraordinary initial adhesion allows to glue screen mesh also on untreated aluminum frames (sleek)
- Extraordinary initial adhesion allows screens to be removed from the stretching system only minutes after applying
- Superior resistance to solvents and heat; ideal in automatic cleaning machine
- Ultrafix SB4 Plus is low viscosity adhesive for medium to fine fabrics mesh-counts.

Ultrafix SB5 Plus

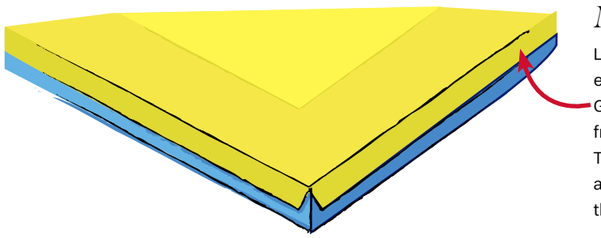
- Extraordinary initial adhesion allows to glue screen mesh also on untreated aluminum frames (sleek)
- Extraordinary initial adhesion allows screens to be removed from the stretching system only minutes after applying
- Superior resistance to solvents and heat; ideal in automatic cleaning machine
- Ultrafix SB4 Plus is low viscosity adhesive for medium to fine fabrics mesh-counts.

Description	SB4 Plus	SB5 Plus
Viscosity	Low	Medium
Color	Green	Red
For Mesh Counts	>55	>55
Pot Life	90-120 min	30-50 min
Mixing Ratio	5 parts : 1 part catalyst	5 parts : 1 part catalyst
Why Choose This Product	Can be used on untreated aluminum frames (sleek). Suggested for automatic machines. Longer pot life	Can be used on untreated aluminum frames (sleek). Suggested for automatic machines.

To help you determine which type of frame adhesive is best for your application, the following comparison outlines the differences between cyanoacrylate systems and two-part systems

	CA Series	SB Series
Ease of Application	No mixing required; spray-activated	Requires mixing, and once mixed, is subject to a limited pot life
Drying Time	Instant (<30 seconds)	Approximately 5-15 Minutes
Durability	Slightly less than a two-part	Best of all Adhesive Systems

Tech Tip



Maximize Screen Life

Leave strips of extra mesh outside the frame edge after stretching.
Glue the flaps of extra material to side of frame then brush on Finish WU2.
This polyurethane topcoat prevents solvent attack and loss of adhesion, and enhances the curing time of Finish SB Series adhesives

Avoid Adhesive Failure

1. You must make sure the frame-gluing surface is not too smooth. Sometimes a rough (80 grit) sandpaper is needed to give the frame some "tooth" or area that the adhesive can grab;
2. Your frames should be clean of old fabric, ink, oils, and excessive adhesive residue. Adhesive-to-adhesive bonds are not as strong as adhesive-to-metal or adhesive-to-wood bonds. Frames can be cleaned with a debonder solvent or a solvent like acetone;
3. Adhesives proper selection will ensure that the they will flow through the fabric and provide a good bond by bridging the gap between the fabric and the frame;
4. When using two-part adhesives that need to be mixed it is important to follow the manufacturer's recommendation for the proper mixing ratio;
5. When you activate a cyanoacrylate adhesive with either the pump or aerosol type activator (this speeds drying time) keep in mind that it only takes a light misting to start the curing process. If you spray too much activator on the adhesive, you can cause the adhesive to turn white or "bloom." This can affect the adhesive's strength;
6. You only need a thin coating of adhesive to adhere the fabric to the frame. If the adhesive layer is too thick, the activator may only cure the top portion, while the portion that is in contact with the frame is still wet and may not cure for a few more minutes. If you feel that you need a thick layer of adhesive for solvent resistance, add a second layer after the first layer is fully cured;
7. Check to make sure your frames are not warped, and that the face of the frames are completely level. If your frame does not lie flat, this may cause the fabric to remain raised off affected areas of the frame surface after you pass these spots with the adhesive applicator.

Pallet Adhesives

Ultrafix PT Series

Spreadable Liquid Textile Pallet Adhesive

- Water-based pressure-sensitive adhesive
- High tack level holds fleece & tees
- Flash safe & non-staining
- Non-flammable & no VOC's

Premium Mist Pallet Adhesive

For use with standard garments. Available in 13 oz. containers

Dri-Web Pallet Adhesive

For use with fleece, heavy-weight sweatshirts and jackets

Available in 13 oz. containers

Premium Flash Pallet Adhesive

For flash-curing techniques. Available in 14 oz. containers

Poly Squeegee (Scrapers)

Available in 2-inch and 6-inch sizes

INTELLIGENT CHEMISTRY

SAATI Mesh Prep & Degreaser

SAATI Mesh Preparation Chemicals

The SAATI product range comprises a full suite of products to enable screen preparation and recycling. SAATI mesh preparation products are easy to use and provide consistent results with any mesh and economy of use.

Our Direct Prep series is specially designed to clean and prepare your screen mesh surface. They improve film lamination and the coating and bonding of direct photo-emulsions, resulting in optimum stencil performance and durability.

Direct Prep goes a step beyond conventional degreasers and actually treat the fabric surface with a wetting agent, making the screen more "wettable" than an untreated, or simply degreased screen.

Screens treated can hold an unbroken sheet of water on their surface when rinsing for completely uniform stencil adhesion. They can be used on any mesh count.

Direct Prep 1

Ready-to-use, one-step mesh micro-abrader, wetting agent and degreaser

- Prepares new monofilament synthetic fabric
- Does not clog mesh openings
- Dyed colour ensures complete rinse from mesh
- Highly recommended for use with capillary films

Direct Prep 2

INFO

Combination Degreaser/Wetting Agent

- Ready-to-use liquid wetting agent and degreaser
- Powerful detergent and degreaser in one step restores mesh after reclaiming
- Blue color

Direct Prep 3

Concentrated Degreaser/Wetting Agent

- 10 to 1 concentrated liquid wetting agent and degreaser
- Concentrated formula for economy
- 100% Biodegradable
- Brown color
- Also available in a Low Foam formula for machine use

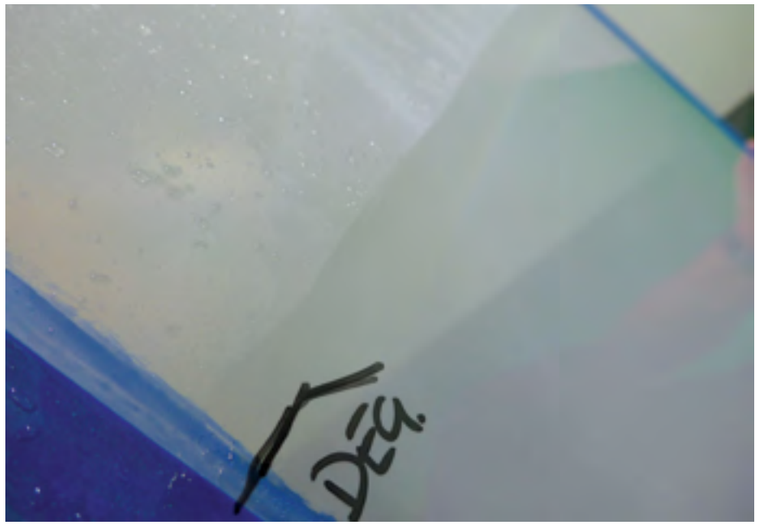
Direct Prep 4

Ready-to-use, detergent-based degreaser

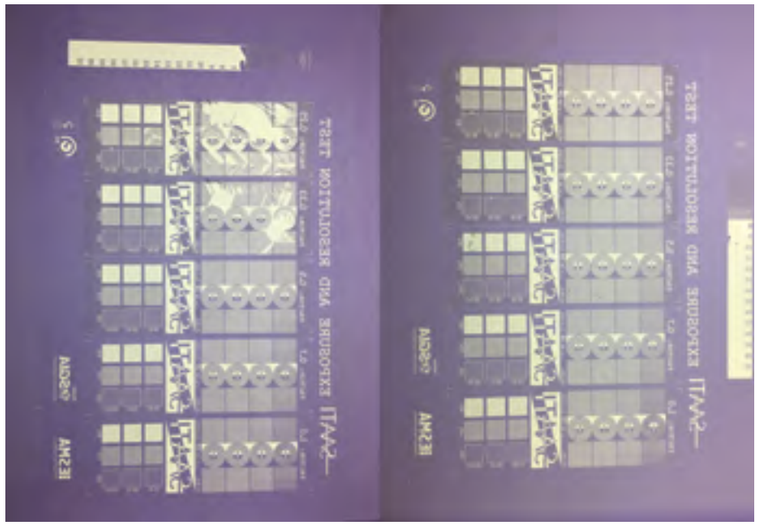
- Use in spray applications
- Recommended for use with diazo and dual-cure emulsions
- Can also be used as a concentrated hard surface cleaner

Description	Direct Prep 1	Direct Prep 2	Direct Prep 3
Viscosity	High	Low	Low
Color	Green	Green	Brown
Mixing Ratio	Ready to use	Ready to use	10 parts : 1 part water
Why Choose This Product	Paste suitable for low mesh count.	Universal use. Degreases and cleans.	100% Biodegradable. Concentrated. Suggested for Pure Photopolymer emulsions

Non-degreased portion with streaky surface, leading to un-even emulsion on mesh adhesion and final thickness



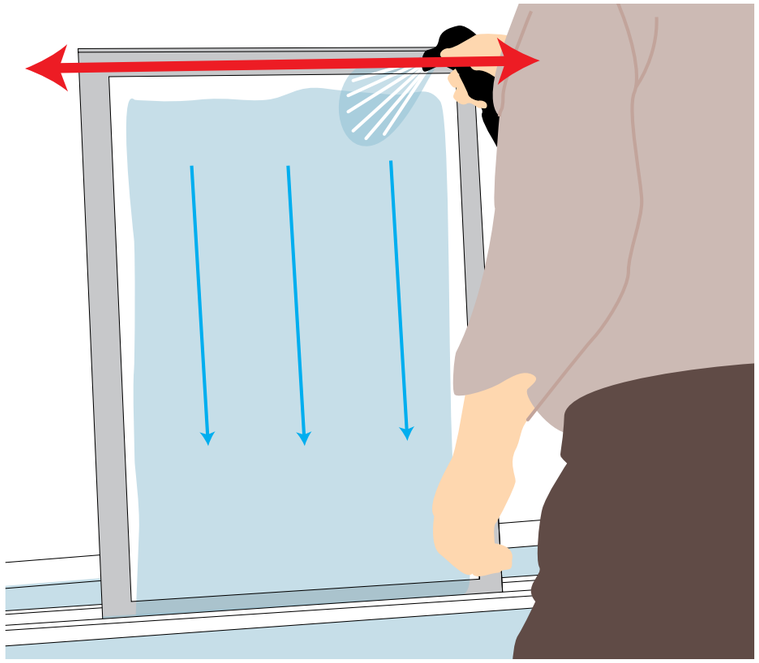
Degreased portion: even hydrophilic surface that improves emulsion adhesion



Using SAATI Mesh Preps & Degreasers improves stencil quality in every way, but it is most apparent when the stencil is accidentally underexposed. In both photos above, the left side is not degreased, and the right side is properly degreased, which imbues the mesh with a smooth, even hydrophilic property. The stencil on the degreased portion adheres better and would endure for longer on press, even with the under-exposure apparent in the most filtered steps of the Exposure Calculator Test.

Tech Tip

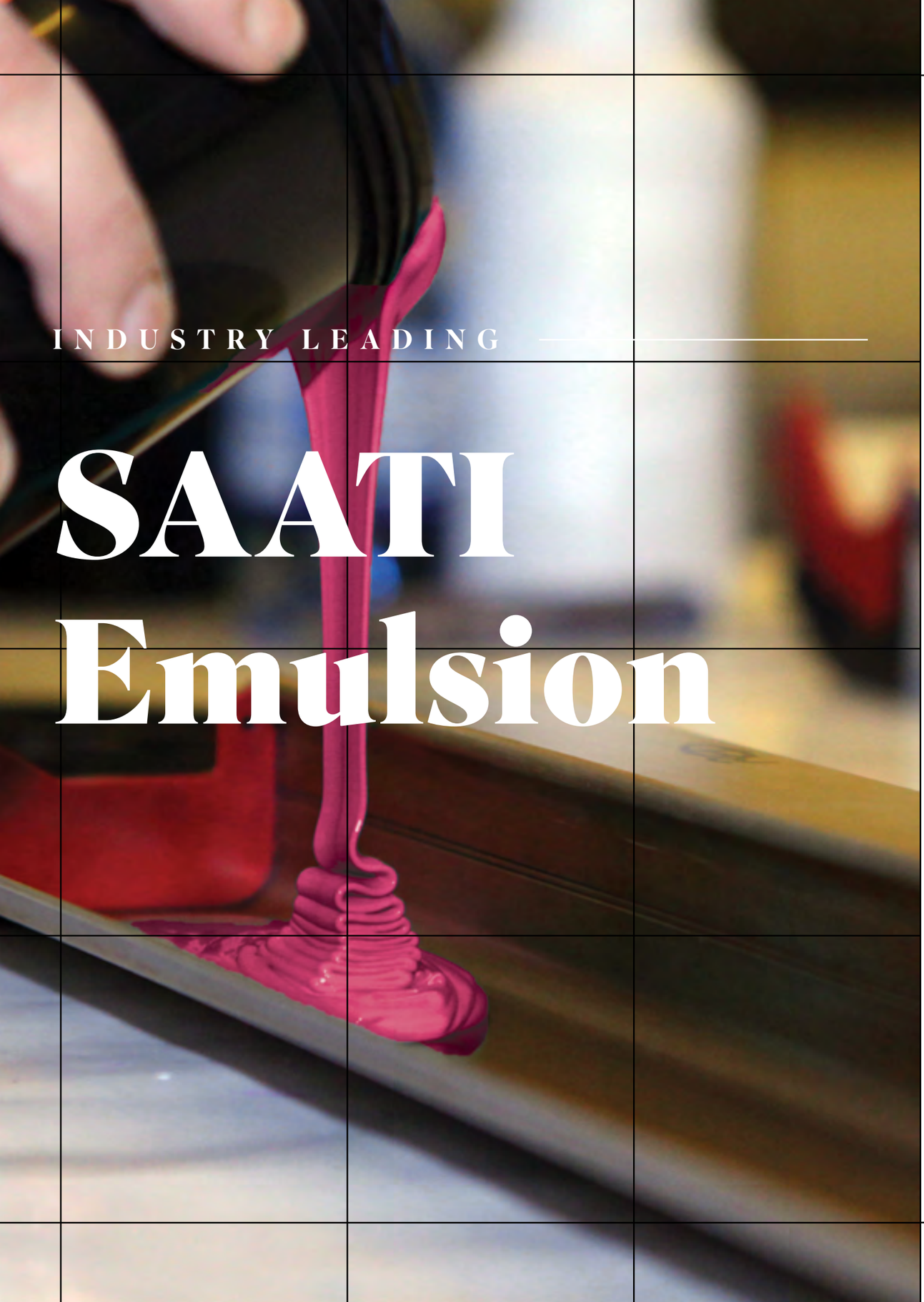
Correct Direct Prep Rinsing Technique



Following the application and wash-off of SAATI Direct Prep products, the final rinse technique is critical to preparing an optimal coating surface.

To correctly rinse a pretreated screen, flood it with a garden hose at the top, pointing the nozzle downward and rinse horizontally across the top of the screen, to create an unbroken cascade effect.

This technique results in a uniformly wet surface that will dry evenly and later coat evenly. If you notice disruptions in the flow of water down the fabric then you have identified remaining contaminants on the mesh surface that must be removed before they can compromise coating quality or create fisheyes in a coated screen.



INDUSTRY LEADING

SAATI Emulsion

The SAATIgraf range of emulsions encompasses pure photopolymer, dual-cure and diazo technologies. SAATIgraf emulsions feature wide latitude and yield high resolution stencils with fewer pinholes. The high solids content and medium viscosity of SAATIgraf emulsions produce low Rz stencils with good print definition on any mesh count.

All SAATIgraf emulsions are easy to reclaim, non-hazardous and totally biodegradable.

SAATIgraf emulsions are available in 1-quart, 1-gallon, 5-gallon and 50-gallon containers.

SAATIgraf Emulsion

World Class Range of Emulsions for All Types of Graphics Printing

Diazo-Based

Grafic DS2

Our most affordable graphics emulsion

- Diazo emulsion resistant to UV-cured, solvent-based and plastisol ink
- Fast exposing with wide exposure latitude
- Easy to reclaim
- Very economical and simple to use

Dual-Cure

Grafic HU

Our most versatile emulsion

- Blue or red dual-cure emulsion
- Resistant to UV-cured, plastisol, solvent-based and water-based inks
- Controlled particle size results in excellent print definition on any mesh
- Upon drying, lacks the tackiness typical of dual-cure emulsion
- Grafic HU red is also available

Grafic HS

Our most affordable dual-cure

- Blue Dual-Cure emulsion
- Resistant to UV-cured, plastisol, and solvent-based ink

Grafic HSS

Dual-Cure With Ultimate Solvent Resistance

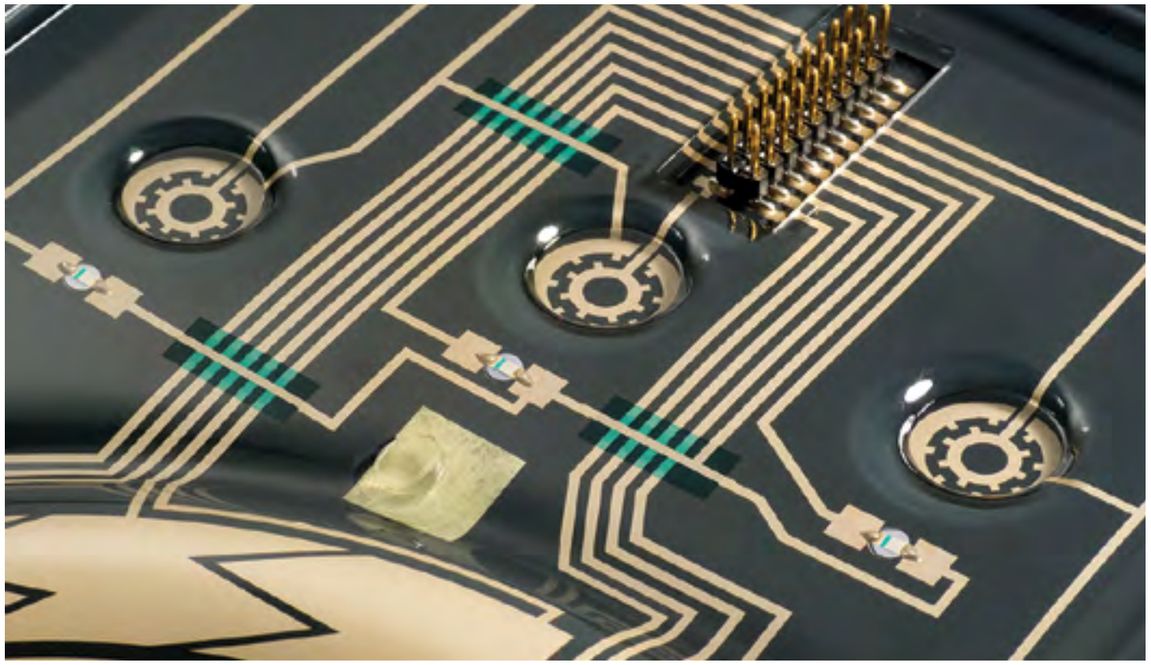
- Use with NMP and DMAC inks
- Very easy to reclaim

SAATIgraf HSX Blue

INFO

Dual-Cure For High-Tech Electronics & Industrial Printing Including Touch Screen, Solar Cell, and Ceramic Capacitor

- Blue dualcure emulsion
- Dual-cure direct emulsion with very high solvent resistance for industrial printing
- Extremely high resolution and definition
- Designed for use on stainless steel and synthetic mesh
- 37% solids content



Pure Photopolymer

Grafic PU

Versatile Photopolymer Graphics Emulsion

- Blue pure photopolymer emulsion
- Resistant to UV-cured, plastisol and solvent-based ink. Water resistant when post-exposed
- High solids content and medium viscosity for excellent print definition on any mesh
- Easy to reclaim
- Pre-sensitized with no mixing required, long shelf life with consistent performance
- SBQ technology, exposes 4 times faster than two part emulsions and leaves no diazo stains
- Low friction stencil surface for improved durability when used with abrasive inks

Grafic PS

Versatile Photopolymer Emulsion To Replace Dual-Cure

- Blue pure photopolymer emulsion
- Resistant to UV-cured, plastisol and solvent-based ink.
- Water resistant when post-exposed
- High solids content and medium viscosity for excellent print definition on any mesh
- Exposes 4 times faster than diazo or dualcure emulsions with no mixing required
- Very resistant to solvent and very easy to reclaim
- Make dual-cure quality stencils with 1-part emulsion, and no mixing required, long shelf life & no diazo stains

Grafic PS1 Red

Graphics photopolymer emulsion

- Red pure photopolymer emulsion
- Resistant to UV-cured, plastisol and solvent-based ink
- Exposes three times faster than diazo or dualcure emulsions with no mixing required
- Very easy to reclaim
- Very solvent resistant
- 1-part emulsion replaces 2-part solvent-resistant emulsions with no mixing, no stains, and long shelf life

Grafic PS2 Blue

Graphics photopolymer emulsion

- Blue pure photopolymer emulsion
- Resistant to UV-cured, plastisol and solvent-based ink
- Exposes three times faster than diazo or dualcure emulsions with no mixing required
- Very easy to reclaim
- Very solvent resistant
- 1-part emulsion replaces 2-part solvent-resistant emulsions with no mixing, no stains, and long shelf life

Computer to Screen

SAATIgraf CTS7

Fast Exposing SBQ Photo Emulsion Designed For Use With Computer To Screen

- Blue, one part pure photopolymer emulsion
- Highly solvent-resistant and super easy reclaiming
- Designed for use with all solvent-based and UV-Cured inks
- Exposes 4 times faster than diazo or dual-cure emulsions
- Super easy to reclaim, no pressure washer required
- High resolution and definition for a wide exposure latitude
- 38% solids & medium viscosity for optimum coating quality & stencil performance

SAATIgraf CTS10

Fast Exposing SBQ Photo Emulsion Designed For Use With Computer To Screen

- Blue, one part pure photopolymer emulsion
- Highly solvent-resistant and super easy reclaiming
- Designed for use with all solvent-based and UV-Cured inks
- Exposes 8 times faster than diazo or dual-cure emulsions
- Super easy to reclaim, no pressure washer required
- High resolution and definition for a wide exposure latitude
- 38% solids & medium viscosity for optimum coating quality & stencil performance

SAATIgraf HS8

Fast exposing high resolution dual-cure emulsion designed for industrial printing specifically with LTS exposure

- Blue/green dual-cure emulsion
- Maximum resolution and good edge definition for industrial printing applications
- Suitable for use with both synthetic and stainless steel wiremesh
- Excellent resistance to solvent-based, UV-Cured, two-part, and plastisol inks
- Fast exposure (for a dual-cure) with wide exposure latitude and easy developing
- Very good solvent resistance
- Designed specifically for use with SAATI LTS laser direct exposure system to maximize stencil quality

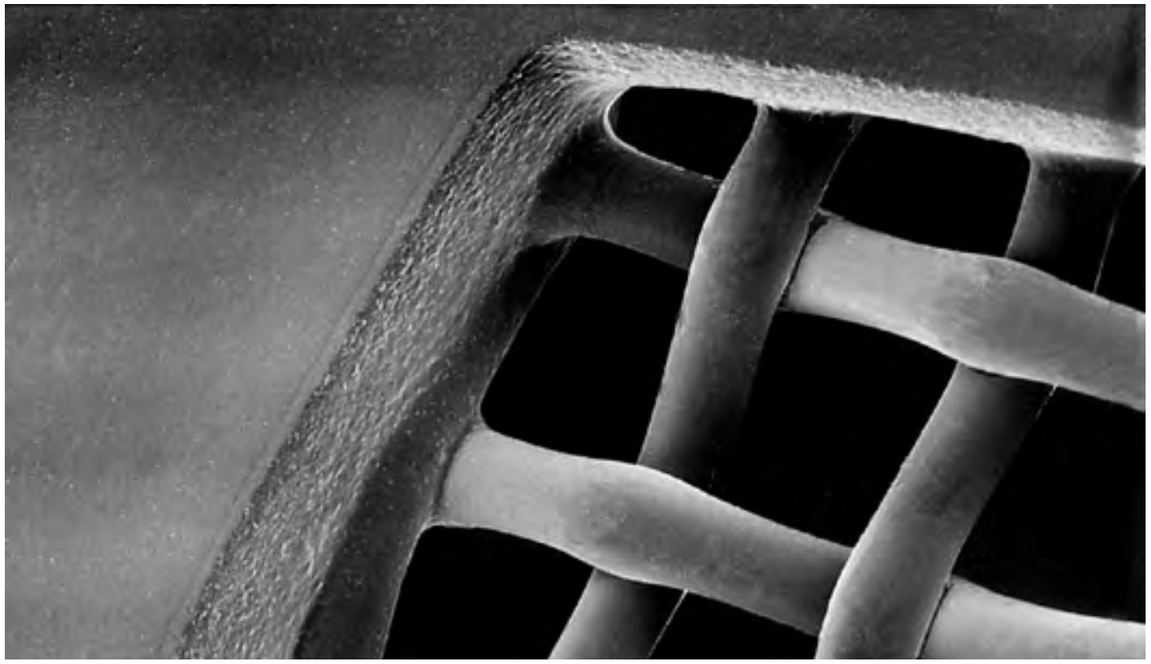
SAATItex Emulsion

The World Class Range of Emulsions for Apparel and Other Textile Printing

SAATItex emulsions are designed specifically for the garment and textile industries. The SAATItex range encompasses pure photopolymer, dual-cure, diazo and our unique triple-cure technologies. SAATItex emulsions feature wide latitude and yield high-resolution stencils with fewer pinholes. The high solids content and medium viscosity of SAATItex emulsions give good coverage on all mesh counts.

All SAATItex emulsions are non-hazardous and biodegradable.

SAATItex emulsions are available in 1-quart, 1-gallon, 5-gallon and 50-gallon containers.



Diazo-Based

Textil DW

High-Resolution Water & Solvent Resistant Dual-Cure Emulsion for Multi-Purpose Textile Printing

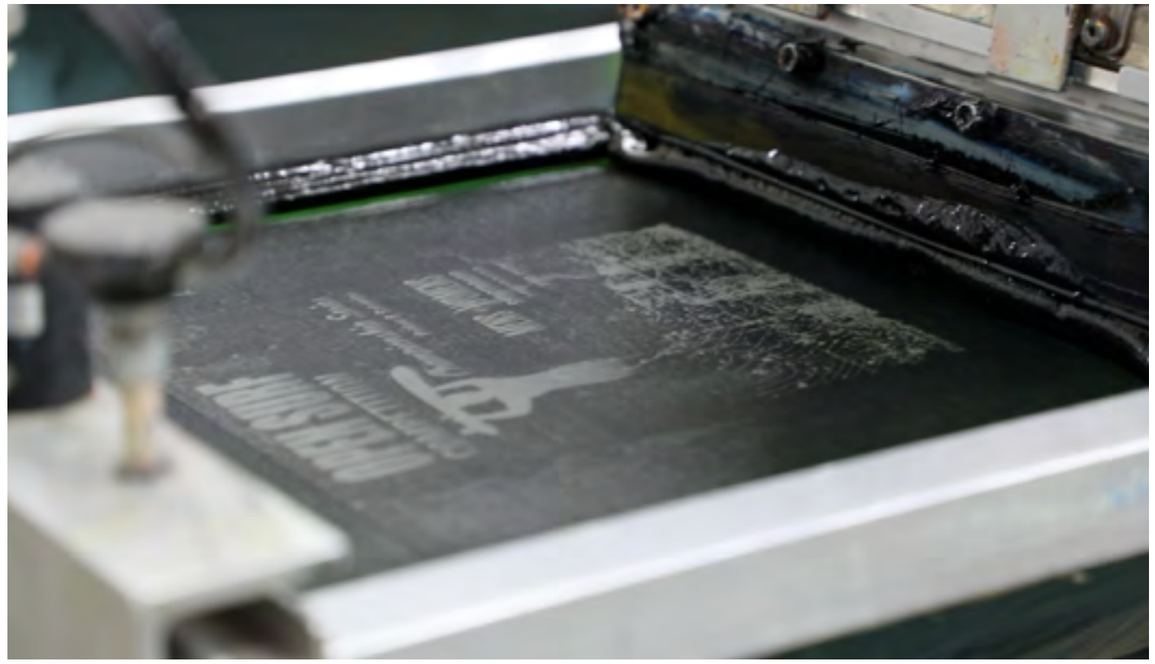
- High resolution dual-cure that's resistant to water-based & plastisol inks
- High solids 43% and medium viscosity for easy coating on wide range of mesh counts

Triple-Cure

Textil HT

Produces permanent, waterproof stencils for textile printing

- Blue high-resolution emulsion designed for textile printing applications
- Its unique triple-cure technology results in outstanding mechanical resistance and durability
- Not reclaimable after catalyzing with SAATI Fixer 9



Pure Photopolymer

Textil PV

The durable and fast garment emulsion

- Red pure photopolymer emulsion designed for general garment printing applications
- Requires no mixing
- Exposes approximately eight-times faster than diazo or dual-cure emulsion
- Resistant to plastisol ink, abrasion and high humidity
- Water resistant when post-exposed

Textil PHW

Pure photopolymer emulsion for thick stencil production

- High solids content (48%) and viscosity can produce 3000 micron stencil thickness with simple coating procedure.
- • Exposes 10 times faster than diazo or dual-cure emulsions
- • Resistant to plastisol inks, water and high humidity
- • Optimum elasticity

Hybrid Photopolymer

Textil PHU

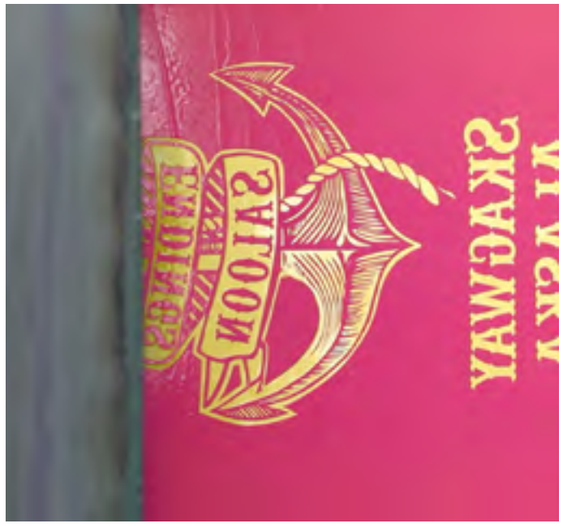
All Purpose Solvent AND Water Resistant Photoemulsion

- One-part, pure photopolymer emulsion, no mixing required
- 45% solids content and medium viscosity, easy coating on wide range of mesh
- Fast exposure, approximately 8x faster than typical two part emulsion
- Can be used with plastisol, water-based and discharge inks
- Solvent resistant and easy to reclaim
- Available in red, blue and orange
- Suitable for Direct Exposure Computer-to-Screen
- Can be used with Diazo 11 when extra sharpness is required for high resolution

SAATItex PHU2

All Purpose Solvent AND Water Resistant Photoemulsion

- Red one-part, pure photopolymer emulsion, no mixing required
- 47% solids content and medium viscosity, easy coating on wide range of mesh
- Fast exposure, approximately 4x faster than typical two part emulsion
- Can be used with plastisol, water-based and discharge inks
- Solvent resistant and easy to reclaim
- Suitable for Direct Exposure Computer-to-Screen
- Can be used with Diazo 11 when extra sharpness is required for high resolution



SAATItex PHU-HR

INFO

High Resolution Solvent AND Water Resistant Photoemulsion

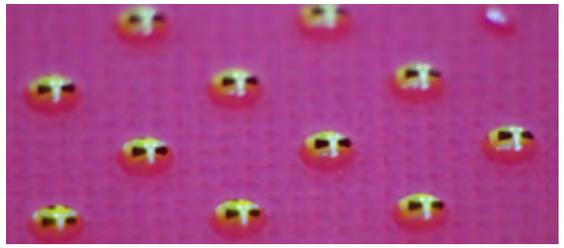
- Red, one part pure photopolymer emulsion with universal ink resistance
- SBQ technology, exposes 6 times faster than two part emulsions and leaves no diazo stains
- Easy Reclaim
- 42% solids and high viscosity for easy coating and good bridging on all mesh counts
- Universally resistant, can be used with solvent-based, UV, and water based inks, yet is easy to reclaim
- Recommended for use with discharge inks as is, without using diazo or catalyst for stencil hardening
- **2025 Printing United Alliance Pinnacle Product Award Winner**

SAATItex PHU-MT

INFO

All Purpose Solvent AND Water Resistant Photoemulsion

- Blue one part pure photopolymer emulsion with universal ink resistance
- Exposes 8X faster than typical two part emulsions
- 45% solids and high viscosity for easy coating and good bridging on all mesh counts
- Universally resistant, can be used with solvent based, UV, and water based inks, yet is easy to reclaim
- Recommended for use with discharge inks as is, without using diazo or catalyst for stencil hardening
- Can be used with Diazo 11 when extra sharpnessis required for high resolution



SAATItex PHU-HRX

High Resolution Solvent AND Water Resistant Photoemulsion

- Red one part pure photopolymer emulsion with universal ink resistance
- SBQ technology, exposes 6 times faster than two part emulsions and leaves no diazo stains
- Easy Reclaim
- 48% solids and high viscosity for easy coating and good bridging on all mesh counts
- Universally resistant, can be used with solvent based, UV, and water based inks, yet is easy to reclaim
- Recommended for use with discharge inks as is, without using diazo or catalyst for stencil hardening
- Designed to reclaim easily and for use with all automatic reclaim equipment as well as manual use

SAATItex PHU-HV

INFO

High Density Garment Printing with HSA water-based or plastisol inks, as well as glitter/crystalina printing through very coarse mesh

- One part pure photopolymer emulsion resistant to water-based and plastisol inks
- High solids content and viscosity enable easy production of stencils for high density printing, as well as being able to cover very coarse mesh
- High solids content (51%) and high viscosity 70,000 cPs for production of 1,000 micron thick stencils with simple wet on wet coating process
- Exposes 10x faster than typical two-part emulsions
- Solvent & water resistant and designed for use with HSA water-based inks, as well as plastisol & UV

Computer to Screen

SAATItex PHU-DLE

Emulsion for Garment, Textile And Flag Printing

Specifically Designed for DLE Systems like SAATI LTS

- Red one-part photopolymer emulsion with universal ink resistance
- 10x exposure speed for rapid imaging on wide range of mesh counts
- 43% solids content & high viscosity for easy coating on wide range of mesh counts
- Fast exposing with wide latitude for high resolution stencils
- Resistant to water-base & discharge inks, simply post-expose for maximum durability, and no need for chemical hardener
- Designed to reclaim easily and for use with all automatic reclaim equipment as well as manual use

Stencil Hardener

SAATI Fixer 9

Increases Your Stencil's Water Resistance For More Impressions Per Screen

- Works as a catalyst with triple-cure emulsions Textil HT, Vitrum HT and Ceramic HT to make a permanent, solvent-resistant and waterproof stencil
- Works as a emulsion hardener with water-resistant emulsions such as Grafic HU and Textil DW to make a more durable stencil

Fixer 9 is available in 1-quart and 1-gallon containers.

SAATIvit Emulsion

The World Class Range of Emulsions for Printing on All Types of Glass

Vitrum is SAATI's line of high-quality emulsions for screen-printing on a broad range of glass products. From glass containers and bottles to appliances and automotive glass, Vitrum emulsions satisfy the most demanding expectations for print definition, stencil resolution, solvent resistance and durability.

The Vitrum range encompasses dual-cure and our unique triple-cure technologies.

All Vitrum emulsions are non-hazardous and biodegradable. SAATIvit emulsions are available in 1-quart, 1-gallon, 5-gallon and 50-gallon containers.

Vitrum HHU Blue

Maximum Resistance to Glass Printing Inks

- Blue, Pure Photopolymer emulsion
- Very high solids and high viscosity for optimum control of stencil thickness
- Water, solvent and abrasion resistant

SAATIvit CTS4

Computer to Screen Emulsion for Glass Printing

- Blue Pure Photopolymer emulsion
- Water, solvent and abrasion resistant
- Extremely fast exposing for optimum productivity of CtS
- Approximately 30 times faster than dual-cure or diazo

SAATI STENCIL FILM

World Class Direct & Indirect Film for Stencil Making

SAATI

SAATI offers a complete range of capillary films. Thickness ranges from 12 microns up to 700 microns and allows high quality film-based stencils to be used for most major printing applications. SCF photopolymer films process fast for maximum productivity.

They offer 100% consistent performance and are unaffected by storage or processing in less than ideal climatic conditions. thik film exposes fast and produces robust stencils. Ideal performance for textile and electronics printing applications that require very thick and well-controlled ink deposits.

SCF Capillary Film

Fast exposing solvent and water resistant capillary film. Exposes three times faster than comparable diazo film. Long shelf life. Easy to reclaim. Can be used with solvent based, UV-Cured, plastisol and water based inks. Post exposure recommended for use with water based inks.

Characteristics

- **Fast exposing (3x) SBQ-based capillary film for textile printing**
- **Solvent & water resistant (with post-exposure) and can also be used with discharge inks**
- **Easy reclaim**
- **Color coded by thickness**
- **Available in thicknesses of 16, 20, 25, 30, 40 & 50 microns**

DCF Capillary Film

SAATI DCF Series Capillary Film is designed for use with all solvent based inks. It varies in color depending on micron thickness and comes in six different thicknesses.

Characteristics

- **Fully solvent resistant for use with all solvent based & UV-cured inks**
- **High resolution**
- **Easy reclaim**
- **Color coded by thickness**
- **Available in thicknesses of 15, 20, 25, 30, 35 and 50 microns**

DCF Supersharp

DCF Super Sharp stencil film represents the result of years of work to create the finest direct stencil film available. DCF Super Sharp was developed to meet the needs of the industrial printing market, specifically manufacturers of touch screen displays and solar cells, as well as membrane switches and graphic overlays. This film provides wide exposure latitude with the sharpest edge definition, and boasts exceptional resistance to the aggressive solvents used during on-press cleaning.

Characteristics

- Red capillary film specially designed for the most demanding industrial printing applications
- Highly solvent resistant
- Enhanced sharpness for maximum image resolution and print definition
- Designed for use in patterning of functional materials and industrial graphics printing
- Can be used with stainless steel and synthetic mesh
- Available in thickness of 15, 20, 25 and 40 microns

SAATI Thik Film

INFO

Direct Film for High Density Stencils

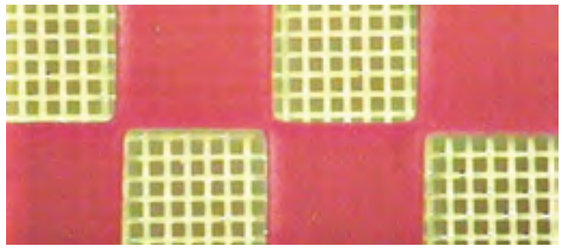
Thik Film is a presensitized high-density capillary film now offered by SAATI, the leader in emulsion technology. Thik film features a specially formulated red photopolymer emulsion that ensures a faster exposure, consistent stencil thickness, and excellent printing results every time. Thik Film is durable and a great time saver, enabling the production of thick stencils in one easy process.

Features

- Easy to handle
- High resolution
- Minimal exposure time
- Ideal for ceramics, electronics and textile applications
- Excellent durability
- Time saver in screen preparation
- Extended shelf life
- Great print quality
- Perfect for high-density printing

Thik Film is available in thicknesses of 100, 200, 300, 400 and 700 microns.

All thicknesses are available in sheets of 8.5in x 14in (22cm x 36cm), 14in x 17in (36cm x 43cm), and custom cut sizes



Thik Film In Detail

- Red photopolymer emulsion coated on easy handling photobase paper support.
- Can be applied as capillary film and then back-coated with emulsion as a separate step.
- Alternatively, mounts in a single step by emulsion lamination.
- Easy-release paper provides anti-stick surface.
- Minimizes adhesion to glass during exposure and resists pick-up of flashed ink films.
- Can be used with Thik back-coating emulsion
- Blue emulsion serves as indicator of correct exposure

Total Stencil Thickness					
Product	**Mounting**	**30PW260 (390 µm)**	**61PW120 (180 µm)**	**81PW70 (90 µm)**	**110PW80 (110 µm)**
Thik 100	Capillary	430	230	150	170
	Lamination	450	245	170	185
Thik 200	Capillary	530	330	250	270
	Lamination	550	345	270	285
Thik 300	Capillary	630	430	350	370
	Lamination	650	445	370	385
Thik 400	Capillary	730	530	450	470
	Lamination	750	545	470	485

Thik Backing Emulsion

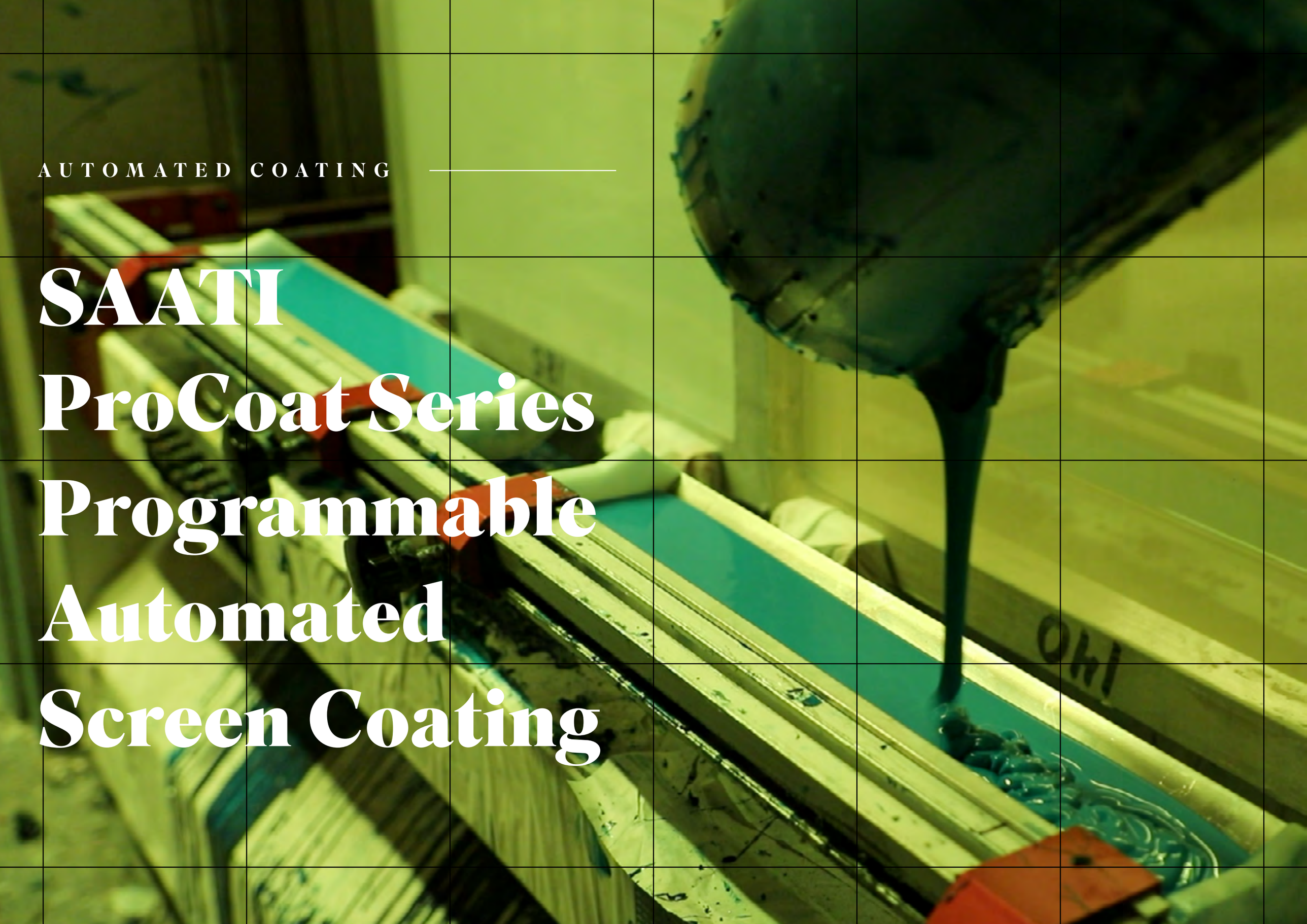
Thik Backing Emulsion improves Thik Film exposure latitude and adhesion during developing as well as increasing durability on press. After film is applied and dried, put two or three coats of emulsion on squeegee side of screen. It is particularly recommended for use with Thik 300 and above, and is also used as optimal exposure indicator, as per these instructions:

Using Thik Backing Emulsion

Exposure can be accurately determined for any combination of mesh count/color with Thik film by using the Thik film back-coating emulsion as follows.

1. Mount Thik film to the mesh as a capillary film and then dry.
2. Apply two coats of Thik film back-coating emulsion to the squeegee side and dry.
3. Carry out a stepped exposure sequence using a range of times.
4. After developing choose the lowest time that is able to harden the blue emulsion on the squeegee side of the screen sufficiently to withstand a normal developing procedure.

Exposure Time Chart (seconds of 6kW Exposure at 1.5m distance)					
Product	**30 Mesh White**	**61PW120 White**	**81PW70 White**	**110PW80 White**	**110PW80 Dyed**
Thik 100	60	38	30	30	75
Thik 200	120	75	60	60	150
Thik 300	240	180	120	150	300
Thik 400	400	300	240	300	400

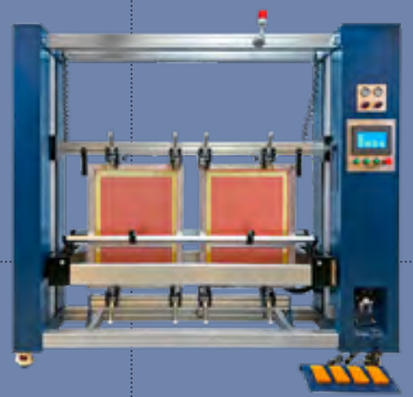


AUTOMATED COATING

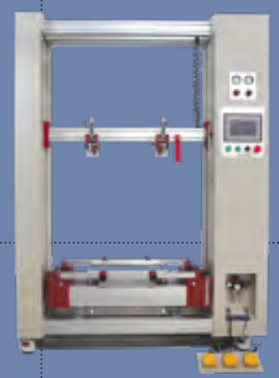
SAATI ProCoat Series

Programmable Automated Screen Coating

ProCoat Configurations



ProCoat 25x36



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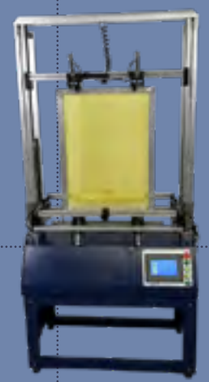
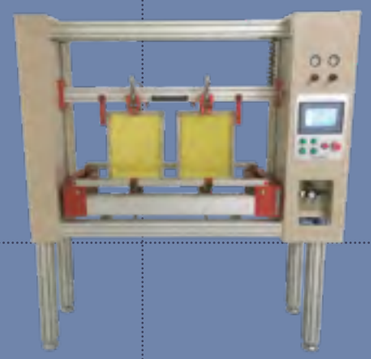


Mini



SF-C

SF-T

ProCoat SF Combo Dryer

The SAATI Pro Coat Series provides perfect solutions for the small to medium shops that think automatic coating is too expensive to justify.

Now affordable consistent quality can be

accomplished with this easy to use coater.

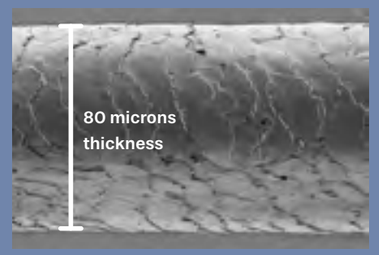
It will be realized quickly that a consistent coated screen solves many of the day to day quality issues that make it to press.

This machine is truly a plug and play workhorse.

Fine Control

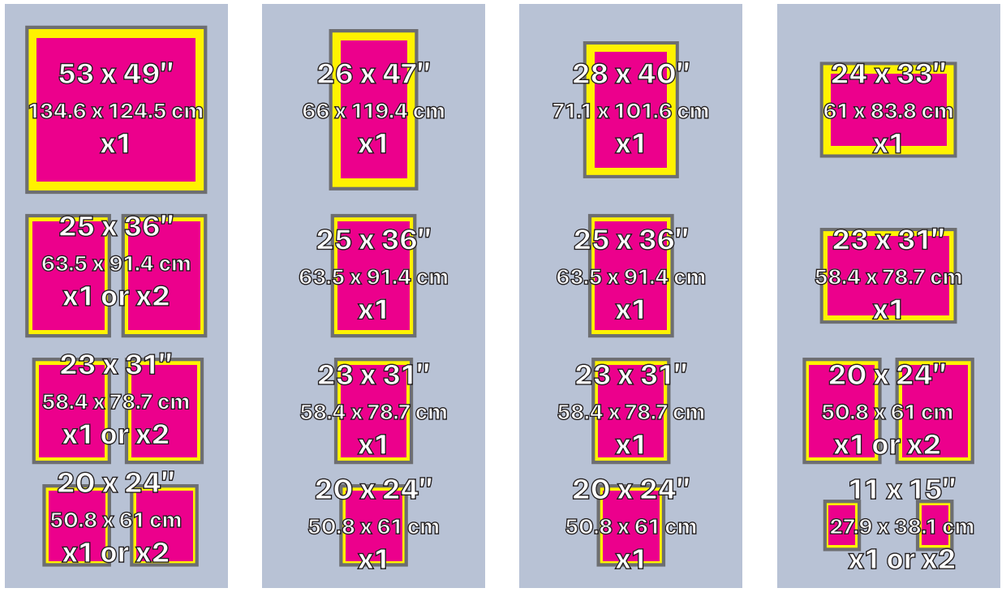
The average human hair is 80 µm wide.

With SAATI ProCoat equipment it is possible to program emulsion thickness to within +/- 2 µm.
Your level of control is 40x finer than a human hair!



2 microns thickness

Coating Setups



ProCoat 25x36 **ProCoat VF** **ProCoat Mini** **ProCoat SF-C/T**

SAATI ProCoat 25x36

INFO

Automatically coat 1 or 2 screens up to 25x36".

Characteristics

- Coats two screens, simultaneously front & back. Ex. two 20x24, 23x31, or 25x36 at a time
- Coats a single screen up to 42x50"

Features

- Motorized upper carriage. Easy adjustment for different frame profiles
- Foot pedal control of upper carriage and frame clamps for easy loading and unloading of screens

Benefits

- Double your standard size screen coating output and maximize consistency

Size

82" x 76" x 22", approximately 880 lbs.

SAATI ProCoat VF

Automatically coat 1 screen up to 26x47".

Characteristics

- Simultaneously coats a single screen front and back

Features

- Motorized upper carriage. Easy adjustment for different frame profiles
- Foot pedal control of upper carriage and frame clamps for easy loading and unloading of screens

Benefits

- Reduce the footprint of repeatable automated screen coating in your screen making area

Size

58" x 78" x 20", approximately 800 lbs.

SAATI ProCoat Mini

Automatically coat 1 screen up to 28x40".

Characteristics

- Simultaneously coats a single screen front and back
- Servo driven for smooth maintenance-free operation

Features

- Manual upper carriage easily adjusts when switching frame profiles, lower carriage is fixed. Fully pneumatic frame clamps on upper and lower frame holders
- Foot pedal control of upper carriage and frame clamps for easy loading and unloading of screens

Benefits

- More economical model with the smallest footprint, for smaller textile screen printers adding automated coating

Size

42.3" x 80.3" x 17"", approximately 246 lbs on included stand, 196 lbs. alone.

SAATI ProCoat SF Container

Automatically coat 2 screens up to 16x24".

Characteristics

- **Coats a single screen up to 24x33"**

Features

- **Manual upper carriage. Easy adjustment for different frame profiles**
- **Included stand for convenient working height**

Benefits

- **Easy use allows inexperienced operators to coat perfect screens**

Size

67" x 47" x 20" without legs. 67" x 73" x 20" on legs.
Approximately 620 lbs.

SAATI ProCoat SF w/ Combo Dryer

Automatically coat 1 screen up to 24x33".

Characteristics

- **Coats a single screen up to 24x33, or two up to 16x24"**

Features

- **Manual upper carriage. Easy adjustment for different frame profiles**
- **Thermostat controlled dryer has adjustable rack for multiple frame sizes 10 slot rack holds ten 23x31" frames or up to thirty 9x11"**

Benefits

- Easy use allows inexperienced operators to coat perfect screens

Size

67" x 47" x 20" without legs. 67" x 73" x 20" on legs.
Approximately 620 lbs.

SAATI ProCoat SF Textile

Automatically coat 1 screen up to 24x33".

Characteristics

- **Coats a single screen up to 24x33"**

Features

- **Manual upper carriage. Easy adjustment for different frame profiles**
- **Included stand for convenient working height**

Benefits

- **Easy use allows inexperienced operators to coat perfect screens**

Size

67" x 47" x 20" without legs. 67" x 73" x 20" on legs.
Approximately 620 lbs.

Harlacher/Q-Lux Scoop Coaters

Cut-to-order lengths of troughs for emulsion coating

This specially designed anodized aluminum coating trough is interchangeable with any version Harlacher, Q-Lux or SAATI ProCoat machine.

Made of precision extruded aluminum and then anodized, these troughs clean up easily with water.

Typically sold in pairs, front and back.

The end caps are color-coated, red for the squeegee side and black for the print side. The front trough normally measures 1" longer than the back trough.

Custom sizes and endcaps are available.

Materials in stock with standard delivery dates less than a week.

Standard lengths up to 118".

Custom lengths up 160" are available.

SAATI Pro Dryer

Thermostat Controlled Drying Chamber Compatible with Most Rolling Screen Racks

Features

- **Available as a two-sided, pass-through unit or one-sided "closed" unit**
- **Available as a double or single bay unit**
- **Optional UV safelight coating on one or both sides**
- **High-capacity, roll-in screen racks**
- **Side-to-side air flow created by forcing air in a circular pattern behind offset assemblies**
- **Louvered ducts serve to deliver air; approximately 1/3 air volume exchange per minute**
- **Digital temperature indicator**
- **Manual ON/OFF or drying time can be set on an automatic timer**
- **Constructed of heavy-duty polished stainless steel**
- **3/16-inch thick UV safelight polycarbonate door panels in black anodized extruded aluminum frame**
- Continuous gaskets seal and magnetic door latches secure both doors, preventing air leakage
- Doors easily swing open 90 degrees and are mounted on stainless steel hinges for effortless movement and durability
- **Easy-grasp door handles**
- **Incoming air filtration down to 10 micron particle size**

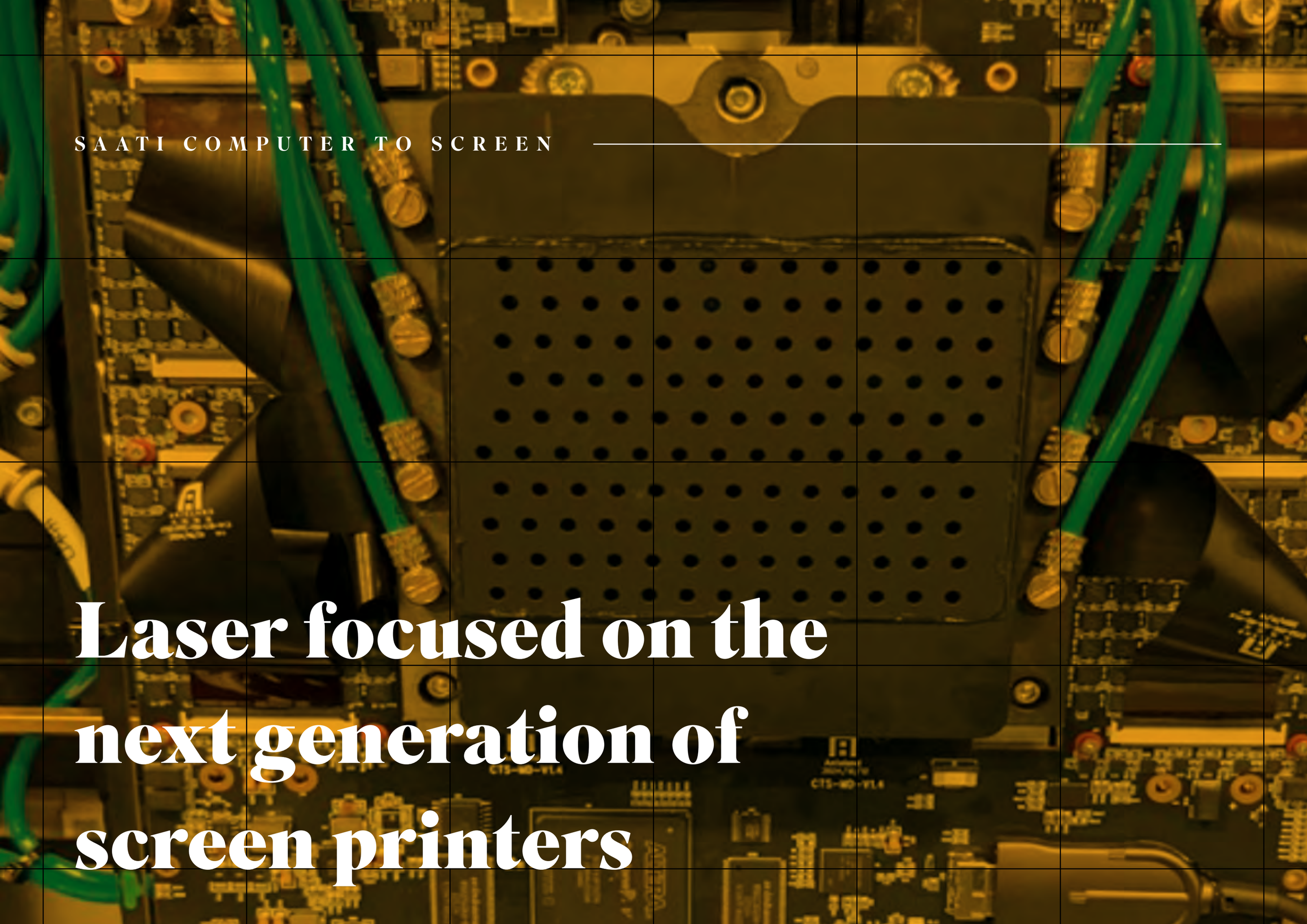
Benefits

- **Thorough, high-efficiency screen drying**
- **Uniform chamber temperature**
- **Ultimate flexibility in drying set-up**
- **Pass through design serves as its own protective barrier between your screen and production areas**
- **Screens ready for exposure will not be contaminated or subjected to moisture from coating**

SAATI Screen Rack

A convenient, space-saving and portable means of drying and storing your screens. Constructed of aluminum with riveted and welded reinforcement, the rack rolls on 5-inch diameter hard rubber casters.

Available in two models custom-built to accommodate your O.D. frame size up to 60". For larger sizes, please inquire.



SAATI COMPUTER TO SCREEN

Laser focused on the next generation of screen printers

SAATI CtS Technology

Three Systems with Unlimited Capabilities

The SAATI companies are global leaders in the development of cutting edge systems that project processed digital artwork onto coated screens using single point targeted wavelength light sources.

In a way never seen before, they propel productivity, print quality and also sustainability to new heights – maximizing profitability for printers in every segment, of every size.

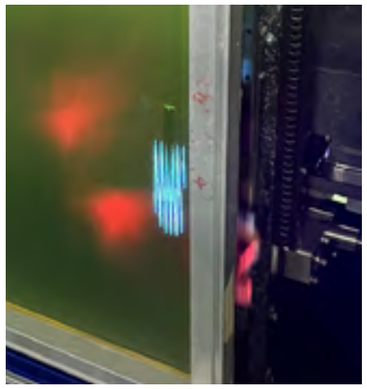
These systems offered by SAATI & CST eliminate the classic consumables like film positives, ink & wax masks. They also vastly reduce the amount of energy needed to engrave artwork, using efficient LED, or Laser Diodes, always at a targeted 405 nm wavelength that thoroughly cure stencils with the lowest power consumption.

With light-based computer-to-screen the detail is crisper than liquid masks which spread when applied.

Here is a brief summary of the differences between SAATI's three CtS technologies.

CTS DMD Chip

The classic micro-mirror tech capable of reaching up to 25400 DPI input resolution and with rotary options



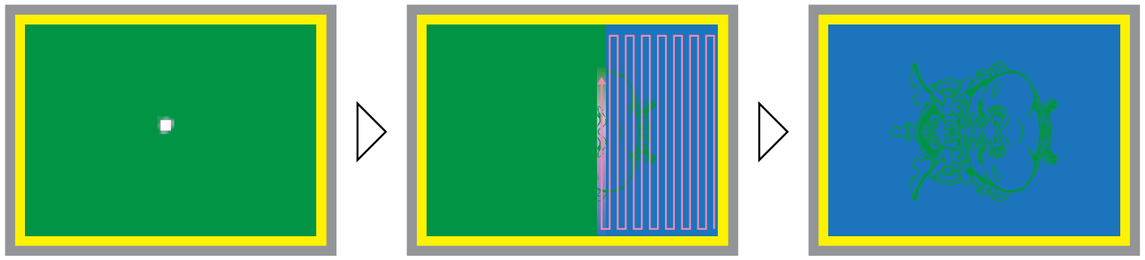
Planar Laser Array

The new grid array of direct lasers that can tackle 120+LPI halftones and requires less maintenance than ever

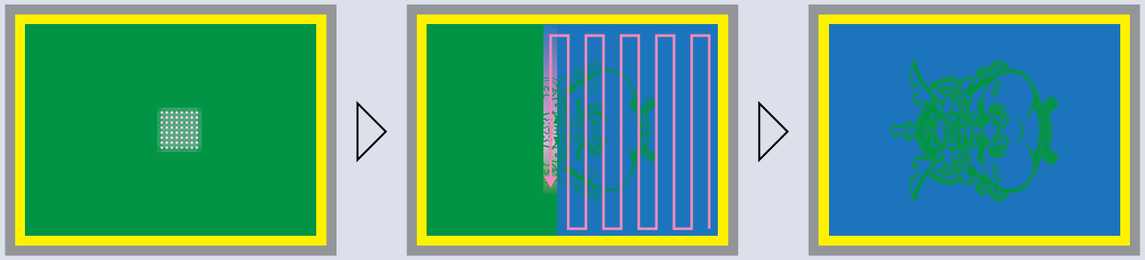
LTS Linear Array

The award winning direct laser technology that has powered a revolution in high resolution textile printing

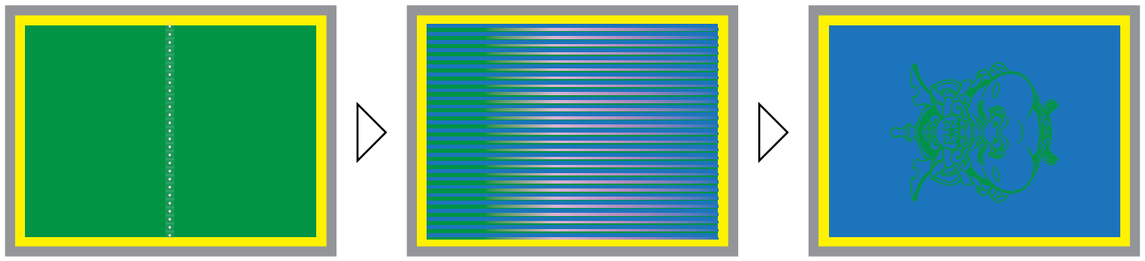
CST DMD Tech



Planar Laser Array



LTS Linear Array



Characteristics & Benefits

Direct 405 nm Lasers

Sustainable Lasers/LED

Individual lasers/LEDs have operational lives of 10,000+ hours with 100% strength, are inexpensive to replace, and draw less power than other light sources

Precision Choices

2540
1693
1270
1016
847

Five DPI options let you choose the highest resolution or the shortest cycle

Simplified Operation

Eliminate the hurdles of film pinhole checks and manual film registration. Image & Expose in one quick process

Flexibility

Compatible with all emulsion and film types

Power Settings

Thoroughly cure even very high EOM dual-cure emulsions quickly and with less energy

SAATI CtS

Digital Workflow

Faster Processing

Prepare art files, and create stencils immediately – no waiting for film creation or checks

Digital Registration

Eliminate difficulties by locking the frame into place and precisely setting the laser start position digitally – reduce press set up and spend more time printing

Digital Archive

Keep an archive of art files, save registration settings and duplicate programs to improve your workflow over time

No Consumables

Precision Imaging

CtS Inkjet liquid drops spread before drying – direct laser imaging has higher fidelity

Save Money

Stop paying for media to image your screens

Spring Cleaning

Save space – eliminate storage for film and/or masking media

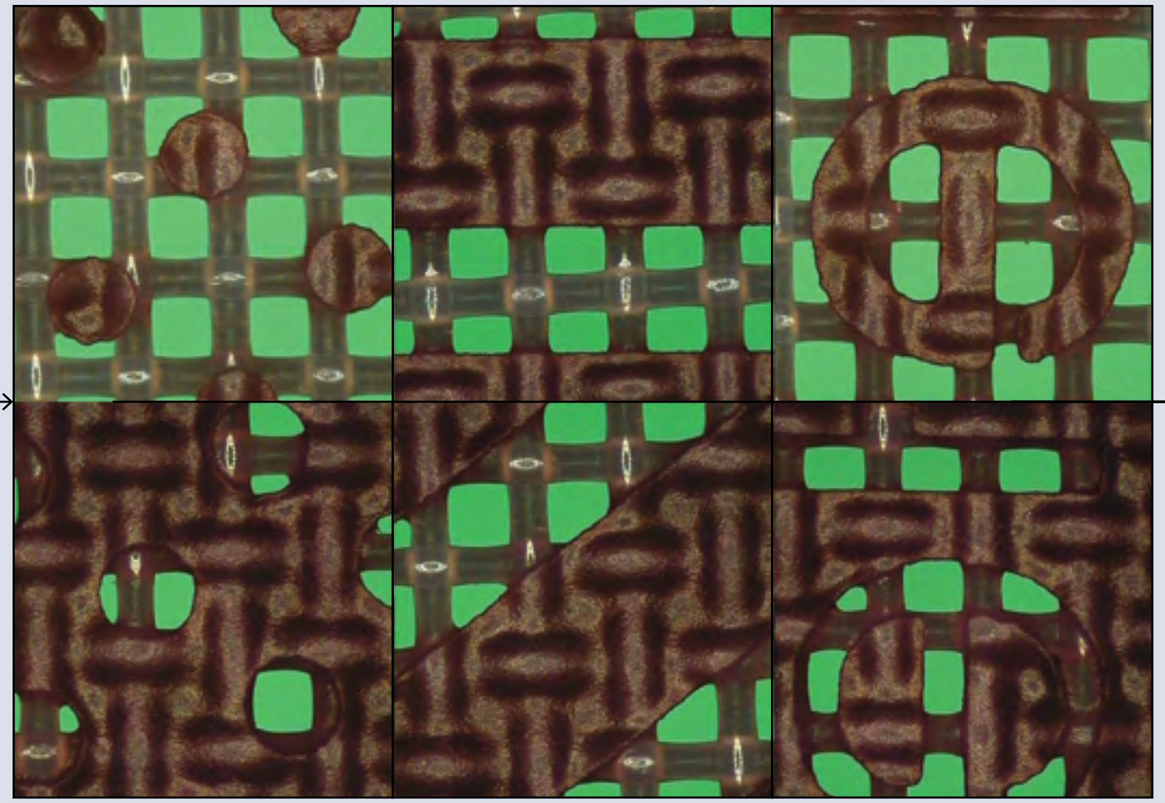
Environmental Impact

No masking material like ink or wax goes down the drain – no plastic film

Resolution Settings

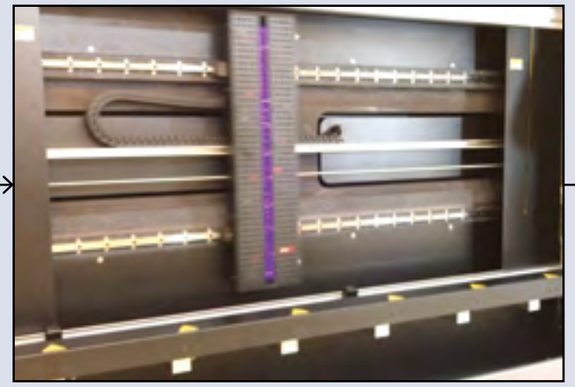
The SAATI LTS has five resolution resolution settings, each tailored to different types of image requirements.

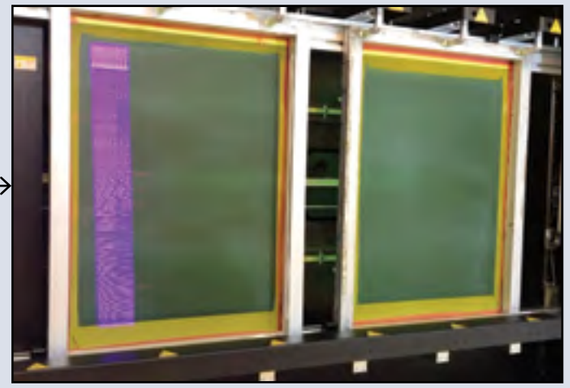
847	1016	1270	1693	2540
Low Setting		**Middle Setting**		**Highest Setting**
• Fastest processing times • Superior to inkjet films	• Superior to inkjet/ waxjet resolution	• Equivalent to DLE systems	• Superior to many other DLE systems	• Image setter quality for the most demanding applications



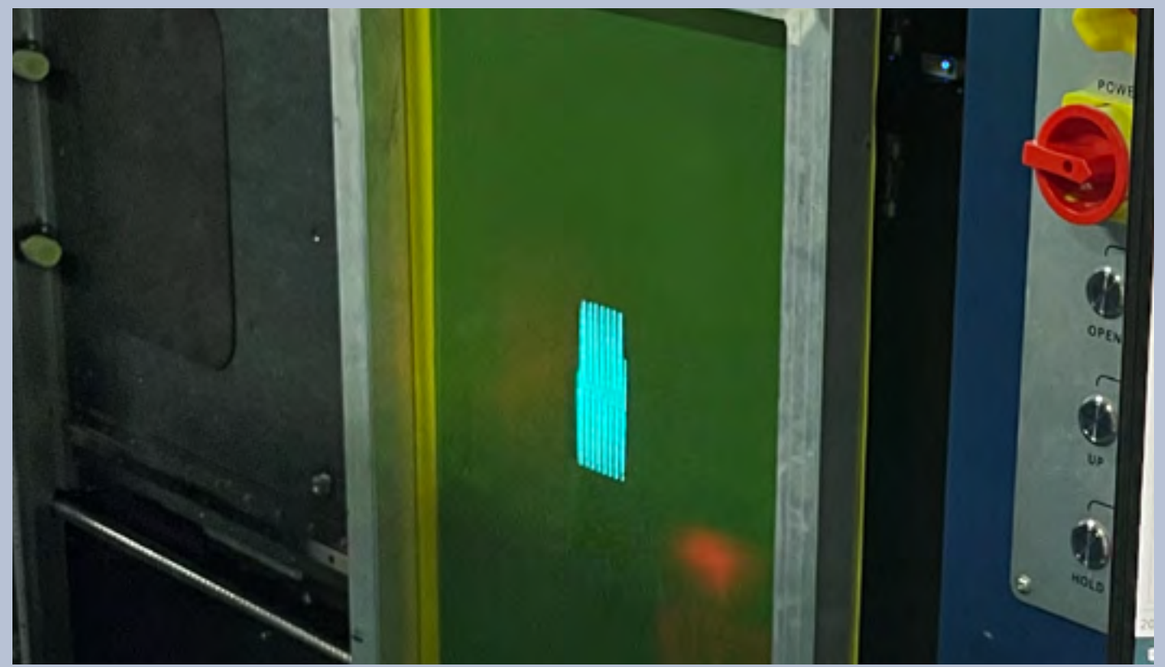
Improvements to Workflow

Traditional Screenmaking	CtS with Waxjet/Inkjet	CST & SAATI LTS
Get Artwork	Get Artwork	Get Artwork
RIP	RIP	RIP
Create Film		
Checks & Corrections		
Positioning/Registration	Cts Imaging	
Vacuum		
Exposure	Exposure	Imaging & Exposure
Developing	Developing	Developing

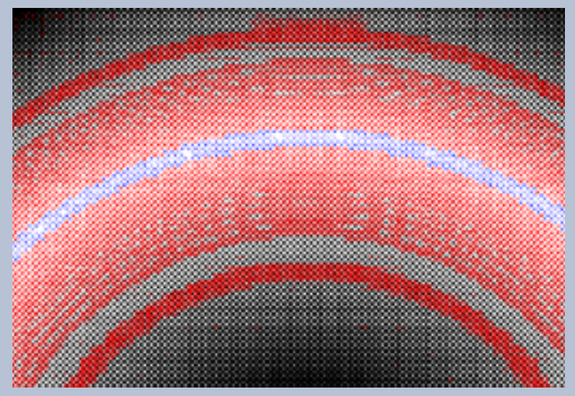




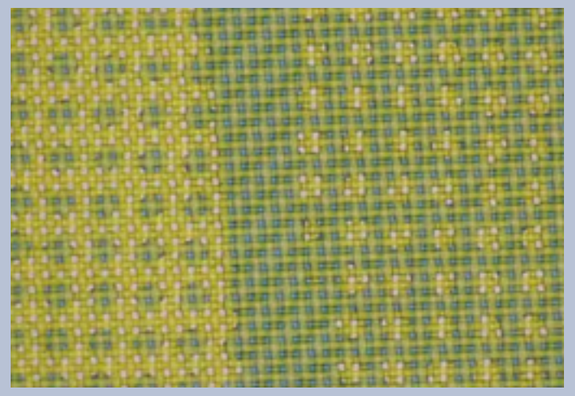
Laser Matrix Technology



96 Laser Matrix scans while the screen steps across the image area



Intelligent software tools can analyze images and compensate pixel by pixel to ensure a more faithful image replication on press. Colors indicate augmentations and reductions in tones prior to imaging process



120 LPI halftones on 150 (380).34 mesh

SAATI

CST Matrix 812

High Resolution Digital Direct Laser Image & Exposure Unit

Lasers
96

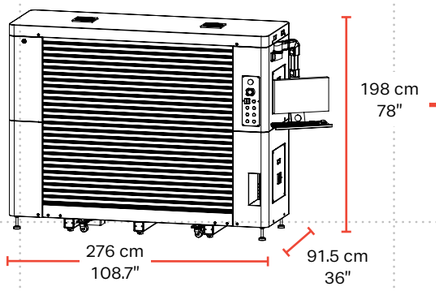
Weight
800 kg
1763.7 lb

Power
110V
standard

240V
with adapter

800W
consumption

Dimensions



Characteristics

Glass-free vertical loading and frame lock system ensure accurate, easy screen placement and reduced pinholes

Solid metal construction provides a vibration free stencil making platform while maintaining a smaller footprint than other CtS machines

Touch screen workflow

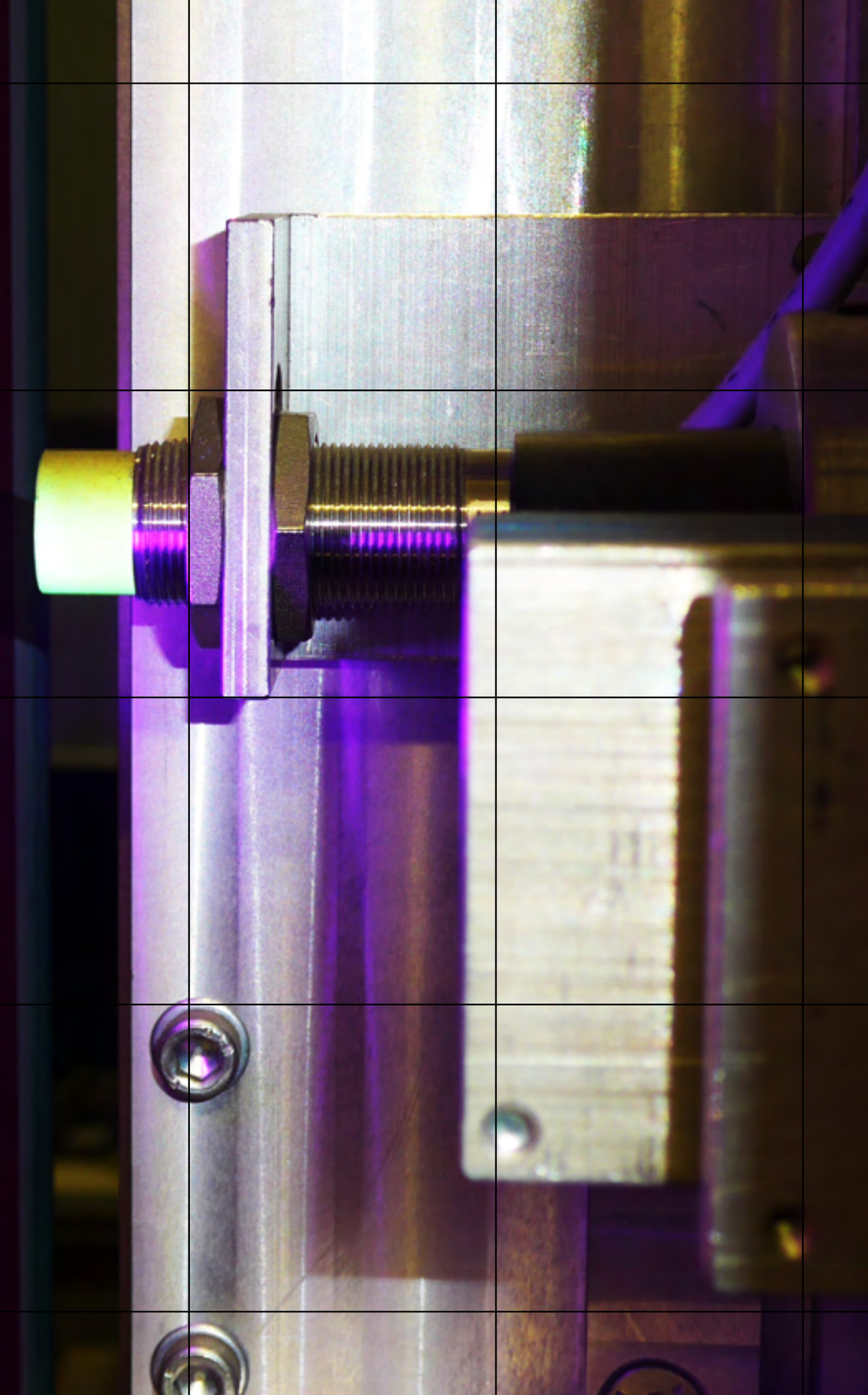
Motorized safety shutter

Water cooling system extends individual laser service life even further

Large frame holding area enables simultaneous imaging & exposure of either large screens, or 1 or more standard size screens
Maximum Image Size: 80 x 120 cm | 31.5 x 47.2"
Max Frame Size: 1 screen up to 110 x 170 cm | 43.3 x 66.9"
or 2 screens up to 64 x 91 cm | 25 x 36"

CST

CST DMD Computer-to-Screen



CST DMD Systems

High Resolution Digital Direct DMD Image & Exposure Units

CST GmbH is a leading global supplier for state of the art screen imaging systems to the industry. Patented technologies provide the best possible solution for the most demanding applications. The imaging system utilizing a DMD chip allows for various resolutions, fast imaging speeds and low production costs.

Advantages

- Laser/LED light sources: extended, consistent lifetime
- Fastest exposure using HD DMD Chip
- High Quality Optics
- Largest equipment portfolio: horizontal/ vertical/rotary/size/DPI options
- High quality exposure
- Application-specific operating: easy handling
- Inline exposure and developing options
- Conversion of existing units to current gen tech
- Global network
- Outstanding support

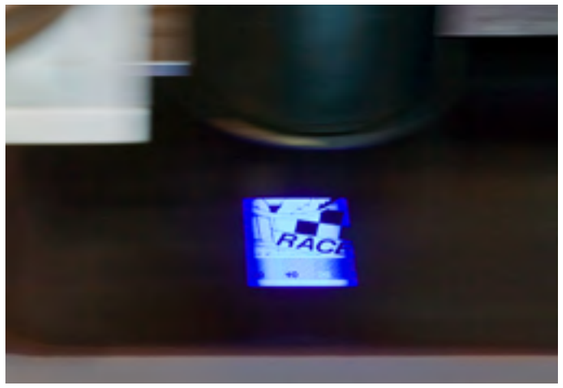
Applications

- Printed Electronics
- Membrane Switch
- Industrial
- Automotive
- Flat Glass
- Decals
- Container
- Label
- Security
- Graphics
- Textile
- & More

We manufacture systems to expose both, flat and rotary screens. Our machines are custom built depending on requirements of the customer application.

We engineer for various resolutions, head systems and machine formats. We have built machines for flat screens up to 8 x 4.5 meters and 1680 mm circumference rotary screens. Our machinery is designed for global production.

Special custom sizes and configurations can be manufactured for additional pricing. Extended warranty plans and maintenance contracts are also available upon request.

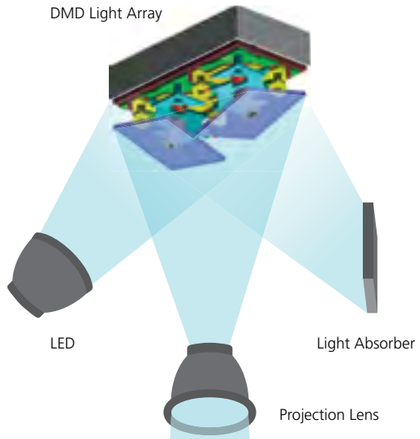


Digital Mirror Device (DMD)

A Digital Mirror Device (DMD) modulates ultra-high power UV light with image data using up to 2,000,000 micro mirrors. While the DMD moves across the screen surface in sweeps the data scrolls continuously and results in perfectly seamless image production. As each of the micro mirrors represents one pixel, high speeds are possible and the imaging quality is exceptionally high. Resolutions of up to 2,540 dpi are possible.

DMD is the best light modulator for this application presently available on the market.

Texas Instruments, the world leader in micro-mechanical mirror modulators, provides the DMD for the DLE screen imaging system. With millions of systems in operation since 1996, the DMD is a state of the art technology which is fail-safe and proven in reliability.

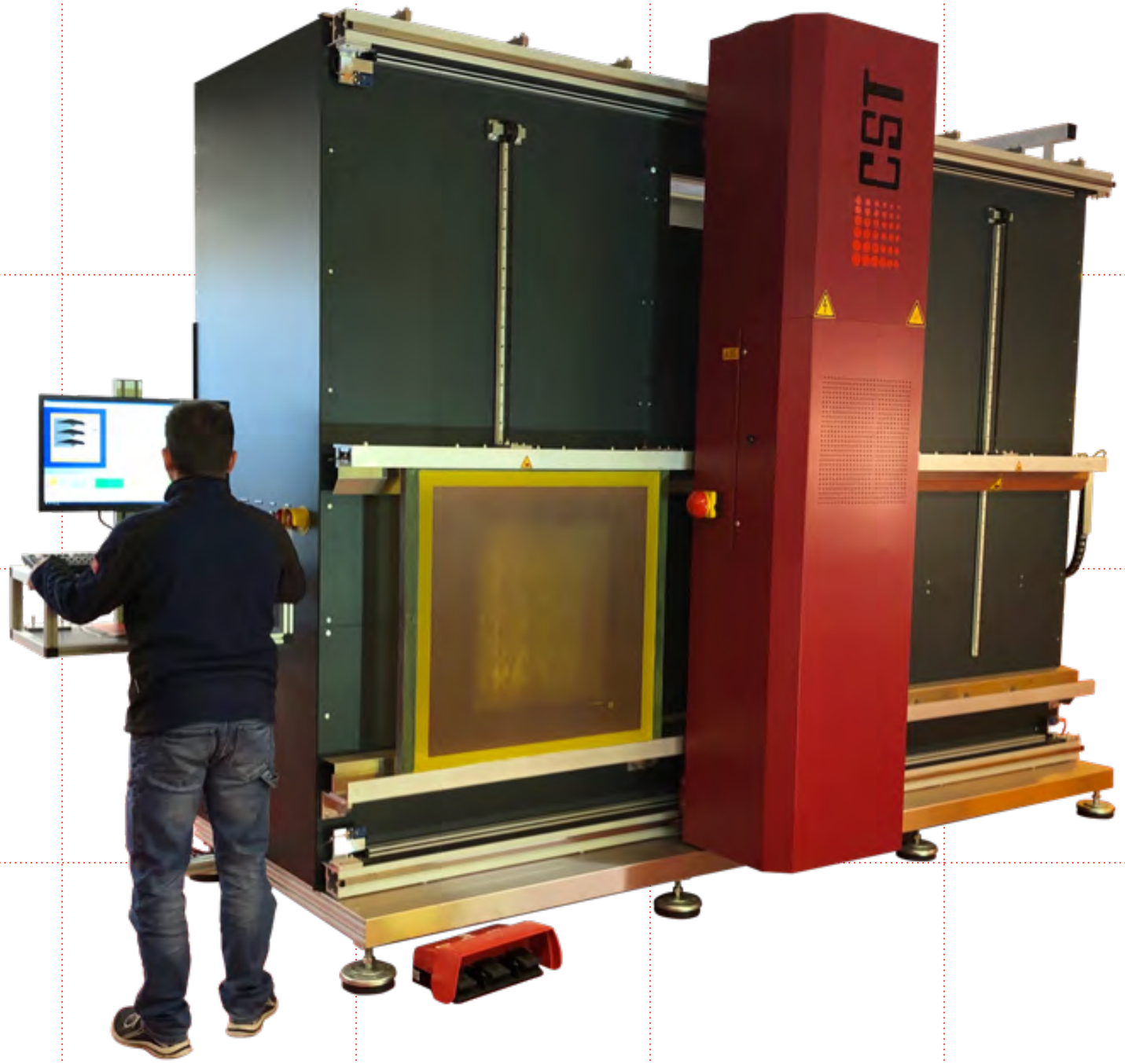


LED Technology

The new generation of DLE machines contains modern UV light sources. These UV LED light sources are fully integrated. This improves the stability and the lifetime of the fully encapsulated head system drastically.

DLE Advantages

This process totally eliminates ink, wax, film, darkroom the associated chemicals, film processing, masking, retouching and taping of films. The benefits are obvious: The screen is produced easier, faster, less expensive, at higher quality levels and with less production steps.



DLE Vertical

Platform	Vertical
Application	XL Format/XXL Format
Max Screen Sizes **	26.25 x 13.125 ft | 8 x 4m
DPI Resolutions	1000, 1270, 2540
SD DMD (1024x768)	Yes
HD DMD (1920x1080)	Yes
Inline Capability	Yes
Available Power	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
Frame Clamping	Pneumatic
Light Source	Multi-Wavelength LED UV or Laser
Calibration System	Yes
Remote Diagnostics	Yes
Data Input	Data Interface TIFF 6.0
Warranty ***	1 Year

DLE Smart

Platform	Vertical
Application	High Resolution
Max Screen Sizes **	
DPI Resolutions (input)	25,400
SD DMD (1024x768)	No
HD DMD (1920x1080)	Yes
Inline Capability	Coming Soon
Available Power	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
Frame Clamping	Pneumatic
Light Source	Laser
Calibration System	Yes
Remote Diagnostics	Yes
Data Input	Data Interface TIFF 6.0
Warranty ***	1 Year

DLE Compact

Platform	Vertical
Application	Industrial/Textile
Max Screen Sizes **	59 x 59" | 1.5 x 1.5 m
DPI Resolutions	1270
SD DMD (1024x768)	Yes
HD DMD (1920x1080)	Yes
Inline Capability	Yes
Available Power	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
Frame Clamping	Pneumatic
Light Source	Multi-Wavelength LED UV or Laser
Calibration System	Yes
Remote Diagnostics	Yes
Data Input	Data Interface TIFF 6.0
Warranty ***	1 Year

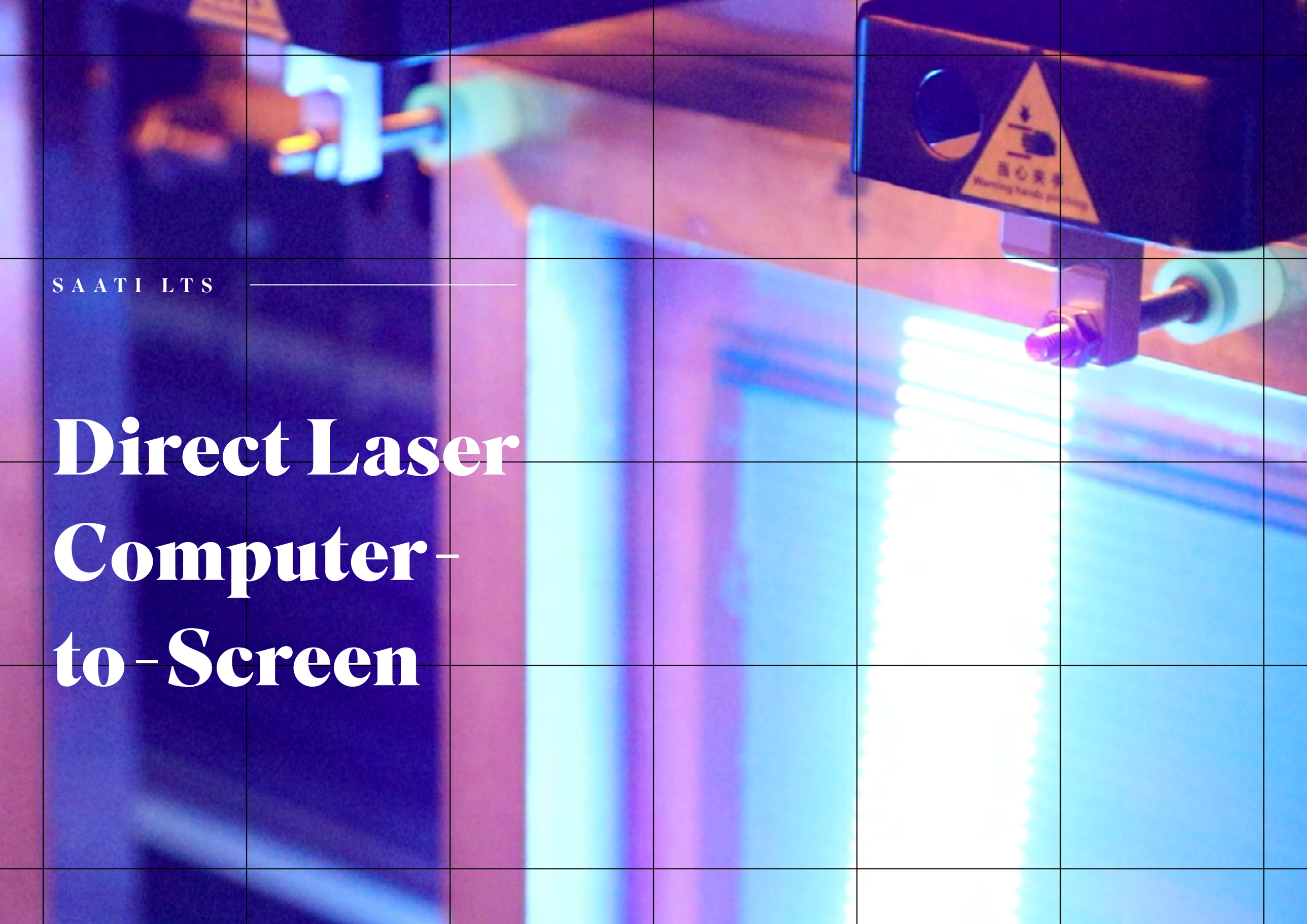
** Special customized sizes and configurations can be manufactured upon request for additional pricing | *** Extended warranty plans and maintenance contracts available upon request

DLE Label

Platform	Vertical
Application	Industrial/Textile
Max Screen Sizes **	3.9375 x 3.25 ft | 1.2 x 1 m
DPI Resolutions	2540, 5000
SD DMD (1024x768)	Not Available
HD DMD (1920x1080)	2540
Inline Capability	Not Available
Available Power	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
Frame Clamping	Manual
Light Source	Laser
Calibration System	Yes
Remote Diagnostics	Yes
Data Input	Data Interface TIFF 6.0
Warranty ***	1 Year

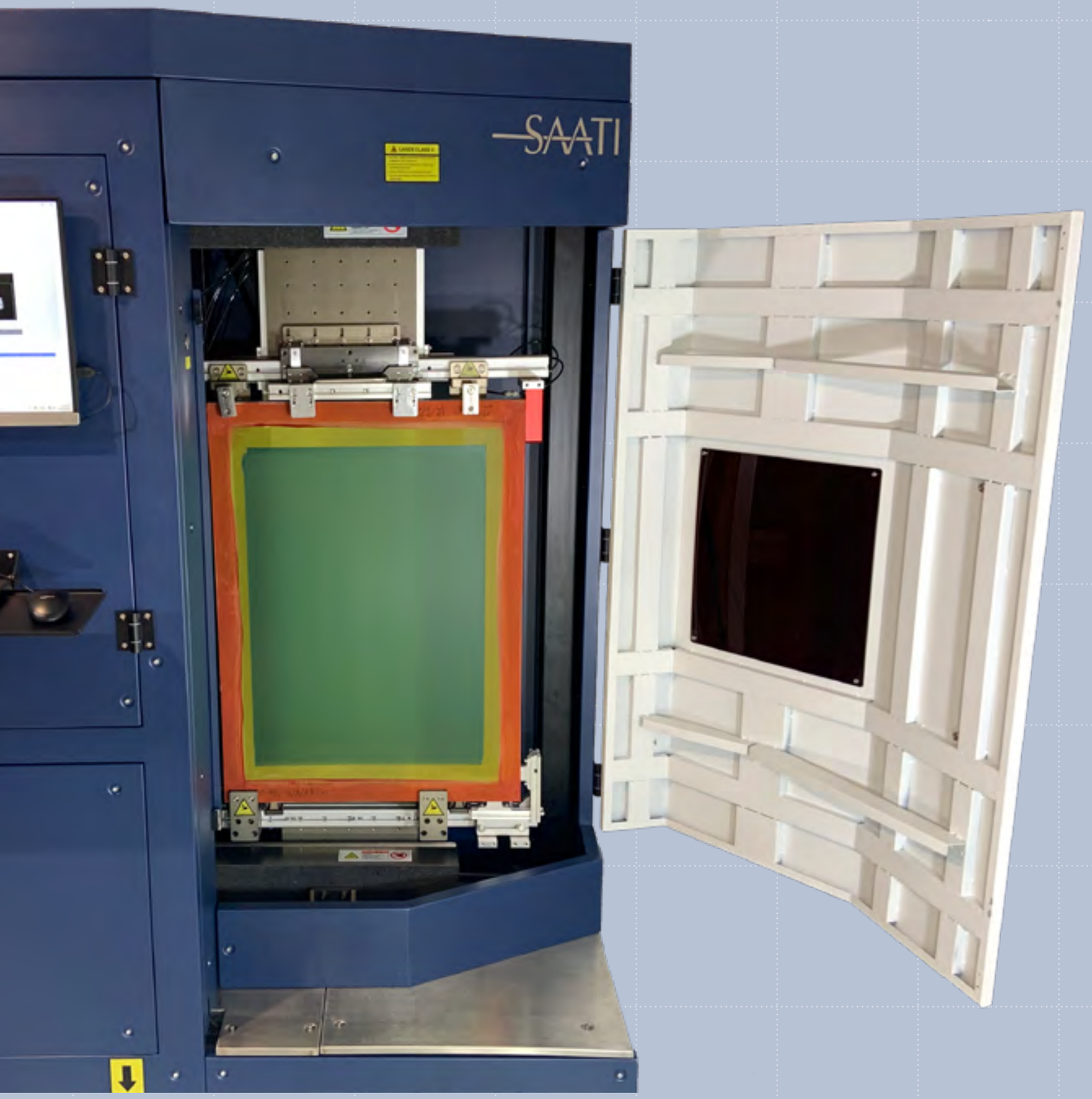
DLE ECO

Platform	Horizontal
Application	Industrial/Textile
Max Screen Sizes **	118 x 79" | 3 x 2 m
DPI Resolutions	1000
SD DMD (1024x768)	Yes
HD DMD (1920x1080)	No
Inline Capability	Not Available
Available Power	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
Frame Clamping	Manual
Light Source	Multi-Wavelength LED UV
Calibration System	Yes
Remote Diagnostics	Yes
Data Input	Data Interface TIFF 6.0
Warranty ***	1 Year



SAATI LTS

Direct Laser Computer-to-Screen



SAATI LTS 3.0

The Next Step in Textile Screen Making

LTS 3.0

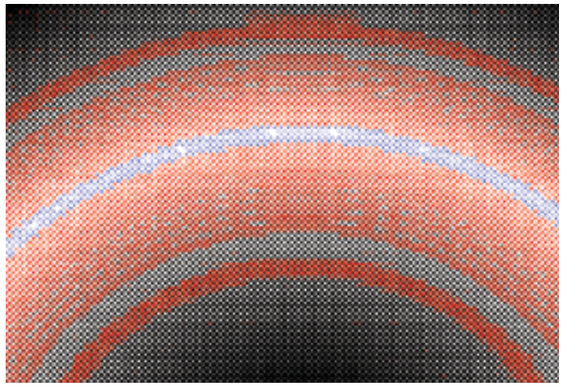
SAATI LTS E70B

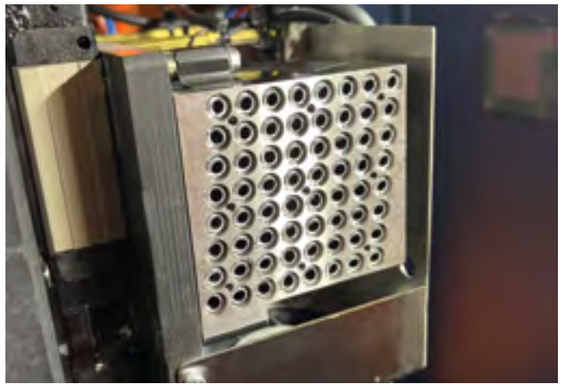
INFO

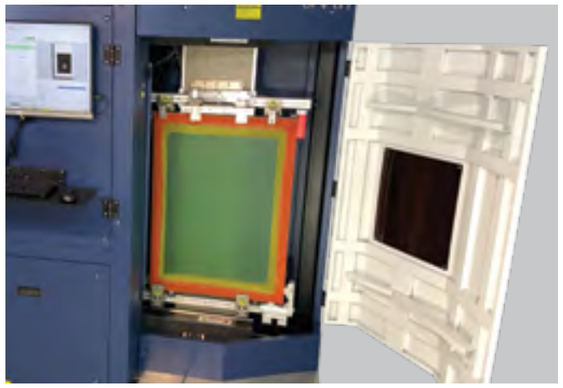
AI software tools analyze digital art and compensate pixel by pixel to ensure a more faithful image replication on press. Colors (at right) indicate augmentations and reductions in tones prior to imaging process.

The cluster of 405nm lasers render art at up to 5080 DPI with no calibration and require the lowest maintenance of any system on the market.

100 LPI halftones are faithfully reproduced and the digital registration makes it easy to quickly print jobs with many colors.





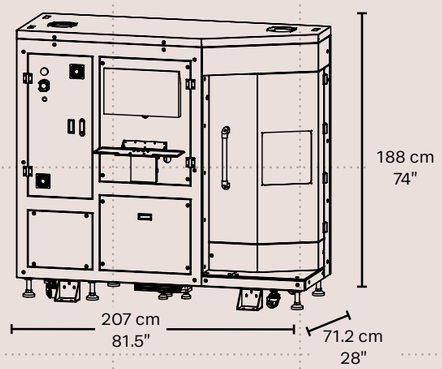


LTS E70B

INFO

High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions



Lasers

64

Weight

800 kg
1763.7 lb

Power

110V
standard

240V
with adapter

800W
consumption

Characteristics

Touch screen workflow

Solid metal construction provides a vibration free stencil making platform while maintaining a small footprint

Locking screen chamber door with safe viewing window to confirm progress

Glass-free vertical loading and frame lock system ensure accurate, easy screen placement and reduced pinholes

Medium frame holding area enables the simultaneous imaging & exposure of 1 screen
Maximum Image Size: 60x80 cm | 23.6 x 31.4"
Max Frame Size: 1 screen up to 64 x 92 cm | 25 x 36"

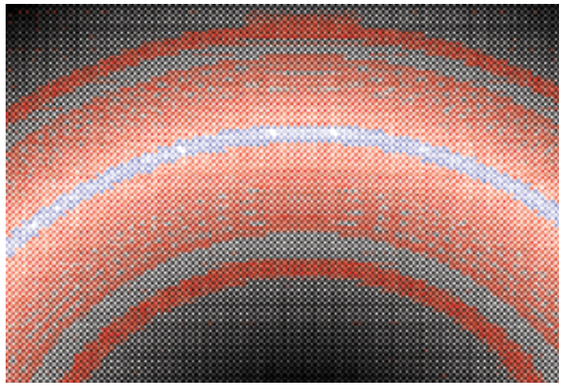
LTS 3.0

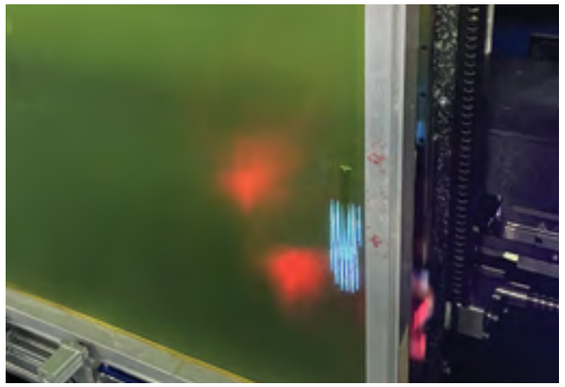
SAATI LTS 8012E

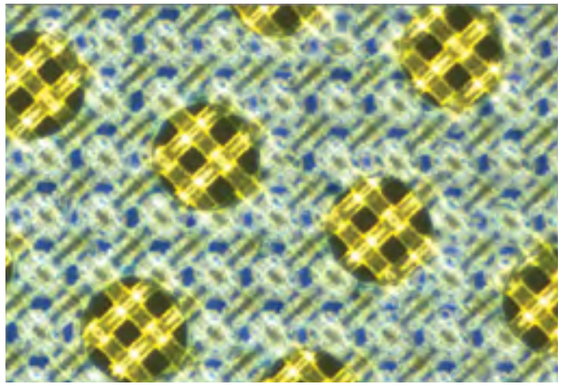
AI software tools analyze digital art and compensate pixel by pixel to ensure a more faithful image replication on press. Colors (at right) indicate augmentations and reductions in tones prior to imaging process.

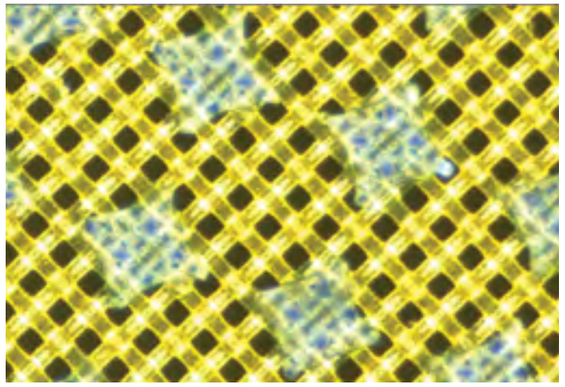
The cluster of 405nm lasers render art at up to 5080 DPI with no calibration and require the lowest maintenance of any system on the market.

100 LPI halftones are faithfully reproduced and the digital registration makes it easy to quickly print jobs with many colors.









SAATI

LTS 8012E

High Resolution Digital Direct Laser Image & Exposure Unit

Lasers

96

Weight

800 kg
1763.7 lb

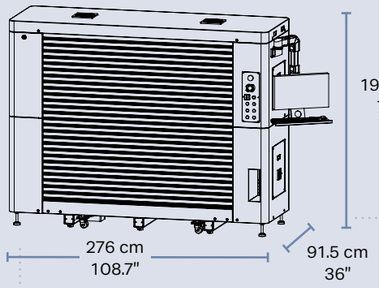
Power

110V
standard

240V
with adapter

800W
consumption

Dimensions



Characteristics

Glass-free vertical loading and frame lock system ensure accurate, easy screen placement and reduced pinholes

Solid metal construction provides a vibration free stencil making platform while maintaining a smaller footprint than other CtS machines

Touch screen workflow

Motorized safety shutter

Water cooling system extends individual laser service life even further

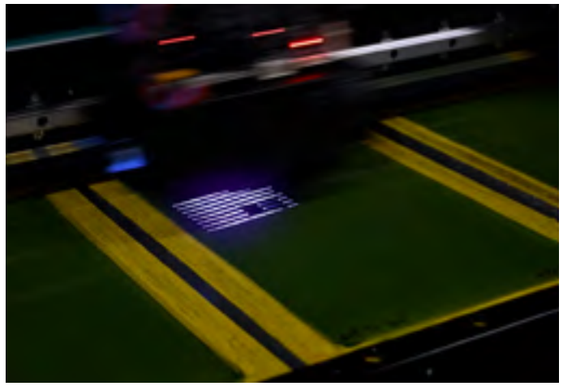
Large frame holding area enables simultaneous imaging & exposure of either large screens, or 1 or more standard size screens
Maximum Image Size: 80 x 120 cm | 31.5 x 47.2"
Max Frame Size: 1 screen up to 110 x 170 cm | 43.3 x 66.9"
or 2 screens up to 64 x 91 cm | 25 x 36"

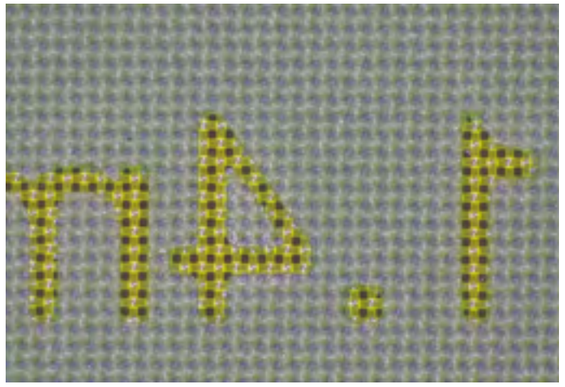
LTS 3.0

LTS SF-E

The LTS SF-E is an LTS 3.0 unit optimally tailored for container decorators. Between the solid marble platform, the planar laser array, and horizontal glass-free chamber that holds up to 3 small screens at once, it is optimized to produce super high quality screens in the shortest possible time frame.

Small features in any alphabet, 100 LPI halftones and barcodes are reproduced with the highest legibility, with none of the cost or time delays associated with film positives or ink/waxjet.





LTS SF-E

High Resolution Digital Direct Laser Image & Exposure Unit

Lasers
64/96

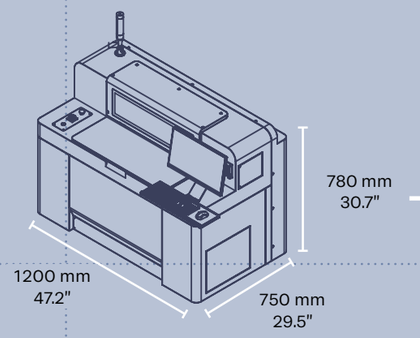
Weight
790 kg
1741.7 lb

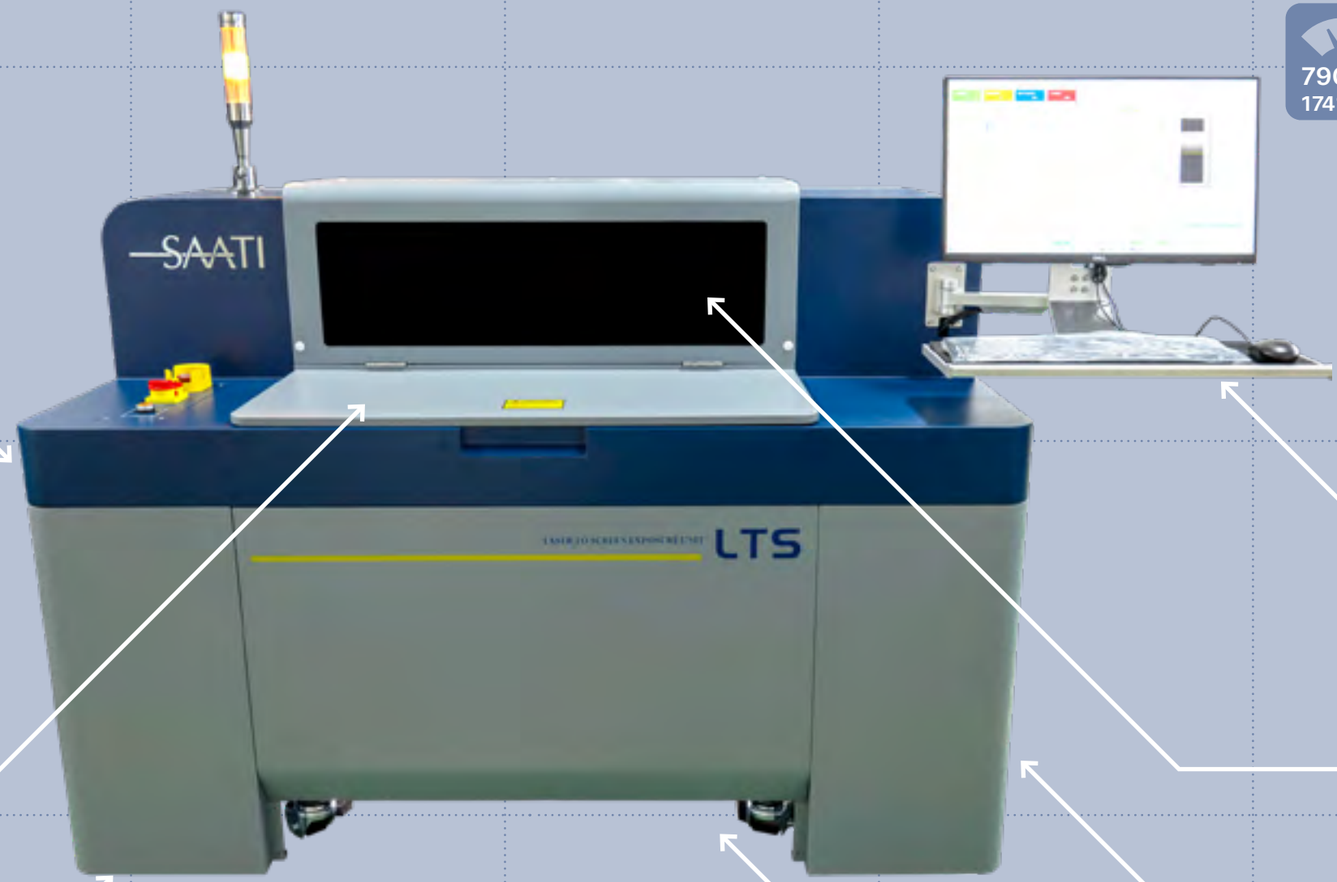
Power
110V
standard

240V
with adapter

500
consumption

Dimensions





Characteristics

Maximum Image Size: 80 x 120 cm | 31.5 x 47.2"
Max Frame Size: 1 screen up to 350 x 750 mm | 13.78 x 29.52"
or up to 3 screens up to 250 x 350 mm | 9.84 x 13.78"

Solid marble construction provides a vibration-free stencil making platform while maintaining a smaller footprint than other CtS machines

Touch screen workflow

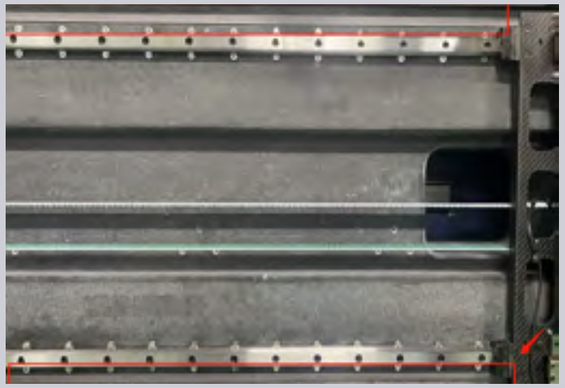
Safe Viewing Window

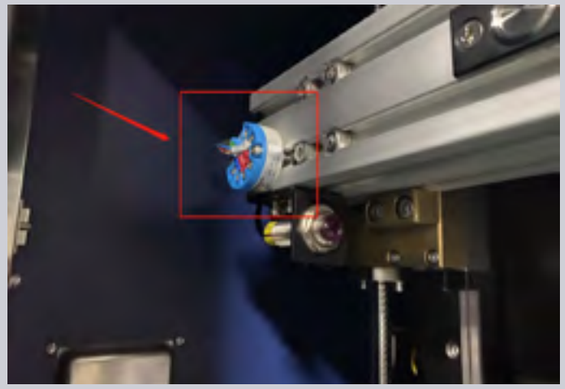
Air cooling system extends individual laser service life even further

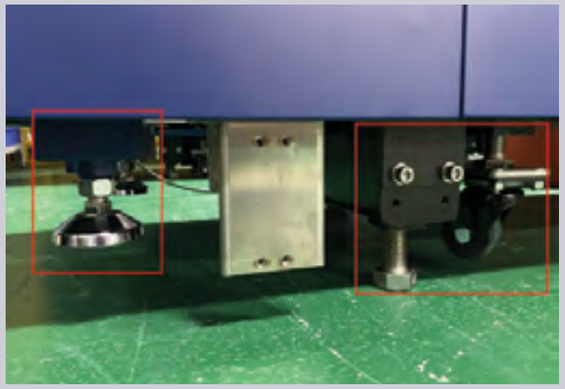
Glass-free screen chamber with horizontal loading, compatible master frame systems for easy screen placement and reduced pinholes

LTS HD SERIES

Linear LTS Technology Optimized







LTS 2.0

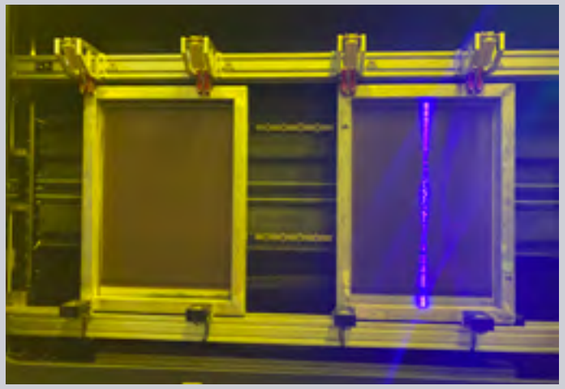
The industry leading LTS Series is part of a dynamic equipment program that evolves through continuous research and development that incorporates real user feedback.

Over time the software becomes more powerful – without overwhelming operators – and every part of the hardware, from the casters to the encoders, is also subject to this continuous evolution.

Now SAATI unveils a clear step in the evolutionary process – the 2nd Generation LTS HD Series.

A full suite of augmented components allow the software to really shine.

Features like individual frame clamp controls, more robust shuttle rails, dual encoders and a heavier construction enable an even greater level of pixel by pixel accuracy – approaching 5080 DPI fidelity – the tight tolerance printing that represents the future of Computer-to-Screen screen printing.



SAATI

LTS 8012 HD

INFO

High Resolution Digital Direct Laser Image & Exposure Unit

20 PINNACLE PRODUCT AWARD 24

Lasers

128

Weight

1335 kg
2,943 lbs

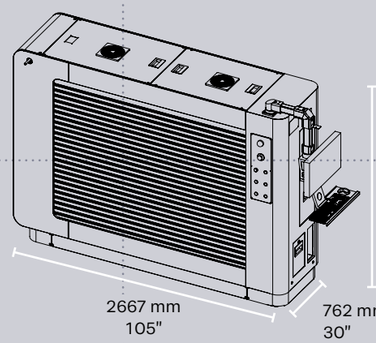
Power

110V
standard

240V
with adapter

800W
consumption

Dimensions



Characteristics

Glass-free vertical loading and frame lock system ensure accurate, easy screen placement and reduced pinholes

Solid metal construction provides a vibration free stencil making platform while maintaining a smaller footprint than other CtS machines

Easy to use pedals engage and disengage the frame clamps

Touch screen workflow

Motorized safety shutter

Large frame holding area enables simultaneous imaging & exposure of either large screens, or 1 or 2 standard size screens – with indepentent frame locking
Maximum Image Size: 80 x 120 cm | 31.5 x 47.2"
Max Frame Size: 1 screen up to 110 x 160 cm | 43 x 63"
or 2 screens up to 64 x 91 cm | 25 x 36"

1st Gen LTS Models

LTS 1015

for larger medium format screens
1 or 2 up vertical & glass free

LTS 8012

for medium format screens
1 or 2 up vertical & glass free

LTS 6012

for medium format screens
1 or 2 up vertical & glass free

LTS 6080

small to medium format,
horizontal glass down

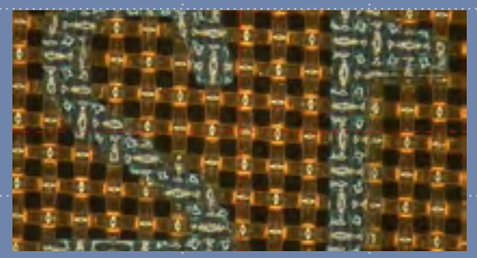
SAATI is pleased to introduce you to the state of the art in computer-to-screen stencil making - the SAATI LTS Series.

SAATI LTS machines use laser diodes to directly image and expose stencils simultaneously.

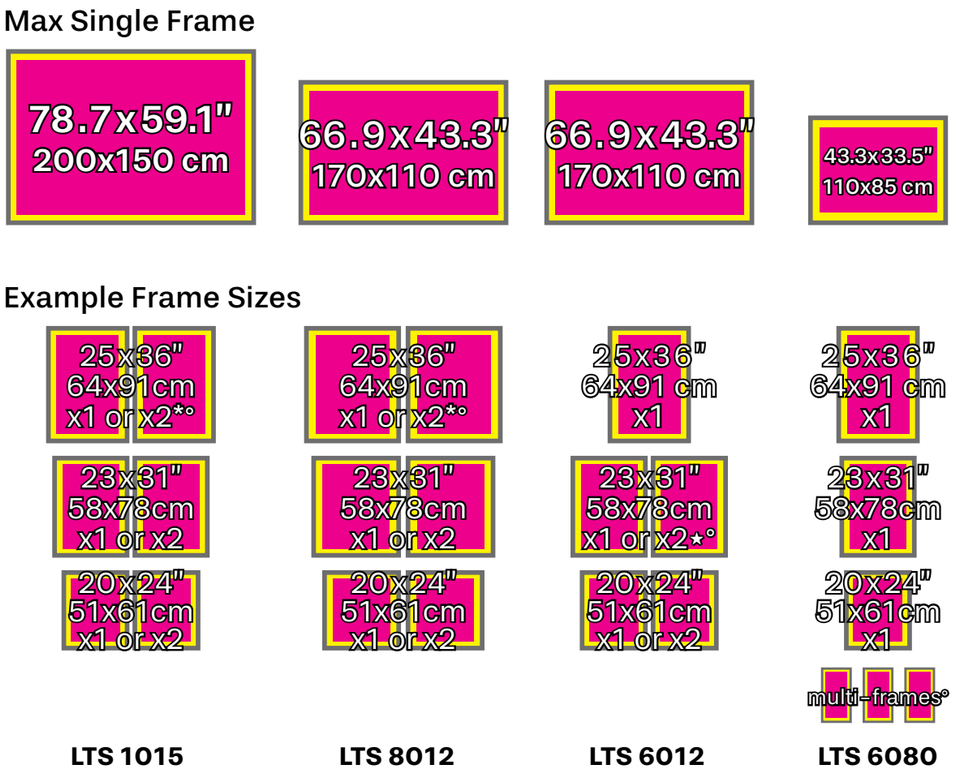
The 405 nm laser array is the correct wavelength for optimal through-cure so that stencils are processed rapidly, at high resolution (up to 2,540 dpi) and with no consumables like ink, wax or film, while drawing much less power than non-targeted wavelength light sources.

The included workflow software allows stencil makers process art files in-house, and to place one or more images on one or more stencils at the same time, further enhancing productivity and planning. In addition, remote viewing capabilities allow SAATI technicians to assist printers in calibrations without the need for face to face meetings in the pandemic age.

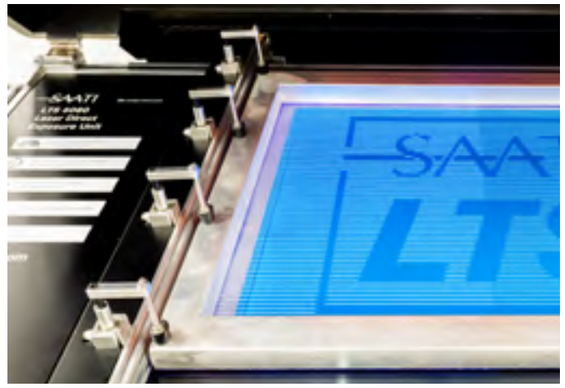
The affordable price point compared to other computer to screen technologies opens up higher resolution and more efficient computer-to-screen stencil making to a much broader group of screen printers, so the end result should be to enable access to higher quality and productivity, with a reduced carbon footprint.

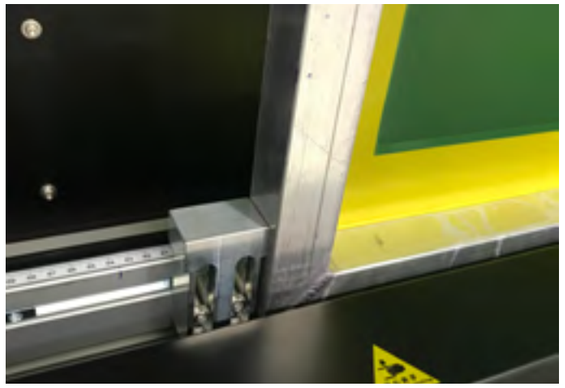


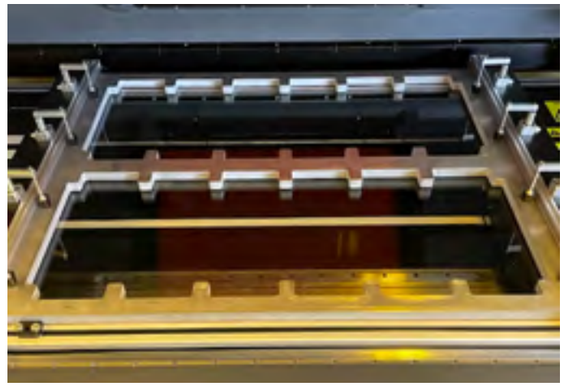
SAATI LTS 1st Gen Frame Holder Capacity



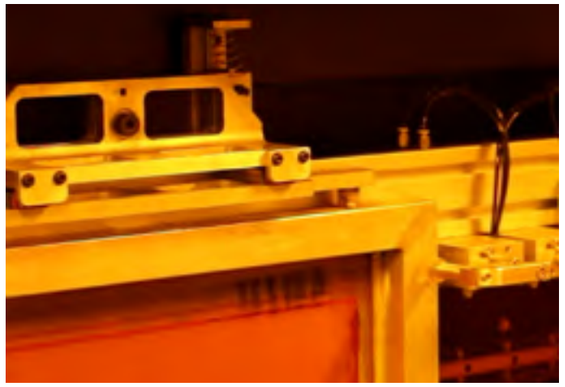
* For vertical format units 1015, 8012, 6012:
2-up screen configurations must have identical dimensions
° For all units, all 2+ frame configurations must have identical frame profiles







In addition to standard single frames, the LTS 6080 is compatible with frame holders for many small screens.



All SAATI LTS Units are adaptable for both standard and custom registration systems

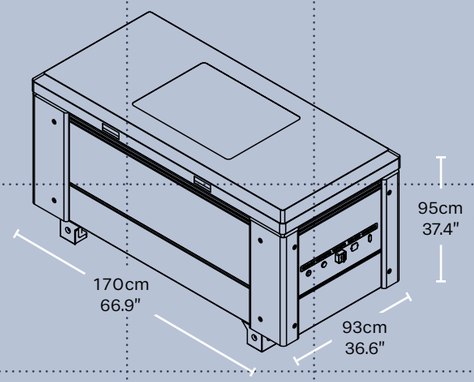
SAATI

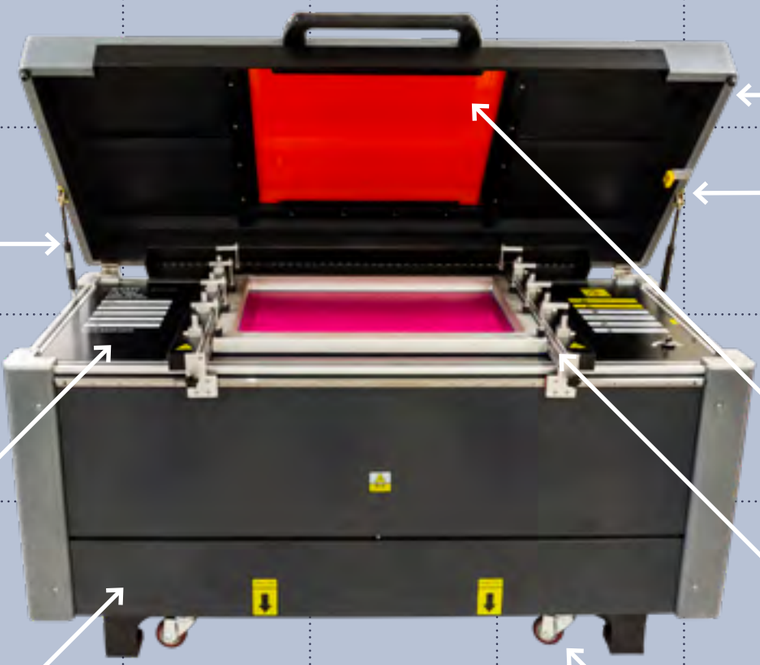
LTS 6080

High Resolution Digital Direct Laser Image & Exposure Unit

20 PINNACLE PRODUCT AWARD 21

Dimensions





Lasers

96

Weight

525 kg
1157 lbs

Power

110V
standard

240V
with adapter

350W
consumption

Characteristics

Facedown glass panel with enclosing lid

Maximum Single Frame Size:
85 x 110 cm | 33.5 x 43.3"

Safe Viewing Window for observing exposure program progress

Adaptable to various types of screen registration systems

Maximum Single Image Size:
60 x 80 cm | 23.6 x 31.5"

Solid metal construction provides a vibration free stencil making platform

Solid casters and slim build allow easy movement through standard doorways for unit placement

SAATI

LTS 6012

High Resolution Digital Direct Laser Image & Exposure Unit

Lasers

96

Weight

878 kg
1935.6 lb

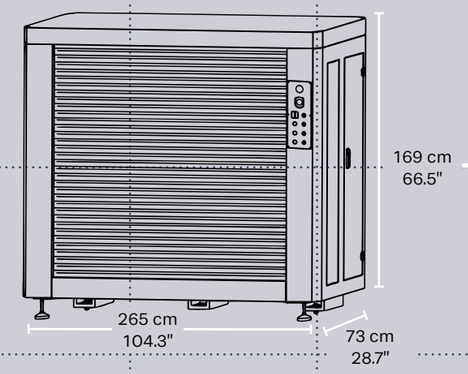
Power

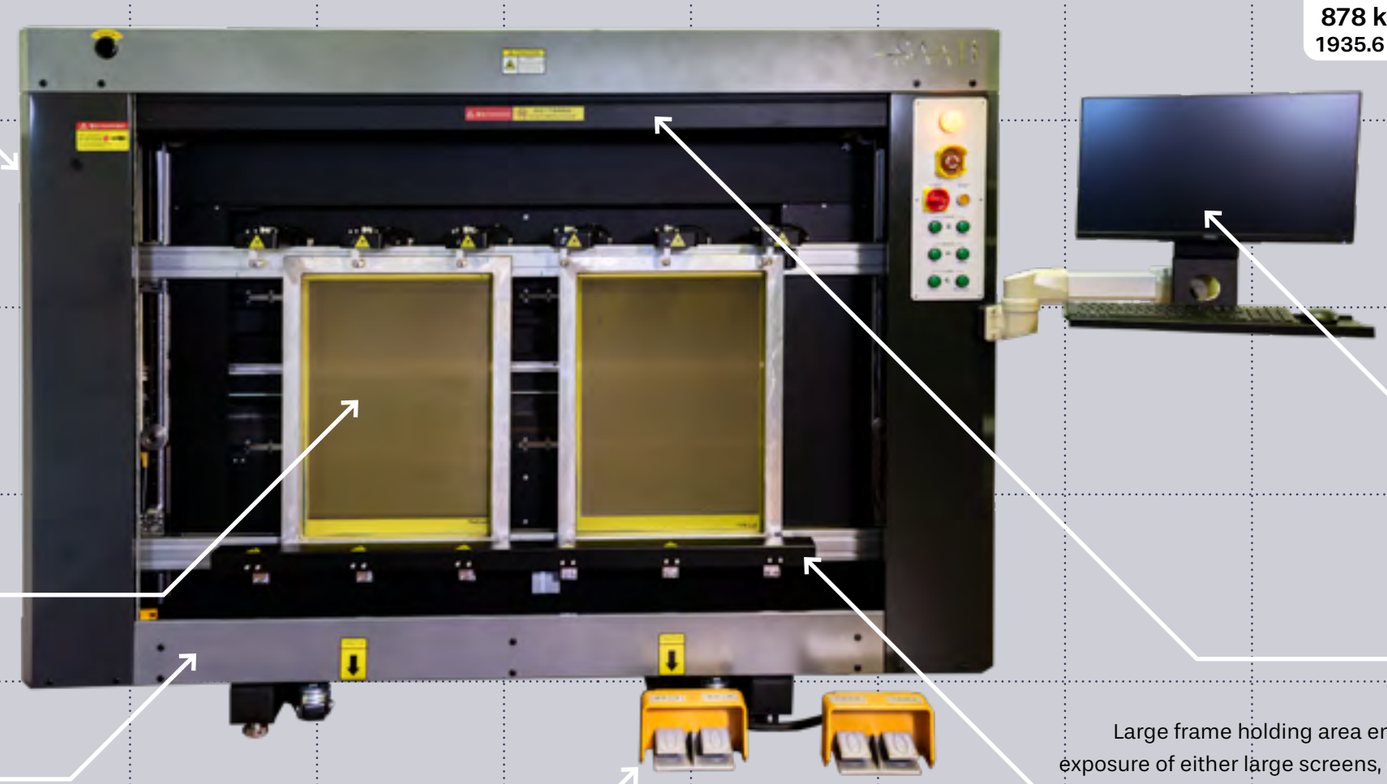
110V
standard

240V
with adapter

800W
consumption

Dimensions





Characteristics*

Glass-free vertical loading and frame lock system ensure accurate, easy screen placement and reduced pinholes

Solid metal construction provides a vibration free stencil making platform while maintaining a smaller footprint than other CtS machines

Easy to use pedals engage and disengage the frame clamps

Touch screen workflow

Motorized safety shutter

Large frame holding area enables simultaneous imaging & exposure of either large screens, or 1 or 2 standard size screens
Maximum Image Size: 60x120 cm | 23.6 x 47.2"
Max Frame Size: 1 screen up to 110 x 170 cm | 43.3 x 66.9"
or 2 Screens up to 58 x 78 cm | 23 x 31"

* previously designated model name 6080-VF

LTS 8012

High Resolution Digital Direct Laser Image & Exposure Unit

Lasers

128

Weight

878 kg
1935.6 lbs

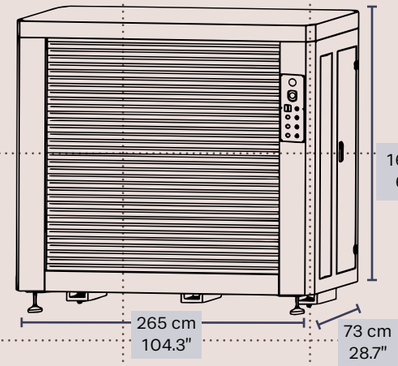
Power

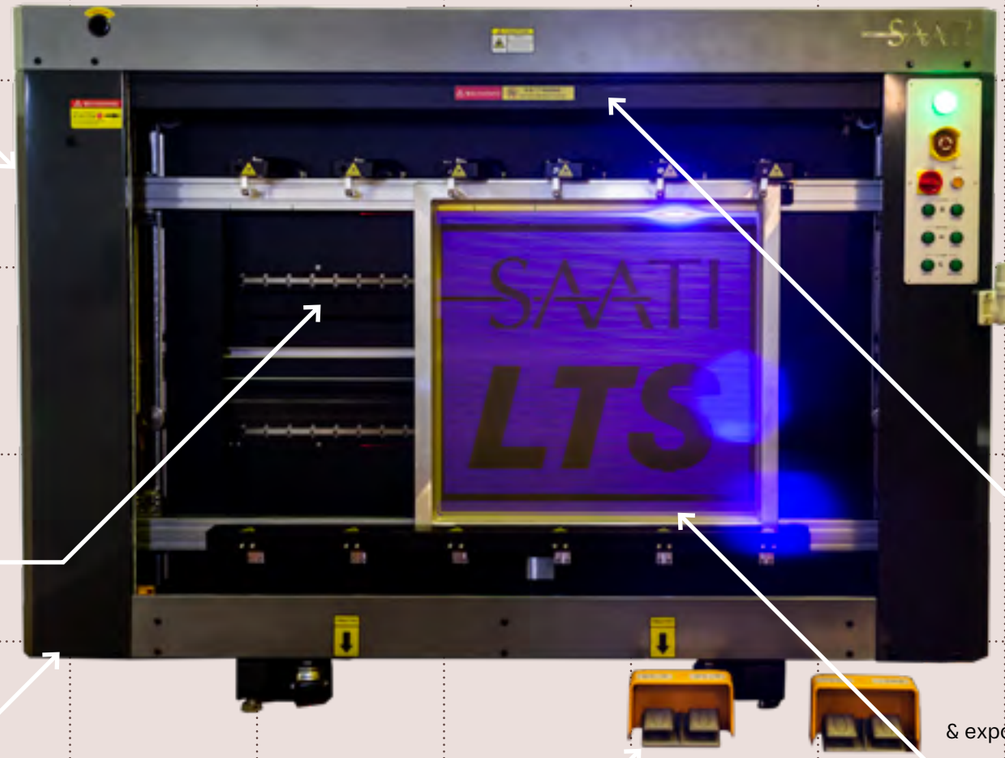
110V
standard

240V
with adapter

800W
consumption

Dimensions





Characteristics

Glass-free vertical loading and frame lock system ensure accurate, easy screen placement and reduced pinholes

Solid metal construction provides a vibration free stencil making platform while maintaining a smaller footprint than other CtS machines

Easy to use pedals engage and disengage the frame clamps

Touch screen workflow

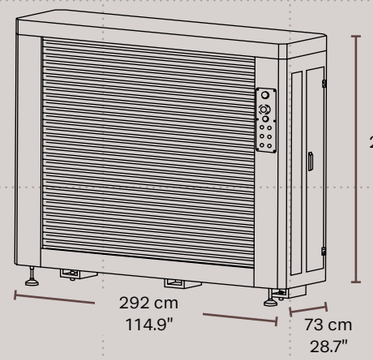
Motorized safety shutter

Large frame holding area enables simultaneous imaging & exposure of either large screens, or 1 or more standard size screens
Maximum Image Size: 80 x 120 cm | 31.5 x 47.2"
Max Frame Size: 1 screen up to 110 x 170 cm | 43.3 x 66.9"
or 2 screens up to 64 x 91 cm | 25 x 36"

LTS 1015

High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions



Characteristics

Motorized safety shutter

Glass-free vertical loading and frame lock system ensure accurate, easy screen placement and reduced pinholes

Solid metal construction provides a vibration free stencil making platform while maintaining a smaller footprint than other CtS machines

Lasers

160

Weight

1376 kg
3033.5 lb

Power

110V
standard

240V
with adapter

1000W
consumption

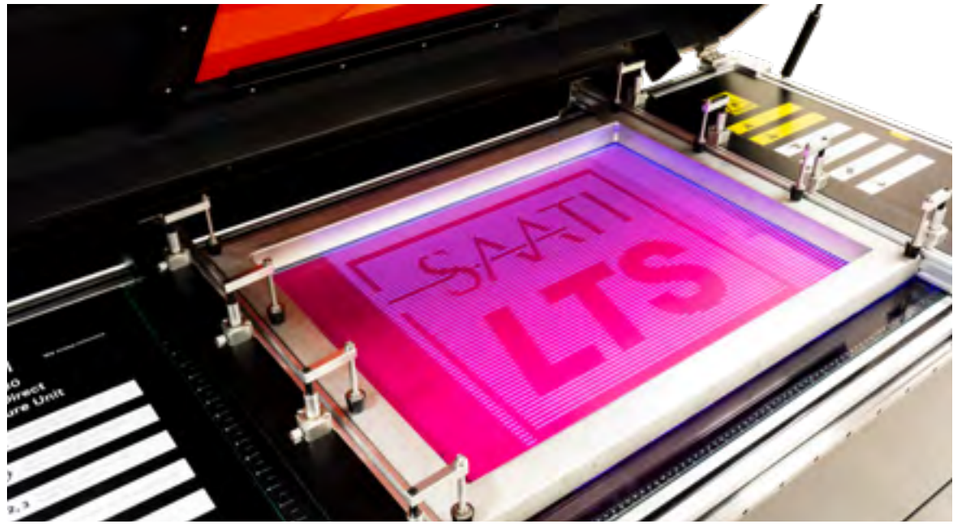
Touch screen with powerful workflow software

Simple control panel engages and disengages frame clamps, carriages, shutter & emergency stop

Large frame holding area enables simultaneous imaging & exposure of either large screens, or 1 or more standard size screens
Maximum Image Size: 100 x 150 cm – 39.4 x 59.1"
Max Frame Sizes: 1 screen up to 135 x 200 cm | 53.1 x 78.7"
or 2 two screens up to 63.5 x 91.5 cm | 25 x 36"

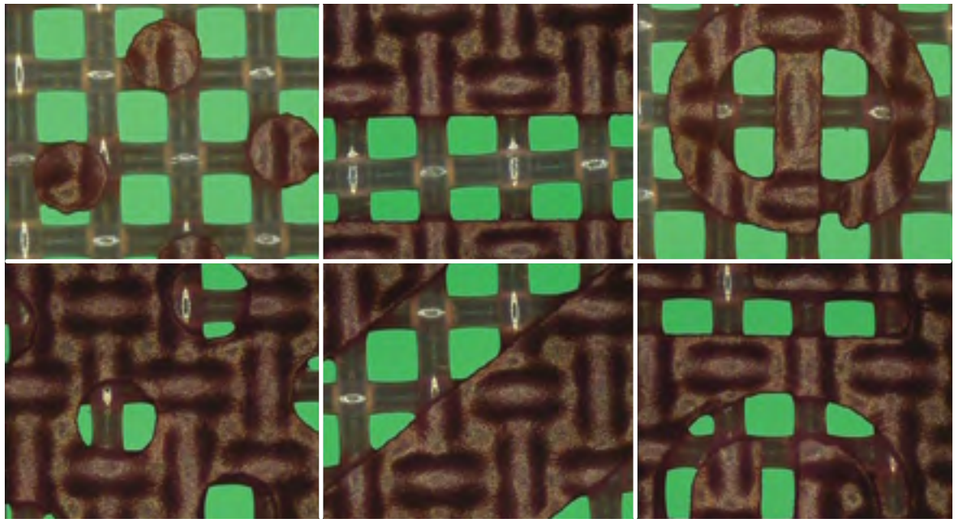
SAATI LTS Series 1st Gen Individual Specs

Machine	LTS 6080	LTS 6012	LTS 8012	LTS 1015
Lasers	96	96	128	160
Dimension	170 x 95 x 93 cm 66.9 x 37.4 x 36.6"	265 x 73 x 169 cm 104.3 x 28.7 x 66.5"	265 x 73 x 169 cm 104.3 x 28.7 x 66.5"	292 x 73 x205 cm 114.9 x 28.7 x 80.7"
Weight	525 kg / 1156.4 lbs	878kg | 1935.6 lb	878kg | 1935.6 lb	1376 kg | 3033.5 lb
Max Image Size	60 x 80 cm 23.6 x 31.5"	60 x 120 cm 23.6 x 47.2"	80 x 120 cm 31.5 x 47.2"	100 x 150 cm 39.4 x 59.1"
Max Frame Size (x1)	85 x 110 cm 33.5 x 43.3"	110 x 170 cm 43.3 x 66.9"	110 x 170 cm 43.3 x 66.9"	135 x 200 cm 59.1 x 78.7"
Max Frame Sizes (x2)	holds more than two small frames	58 x 78 cm 23 x 31"	64 x 91 cm 25 x 36"	64 x 91 cm 25 x 36"
Power Con-sumption	350 W	800 W	800 W	1000 W



SAATI LTS Series Universal Specs

Resolution	847 - 1016 - 1270 - 1693 - 2540
Voltage	110/240 V
Interface	USB 2.0
Process Mode	Bi-Directional
Stencil Materials	Most kinds of emulsion & film
Max. Recom. Stencil Thickness	700 µm
Repeatability	Less than 0.1 mm
Sample Exposure Settings	Fabric Type SAATI Hi-R 120.34 (305.34) | Color: Yellow Emulsion: SAATIgraf CTS7 | EOM: 9 µm DPI:1270 | Power: 50 | Speed: 300 SAATI 21-Step Exposure Level: Step 5 **Time: Less than 3.5 Minutes**

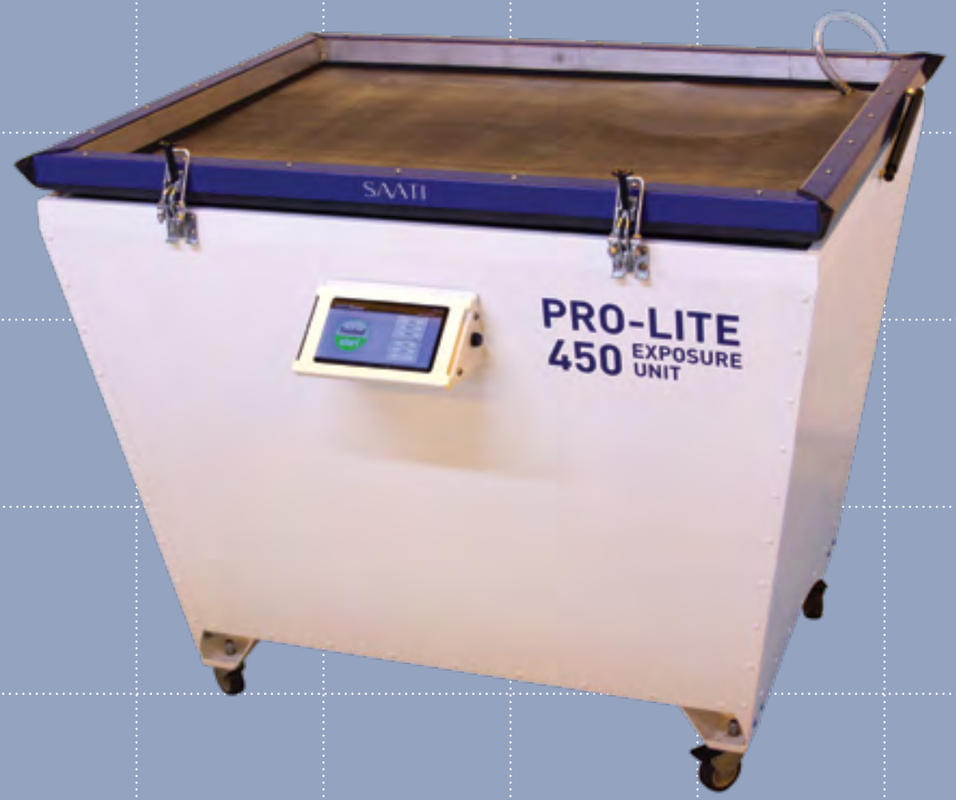


TARGETED

ProLite LED Lamps & Exposure Unit

ProLite 450SCX

Efficient Targeted Wavelength LED Exposure Unit



Description

Self-contained, high efficiency LED screen exposure system, with programmable timer and one-touch operation.

Applications

Designed to efficiently expose screen printing stencils.

Characteristics

- Compact space saving design
- High Intensity LED with reflector
- Automatic one-touch operation
- Works with all one & two-part emulsions and stencil films
- No heat, with low power consumption & 110V operation

Features/Benefits

- 405nm high intensity LED with customized reflector – even coverage and sharp stencils at super fast exposure times
- Touch screen control with programmable App – fast & easy set-up and multiple preset exposure times
- Automatic operation pulls vacuum then starts & stops exposure – load screen, press start & walk away
- Instant start to full power & constant light output – consistent exposures and durable screens
- 10,000+ hour lamp life and easy, low cost, blanket replacement – durable, dependable & low maintenance performance

Specifications

- Maximum frame size 25" X 36"
- Overall dimensions (W x D x H) 42.25" X 34.75" (39.25" incl. control panel) X 33.25" (36.5" incl. casters)
- Weight 167lbs
- Electrical requirements 85 – 265V with 300/450W power consumption
- Two year limited warranty including parts (excluding glass, blanket & tablet)

SAATI Americas Corp
www.saati.com | Contact SAATI | U.S. Online Ordering

ProLite 450

Efficient Targeted Wavelength LED Exposure Lamp

Description

450W 405nm LED exposure lamp

Application

Designed to efficiently expose screen printing stencils

Characteristics

- High intensity with even illumination
- Instant start to full power
- 10,000 hour lifetime rated
- Works with all one & two part emulsions, and stencil films
- Efficient low cost replacement for expensive metal halide systems

Features/Benefits

- Optimum wavelength for fast exposure, deep cure & wide latitude
- Runs cold, glass stays cool and no extra a/c load
- Constant light output, no photocell/filter/light integrator calibration needed, just a simple timer
- 85V–265V rated and works with any 110V outlet

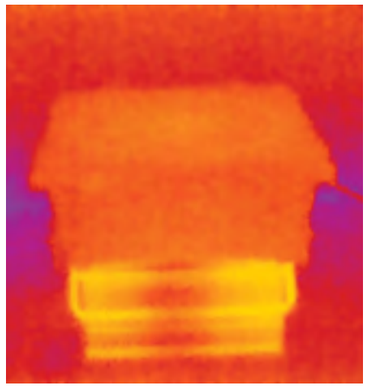
Recommended Usage

- Use at a minimum of 24" distance for even exposure of one 23x31 or 25x36 screen.
- Use at a minimum of 36" distance for even exposure of two-up 23x31 or 25x36 screens.

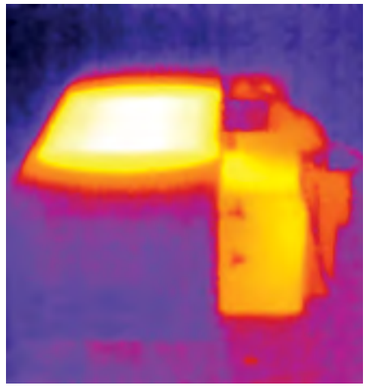
Specifications

- Dimensions: 13"L x 15"W x 16.5"H
- Weighs 28.65 lbs.
- Uses 110v standard wall outlet

The perfect low cost replacement for burnt out Metal Halide bulbs



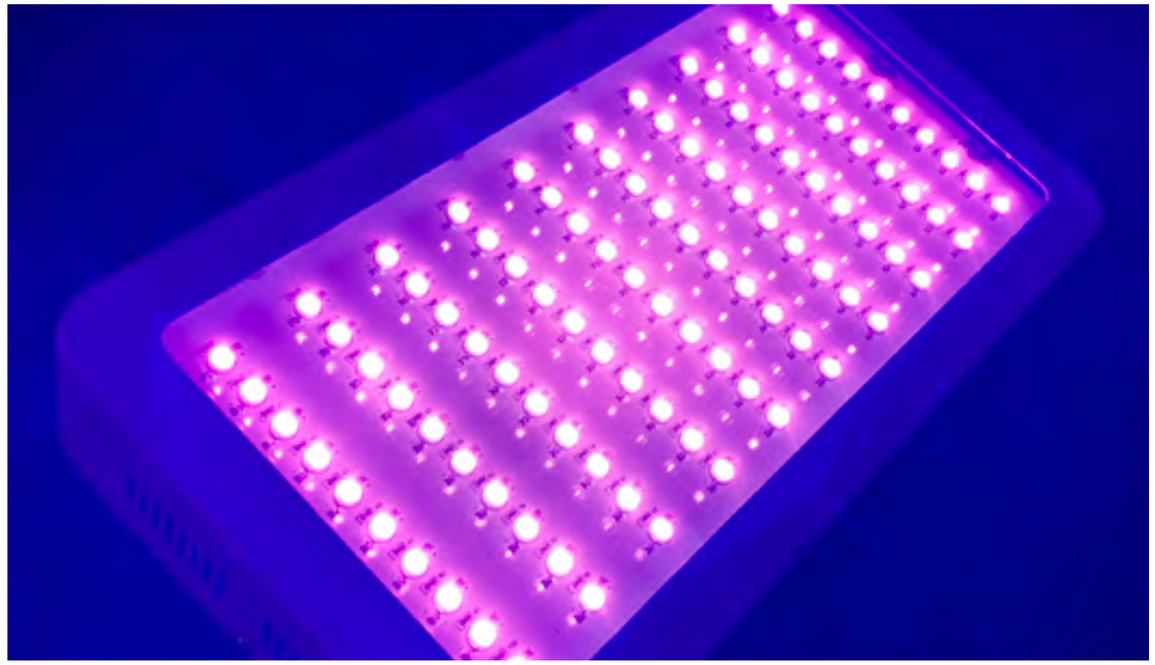
Low heat output of SAATI ProLite 450 LED Lamp



High heat output of traditional Metal Halide Lamp

ProLite 300 Multi

Efficient Targeted Wavelength LED Exposure Lamp



Description

300W 405nm LED exposure lamp

Application

Designed to efficiently expose screen printing stencils

Characteristics

- High intensity with even illumination
- Instant start to full power
- 10,000 hour lifetime rated
- Works with all one & two part emulsions, and stencil films
- Efficient low cost replacement for expensive metal halide systems

Features/Benefits

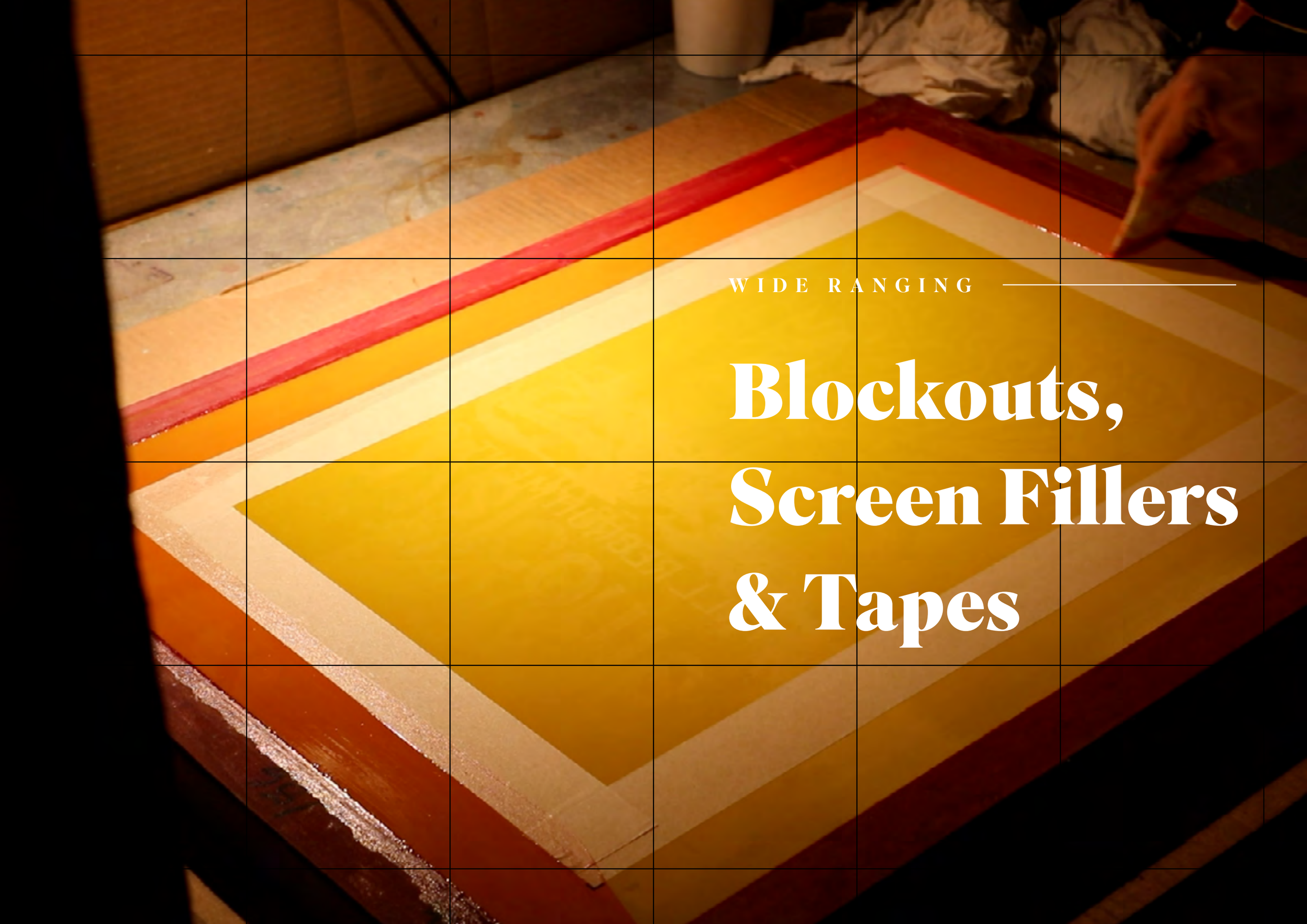
- Optimum wavelength for fast exposure, deep cure & wide latitude
- Runs cold, environment stays cool and no extra A/C load
- Constant light output, no photocell/filter/light integrator calibration needed, just a simple timer
- 85V–265V rated and works with any 110V outlet

Recommended Usage

- Use at a minimum of 24" distance for even exposure of one 23x31 or 25x36 screen.
- Use at a minimum of 36" distance for even exposure of two-up 23x31 or 25x36 screens.

Specifications

- Dimensions: 15.75"W x 8.375"H x 2.375"D
- Weighs 7.3 lbs.
- Uses 110v standard wall outlet



WIDE RANGING

Blockouts, Screen Fillers & Tapes

Blockout / Screen Fillers

SAATI Finish Series blockouts and screen fillers offer both high performance and user friendliness. Finish blockouts contain no solvents and provide increased filling power. All SAATI Finish Series products have pleasant-smelling formulations and are both non-hazardous and biodegradable. Finish blockouts spread smooth and uniformly for optimum drying and filling. Use to cover open mesh areas and pinholes.

Finish S1

Our most popular and economical blockout

- Red, water-based liquid blockout
- For use with solvent-based, UVcured, and plastisol ink
- Remove with water

Finish S2

Increased filling power

- Blue, water-based liquid blockout
- Increased filling power and more resistance to breakdown in high-stress printing such as with cylinder presses
- For use with solvent-based, UV-cured, and plastisol ink
- Remove with water

Finish S3

Highest Viscosity Finish S Product

- High viscosity version of Finish S2
- For optimum results on low mesh count screens

Finish W1

Unique reclaimable, water-based blockout

- Resistant to water and solvent
- Unlike other water-based blockouts, Finish W1 offers superior water resistance simply upon drying
- Resistant to water-based, plastisol, UV-cured and solvent-based ink
- Very high solids content offers increased durability
- Can be removed with emulsion reclaiming chemicals and a pressure washer

Description	Finish S1	Finish S2	Finish S3	Finish W1	Finish WU2
Viscosity	Medium	Medium	High	High	Medium
Color	Red	Blue	Blue	Purple	Red
Type	Water-based	Water-based	Water-based	Solvent-based	Water-based
Solvents	Compatible	Compatible	Compatible	Compatible	Compatible
Water	Not Compatible	Not Compatible	Not Compatible	Compatible	Compatible
Plastisol	Compatible	Compatible	Compatible	Compatible	Compatible
UV Curable	Compatible	Compatible	Compatible	Not Compatible	Compatible
Why Choose This Product	Good durability	Increased filling power and more resistance to breakdown	Finish S2 + High viscosity. Use with low mesh count	High durability. No solvents inside.	Permanent Screen Sealer, also catalyzes SB4+ to cure more quickly

Finish WU2 A&B

Two Part Polyurethane Screen Sealer

Application

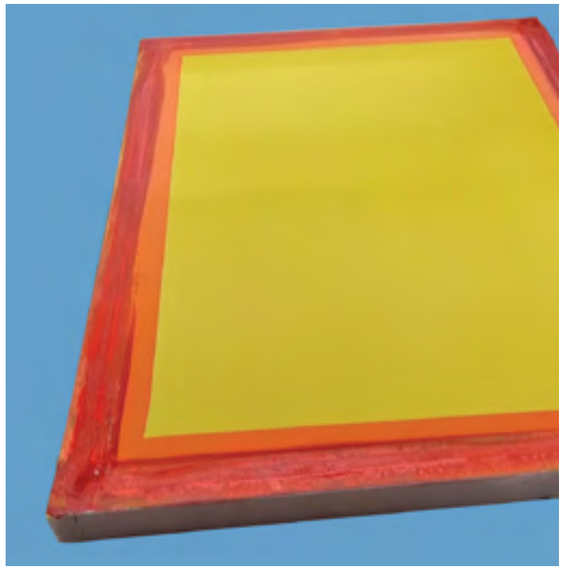
Provides protective coating for frame adhesive and permanently replaces blockout tape.

Characteristics

- Red water-based two part polyurethane
- Easy to apply by scoop coater, brush or scraper
- Tack free immediately after drying
- One hour plus mixed pot life
- Gains 100% water, solvent and corrosive resistance after curing for 24 hours

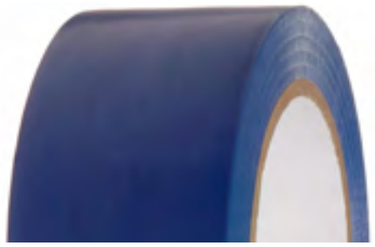
Features/Benefits

- Low odor, non flammable and easy to mix & apply
- Water based formula - does not attack & weaken frame adhesive
- Can be applied onto freshly dry glue on stretching table - to accelerate full cure & bonding of Ultrafix SB4 Plus Adhesives



Screen Printing Tapes

Blockout/Protection Tape



Magi-Blue Tape

A blue polyethylene tape that is backed with mylar plastic and used mainly as a blockout tape.

Characteristics

- Resists attacks by solvent-based inks and chemicals
- Compatible with retensionable and standard aluminium & wooden frames

Features

- Water based adhesive

Benefits

- Easy to apply
- Removes cleanly without leaving residue
- Durable during pressure washes andsolvent baths

Packaging

Available in 2" width on 36-yard rolls (36 rolls/ case), and 3" width on 36-yard rolls (24 rolls/case)

Pro Block Tape

A transluscent orange polyethylene tape used mainly to blockout the edges of the frame.

Characteristics

- 5.5 mil thick
- Medium tack level for easy removal
- Compatible with retensionable and standard aluminium & wooden frames

Features

- Acrylic based adhesive resists most common solvents

Benefits

- Flexible and formable to make inside corners easy to form

Packaging

Available in 2" width on 36-yard rolls (36 rolls/ case), and 3" width on 36-yard rolls (24 rolls/case).

Red Polyken Tape

Opaque red tape used to blockout the stencil edge in screen printing

Characteristics

- 8.0 mil thickness
- Natural rubber based adhesive
- Polyethylene backing
- Compatible with retensionable and standard aluminium & wooden frames

Features

- Rubber based adhesive resists solvents
- High tack level

Benefits

- Flexible and formable to make inside corners easy to form

Packaging

Available in 2" width on 36-yard rolls (36 rolls/ case), and 3" width on 36-yard rolls (24 rolls/case).

Cloth Backed Adhesive Tape

High performance polyethylene coated cloth backed tape for screen protection and blockout.

Characteristics

- 12.0 mil thickness
- Natural rubber based adhesive
- Polyethylene coated cloth backing
- Compatible with retensionable and standard aluminium & wooden frames

Features

- Rubber based adhesive resists solvents
- High tack level with low residue

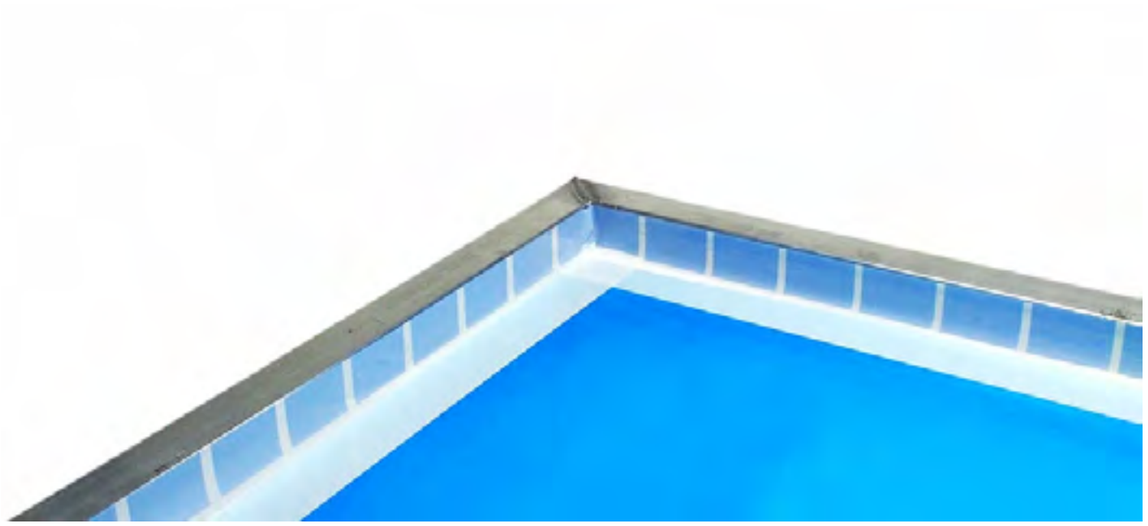
Benefits

- Extreme durability
- Flexible and formable to make inside corners easy to form

Packaging

Available in 2" width on 36-yard rolls (36 rolls/ case), and 3" width on 36-yard rolls (24 rolls/case).

Split Liner Tapes



Blue & White Split Liner Tape

Blue and white polyethylene tape used to blockout the edges of the frame.

Characteristics

- White area has full adhesion while blue area is less adhesive
- Compatible with retensionable and standard aluminium & wooden frames

Features

- Works well with both Plastisol and UV-cure and water-based inks

Benefits

- Using the less adhesive blue section as a handle, removing Split Liner Tape from the frame is very easy

Packaging

Available in a 4" width on 60-yard rolls and in 18 roll cases.
Also available in a 3" width on 60-yard rolls and in 24 roll cases

Full Adhesive Tape

Blockout tape fully adhesive across the entire surface - identical to the white portion of Split Liner Tape.

Characteristics

- White polyethylene tape
- Compatible with retensionable and standard aluminium & wooden frames

Features

- Works well with both Plastisol and UV-cure and water-based inks
- Peels off just as easily as the white edge of Split Liner Tape

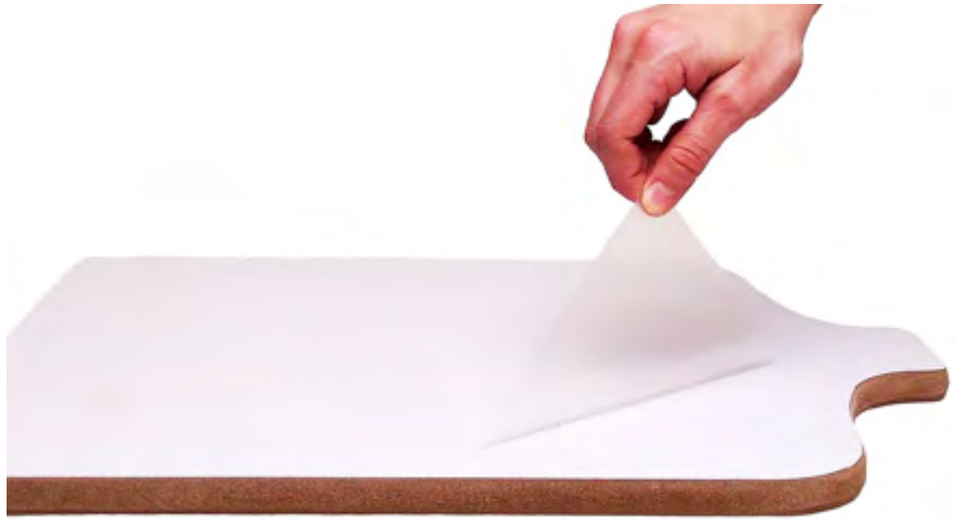
Benefits

- Use this to extend coverage further into the emulsion area from the frame edge
- Apply right over the white edge of Split Liner Tape for the same easy removal

Packaging

Available in a 3" width on 60-yard rolls and in 24 roll cases.
Also available in a 2" width on 60-yard rolls and in 36 roll cases

Pallet Tapes



Dual Tack Pallet Tape

Rolls of white double sided adhesive tape for temporarily adhering textiles to the pallet for printing.

Characteristics

- Medium tack level for easy garment removal without stretching
- Compatible with all garment types

Features

- Garment side is covered with a layer of paper for easy placement onto the pallet
- Can be refreshed with a damp sponge to remove lint

Benefits

- Doesn't require any applications of liquid adhesives
- Peels off easily at the end of its service life

Packaging

Available in 15 and 18" widths on 36-yard rolls

4350 Pallet Tape

White adhesive tape used to cover pallets, enables the application of Pallet Adhesives to the tape, rather than directly onto the pallet

Characteristics

- Single sided paper tape
- Natural rubber adhesive on pallet side

Features

- Easy handling - applies to and removes from pallets without difficulty due to medium tack level
- Adhesives applied to the paper can be refreshed with a damp sponge to remove lint

Benefits

- Apply both sprays and spreadable liquid pallet adhesives to this tape rather than the equipment
- Peels off easily at the end of its service life, reducing the total clean up effort

Packaging

Available in 12, 16, 18 and 24" widths on 100-yard rolls

ILLUMINATING

Quality Control Devices

Quality Control Devices

When you measure quality at every stage of screen production and on press, you take control of the many variables in screen-making and printing. Most importantly, you have the means to the consistency and repeatability that will boost your screen-printing productivity and profitability. SAATI brings you the most comprehensive selection of highly accurate, yet easy-to-use instruments to monitor and confirm screen quality at each step.

As specialists in screen-making products and innovators in QC devices, we've made sure that these instruments are practical, affordably priced, durable enough for continuous use and simple to operate.

Yellow LED Safelight

- **High intensity illumination won't inhibit work**
- **Pure yellow light is 100% safe with no**
- **effect on any stencil material**
- **Low power consumption of only 9W**
- **Standard light socket fitting**

Blue Light-Safe Glasses

We know that blue/purple wavelength light causes photosentitive stencil materials to begin curing, and that yellow wavelength lighting is the safest for professional, repeatable stencils. What you may not know is that there is a simple and inexpensive tool to determine whether your lab is optimized or not.

TQM Blue Light Safe Glasses block all visible wavelengths of light except for blue, so if one wears them and can see in the screen making lab, then one has blue light contamination which will affect emulsions and films before and after stencil making, reducing the reliability of stencil production methods and ultimately printing quality.

Characteristics

- **Comfortable and durable glasses**
- **The one simple tool you need to ensure optimal light settings**
- **Easy to store in the screen making area**

Top: An example of the light in screen rooms with standard flourescent tube or LED lighting

Bottom: Light visible through the Safe Light Glasses shows the elevated presence of light wavelengths that affect photosensitive emulsions and films

Top: Visible light in a screen room with a form of yellow safe lighting

Bottom: The Safe Light Glasses show that there is not a significant amount of light wavelengths that affect emulsion & film, allowing tigther control of the stencil qualityduring exposure and developing

SAATI Mesh Counter

SAATI's Mesh Count Determiner is a fast and easy way to verify your mesh count. Can be used on stretched and unstretched fabric, with or without a stencil.

You can accurately count the number of threads per inch within +/-2 in mesh counts ranging from 22-528 TPI.

This is accomplished by placing one of the 2 included films (22-276 TPI and 274-528 TPI) onto your fabric and rotating the film until the moire pattern appears next to the mesh count.

Benefits

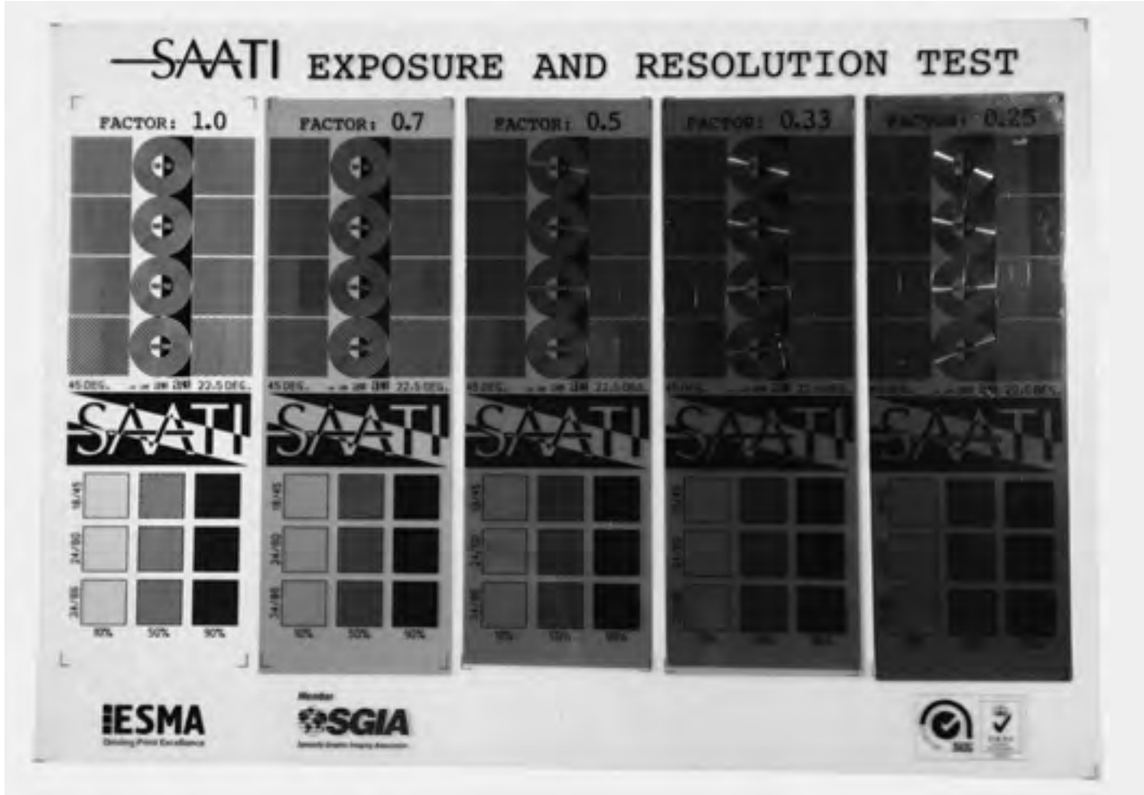
- Save down time by eliminating mis-marked frames in your inventory
- Confirm incoming frames from outside vendors
- Reduce moire by matching frames of similar thread count
- Can also be used on halftone films to determine if the LPI is correct

Angle Determiner

The ISPS Thread Direction/Mesh Angle Gauge is a quick and easy way to reference the mesh angle on any screen, eliminating the guesswork caused by unmarked screens especially in 4-color process printing. In addition, the gauge is very helpful in diagnosing moiré issues caused by screens or films. Can be used on both coated and uncoated screens, as well as film.

Directions

Use gauge by laying it directly on the screen or film. A moiré pattern appears on the tool at the angle it sees.



SAATI Exposure Calculator

Optically clear litho positive film for determining the correct exposure time for any particular type of photostencil emulsions or capillary films.

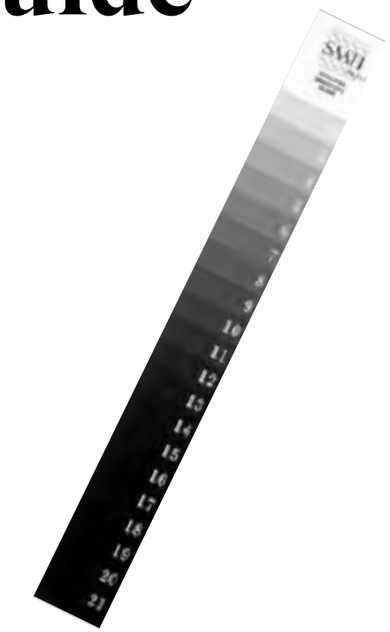
It contains five identical columns of fine detail graphics. Four of these are covered with a neutral density filter with a different light transmission value, in order to obtain five different exposure times from one single exposure process.

With this all-in-one film, it is very easy to identify the correct exposure time for future stencil production and it substitutes the traditional, time consuming step wedge exposure process.

SAATI 21-Step Sensitivity Guide

INFO

This is the exposure guide of choice for accuracy, ease of use and all-purpose application. With the SAATI guide, there is no guesswork or complicated interpretation. It is a more precise tool than the gelatin/density type exposure calculators, and unlike competitive products, it can be used on all stencil types and all mesh counts (other exposure guides are not compatible with pure photopolymer stencils, and do not perform as well on coarse mesh). Our 21-step guide is also much smaller (1/2" x 5 1/4"), so it can be used on all production screens. The SAATI Sensitivity Guide is a film containing a transmission type density scale with 21 steps ranging from transparent to opaque.

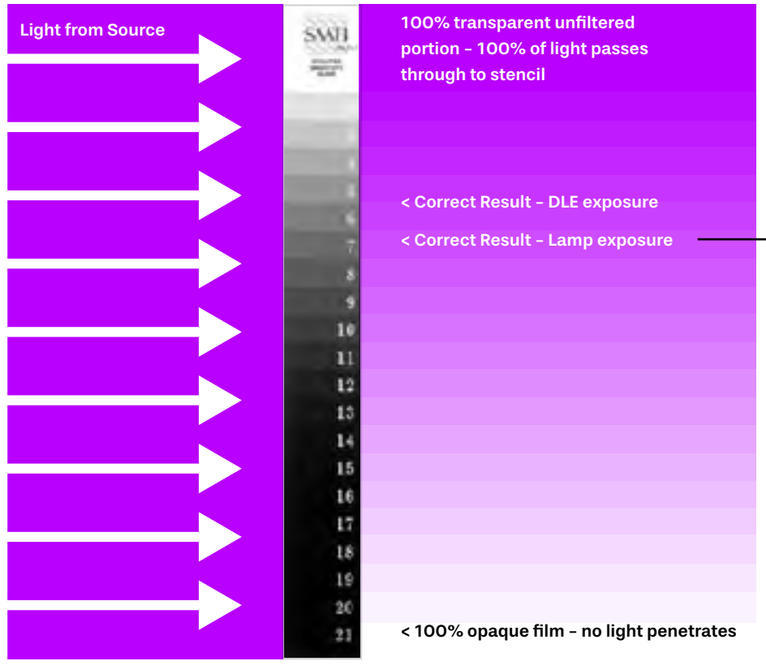


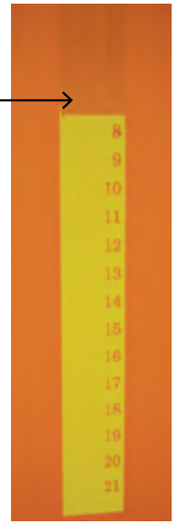
Directions

Place the SAATI 21-Step Sensitivity Guide on the screen.

Optimize your exposure so that when washing out the image, you are left with 7 solid steps.

(1 = zero density | 21 = solid black)





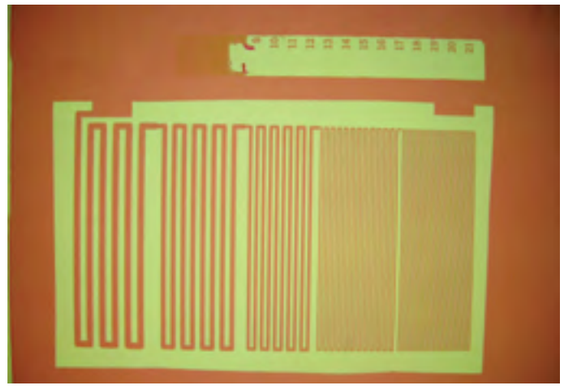
10 Seconds
Step 4
underexposed
R_X: ■2.8x (28s)

60 Seconds
Step 9
underexposed
R_X: ■0.5x (30s)

30 Seconds
Step 7
Perfect Cure

To decrease exposure by	Multiply exposure by
1 step	0.70x
2 steps	0.50x
3 steps	0.33x
4 steps	0.25x

To increase exposure by	Multiply exposure by
1 step	1.4x
2 steps	2.0x
3 steps	2.8x
4 steps	4.0x



Advanced Uses

When you record the correct exposure times for each of your products at different coating thicknesses, you will have a valuable tool that will save your time, product and money.

If you expose several seemingly identical stencils for the same amount of time but find some overexposed or details falling out, this can suggest an inconsistencies with your coating thicknesses.

You may find that a different step result produces better prints for a particular product you are using. The 21 step guide is useful in that you can determine the optimum result taking into account different cure levels.

You can pick any value on the step guide, but for most products, 7 steps (or 5-6 with CtS exposure) is the preferred cure level.

Ihara S900 Spectrophotometer

This small, light weight portable spectrophotometer is designed for easy operation and high precision for a variety of functions – measures the wavelength and output interval of light sources in your screenmaking area

Characteristics

- 0/45°, 400nm–700nm, 10 nm
- High precision (Repeatability) – ΔE*ab < 0.05
- Spectral reflectance, Chromaticity (X•Y•Z, L*a*b*, etc.), Color difference equations (ΔE*ab, ΔECMC, ΔE*94, etc.), and Densitometer functions (C•M•Y•K Display).
- In addition to RS232C, an infrared communication port (IrDA) is provided for wireless communication with a personal computer.

Digital Tension Meter

- Easy to use tool that measures mesh tension on screens
- Suitable for use with both polyester mesh and stainless steel mesh screens
- Enables precise control of screens for consistent & high quality printing results
- Easy to read digital display for precise & accurate measuring
- Also features USB/RS-232 and Bluetooth connectivity for data output and collection

Specifications

- Measurement Range: 7~40 N/cm
- Display Range: 0~50 N/cm
- Resolution: 0.1
- Fiducial Error: 5%
- Operating Environment
  - Temperature: 0 ~ 40
  - Humidity: 10 ~ 90 %RH
- Power Supply: 4 x 1.5 V AAA Size (UM-4) Battery
- Dimensions: 175 x 95 x 40 mm
- Weight: 490 g (Not Including Batteries)
- Power off: 2 modes
  - Manual off at any time by depressing the power key till OFF shows on the display
  - Auto power off after 5 minutes from last key operation

TQM Aqua Check

The only stencil moisture meter, the TQM Aqua-Check determines when the stencil is dry enough to expose.

Our exclusive TQM Aqua-Check meter detects hidden moisture instantly. It is a fast and accurate measurement that prevents you from taking chances with your stencil. The battery-operated contact meter provides direct readings of the residual moisture content in coated (and dried) screens to ultimately prevent pinholes and premature stencil breakdown.

If a screen is not dried thoroughly before exposure, it will not harden effectively, and is therefore vulnerable to these deficiencies. The Aqua-Check's modest cost can save you big outlays in press downtime and stencil remakes.

There is no guesswork. Simply hold it against the emulsion or film surface and press the "READ" button for 2 seconds. Look at the dial.

Red for trouble ahead. Orange for risky. Green for go!

Positector Electronic Thickness Gauge

- Fast measurement speed—60+ readings per minute. Enhanced FAST mode—
- 90+ readings per minute for quick inspection.
- Ready to measure—no adjustment required for most applications
- NEW Larger 2.8" impact resistant color touchscreen with redesigned keypad
- for quick menu navigation
- NEW On-gage help explains menu items at the touch of a button
- Flashing display—ideal in a noisy environment
- RESET feature instantly restores factory settings

Accuracy

- **Certificate of Calibration showing traceability to NIST or PTB included**
- Built-in temperature compensation ensures measurement accuracy
- Hi-RES mode increases displayed resolution for precision applications
- Conforms to national and international standards including ISO and ASTM

Durability (6000 model)

- NEW Weatherproof, dustproof, and water-resistant—IP65-rated enclosure
- NEW Ergonomic design with durable rubberized grip
- Wear-resistant probe tip
- Shock-absorbing protective rubber holster for added impact resistance
- Two year warranty on gage body AND probe

All Gauges Come Complete

with precision plastic shim(s), hard shell storage case (DFT model), wrist strap, 2 AAA alkaline batteries, instructions, Long Form Certificate of Calibration traceable to NIST or PTB, USB cable, two (2) year warranty.

- 600 Model also includes protective rubber holster, protective lens shield, convenient carrying case, PosiSoft Software, 3 AAA alkaline batteries,
- Size and weight are for the PosiTector gage body only and do not include the probe.
- Conforms to ISO 19840/2178/2360/2808, ASTM B244/B499/D1186/ D1400/D7091/E376/ G12, BS3900-C5, SSPC-PA2 and others

Positector 6000

- Size: 127 x 66 x 25.4 mm (5" x 2.6" x 1")
- Weight: 137 g (4.9 oz.) without batteries

Positector DFT

- Size: 108 x 43 x 20 mm (4.25" x 1.7" x 0.8")
- Weight: 54 g (1.9 oz.) without batteries*

Pocket Surf III Roughness Meter

The Pocket Surf III Surface Meter is a pocket-sized, battery-operated roughness gauge for measuring stencil and substrate surface roughness parameters in Ra, Rmax and Rz with digital readout. The Pocket Surf III is solidly built with a durable cast aluminum housing for years of accurate surface measurements. Its digital display is conveniently located on top of the device for optimum visibility.

Features

- General purpose probe with 0.0004"/10 micron radius
- Offers three traverse lengths
- Supplied with a certified reference specimen, riser plate battery and custom-fitted protective case
- Easy-to-read LCD display presents the measured roughness values in microinches or micrometers
- Out-of-range (high/low) and battery low warning signals
- Serial output for Statistical Process Control (SPC)

Benefits

- Economically priced
- Fast and accurate; measurement produced within a half second of traversing the surface
- Provides a measurable indicator of how efficiently the print side of the stencil controls edge definition
- An acceptable Rz value assures proper gasketing of the stencil to the substrate, and controls the ink flow

Options

- Power transformer to replace battery operation

Rex H-1000 Durometer Gauge

The Rex H-1000 Mini-Dial Durometer is both compact and easy to use. Its small dial face and included leather clipon carrying case make it easy for an inspector to carry the gauge for work around the shop, or out in the field.
The H-1000 durometer holds the maximum reading, until reset by pressing the button at the top of the gauge. The max-hold feature and small dial size make the H-1000 a good choice for hard to reach places, or for out of sight testing.

Characteristics

- Small face (1.675" Diameter)
- Easily fits into your pocket or clipped on belt
- Increments of 1 from 0-100
- One year warranty
- Furnished with a leather carrying case
- Conforms to ASTM D-2240 and NIST Traceable

Features/Benefits

- Will aid in identifying the durometer of any squeegee blade eliminating the guess work which will result in less press downtime
- Easily calibrated and simple enough for anyone to use
- Will help determine if the squeegee blade has fallen out of specification over time (loss of duro or gain in duro) which will result in on press printing issues

ViTiny 300 Plus Portable Digital Handheld Microscope

Magnify Stencil & Printed Details Up to 200x

This innovative VT-300 is the thinnest portable digital microscope on the market. With its built-in 2.8" TFT screen, this palm-size microscope is easy to use and does not need to be connected to a PC, netbook or laptop. The unique VT-300 with its full color display allows you to view images in high magnification, take standard photos, record videos, and transfer data to a PC. The software bundled with the microscope has many functions such as measurement, image editing, image comparison, aiming aid for observation, image flip, etc. VT-300 is ideal for the professional applications such as educational research, quality inspection, electronic checking, medical observation, collectables examination (coins, stamps), and anti-counterfeit.

Product Details

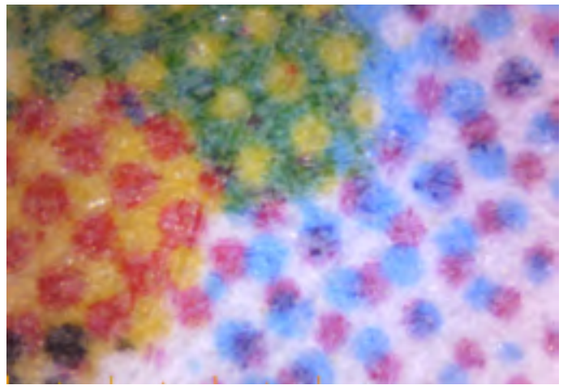
- Dimension: 121 (L) x 56 (W) x 26 (H) mm (4.8 x 2.2 x 1.0")
- Weight: 130g (4.4 oz) including battery
- Software Compatibility: Windows 7/Vista/XP
- Manufacturer's Warranty: 1 year.

Features

- Ergonomic design: lightweight, small and stylish
- Intuitive, easy-to-learn interface
- The unique design with protruding lens helps to easily locate tiny objects and focus
- Unique software with Measurement Functions, Image Editing, Image Comparison, Aiming Aid for
- Observation, Image Flip (vertical flip, horizontal flip, vertical & horizontal flip), etc.
- Built-in 2 types of rulers: L type and Cross type for measuring the length
- S-100 Supporter with height adjustment wheel and holding clips for flat objects

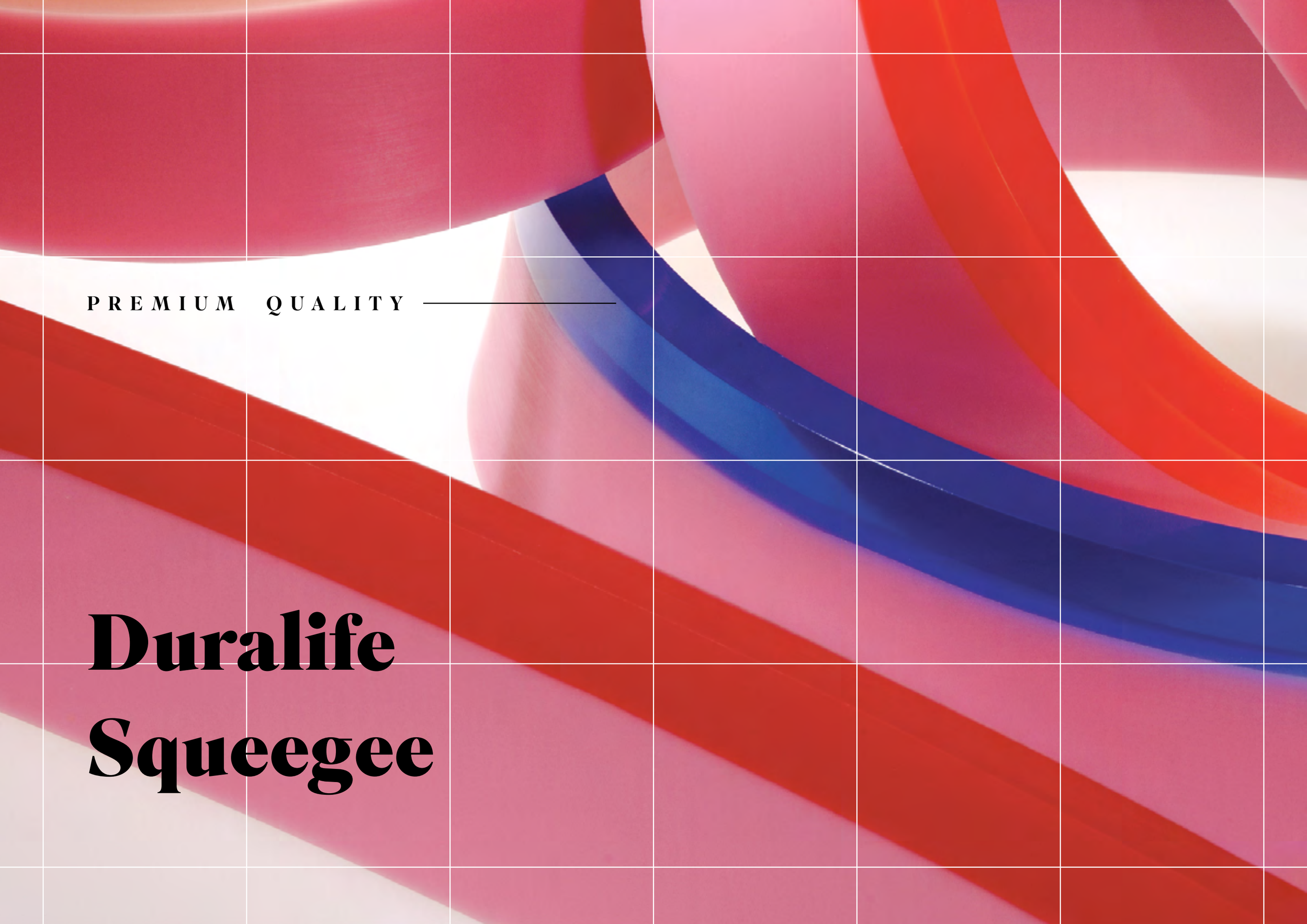
Technical Details

- Ergonomic design: lightweight, small and stylish
- Intuitive, easy-to-learn interface
- The unique design with protruding lens helps to easily locate tiny objects and focus
- Unique software with Measurement Functions, Image Editing, Image Comparison, Aiming Aid for
- Observation, Image Flip (vertical flip, horizontal flip, vertical & horizontal flip), etc.
- Built-in 2 types of rulers: L type and Cross type for measuring the length
- S-100 Supporter with height adjustment wheel and holding clips for flat objects



Included

Package Includes: Microscope, S-100 Supporter, Li-ion Battery, USB 1.1 Transmission Line, Power Adaptor, Instruction Manual, Installation CD, Calibrator for Measurement Application, Protection Bag, Cleaning Cloth, Wrist Strap



PREMIUM QUALITY

Duralife Squeegee

Duralife Squeegee

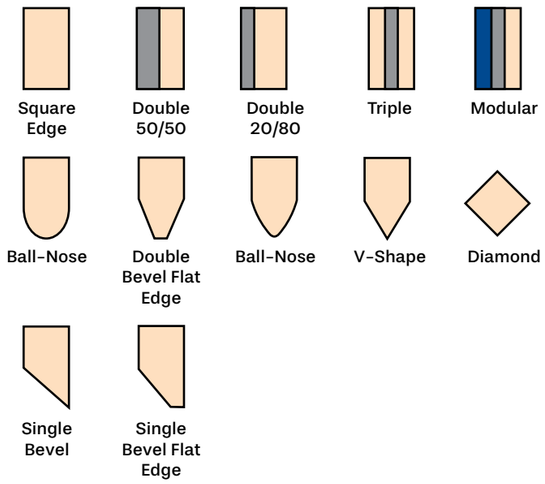
Precision Polyurethane Squeegee for Screen Printing

Extra solvent-resistant, molded or cut-edge blades made in the United States and abroad to SAATI's specifications, Duralife squeegees are available as either a cast blade made in individual cavity molds or as a precision cut-edge.

Manufactured with our exclusive urethane formulation that locks in abrasion resistance. Duralife squeegees hold up longer on press and resist softening, including UV and conventional solvent applications. Duralife will not be affected adversely by humidity, or harden in typical storage conditions.

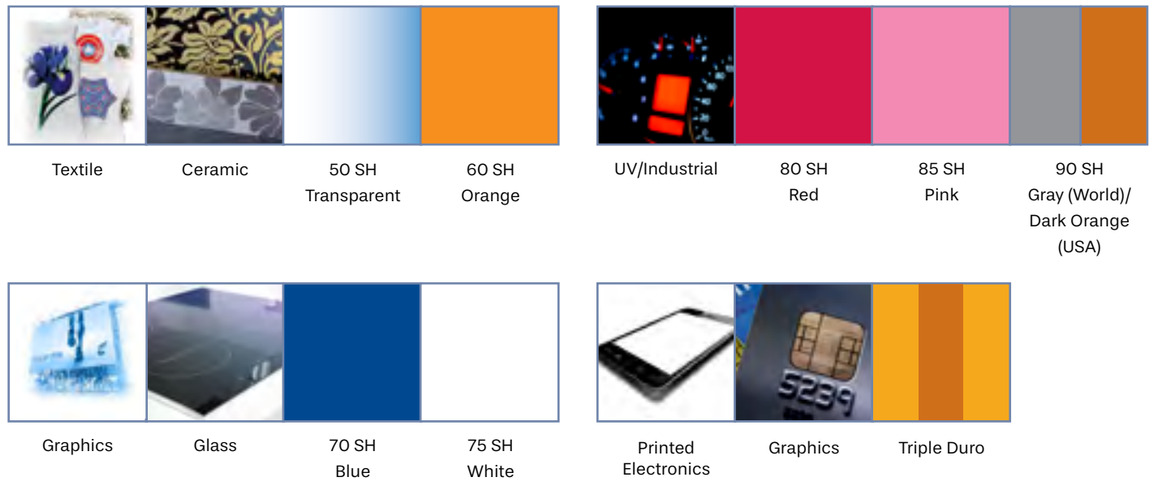
Choose from eight color-coded durometers, from extra soft to extra hard, or combine specifications for ultra-fine control.

Squeegee Profiles



Color Coding System		
50 durometer	Transparent	
60 durometer	Orange	
70 durometer	Blue	
75 durometer	White	
80 durometer	Red	
85 durometer	Pink	
90 durometer	Gray (World)	Dark Orange (US)

Applications



Duralife CE Cut-Edge Squeegees

Duralife's precision cut-edge offers the optimal sharp edge yielding the finest in print definition. Unlike rotary cut edges that leave a serrated pattern on the edge; our one-stroke cut leaves a perfect print edge.

CE Series

- **Premium cut edge**
- **Close tolerance on hardness range**
- **Good all around performance**
- **Available in all sizes**

The triple-duro blade offers two print edges by sandwiching a harder 90 duro center within the desired print durometer on each side controlling and minimizing the degree of squeegee flex. This reduced flex yields better print definition and better control of ink deposit by maintaining an effective print angle. The harder center also resists solvent attack over a single durometer blade thus maintaining rigidity throughout the production run.

The triple-duro squeegee is especially suited for use on higher tension screens in small to medium formats requiring a more stable and rigid squeegee blade and also on automatic presses to maintain the critical print angle across the entire width in large format printing.

In addition, with the squeegee pressure focused on the print edge, less overall pressure is needed reducing abrasion and solvent attack to the squeegee and preventing premature stencil breakdown.

Triple Durometer Profiles

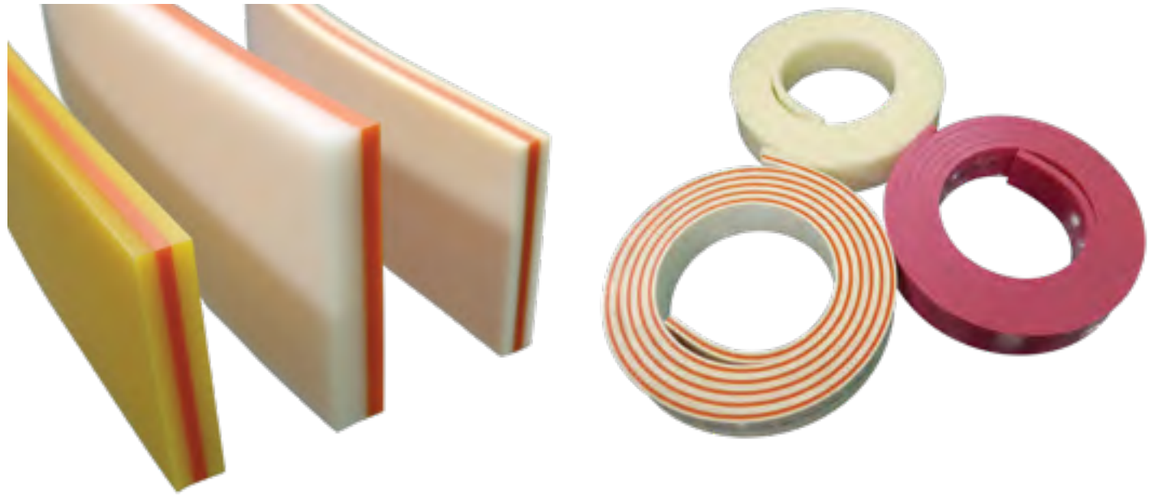
- **Excellent ink shear and better control of ink deposit**
- **Two softer print edges with harder center that resists flexing**
- **Reduces need for excessive squeegee pressure**
- **Maintains consistent print angle**
- **3/8" Standard profile.**

Please call for additional sizes.

Available in Shore A hardness range of 60/90/60, 70/90/70, and 75/90/75

Duralife CE Squeegee Color Coding System		
50 durometer	Transparent	
60 durometer	Orange	
70 durometer	Blue	
75 durometer	White	
80 durometer	Red	
85 durometer	Pink	
90 durometer	Gray (World)	Dark Orange (US)

Duralife CE Squeegee Triple Durometer Models			
60/90/60			
65/90/65			
65/90/75 Modular			
70/90/70			
75/90/75			
80/90/80			
85/90/85			



Assembled Squeegee

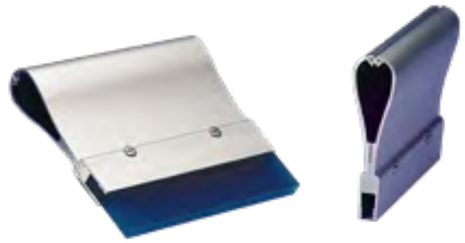
Standard squeegee size/profiles/hardnesses available in high-profile wooden holders are 2"H x 3/8"W in 4", 14", 16", 18" and 6'L rectangular and ballnose (rounded edge) in 60, 65, 70, 75, 80 and 85 durometers. Other combinations available by special order.

Any 2" H x 3/8" W x 6' L Duralife product may be ordered assembled in our high-profile wooden holder.

Magi-Grip Aluminium Handle

Any 2" H x 3/8" W x 6' L Duralife may be ordered assembled in our Magi-Grip high profile aluminum holder.

Available from stock in cut-to-size lengths of up to 118".



The individual cavity molds of Duralife ME Squeegee assure consistent and uniform blade thickness, dimensions and hardness. Duralife's molded blade maintains its print edge and resists nicking, especially our V-shape (double beveled). Unlike some cut "Vs" that can be irregular, our 60-degree angle is always precise and consistent.

Duralife ME Molded-Edge Squeegees

- **Premium molded edge**
- **UV and abrasion resistant**
- **Extended press life**
- **Resists nicking**
- **Sealed walls resist solvent attack**
- **Custom sizes available**

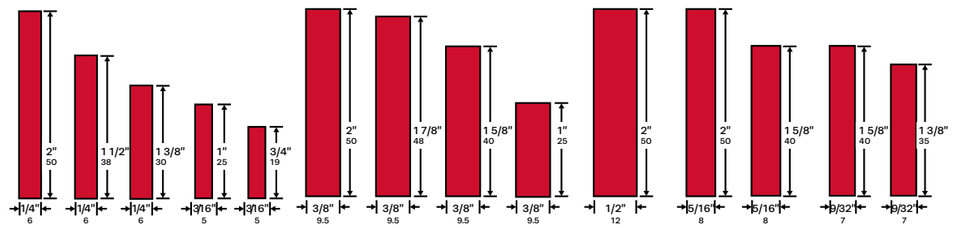
Single/Dual

Individual cavity molds assure consistent and uniform blade thickness, dimensions and hardness.

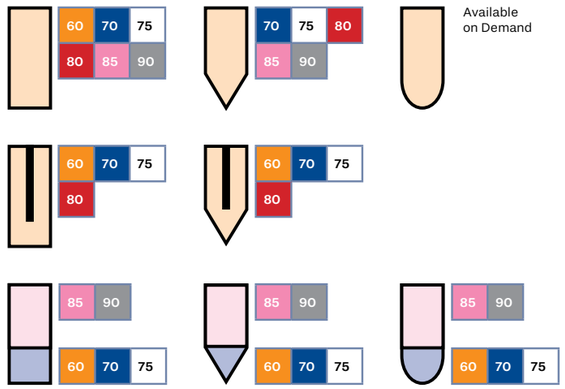
Duralife's molded blade maintains its print edge and resists nicking.

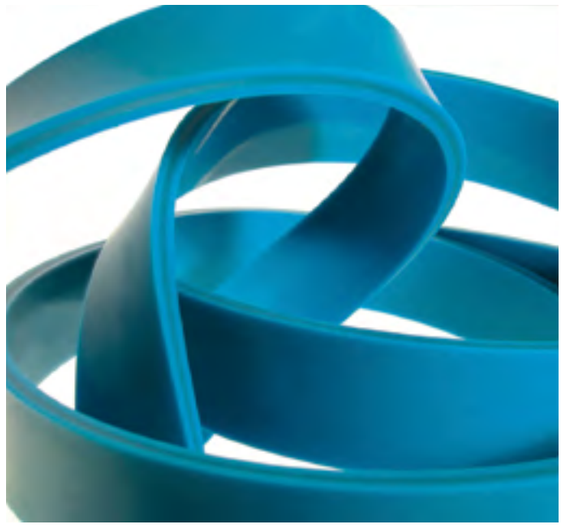
Duralife DUAL DURO reduces flexing and maintains a more consistent squeegee angle. Print with less pressure for longer stencil life.

Rectangular Profiles

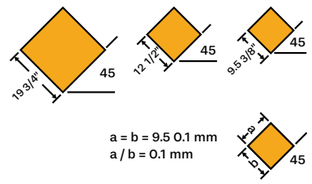


Fabrication Options

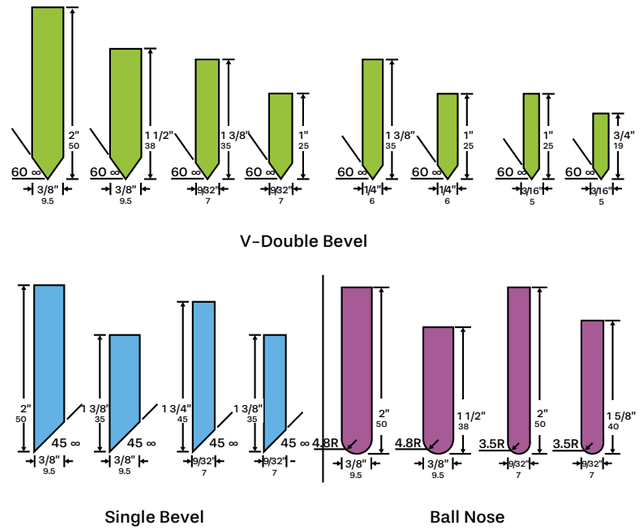




Diamond Profiles



Special Profiles



FULL SPECTRUM

Inks for Printing

Marabu

Screen Printing Inks

Marabu Maraflex FX

Maraflex FX is a solvent based screen printing ink designed for PVC films, ABS blanks, Polycarbonate (PC), and PETG. It has good lamination and embossing characteristics. The Satin finish makes this product receptive to overprinting with offset or water based inks.

Glass Ink GL

Glass ink GL is a solvent based screen printing ink designed for glass, ceramics, metals, aluminum, chrome plated parts, coated substrates, and thermosetting plastics. The satin gloss fast drying 2-component ink is specifically designed for interior applications and has excellent washing and abrasion resistance.

Marastar MGO

Baking Ink for glass and metal applications. Highly chemical-resistant screen and pad printing ink, high gloss, high opacity, single component ink system.Mara® Tech MGO is suited for applications on glass for restaurants, cosmetics, and furniture, for sensitive applications, particularly baby bottles, for 3C applications (touch panels), and metals, e. g. stainless steel panels.

Ultra Pack LEDC

UV-LED-curable Screen Printing Ink for pretreated polyethylene and polypropylene, polyester PET and PETG, rigid PVC, polycarbonate PC, and polystyrene PS. Very fast curing, high gloss, very good water resistance, good structural viscosity, versatile.Ultra Pack LEDC was especially designed for direct printing onto packaging and containers.

Ultrapack UVC

Ultrapack UVC is a UV curable screen printing ink designed for pre-treated PE and PP, PET, PETG, Rigid PVC, Polycarbonate (PC) and PS. Due to its fast curing, high gloss, excellent water-resistant, and universal substrate compatibility it makes it a great choice for many applications.

Ultraglass UVGL

Ultraglass UVGL is a UV curable 2-component screen printing ink designed for interior flat glass as well as packaging and drinking glasses. This ink exhibits fast curing, high scratch resistance, excellent alkaline and chemical resistance, as well as dishwasher resistance.

Ultraswitch UVSW

Ultraswitch UVSW is a UV curable screen printing ink designed for membrane switch and overlays made of Polycarbonate (PC) and coated polyester foils. The fast drying flexible ink film will accept embossing and die cutting.

A complete complement of ancillary products like thinners, retarders, metallics and mixing clears is available.

Pad Printing

Tampa Plus TPL

Pad printing ink for ABS, polystyrene, SAN, rigid PVC, polycarbonate, acrylic glass, and varnished surfaces.
Very fast drying 1 or 2 component system, resistant to alcohol and petrol, for closed and open systems.
This glossy and very fast drying pad printing ink particularly distinguishes itself by a very good printability even in a closed ink cup system. It is therefore especially suited for printing onto high-quality products such as cosmetic packaging, housings, and other items requiring a high resistance, but is also commonly used for industrial applications and promotional items.

Tampa Tech TPT

Pad printing ink for pre-treated polyethylene (PE) and polypropylene (PP), ABS, polyamide, thermosetting plastics, metal, and varnished surfaces.
High gloss, good opacity, fast drying 2 component ink system, resistant to chemicals, universal use.
Tampa® Tech TPT is used when there are high chemical resistance requirements, on thermosetting plastics, polyethylene, polypropylene, and metals.

Tampa Pur TPU

Pad printing ink for pretreated polyethylene and polypropylene, lacquered metals and substrates.
High gloss, good hiding power, fast drying 2-component ink, chemical resistant
Tampa® Pur TPU is very suitable when excellent mechanical and chemical resistance is required on duroplasts, polyethylene, polypropylene and metals.

Marabu

Digital Printing Inks

Marabu has long played a key role in shaping printing technology. Their innovative ideas and products combined with in-depth knowledge of printing processes have been instrumental in driving printing technology forward. All over the world, Marabu is synonymous with high-quality inks, manufactured to the highest standards.

Enthone

Industrial Printing Inks

Cat-L Inks

Enthone 50 Series Cat-L Inks are permanent, two component, epoxy-based screen printing inks. They may be used with a selection of catalysts which cure at elevated and/or room temperatures. When properly applied and cured, Cat-L Inks have excellent adhesion to photoimageable, thermal and UV solder masks, glass, metal and plastic. They have excellent chemical and thermal resistance properties.

Enthone 50 Series Cat-L Inks are used in the electronic, aerospace, automotive, appliance and decorative container industries. Uses include the permanent marking of circuit boards, semiconductor components, connectors, dials, nameplates, edge-lit panels, chassis, glass and thermoplastics

Enthone M Series Permanent Epoxy Marking Ink

M-Series inks are permanent, two component, epoxy-based marking inks. They may be used with a selection of catalysts which cure at elevated and/or room temperatures.

When properly applied and cured, M-Series inks have excellent adhesion to glass, metal and thermosetting plastics. They have excellent chemical and thermal resistance properties.

M-Series marking inks are used in the electronic, aerospace, automotive, appliance and decorative packaging industries. Uses include the permanent marking of semiconductor components, printed circuit boards, connectors, dials, nameplates, panels, chassis, glass and thermoplastics.

Total Ink Solutions

Glitter Infused Plastisol Ink Series

Total Ink Solutions Glitter Series is a phtalate free plastisol ink that has a low cure formulation to go along with its amazing glitter properties. This series is the ultimate choice when looking to add some bling to your client's project.

Features

- Vibrant colors
- Double Hit – no underbase
- Low Cure
- Short flash times

Details

Print glitter with ease by using the correct mesh screen. There is no need for an underbase with this product. Simply print 2 hits of ink and you are good to go for each color. If you are printing multiple inks, then flash the glitter ink at 220°F (105°C) for 3 – 5 seconds prior to printing your next color. The glitters reflective attribute may elongate the flash time depending on flash unit. Make sure to test prior to full production.

Curing Instructions

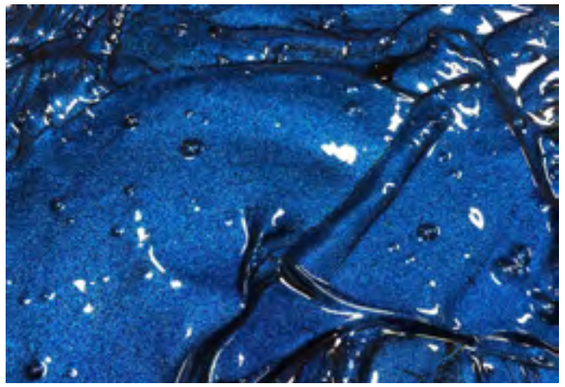
- Flash at 220°F (105°C) for 3 – 5 seconds and cure at 280°F (137°C) – 300°F (148°C).

Storage Information

- Store at 65–90°F (18–32°C), avoiding direct sunlight. Best Use within one year of manufacturing date.

Shimmer Plastisol Ink Series

Total Ink Solutions Shimmer Series is a phtalate free plastisol ink that creates a simulated glitter / metallic look, but with the ability to still print through a 110 Mesh Screen. This series is the ultimate choice when looking to add some sparkle to your client's project.



Features

- Vibrant colors
- Double Hit – no underbase required
- Opaque
- Smooth Surface
- Excellent adhesion

Details

Print ease with ease by using the correct mesh screen. There is no need for an underbase with this product. Simply print 2 hits of ink and you are good to go for each color. If you are printing multiple inks, then flash the shimmer ink at 220°F (105°C) for 3 – 5 seconds prior to printing your next color. The shimmers reflective attribute may elongate the flash time depending on flash unit. Make sure to test prior to full production.

Storage Information

- Store at 65–90°F (18–32°C), avoiding direct sunlight. Best Use within one year of manufacturing date.

Curing Instructions

- Flash at 220°F (105°C) for 3 – 5 seconds and cure at 320°F (160°C).year of manufacturing date.

Total Ink Solutions

Day Glow Fluorescent Plastisol Ink OL Series

Total Ink Solutions OL Series is a phthalate free plastisol ink that has a high opacity and bleed resistant formulation to go along with our extremely Fluorescent colors, and being the creamiest ink in the industry. Try it out in your shop today and see what everyone is talking about!

Features

- **Extremely Vibrant colors**
- **Creamy Inks**
- **High Opacity**
- **Bleed Resistant**
- **Soft hand prints**
- **Short flash times**
- **Underbase NOT required**

Details

Designed for single and multiple color jobs, with a print flash print on up to a 50% Cotton / 50% Polyester substrate. You can use this product on a range of substrate colors ranging from light to darks with the same effect and high opacity. For the best color output, it is suggested to use a white base on dark. For bleed resistance, use an under base white.

Curing Instructions:

- **Flash at 250°F (121°C) for 3 - 5 seconds and cure at 320°F (160°C) – 330°F (165°C).**

Storage Information:

- **Store at 65-90°F (18-32°C), avoiding direct sunlight. Best Use within one year of manufacturing date.**

International Coatings

White Textile Inks

Cool White

Low bleed, fast flashing, low tack, flexible curing, non-phthalate plastisol screen printing ink.

Cool White has a creamy viscosity with a great body, making the ink suitable for printing on auto and manual presses.

Cool White offers superior performance over a wide range of substrates, including standard textiles along with hard to print promotional items.

Performance Pro White

Low fusing, fash flashing, low tack plastisol screen printing ink.

Performance Pro White has been specifically designed for use on 100% polyester, polyester stretchable blends, and performance blacks.

Performance Pro White exhibits excellent bleed resistance and stretch properties.

Poly White

Ultra low bleed, high pigment, fast flashing, low tack, non-phthalate plastisol ink.

Poly White is specifically formulated to help block dye migration problems on various problem polyester content fabrics.

International Coatings

Black Inks

Ultimate Black

Non-phthalate, high pigment, fast flashing, low tack, high performance plastisol screen printing ink.

Ultimate Black provides a deep black color that is very creamy, short bodied and is easy to print on automatic or manual presses, and can cure as low as 275°F (135°C).

Ultimate Black achieves excellent penetration into fabrics when printed through fine mesh counts.

Black Matte

Plastisol ink well suited for automated equipment although excellent results can be achieved in almost any printing operation.

Low Build Black

7600 Series Direct Print Plastisol Inks consists of 28 non-phthalate, high performance colors, formulated for ultra high speed wet-on-wet automatic printing.

The 7600 Series Direct Print Plastisol Inks offer superior performance through fast production speeds, good opacity, and wide range of popular colors. The 7600 Series can cure as low as 275° F (135° C).

Well suited for fine detail and halftone printing using finer mesh counts.

Black Performance Pro Black

Low fusing, fast flashing, low tack plastisol ink.

Black Performance Pro is specifically designed for printing on high performance fabrics, 100% polyester and polyester stretchable blends.

Black Performance Pro ink offers excellent bleed resistance and stretch properties.

Guardian Anti-Bleed Under Base

Guardian Gray & Black blocks dye migration on problem fabrics that contain polyester, including sublimated dyed fabrics.

They can take a variety of top coats depending on application; from low cure products to regular temperature curing products.

They offers superior bleed resistant properties, but on some problem fabrics it may be possible for bleeding or dye migration to occur.

Features

- All temperature cure 275° - 320° F
- Creamy and easy to print, not thick and pasty
- Stops dye migration on problem fabrics
- Works on dye-sublimation camouflage
- Can be used as under base for water base inks

International Coatings

7100 Performance Pro Series

7100 Performance Pro Series is a low fusing, fast flashing, low tack plastisol based screen printing ink system, comprised of 18 colors and 1 base.

7100 Series is specifically designed for use on performance fabrics, 100% polyester and polyester stretchable blends.

7100 Series offers excellent bleed resistance and stretch properties.

Colors

7100 Mixing Base
7106 Purple
7112 Sky Gray
7113 White
7116 Black
7123 Lemon
7127 Gold
7138 Winter Orange
7146 Scarlet
7153 Cardinal
7160 Columbia Blue
7166 Royal Blue
7168 Navy Blue
7172 Dallas Green
7173 Kelly Green
7176 Dark Green
7181 Vegas Gold
7182 Old Gold
7184 Texas Orange

All-Pro 900 Series

All-Pro 900 Series Plastisol Ink is a fast flashing, 2 part ink, specifically formulated for printing on normally hard to print Nylon.

Being the industry standard for over 15 years, the ink's harder finish resists scratching, scuffing and peeling for an extremely durable image.

It can also be used without catalysts on nonwoven polypropylene bags (NPB) by adding up to 6% 3804 Low Cure Additive, which reduces cure temperatures down to 250°F (135°C).

Colors

900 Catalyst ★★
901 White
902 Black
903 Golden Yellow
904 Scarlet
905 Navy Blue
906 Royal Blue
907 Kelly Green
908 Metallic Silver✦
909 Metallic Gold✦
911 Purple
912 Brown
913 Lemon Yellow
914 Process Cyan
915 Process Magenta
916 Process Yellow
917 Maroon
920 Clear
926 Athletic Gold
931 Fluorescent Pink
932 Fluorescent Yellow
937 Athletic Dark Orange
938 Fluorescent Green
939 Fluorescent Blue
966 Athletic Light Royal

PRODUCTIVITY BOOSTING

Screen Washing Equipment

Washout Equipment

SAATI Flat Reclaim Counter

Reclaim screens in a customized horizontally integrated station. Each SAATI Flat Reclaim Counter is custom designed to take full advantage of the benefits provided by SAATI's unique chemical formulations.

Characteristics

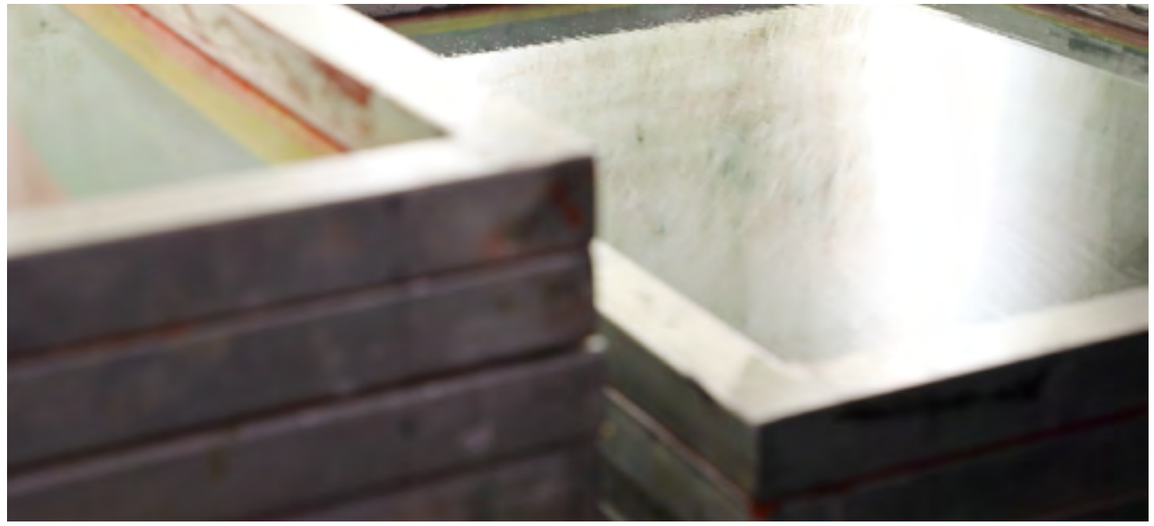
- Stainless steel construction
- Adjustable height legs
- Tilted flat work surface that allows operator to stack screens flat for higher efficiency
- Gutters that run along the back so the water drains quickly from the table, approx 8/10 gallon per minute.
- Quick Drain Style
- Drain attachment Ready

Features

- Modular pieces can be designed to conform to the shape of your reclaim area, including corners
- Simple to install drainage
- Tough stainless design resists impacts as well as chemicals
- Compatible with SAATI chemical drum dispensing units

Benefits

- Reclaim "The SAATI Way"
- With flat counter shape, advanced reclaim techniques including stacked dwell periods can minimize scrubbing and increase efficiency
- Average of 20 screens per hour with one operator, greater efficiency with assembly line technique



Sizes

Straight lengths come in 4', 6' and 8' lengths, with side walls attached to both end pieces. Corner pieces for creating L– shaped counters around corners are also available.

SAATI Pro Washout Booth

Reclaim screens in a contained sink, develop and examine quality screens.

Characteristics

- Polypropylene Construction 3/8" wall
- Chemical Resistant
- Screen Holder
- Wand Holder
- Vent Ready
- Quick Drain Style
- Drain attachment Ready
- Polypropylene Legs

Features

- Comes with on/off backlighting
- Simple to install drainage
- Sturdy polypropylene design

Benefits

- Backlighting helps you develop the details
- Prevents your screens from sliding when pressure-washed
- Built-in wand holders preserve your equipment

Directions for Use

Developing

Place screen in sink with lighting off. Rinse both sides of screen giving each area of stencil equal attention. As details emerge, use backlighting to identify under-rinsed areas, and to check for pinholes and lost details.

Reclaim

Place screen in sink. Apply chemicals by process, use backlighting to inspect reclaimed screens for residue.

Sizes

Height and Width are approximate outer dimensions, Depth is the inside measurement.

48"w x 48"h x 24"d
60"w x 48"h x 24"d
72"w x 48"h x 24"d
60"w x 60"h x 24"d
72"w x 60"h x 24"d
72"w x 72"h x 24"d

SAATI Elite Washout Booth

Reclaim screens in a contained sink, develop and examine quality screens.

Characteristics

- Polypropylene Construction 3/8" wall
- Chemical Resistant
- Screen Holder
- Wand Holder
- Vent Ready
- Quick Drain Style
- Drain attachment Ready
- Aluminum Legs

Features

- Comes with on/off backlighting
- Simple to install drainage
- Sturdy polypropylene design

Benefits

- Backlighting helps you develop the details
- Prevents your screens from sliding when pressure-washed
- Built-in wand holders preserve your equipment

Directions for Use

Developing

Place screen in sink with lighting off. Rinse both sides of screen giving each area of stencil equal attention. As details emerge, use backlighting to identify under-rinsed areas, and to check for pinholes and lost details.

Reclaim

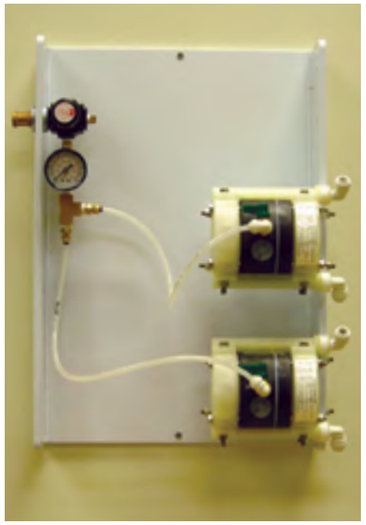
Place screen in sink. Apply chemicals by process, use backlighting to inspect reclaimed screens for residue.

Sizes

Height and Width are approximate outer dimensions, Depth is the inside measurement.

36"w x 48"h x 30"d
42"w x 48"h x 30"d
48"w x 48"h x 30"d
60"w x 48"h x 30"d
72"w x 48"h x 30"d
60"w x 60"h x 30"d
72"w x 60"h x 30"d
72"w x 72"h x 30"d

SAATI Drum Dispensing Units



Customers that buy consistent drum quantities of our reclaim chemicals are elligible for SAATI's Drum Dispensing Unit program, which optimizes efficiency and ease of application, especially in combination with the use of the SAATI Flat Reclaim Counter.

Expert installation by SAATI technical sales staff enables high volume chemical use even in tight quarters, linking up the portable spray guns in the reclaim area back to a drum storage location that can be in a different part of the shop.

Brush Pads

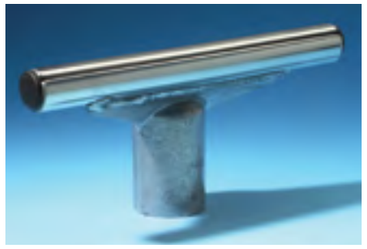
6 x 3.5" screen scrubbers fused to an ergonomic handle for quick and easy screen reclaim

Characteristics

- **Highly chemically resistant brush surface for the application or spreading of every type of screen printing chemical before and after printing**
- **White plastic handle is fused to the brush without any adhesives**

Features/Benefits

- **Fusing handle to brush means that no chemical can debond the pad from the handle**
- **Heavy duty handle encourages a motion that doesn't put stress on the wrist joint**
- **High chemical resistance makes the scrub pad compatible with even the harshest haze/ghost removers**
- **Brush can rest vertically on the handle to drain chemicals from the surface more quickly than face down**



Hammer Head Wet/Dry Vacuum Nozzle

The Hammer Head vacuum is an all-aluminium hose attachment specially designed for safely suctioning away most of the excess surface water from developed or recycled screens that will fit most wet/dry vacuums with a 1 1/4-1 1/2" hose end.

Available in 8-inch (20.3 cm) width.

Zentner Speedline

Continuous Flow System for
Automatic Washing and De-Coating

Each of the modules are individually self sufficient and are combined to form the SpeedLine system.

The modular construction allows extending the line at any time to incorporate upgrades; this also covers any changing requirements for future productivity. This means flexibility built on existing investment and extends the operational scope for the SpeedLine system.

The standard version Zentner SpeedLine consists of a combination of modules for loading, washing, dwell, rinsing, decoating, finishing and offloading. All units are made of highgrade rust free stainless steel 1.4301.

Optionally the SpeedLine system can be upgraded to included the Incline filtration system, StripLine filtration system and fully automatic loading and off loading magazines.
The control panel enables the activation and deactivation of the individual process modules. The conveyor speed can be set electronically to allow for variable settings.

Characteristics

- Brush free – non contact cleaning
- Modular construction – line extension possible at any time
- Low maintenance construction – simple operation
- Reduced consumption system – daily cost savings
- Optimized cleaning results
- Perfect ZENTNER Systems technology
- Use of environmentally friendly chemicals

Instructions

Place the used screen printing stencil on the **Loading Module**.

The ink-coated screen is transported through the **Wash Module**. Moving jet arms wash off the ink on both sides. The circulating cleaning agent is filtered and flows back to the supply tank.

In the **Dwell Module**, excess cleaning agent flows back to the tank of the wash module. The remaining cleaning agent prepares the screen for the final removal.

The **Rinse Module** removes any residue and remaining screen filler using high-pressure water from moving jet arms.

In the **De-coating Module**, the screens are sprayed on both sides at considerably high-pressure with de-coating agent.
The result is an optimally deep effect and reduced ghost images.
The chemicals used are filtered and returned to the cycle.

The **Finish Module** processes the stencil on both sides using high-pressure water from moving jet arms, completely removing all template residue.

The clean screen comes out at the **Offloading Module**.

The unit is delivered with all the necessary documentation and CE mark. Special sizes on request.

Designed & Manufactured in Germany.

Zentner Aqualine

Automatic Inline System
for Screen Developing

The standard Aqualine consists of 4 different modules with a 2m loading and offloading module.

The first module serves as an inlet sluice and has two static nozzle units for pre-watering on both sides. The subsequent modules are each 1 m wide. Both modules have a movable nozzle bar that develops the screens on both sides. The outlet sluice with integrated static nozzle bar rinses the screens with fresh water.

The standard version SpeedLine consists of a combination of modules for loading, washing, dwell, rinsing, decoating, finishing and offloading. All units are made of highgrade rust free stainless steel 1.4301.

Optionally the SpeedLine system can be upgraded to included the Incline filtration system, StripLine filtration system and fully automatic loading and off loading magazines.
The control panel enables the activation and deactivation of the individual process modules. The conveyor speed can be set electronically to allow for variable settings.

Characteristics

- **Modular design – line extension possible at any time**
- **Low-maintenance design – simple operation**
- **System with reduced consumption – daily cost savings**
- **Optimized developing results**
- **Perfect ZENTNER Systems technology**
- **For a high throughput of screens**

Workflow

The exposed screen is placed in the **Loading Module (2m).**

Inlet Sluice:

The screen is transported through the **Inlet Sluice (600mm).** Static nozzle bars pretreat both sides of the screen with fresh water.

Module 1:

In the **Developing Module (1m)** the screens are sprayed on both sides at considerable pressure with circulated water.

Module 2:

In the **Developing Module (1m)** the screens are sprayed on both sides at considerable pressure with circulated water.

Outlet Sluice:

The developed screen is transported through the **Outlet Sluice (600mm).** Static nozzle bars spray from both sides fresh water on the screens to get the final result.

The clean screen comes out at the **Offloading Module**.

The unit is delivered with all the necessary documentation and CE mark. Special sizes on request.

Designed & Manufactured in Germany.

Zentner Compactline

Continuous Flow System for Automatic Washing and De-Coating

Each of the modules are individually self sufficient and are combined to form the CompactLine system.

The modular construction allows to extend the line at any time to incorporate upgrades; this also covers any changing requirements for future productivity. This means flexibility built on existing investment and extends the operational scope, since every CompactLine can be extendet to a fully functional SpeedLine.

The standard version SpeedLine consists of a combination of modules for loading, washing, dwell, rinsing, decoating, finishing and offloading. All units are made of highgrade rust free stainless steel 1.4301.

Optionally the CompactLine system can be upgraded to included the Incline filtration system and fully automatic loading and off loading magazines. The control panel enables the activation and deactivation of the individual process modules. The conveyor speed can be set electronically to allow for variable settings.

Characteristics

- Brush free - non contact cleaning
- Modular construction - line extension possible at any time
- Low maintenance construction - simple operation
- Reduced consumption system - daily cost savings
- Optimized cleaning results
- Perfect ZENTNER Systems technology
- Use of environmentally friendly chemicals

Instructions

Place the used screen printing stencil on the **loading module**.

The ink-coated screen is transported through the **wash module**. Moving jet arms wash off the ink on both sides. The circulating cleaning agent is filtered and flows back to the supply tank.

In the **dwell module**, excess cleaning agent flows back to the tank of the wash module. The remaining cleaning agent prepares the screen for the final removal.

The **rinse module** removes any residue and remaining screen filler using high-pressure water from moving jet arms.

In the **de-coating module**, the screens are sprayed on both sides at considerably high-pressure with de-coating agent. The result is an optimally deep effect and reduced ghost images. The chemicals used are filtered and returned to the cycle.

The **finish module** processes the stencil on both sides using high-pressure water from moving jet arms, completely removing all template residue.

The clean screen is issued at the **offloading module**.

The unit is delivered with all the necessary documentation and CE mark. Special sizes on request.

Designed & Manufactured in Germany.

Zentner SQ80

Automatic washing machine for squeegee and and other parts

With the Zentner SQ80 you can easily clean your squeegees, paint buckets or other containers or parts. The high quality stainless steel construction ensures effective cleaning and ensures the longevity of the system. The SQ80 squeegee washer offers an effective, efficient and economical way to clean your squeegees. The SQ80 squeegee washer is best suited for the use of a solvent with flash point > 60°C.

Basket diameter 800 mm

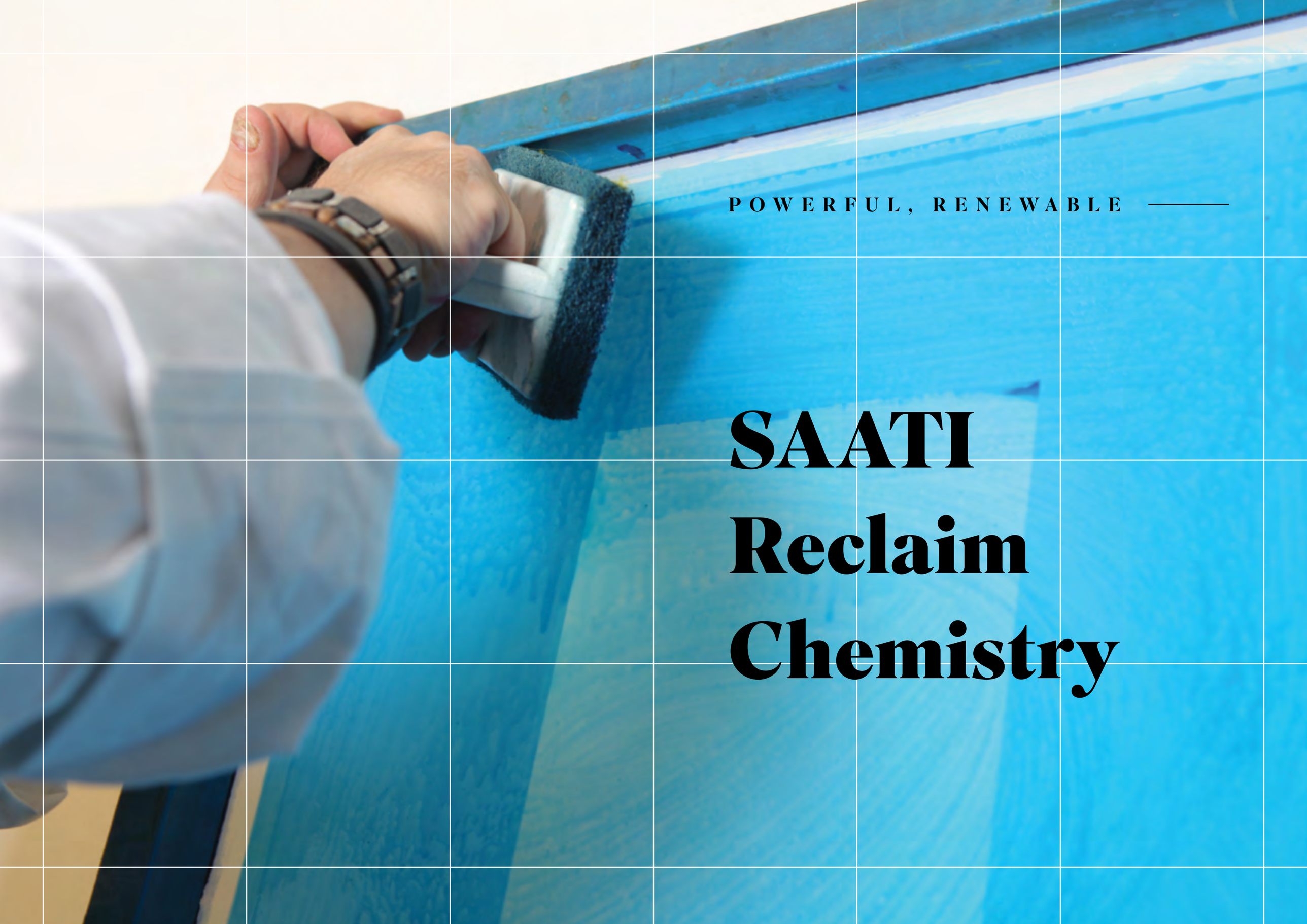
Usable inner height 400 mm

spraying pressure < 0.7 bar

Tank size 90 liters

Characteristics

- **Direct drive for the washing basket**
- **Lid lock**
- **Particle filter**
- **Edge suction**
- **Tap for easy emptying of the tank**
- **3 different cleaning cycles**



POWERFUL, RENEWABLE

SAATI

Reclaim Chemistry

SAATI Sustainable Chemicals

Natural ingredients feature heavily in our formulas. We utilize solvents and surfactants derived from renewable resources including corn, soy, coconut, and citrus as alternatives to derivatives of petroleum, a depleting resource.

Renewable ingredients are used whenever possible and high efficiency formulas are designed to minimize waste. Many of our products are offered as concentrates, or in bulk, to minimize post- consumer packaging waste and whenever possible we utilize packaging with a high-recycled content.

Our cleaning and reclaiming chemicals in particular are designed to be operator friendly, VOC-compliant and with minimal impact on the environment.

Some Green Product Highlights Include:

Direct Prep 2: Mesh prep & degreaser made with 100% renewable ingredients.

Remove ER2: Biodegradable stencil remover concentrate with high efficiency for reduced use level.

Remove IR3: Renewable soy-based ink remover with close to zero VOC's.

Remove IR4: Water-based ink remover with low organic content.

SAATI is Committed to the Production of Sustainable Screen Printing Chemicals

We avoid any use of toxic chemicals such as NMP & methylene chloride, HAPS, phthalates and heavy metals, to ensure RoHS compliance.

Our products are biodegradable and drain-safe when used according to instructions published in the SAATI SAATI product Technical Data Sheets.

Green Parameters: Where Does SAATI Fit In?

- Non-hazardous/less-hazardous product alternatives
- Products with easy biodegradability & that are drain-safe
- Products made with renewable ingredients
- Low VOC product alternatives
- Concentrates & bulk packaged product to minimize landfill waste
- Products with low use level & waste through high efficiency
- No toxics, NMP, methylene chloride, HAPS, phthalates or heavy metals used in any product

We achieve this through the use of high-efficiency formulas and replacement of 100% solvent-based products with water-based alternatives.

Remove HR5: Powerful and fast acting haze remover that is user friendly, easily biodegradable and made with 100% renewable ingredients.

Remove HR6: Stain remover & degreaser that is non-caustic with a pleasant cherry scent.

SCAQMD Compliant Product Package

World Class Chemicals for Each Step of the Screen Cleaning Process

SAATI manufactures a range of products designed for compliance with SCAQMD regulations governing VOC content. Products are formulated to maintain the same high efficiency and economy of use associated with SAATI's industry leading range of Press Wash, Ink, Emulsion and Haze Removers, as well as Mesh Pre-Treatments.

These are products for the printer that wants to pollute less but can not sacrifice efficiency or results in the reclaim area.

Pretreatments/Degreasers

- Direct Prep 1
- Direct Prep 2
- Direct Prep 3

Press Wash

- Remove PW1
- Remove PW8

Ink Removers

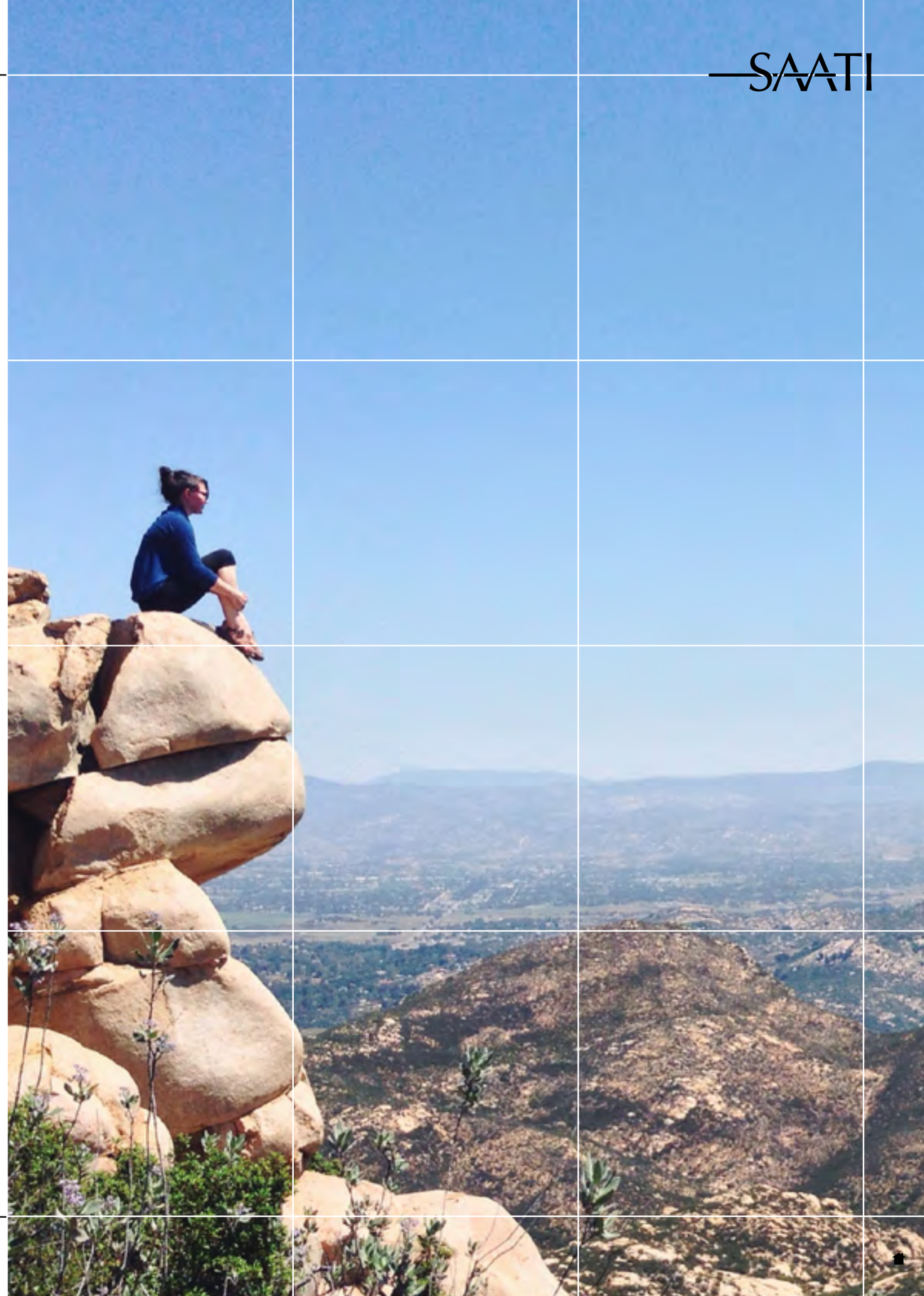
- Remove IR8
- Remove IR17

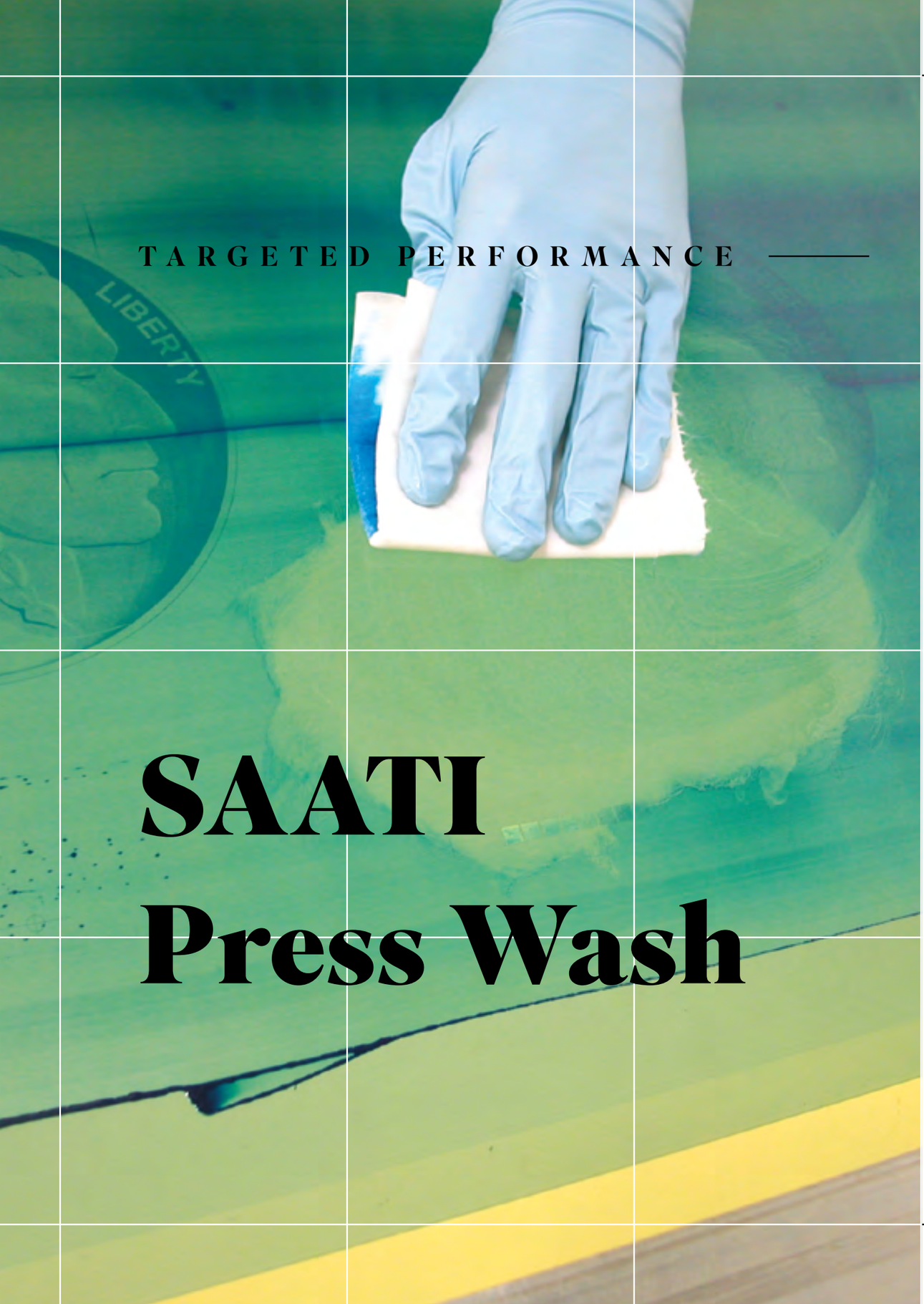
Emulsion Removers

- Remove ER1
- Remove ER2
- Remove ER6
- Remove ER10

Haze Removers

- Remove HR3





SAATI Press Wash

Remove inks on press prior to either color changes, full screen recycling, or to unclog blockages in the stencil. SAATI offers Press Washes for every type of ink, and also a formula compliant with SCAQMD regulations.

Screen Opener

Cleans Dried-In Ink From the Screen During Printing

- Works on all solvent-based inks including two-part epoxies
- Easy-to-use aerosol

Available in 12-oz Containers.

Remove PW1

Fastest-Evaporating Press Wash

- Most economical press wash
- Works on most inks
- Compliant with SCAQMD VOC limits—VOC free
- Flammable

Remove PW2

The Most Versatile Press Wash

- Highly effective on all inks
- Use on-press between ink changes or when saving stencil

Remove PW3

Low VOC Press Wash

- Less than 500g/L VOC content
- Highly effective on all inks
- Use on-press between ink changes or when saving stencil

Remove PW4

Press Wash for Plastisol Inks

- When wiped with 100% cotton rag, masking tape will stick immediately
- Remove spray tack adhesive
- Will not lock up plastisol resistant emulsions
- Pleasant orange scent

Remove PW5

Highly Effective on all Inks

- Use on-press for general screen maintenance and for color changes
- Orange scent

Remove PW6

Most Versatile Fast Evaporating Press Wash

- Highly effective on all inks
- Use on-press between ink changes or when saving stencil

Remove PW7

Universally Effective Press Wash

- Recommended for use with Solvent based, UV-Cured inks and 2-part inks
- Flash point 43°C/110°F
- Fast drying product that is highly effective on difficult to clean inks
- Can be used to remove pallet adhesives on press

Remove PW8

SCAQMD Compliant Press Wash

- Less than 100g/L VOC content
- Highly effective on all inks
- Use on-press between ink changes or when saving stencil

Remove PW9

Press Wash for Plastisol

- Economical
- Will not lock up plastisol resistant only emulsions
- When wiped with cotton rag, masking tape will stick immediately

Remove PW10

Apple-Scented Press Wash for Plastisol

- Economical
- Will not lock up plastisol resistant only emulsions
- When wiped with cotton rag, masking tape will stick immediately
- Pleasant apple scent

HIGH EFFICIENCY

SAATI Ink Removers

Chemicals for degrading inks on screens during clean up or recycling. SAATI offers Ink Remover products for every type of screen printing ink, and also two formulas that are compliant with SCAQMD regulations.

Remove IR1

Our Most Effective Screen Wash/Ink Degradent

- Removes the most stubborn and harshest inks
- Use in spray or recirculating tanks

SAATI Remove Ink removers are available in quart, 1-gallon, 5-gallon and 55-gallon containers.

Remove IR2

Universal Graphics Ink Remover

- Works on most inks used in graphics, industrial and electronic printing
- Use in spray or recirculating tank
- Compliant with SCAQMD VOC limits

Remove IR4

Textile Ink Degradent for Manual Cleaning

- Works well on Plastisol, Nylon and Waterbased inks
- Reduces ink staining
- Can be reapplied to remove ink stains

Remove IR5

Ink Degradent For Textile, UV, and Poster Inks

- Works well in manual and automatic equipment
- Significantly reduces ink staining
- Orange scent

Remove IR6

Ink Degradent for Most Ink Systems

- Use for manual or automatic equipment
- Orange scent

Remove IR8

Textile Ink Degradent for Manual Cleaning

- Works well on Plastisol, Nylon and water-based inks
- Reduces ink staining
- Can be reapplied to remove ink stains
- Compliant wih SCAQMD VOC limits

Remove IR10

Ink Degradent for UV, Plastisol, and Poster Inks

- Can be used for manual or automatic equipment
- Safe on CA glue
- Safe on plastisol resistant emulsions

Remove IR11

Ink Degradent for Most Ink Systems

- Use for manual or automatic equipment
- Orange scent

Remove IR14

Low Odor Textile Ink Degradent for Manual Cleaning

- Reduced odor during pressure washing of textile screens
- Works well on Plastisol, Nylon and Waterbased inks
- Reduces ink staining
- Can be reapplied to remove ink stains

Remove IR17

Ink Degradent for Most Ink Systems

- Can be used for manual or automatic equipment
- Compliant with SCAQMD VOC limits
- 0g/L VOC content

Remove IR18

Versatile Ink Degradent for Combination Use With ER6 Ink/Emulsion Remover

- Works on most inks used in textile, graphics, industrial and electronic printing
- Designed for spray or brush application and can be used for manual and automatic equipment
- Mix 1:1 with Remove ER6 to remove ink and emulsion when heavy duty cleaning is required.
- Mix 1:1:1 with Remove ER6 and water to remove ink and emulsion for lighter duty cleaning

Remove IR19

Water-Based Textile Ink Remover

- For use to clean Plastisol and Nylon inks
- Slightly viscous to improve cling to screen during application
- Low VOC at 139g/L
- High efficiency formula reduces product consumption
- Clean screens with water and easy rinsing formula

Remove IR26

Universal Ink Remover

- Versatile ink remover, cleans solvent-based, UV-Cured and Textile inks
- Low foam and low odor and can be used for manual or automatic equipment
- Can be mixed with Remove ER6 and used as one-step ink and stencil remover
- Emulsifies for easy water rinsing and avoids formation of ghost images
- High efficiency formula reduces product consumption
- Universal performance reduces the need for multiple ink removers
- Can be re-applied after stencil removal to remove ghost images

Remove IR29

No Foam Universal Ink Remover for Automatic Cleaning

- Flash point >200°F (93°C)
- No foam & low odor and can be used for manual or automatic equipment
- Can be mixed with Remove ER6 and used as one-step ink & stencil remover solution
- Emulsifies for easy water rinsing and avoids formation of ghost images.
- High efficiency formula reduces product consumption.
- Universal performance reduces the need for multiple ink removers.
- Can be re-applied after stencil removal to reduce ghost images

Remove IR32

Economical Ink Degradent for Most Ink Systems

- Use for manual or automatic equipment
- Orange scent
- Economical formula

Remove IR33

No Foam Universal Ink Remover for Automatic Cleaning

- Flash point >200°F (93°C)
- No foam & low odor and can be used for manual or automatic equipment
- Can be mixed with Remove ER6 and used as one-step ink & stencil remover solution
- Emulsifies for easy water rinsing and avoids formation of ghost images.
- High efficiency formula reduces product consumption.
- Universal performance reduces the need for multiple ink removers.
- Can be re-applied after stencil removal to reduce ghost images

CONCENTRATED POWER

SAATI Emulsion Removers

SAATI

Chemicals for breaking down emulsion on screens during screen recycling. SAATI offers Emulsion Remover products are universally effective, and there are four formulas in compliance with SCAQMD regulations.

Concentrated Formulas

Remove ER1

Concentrated Powder

- Most economical stencil remover
- For normal strength, dissolve 1.5 ounces by weight in one gallon of water
- Use up to 6 ounces per gallon for more resistant stencils

Remove ER2

Concentrated, Easy-to-Dissolve Liquid with Built-in Degreaser

- Powerful built-in degreaser cuts through the oily residue left during ink removal to speed stencil breakdown and to aid in mesh degreasing
- Mix 1 part with 25 parts water by weight (1 to 35 by volume)

Remove ER5

4-1 Concentrated Emulsion Remover

- Liquid concentrate
- Mix 1 part Remove ER5 with 4 parts water
- Economical product for spray application
- Very easy to dissolve and will not crystallize

Remove ER10

Concentrated, Easy-to-Dissolve Liquid

- Mix 1 part with 50 parts water by weight (1 to 80 by volume)

Remove ER13

Super Concentrated Liquid Emulsion Remover

- Highly concentrated liquid reclaimer
- Dilutes 1:40 by volume or 1:25 by weight to make a full strength working solution for spray application
- Can be diluted up to 150:1 by volume or 100:1 by weight, depending on requirements for use in automated screen recycling systems

Remove ER25

Economical, Concentrated, Easy-to-Dissolve Liquid With Built-in Degreaser

- Powerful built-in degreaser cuts through the oily residue left during ink removal to speed stencil breakdown and to aid in mesh degreasing
- Economical
- Mix 1 part with 25 parts water

Remove ER26

Economical, Concentrated, Easy-to-Dissolve Liquid With Built-in Degreaser

- Powerful built-in degreaser cuts through the oily residue left during ink removal to speed stencil breakdown and to aid in mesh degreasing
- Economical
- Mix 1 part with 25 parts water

Description	Remove ER1	Remove ER2	Remove ER5	Remove ER10	Remove ER25	Remove ER6
Color	White powder	Colorless liquid	Colorless liquid	Colorless liquid	Colorless liquid	Colorless
Mixing Ratio	1.5 oz of ER1 per gallon of water	1 part of ER2 with 25 parts of water by weight	1 part of ER5 with 4 parts of water	1 part ER10 with 50 parts water	1 part ER25 wtih 25 parts water	1 part ER6 with 2-3 parts Remove IR26 ink remover
Why Choose This Product	The most economical SAATI emulsion remover product	contains built-in degreaser for enhanced stencil removal	Will not crystallize in nozzles	Highly concentrated formula	contains built-in degreaser for enhanced stencil removal	Mixes with IR for "all-in-one" cleaning/ decoating process

Mixes with specific Remove IR products for a 1-step ink & emulsion remover solution

Remove ER6

Liquid Concentrate with Recommended Dilution of 1:5 to 1:10 Parts Water

- Contains emulsion remover combined with surfactant to assist with ink removal
- Designed for use with dip tank application
- Can be used to remove stencil and ink in one step in conjunction with high pressure water spray
- Works with all emulsions and with plastisol and UV cured inks

Remove ER6 Plus

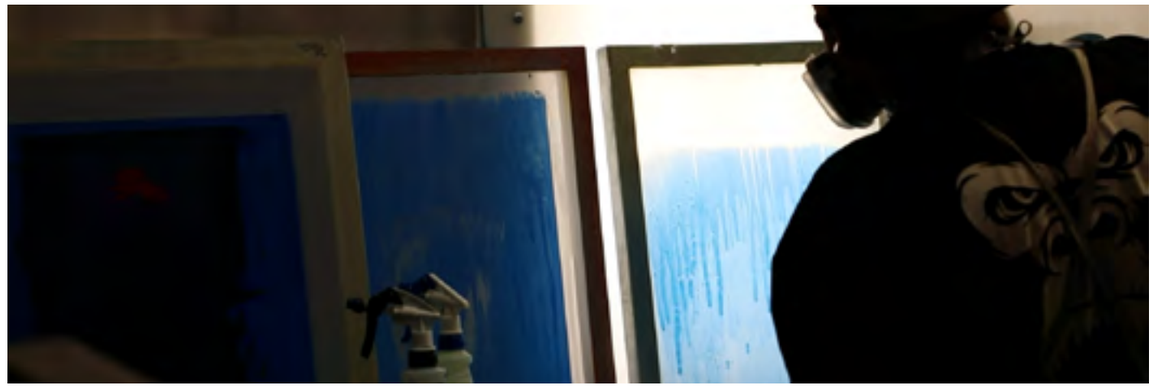
Emulsion Remover Concentrate to Mix with Gelative ER6

- Concentrate that is mixed with Gelative ER6, to make reclaiming gel for textile screens
- Mix 1:1 with Gelative for optimum results as spray on 'dip tank in a bottle' process
- Easily applied by spray, or brush, and allows for batch reclaiming of multiple screens
- Stays put where applied for maximum effectiveness
- Fast acting and economical, no waste

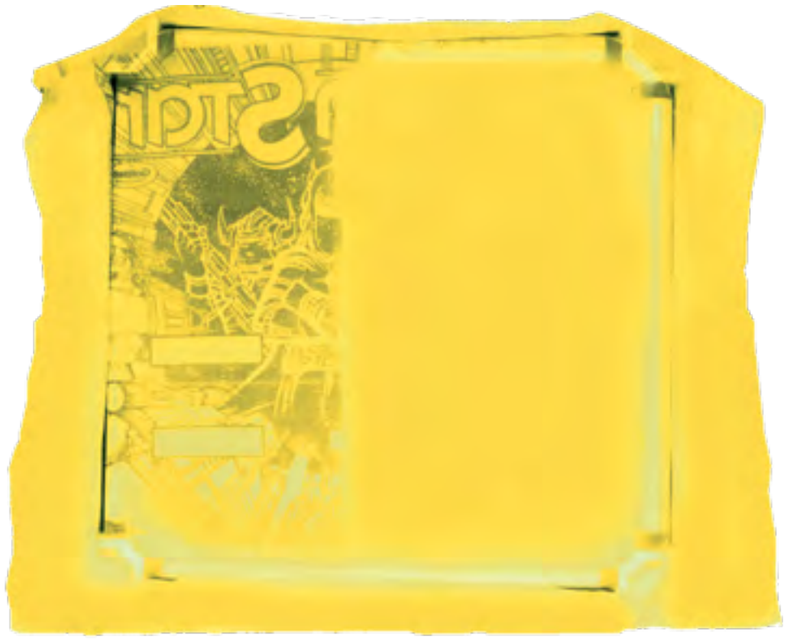
Remove ER6 Gelative

Gel additive for use with Remove ER6 one-step emulsion and ink remover system

- Produces clear stable gel when mixed with Remove ER6
- Removes ink and emulsion in one easy step
- Clings to screen like a diptank in a bottle
- Works with all photoemulsions and capillary films
- Boosts cleaning power to minimize ghost image



PURE STRENGTH



Haze/Stain Removers

Chemicals for releasing any locked in remnants of old stencils after ink & emulsion removal. SAATI HR Haze Removers are universally effective against all ghost/haze types, and are formulated in both liquids and convenient pastes.

Remove HR2

Fast-Acting Liquid Haze Remover

- Can be used in automatic reclaiming systems
- Effectively works in minutes!

Remove HR3

Fast-Acting Haze Remover Paste

- Viscous cling to prevent run off and minimize waste
- Provides the highest strength cleaning power
- Effectively works in minutes!

Remove HR5

Fast-Acting Liquid Haze Remover

- Can be used for manual and automatic cleaning

Remove HR6

Non-Caustic Stain Remover

- Easy to apply semi-viscous formulation
- Contains a mild abrasive that accelerates removal of heavy stains
- Will not damage mesh
- Works well on current press run ghosts
- Pink with pleasant cherry scent

Remove HR9

Fast-Acting Haze Remover Paste

- Viscous cling to prevent run off and minimize waste
- Low odor formula removes the toughest ghost images
- Easy to apply
- Effectively works in minutes

Remove HR12

Ready To Use Haze Remover Liquid

- Viscous cling to prevent run off and minimize waste
- Powerful formula is able to remove older stains
- Designed to work on both wet or dry screens

Hand Cleaners

SAATI Hand Cleaners are designed to remove inks, oil & grease, paints and other oily soils while simultaneously moisturizing the skin. SAATI handcleaner products are available in volumes of 4 ounce, 1 quart, 6 quart packs, and gallon volumes of 1, 5, and 50.

Remove HC8

Remove HC-8 is a personal cleaner designed for safe and easy removal of the toughest industrial dirt and grime including inks, oils & grease, paints, plumbers putty and other oily soils.

- **Pink water-based lotion**
- **Mildly abrasive to accelerate the removal of dried inks and other difficult oily soils**
- **Triple blend of emollient, moisturizer and conditioner protects skin and prevents chapping**
- **Safe alternative to aggressive solvents**
- **Pleasant cherry scent**

Green Apple Hand Cleaner

Green Apple Hand Cleaner is also designed to remove inks, oil & grease, paints and other oily soils.

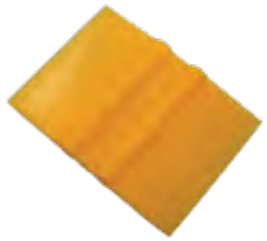
- **Light green water-based lotion**
- **Contains abrasive for difficult soils, with a finer grit than HC8**
- **Safe alternative to aggressive solvents**
- **Pleasant green apple scent**

Pump dispenser tops are also available for gallon containers

Accessories

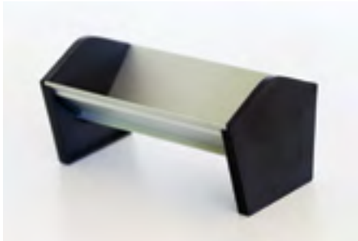
Spreader Squeegees

Durable polyurethane miniature squeegees for spreading both Ultrafix CA adhesives onto the frame and liquid blockouts onto the perimeter of stencils before printing. Available in 6 cm and 15 cm lengths.



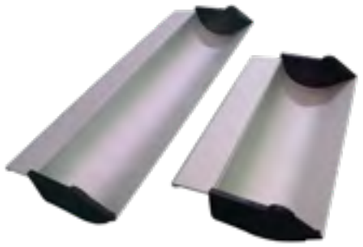
Dual Edge Coating Troughs

- **Available in lengths of 3 meters**
- **Edge profiles of .5 & 1 mm combined in one tool**
- **Made of high quality aluminium**



Single Edge Coater Troughs

- **Available in lengths of 2.5 meters**
- **Coating profile of 1.25mm**
- **High volume for longer coating sessions**



Registration Check

Register Check is a roll of transparent polymer film that can be placed on media to make test prints during multi-color printing jobs. Available in 76 µm and 152 µm thicknesses.

MBX Tool

MBX tools, available in electric or pneumatic drives units, are constructed to optimize the performance of the MBX belts and vinyl eraser. The high output rpm of the drive units are reduced to provide high torque, resulting in efficient performance and safe operation. The "in-line" design allows for increased control, flexibility and access during surface preparation tasks.

The MBX Advantage

The MBX Metal Blaster powers specialized wire brush belts that quickly strip epoxy, mesh and ink from aluminum screen frames. The cleaned surface is perfectly textured for bonding new screen mesh.

Advantages

- Specially designed U-shaped wire bristles strike the surface in a chiseling action, removing epoxy, mesh and ink, not substrate material
- The angled, sharpened, and hardened tips of the bristles cut a light sandblast texture on the metal surface — maximizing the adhesive strength when re-bonding new mesh
- No heat is generated on the surface and no odor is created when removing epoxy and screen residue
- The MBX belts clean the surface evenly with no surface contours, sharp edges or uneven texture
- The MBX power tools are lightweight, easy to handle and provide full visibility of the working surface
- The MBX belts are safe and durable and can be easily re-sharpened for a long performance life

Belt Applications

Specifically designed to clean aluminum screen frames, the MBX Medium belt will completely remove adhesive and mesh residue. These long lasting belts will strip and resurface dozens of frames prior to re-sharpening. SAATI offers a complete line of MBX Wire Belts in carbon steel, stainless steel and copper beryllium with coarse, medium and fine finishes.

Electric Drive Specifications	
Free Speed:	3,200 rpm
Voltage Rating:	120 v ±10
Amperes:	4 amps
Weight:	4.0 lbs
Warranty:	12 months

Pneumatic Drive Specifications	
Free Speed:	3,500 rpm
Air Pressure Requirement:	90 psi
Average Air Consumption:	4 cfm
Interior Air Hose Size:	3/8"
Weight:	2.4 lbs
Warranty:	6 months

Belt Specifications	
Wire	0.5mm carbon spring steel
Tips	Angled, hardened and sharpened
Finish	Light, sandblast-like texture
Size	43 mm

Belts	Specifications		Sizes	Applications
Coarse Steel	Wire Tips Finish	0.7mm carbon spring steel Angled, hardened and sharpened Coarse, sandblast-like texture	43mm 23mm 11mm	Remove sealers, coatings Profile steel surfaces Roughen fiberglass, plastic & rubber
Medium Steel	Wire Tips Finish	0.5mm carbon spring steel Angled, hardened and sharpened Fine, sandblast-like texture	43mm 23mm 11mm	Remove heavy rust, paint Remove epoxy, marine growth Profile aluminum surfaces
Fine Steel	Wire Tips Finish	0.5mm carbon spring steel Straight and hardened Smooth or lightly textured	43mm 23mm 11mm	Remove light rust, paint Remove gasket material Clean contours, nooks & crannies
Medium Stainless	Wire Tips Finish	0.5mm surgical stainless steel Angled and hardened Fine sandblast-like texture	23mm 11mm	Removes paint, corrosion Cleans weld seams, burn & slag Effective for non-ferrous metals
Fine Stainless	Wire Tips Finish	0.5mm surgical stainless steel Straight Smooth or lightly textured	23mm 11mm	Removes paint and oxidation Removes liquid gaskets Cleans weld seams, safe on rivets
Concrete Belt	Wire Tips Finish	0.8mm spring steel Straight Clean, debris free	43mm	Removes concrete residue from metal surfaces Cleans crud and debris
Vinyl Eraser Wheel	Wire Tips Finish	Rubber compound Toothed wheel Clean metal, fiberglass & glass w/o damage to OEM paint or substrate	25mm	Removes vinyl, decals & pinstripes Removes reflective & DOT tape Removes molding & adhesive tape

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