SAATIprint

Mesh, Emulsions,
Chemicals, Equipment
& Accessories for Every
Type of Screen Printing

SAATI

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SAATI

Engage with SAATI

Company Information

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 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 screen mesh for almost 90 years.

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 almost 90 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.

Manufacturing Information

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 and capabilities available to SAATI allows for advanced mesh surface treatments that enhance stencil performance and mesh tension characteristics.

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 and reclaiming chemicals.

SAATI combines thirty plus years of manufacturing experience with six decades of service to the screen printing industry.

SAATI manufactures in state of-the-art facilities in in Appiano Gentile, Italy, South Carolina, USA 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.

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 imaging speed, 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 Appiano Gentile 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

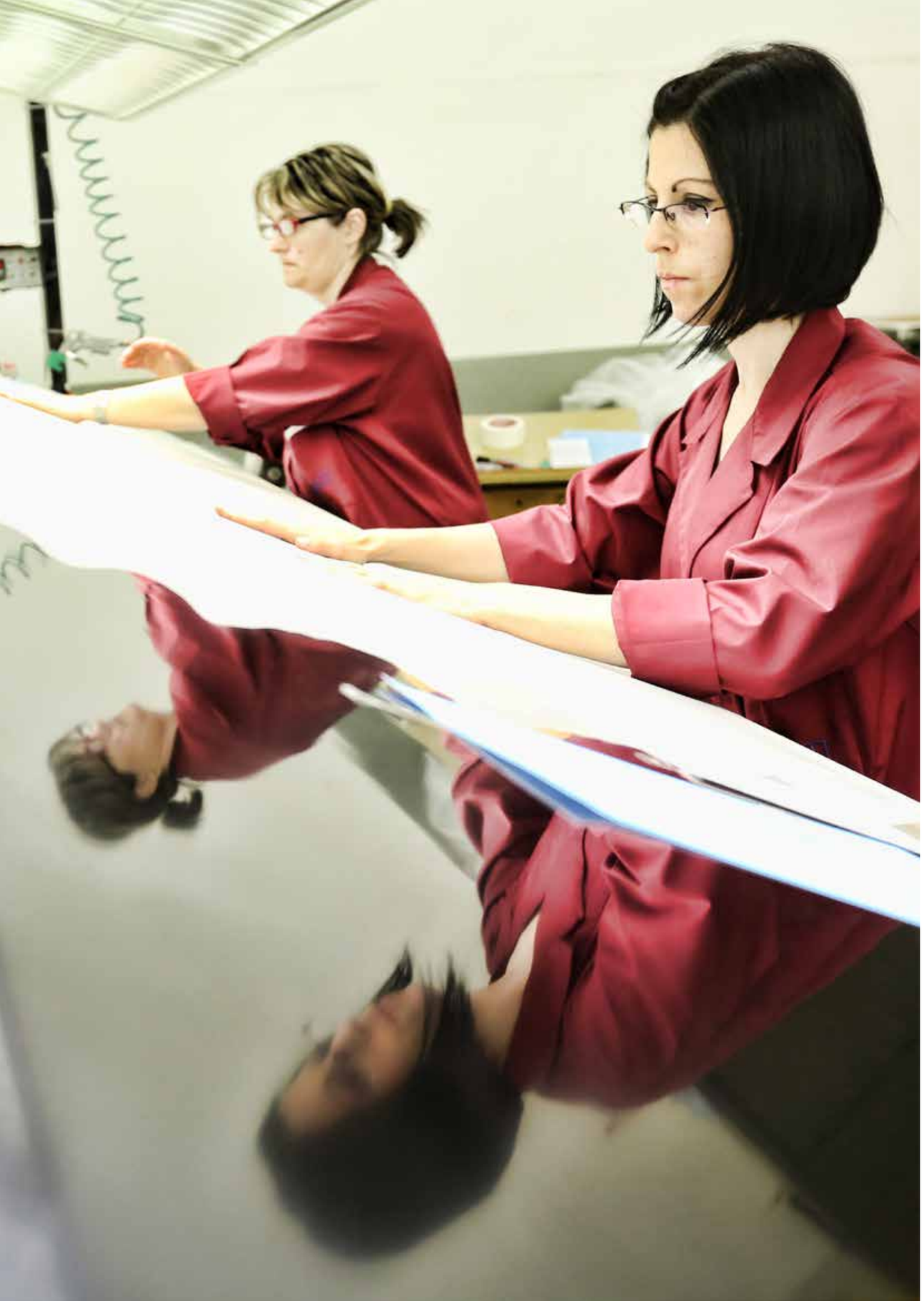
SAATI has a long history of manufacturing and distributing precision woven fabrics. Over the past eight decades, SAATI has perfected the technology of manufacturing fabrics to a high degree of precision.

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

Quality Management

SAATI 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.

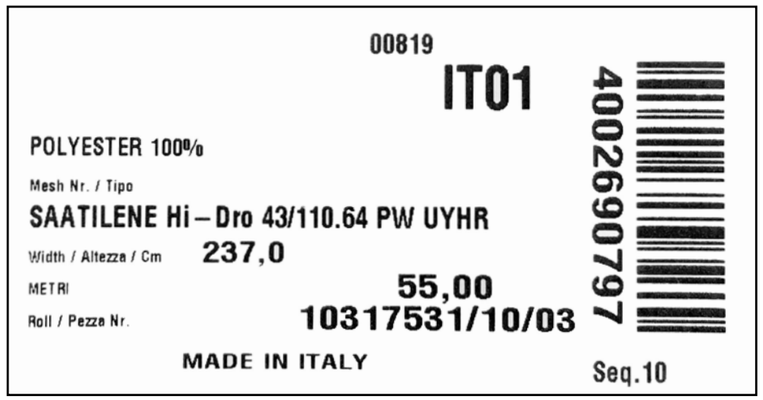


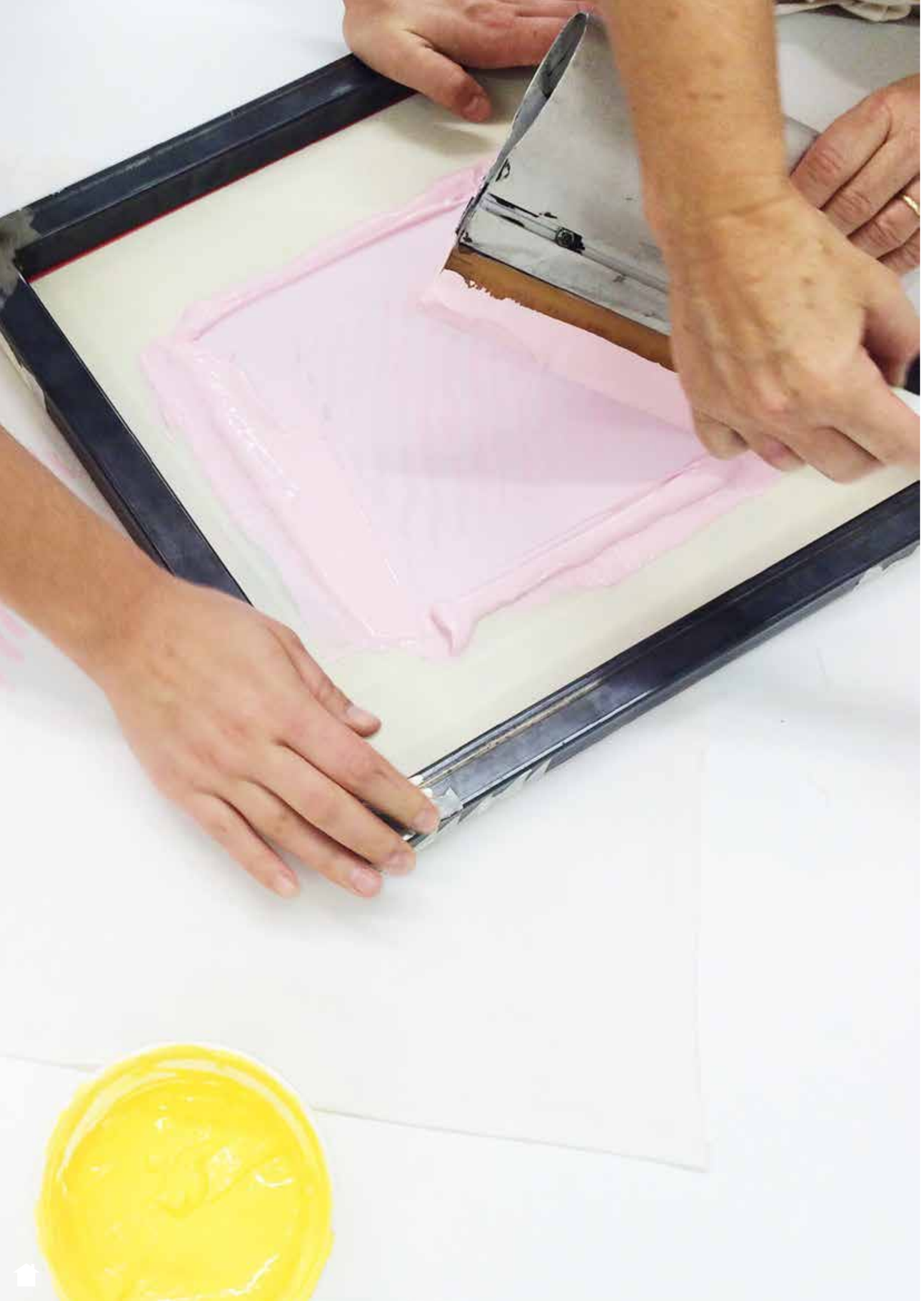
Quality Certification

Inspection Label

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.





Our Markets

SAATI was established and developed in the industrial sector where it plays a key role supplying highly technical fabrics for the electronics, solar cell, touch panel market and medical sector sensors for self-diagnostics. Thanks to the synergy between the historical markets of textile, glass and graphics, SAATI continues to innovate, improve and refine its product quality, while maintaining a competitive price. It does this by using innovative fibres and with new generation production systems. Our fabrics enable us to print any type of ink and always obtain the best result.

SAATI 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

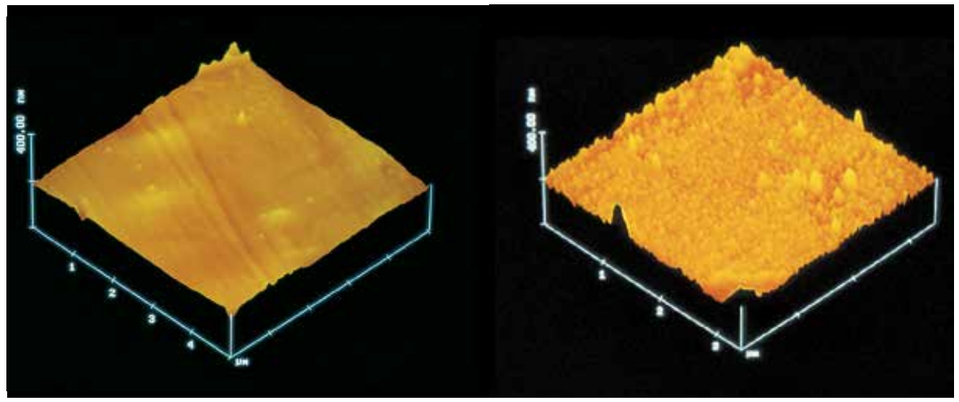
- High tension, low elongation, optimally performing monofilament polyester
- Superior stencil adhesion, resulting in less stencil breakdown on press, delivering longer print runs far beyond other conventional treated fabrics
- Shorter exposure times, due to increased stencil adhesion.
- Holds finer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

Benefits

- Applied to fabrics in widths up to 305 cm
- 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



Technical Data

Article	Mesh Count		Nominal Thread Diameter	Mesh Opening	Open Area	Fabric Thickness	Theoretical Ink Volume	Specific Cross-section	Max. Recom. tension from-to
	n°/cm	n°/inch	µm	µm	%	µm	cm^3/m^2	mm^2/cm	N/cm
PE AM 34.100 PW	34	86	100	185	41	173	71	0,267	35-40
PE AM 36.90 PW	36	91	90	190	45	150	68	0,229	35-40
PE AM 36.100 PW	36	91	100	175	38	170	65	0,283	35-40
PE AM 38.90 PW	38	97	90	170	42	161	68	0,242	35-40
PE AM 40.80 PW	40	102	80	170	44	135	59	0,201	35-40
PE AM 40.90 PW	40	102	90	160	40	148	59	0,254	35-40
PE AM 43.80 PW	43	110	80	150	43	138	59	0,216	35-37
PE AM 45.70 PW	45	114	70	148	47	115	54	0,173	30-34
PE AM 48.55 PW	48	122	55	153	55	90	50	0,114	24-26
PE AM 49.70 PW	49	125	70	130	40	116	46	0,188	30-34
PE AM 49.80 PW	49	125	80	120	35	138	48	0,246	37-40
PE AM 51.70 PW	51	130	70	120	38	118	45	0,196	30-35
PE AM 55.64 PW	55	140	64	120	41	105	43	0,177	26-31
PE AM 55.70 PW	55	140	70	105	33	114	38	0,212	30-34
PE AM 62.64 PW	62	158	64	90	32	106	34	0,199	30-34
PE AM 68.55 PW	68	173	55	89	36	89	32	0,161	25-30
PE AM 71.55 PW	71	180	55	80	33	93	31	0,169	23-30
PE AM 77.48 PW	77	196	48	73	36	78	28	0,139	24-26
PE AM 77.55 PW	77	196	55	70	28	90	25	0,183	27-32
PE AM 90.40 PW	90	230	40	68	38	62	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 100.48 PW	100	255	48	40	16	81	13	0,181	30-34
PE AM 110.34 PW	110	280	34	53	35	56	20	0,100	22-24
PE AM 110.40 PW	110	280	40	47	26	64	17	0,138	25-30
PE AM 120.31 PW	120	305	31	53	40	48	19	0,091	21-24
PE AM 120.34 PW	120	305	34	45	29	54	16	0,109	24-26
PE AM 120.40 PW	120	305	40	38	20	67	13	0,151	27-32
PE AM 130.34 PW	130	330	34	39	26	55	14	0,118	24-27
PE AM 140.31 PW	140	355	31	38	28	48	13	0,106	20-22
PE AM 140.34 PW	140	355	34	29	16	56	9	0,127	23-26
PE AM 150.27 PW	150	380	27	35	27	44	12	0,086	17-20
PE AM 150.31 PW	150	380	31	29	20	49	10	0,113	22-24
PE AM 150.34 PW	150	380	34	25	13	56	7	0,136	25-27
PE AM 165.27 PW	165	420	27	30	25	46	12	0,094	17-21
PE AM 165.31 PW	165	420	31	23	17	49	8	0,124	24-26
PE AM 165.34 TW	165	420	34	25	16	66	11	0,150	24-28
PE AM 180.27 PW	180	460	27	24	18	43	8	0,103	18-22
PE AM 180.31 TW	180	460	31	23	17	56	10	0,136	23-27
PE AM 200.31 TW	200	508	31	18	13	60	8	0,151	23-27

SAATI HiLo® Mesh

Extreme Low Elongation Mesh For High-End Electronics 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.

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:

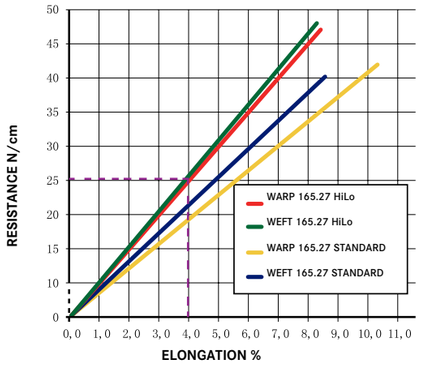
- Top print quality
- Less tension loss during the print run
- Consistent performance during printing results in process reliability improvements
- Finer line resolution
- Improved ink flow
- Superior stencil adhesion: less stencil breakdown and printing life far longer

SAATI HiLo Mesh Specifications

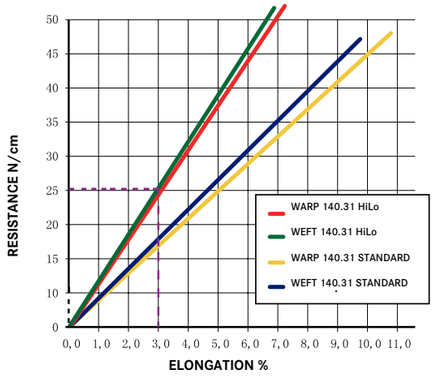
Article	Mesh count	Mesh count	Nominal thread diameter	Mesh opening	Open Area	Fabric thickness	Theoretical ink volume	Specific cross-section	Typical tension after relaxation
	n°/cm	n°/inch	µm	µm	%	µm	cm^3/m^2	mm^2/cm	N/cm
PE AM 120.34 PW	120	305	34	45	29	54	16	0.109	23
PE AM 140.31 PW	140	356	31	35	25	45	11	0.106	24
PE AM 150.27 PW	150	380	27	36	29	42	12	0.086	21
PE AM 150.33 PW	150	380	33	25	14	50	7	0.128	24
PE AM 165.27 PW	165	420	27	29	23	42	10	0.094	23

Elongation Statistics

HiLo 165.27

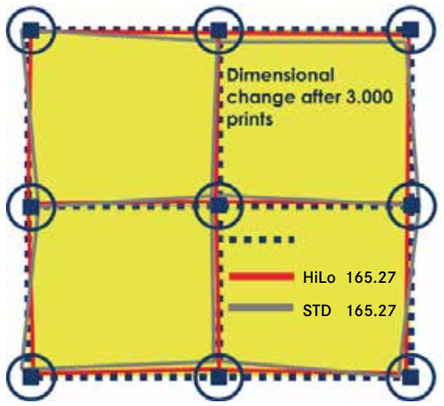


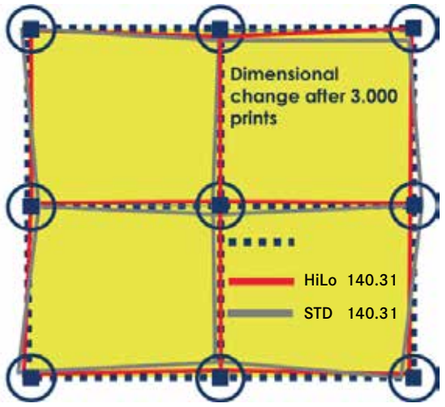
HiLo 140.31



The HiLo Warp & Weft overlapping is almost perfect. At 25N tension level the HiLo 140.31 Elongation Percentage is around 3%, whereas the 165.27 is around 4%.

Dimensional Change

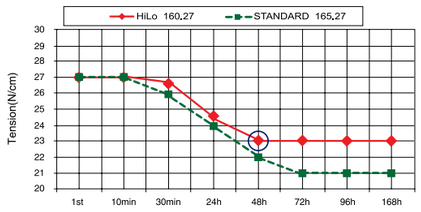


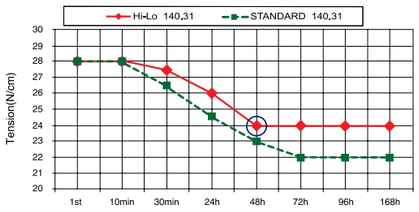


Extremely low mesh relaxation guarantees:

- *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*

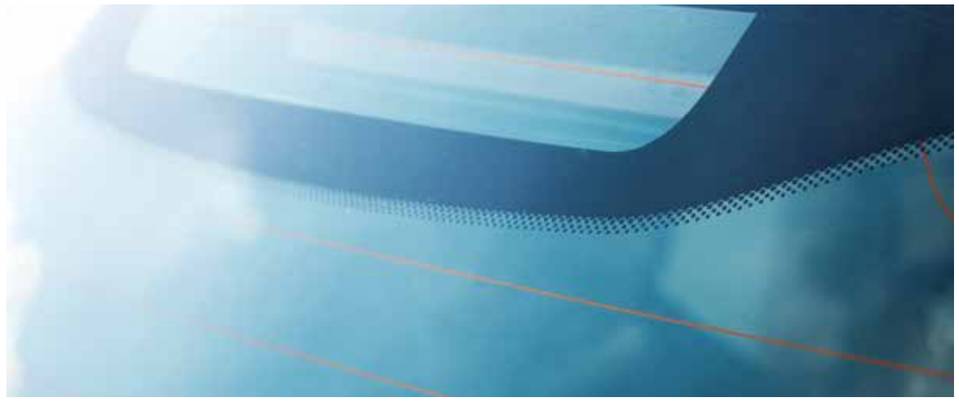
Reduced Tension Loss





SAATI 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 meter.

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

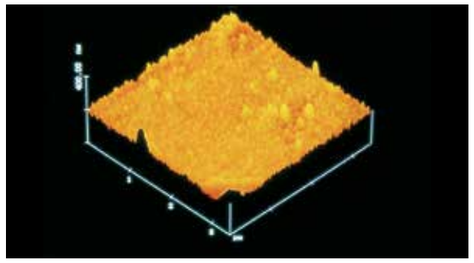
- Improved adhesion characteristics of small halftone dots and fine lines
- Even and consistent surface characteristics, enhanced for extreme durability
- Excellent ink release properties
- No degreasing pretreatment step prior to stencil processing, thanks to SAATI **unique plasma surface treatment**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

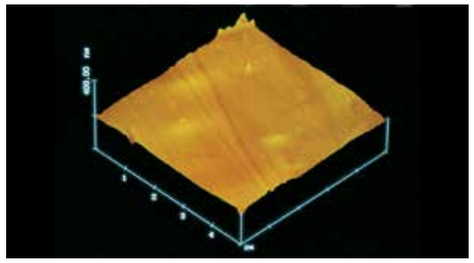
Hi-Glass Fabric

Microsection of fabric surface (AFM Microphoto) from Plasma treated fabric

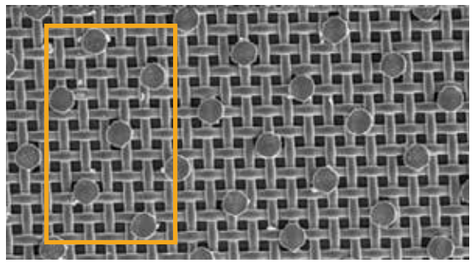


Conventional Fabric

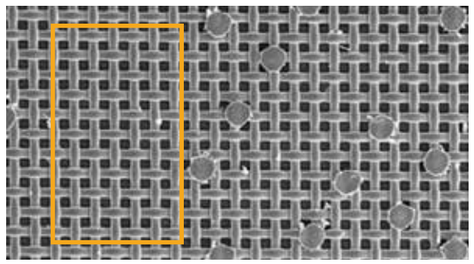
Microsection of fabric surface (AFM Microphoto) from conventional fabric



Plasma treated mesh halftone area with no stencil loss



Conventional mesh halftone area with halftone dots missing



Water droplets on fabrics with plasma treatment

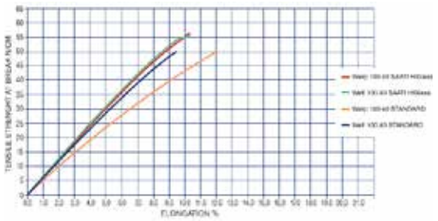
Water droplets on convential fabrics

SAATI Hi-Glass® Mesh

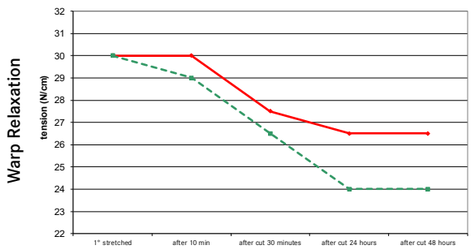
Premium Quality High-Tension, Low-Elongation Mesh
With The Value-Added Benefit Of Surface Modification

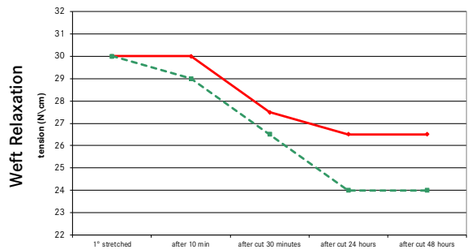
100.40 SAATI Hi-Glass vs 100.40 Standard

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



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

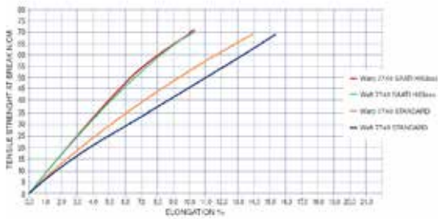




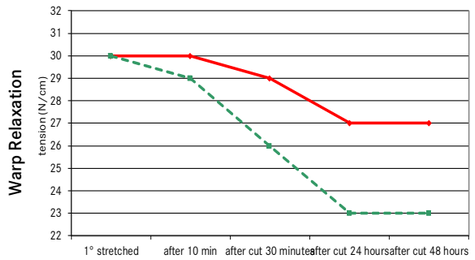
100.40 (Standard) 100.40 (Hi-Glass) 100.40 (Standard) 100.40 (Hi-Glass)

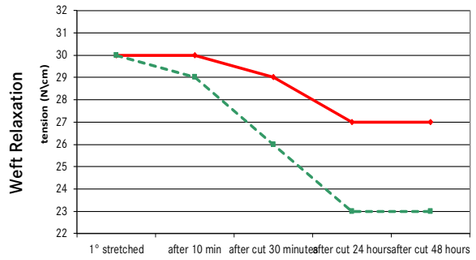
77.48 SAATI Hi-Glass vs 77.48 Standard

	(Hi-Glass)		(Standard)	
	Warp	Weft	Warp	Weft
1° stretched	40	40	40	40
after 10 °	40	40	38	39
	Screen Glued			
after cut 30°	39	39	36	36
after cut 24 hrs	37	37	33	33
after cut 48 hrs	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	cm^3/m^2	mm^2/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).

SAATI Hi-Dro® Mesh

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

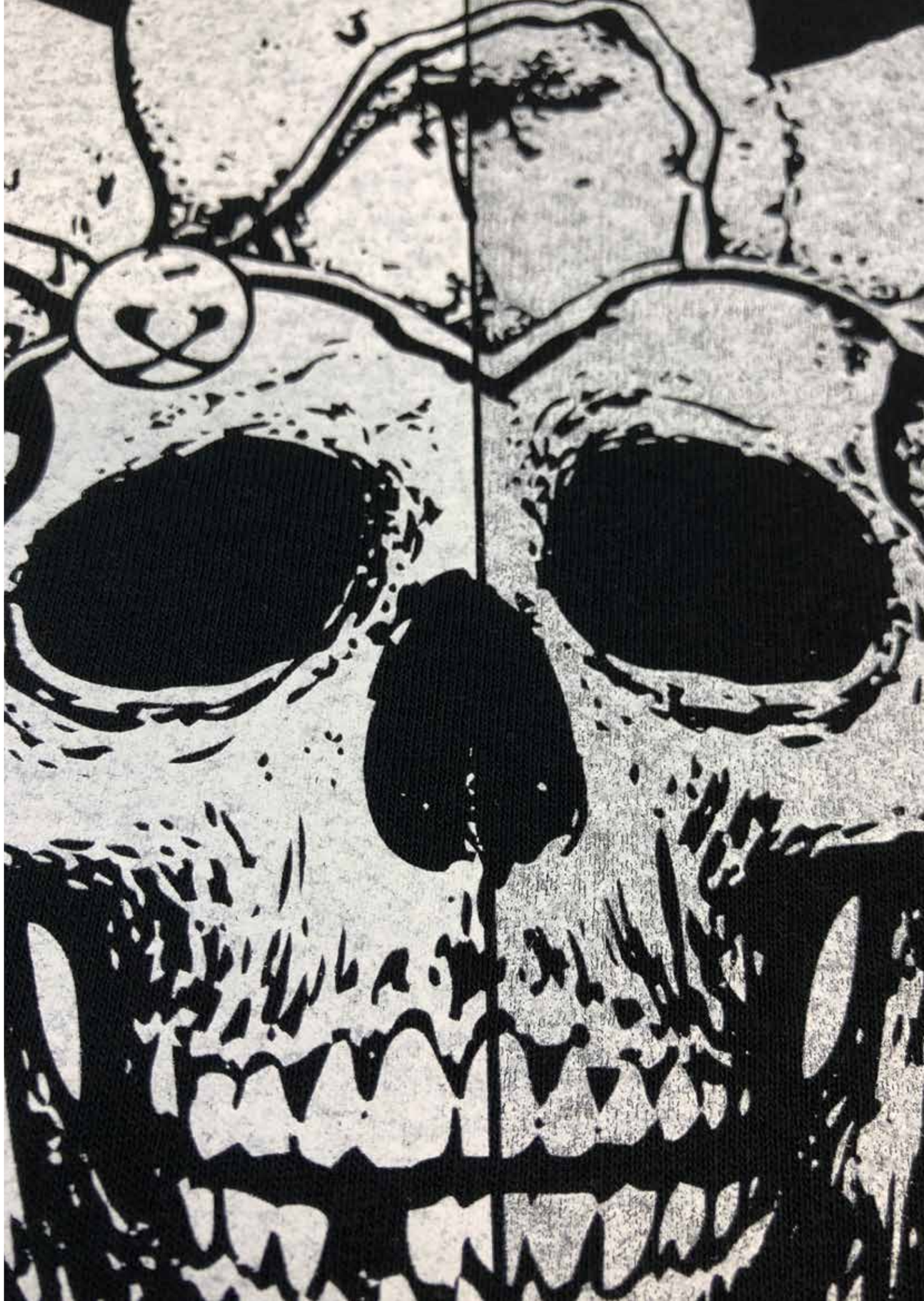
- Optimized mesh geometry and precise mesh openings due to the improved production process
- Excellent antistatic property
- Long lasting surface modification thanks to plasma treatment.
- Range of mesh counts from 32-120 threads per cm (81-305 per inch)
- Safe under exposure with all emulsion types: 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 78.40
Right Standard 77.55

HOME

SAATI Hi-Dro® Mesh

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

Technical Data

Article	Mesh Count	Thread Diameter	Mesh Opening	Open Area	Fabric Thick-ness	Theoreti-cal Ink Volume	Specific Cross Section	Max. Recom. Tension
	cm / in	µm	µm	%	µm	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).

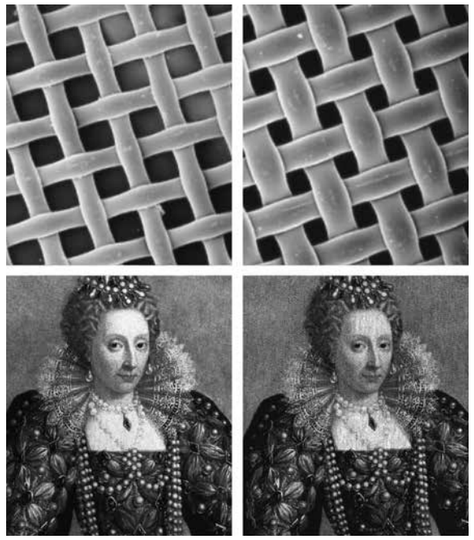
They are subject to normal variations up to 7% if conditions vary from those stated above. The listed technical specifications, exception made for the thread diameter indicated with its nominal value, are referred to the arithmetic mean value of production samples and are subject to change, in accordance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

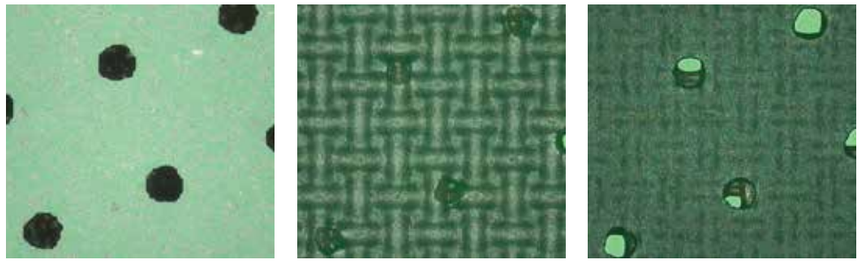
At left: SAATI HiDro 43.64 vs a standard 62.64.

Below SAATI HiDro 78.40 vs a standard 77.55.

Both examples show the result of two passes with white plastisol ink on a black t-shirt fabric.



Hi-Dro | Standard Mesh | Hi-Dro | Standard Mesh



Film Positive
5% halftone dots

Standard Mesh
5% halftone dots

Threads block the openings

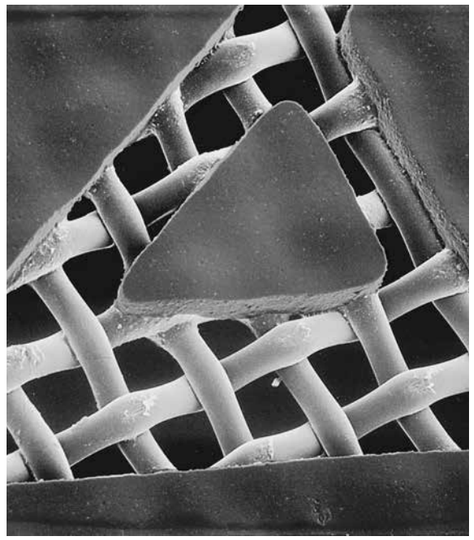
Hi-Dro Mesh
5% halftone dots

High fidelity to film positive

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.



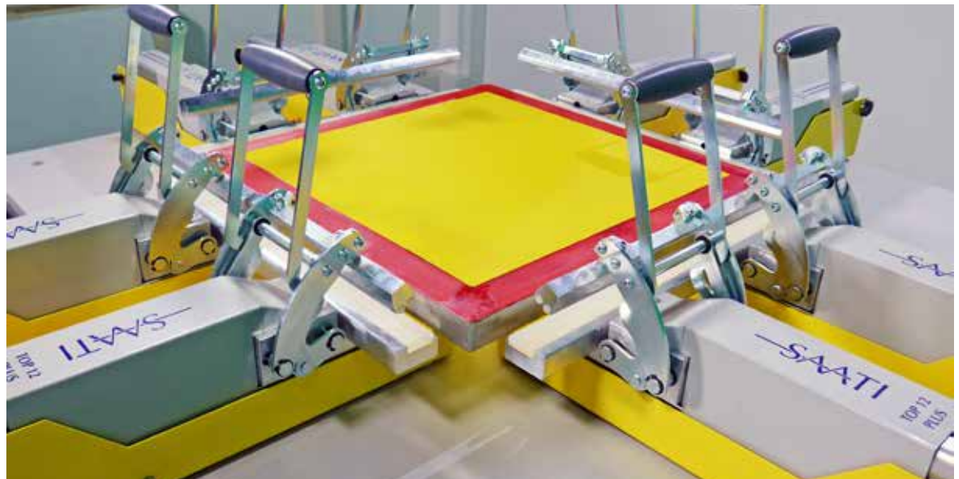
Key Characteristics

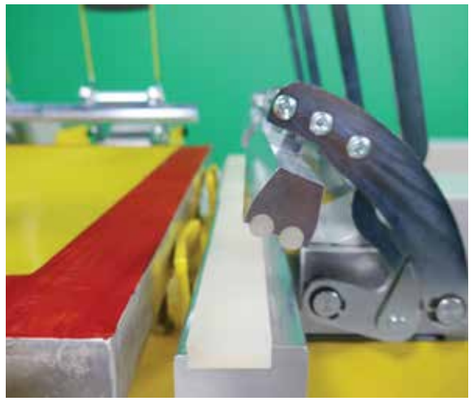
- High tension, low elongation, monofilament polyester
- Good stencil adhesion
- Wide range of mesh count

Technical Data

Article	Mesh Count	Thread Diameter	Mesh Opening	Open Area	Fabric Thick-ness	Theoretical Ink Deposit	Specific Cross Section	Max. Recom. Tension From-To
	per cm	microns	microns	%	microns	cm^3/m^2	mm^2/cm	N/cm
6,5.385 PW	6,5	385	1180	58	700	406	0.756	35-60
9.5.280 PW	9,5	280	810	55	533	293	0.585	35-60
10.5.260 PW	10,5	260	700	52	478	249	0.557	35-60
12.145 PW	12	145	700	68	270	184	0.198	35-60
12.260 PW	12	260	580	47	485	228	0.637	35-60
15.200 PW	15	200	475	50	365	183	0.471	35-60
15.260 PW	15	260	400	35	460	161	0.796	35-60
18.160 PW	18	160	400	52	285	148	0.362	35-60
21.160 PW	21	160	330	46	285	131	0.422	35-60
24.120 PW	24	120	290	50	216	108	0.271	35-60
24.145 PW	24	145	275	43	265	114	0.396	35-60
27.120 PW	27	120	250	44	222	98	0.305	35-60
27.145 PW	27	145	220	35	255	89	0.446	35-60
29.120 PW	29	120	220	41	218	89	0.328	35-60
29.145 PW	29	145	190	32	258	83	0,479	35-60
32.70 PW	32	70	245	61	110	67	0.123	24-26
32.100 PW	32	100	200	43	160	69	0.251	35-40
32.120 PW	32	120	190	38	205	78	0.362	35-60
34.100 PW	34	100	185	41	173	71	0.267	35-40
36.90 PW	36	90	190	45	145	65	0.229	35-40
36.100 PW	36	100	175	38	170	65	0.283	35-40
38.90 PW	38	90	170	42	161	68	0.242	35-40
40.80 PW	40	80	170	44	135	59	0,201	35-40
40.90 PW	40	90	160	40	148	59	0.254	35-40
43.80 PW	43	80	150	43	138	59	0.216	35-37
45.70 PW	45	70	148	47	115	54	0.173	30-34
49.70 PW	49	70	130	40	116	46	0.188	30-34
49.80 PW	49	80	120	35	138	48	0,246	34-50
51.70 PW	51	70	120	38	118	45	0.196	30-35
55.64 PW	55	64	120	41	105	43	0.177	23-31
55.70 PW	55	70	105	33	114	38	0.212	30-34
62.64 PW	62	64	90	32	106	34	0.199	30-34
68.55 PW	68	55	89	36	89	32	0.161	25-30
71.55 PW	71	55	80	33	93	31	0.169	25-30
77.48 PW	77	48	78	36	78	28	0.139	24-26
77.55 PW	77	55	70	28	90	25	0.183	27-32
90.40 PW	90	40	68	38	62	24	0.113	20-24
90.48 PW	90	48	55	27	81	22	0.163	27-29
100.40 PW	100	40	55	31	63	20	0.126	26-28
100.48 PW	100	48	40	16	81	13	0.181	30-34
110.34 PW	110	34	53	35	56	20	0.100	22-24
110.40 PW	110	40	47	26	64	17	0.138	25-30
120.31 PW	120	31	53	40	48	19	0.091	21-24
120.34 PW	120	34	45	29	54	16	0.109	24-26
120.40 PW	120	40	38	20	67	13	0.151	27-32

Stretching Equipment





SAATI Top 12 Plus

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

The new 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.

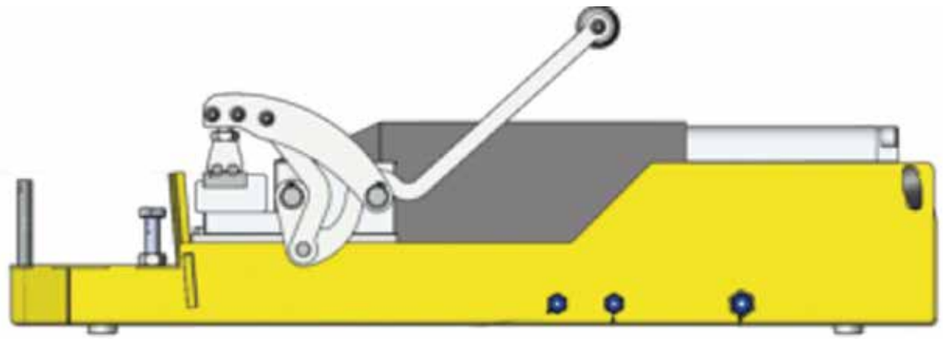
It provides the greatest stability of any system available. Among the most notable features of this premier stretching system is its independent or simultaneous warp/weft tensioning capability (when used with optional control panel).

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 system

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



SAATI Top 12 Plus

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

Technical Features

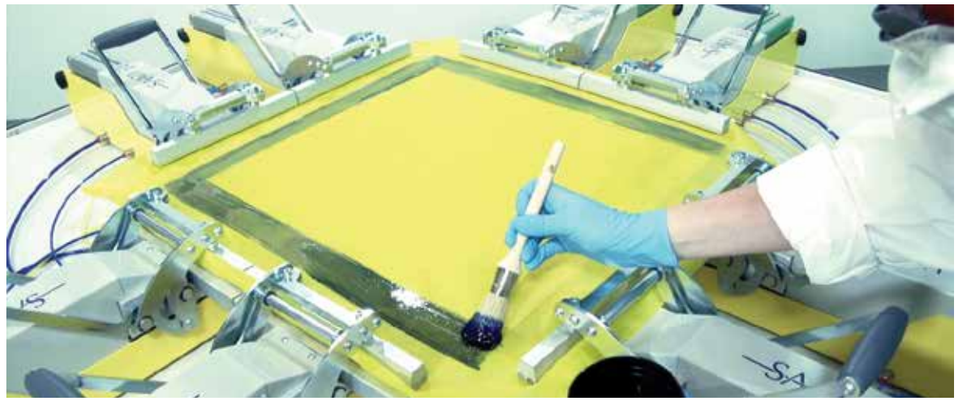
- **CE Certified**
- Internal components extruded in aluminum, exterior in powder coated steel
- Independent pneumatic control for both horizontal axis (via optional control panel)
- Daisy chain connection, no manifold needed
- Adjustable frame support

Benefits

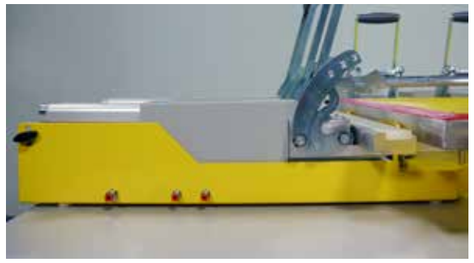
- Higher tension, longer stroke
- Tension from small frames to extremely large frames
- Very high degree of repeatability
- High reliability, easy maintenance

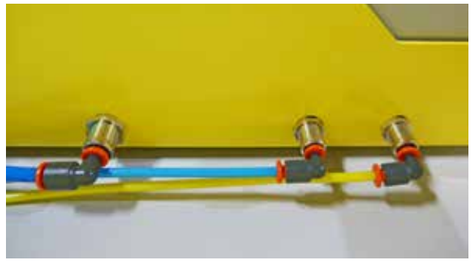
Top 12 Plus Technical Specifications	
Clamp Weight	10 kg
Clamp Total Length	652 mm
Stretching Stroke	120 mm
Lifting Stroke	15 mm
Clamp Length to Frame Contact Point	540 mm
Maximum Tension	60 N/cm
Compressed Air	95-100 PSI (humidity free air line required)
Jaw Width	250 mm (std) 150 mm (on request)
Table Size	Frame external size + 108 cm

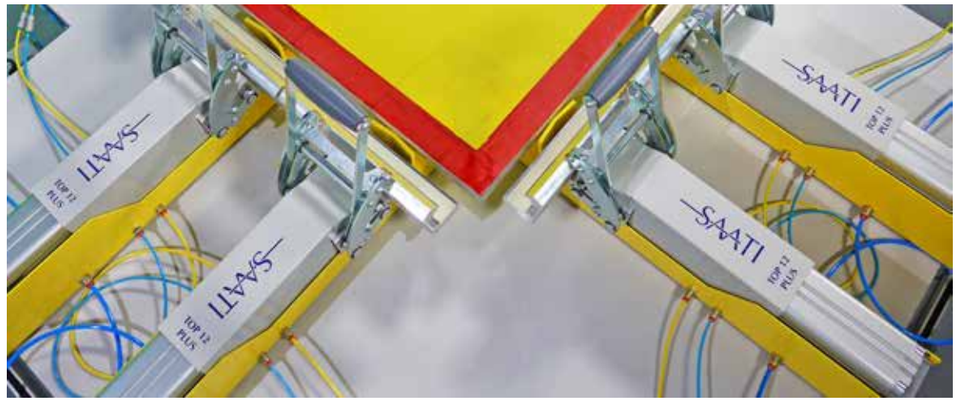
SAATI Top 12 Plus Clamp and with SAATI Ultrafix SB Series 2-part polyurethane adhesive.



Clamp Connections

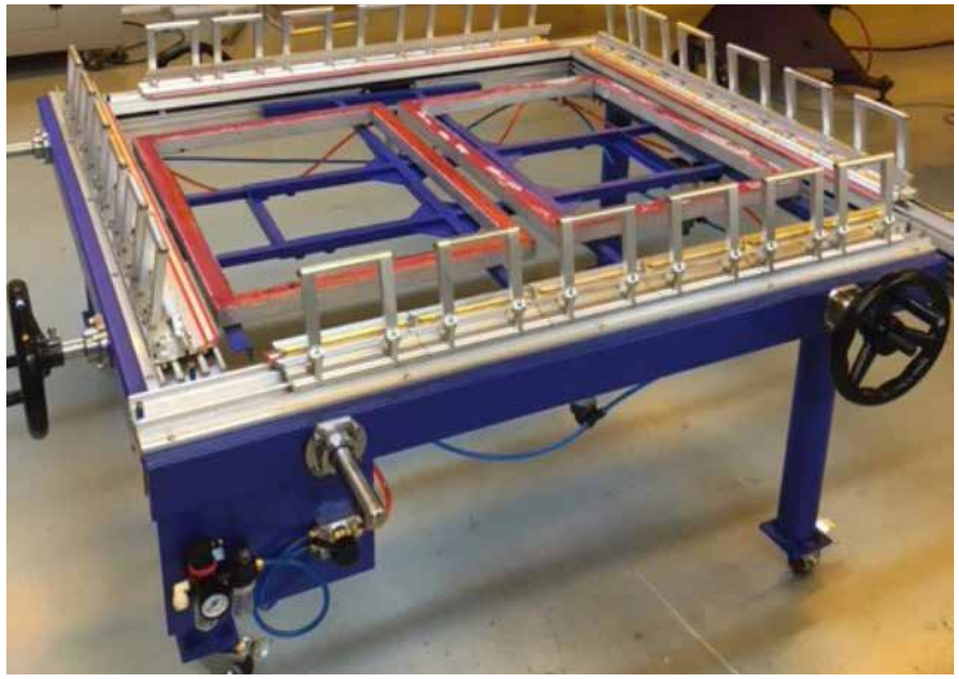






SAATI Stretch Manual

The Highest Quality Manual Stretcher



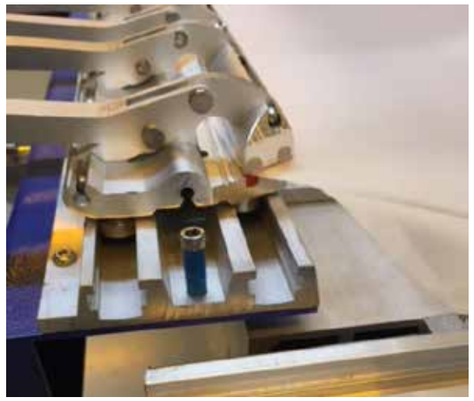
Correct screen tensioning is vital for enhanced registration characteristics, uniform ink deposit, and longer screen and stencil life. The SAATI Stretch Mechanical provides the highest reliability and control of any mechanical stretching system. Among the most notable features are its independent warp/weft 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 (30-20 cm and 20-15 cm)
- 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 117 x 127 cm, or two screens 64x91 cm 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: 132x 122 cm (for 127 x 117 cm set up)

SAATI Adhesives

Frame 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

- 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

Product	Optimal Mesh Count (n/cm)	Viscosity
Ultrafix CA50	130-200	High
Ultrafix CA100	77-150	Medium
Ultrafix CA150	6.5-77	Low

Ultrafix CA Activator

Cures cyanoacrylate adhesive instantly

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

Ultrafix CA Debonder

Removes cyanoacrylate adhesives

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

Ultrafix Remover

Removes Ultrafix adhesives

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

SAATI Adhesives

Adhesives for Screen Production and Securing Media On-Press

Ultrafix SB Plus Series

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

Ultrafix SB2 Plus

- Two-components polyurethane adhesive
- Mounts screen mesh onto aluminum, steel, iron, plastic-coated and wood frames
- Extraordinary initial adhesion allows screens to be removed from the stretching system only minutes after applying
- Superior resistance to solvents and heat
- Good performances on automatic cleaning machines with solvent
- Ultrafix SB2 Plus is clear, high viscosity adhesive for all fabrics mesh-counts.

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 SB8 Plus

- Two-components polyurethane adhesive
- Mounts screen mesh onto aluminum, steel, iron, plastic-coated and wood frames
- Extraordinary initial adhesion allows screens to be removed from the stretching system only minutes after applying
- Ultrafix SB8 Catalyst, does not contain isocyanates and , therefore, does not carry the phrase H351 and as well as specific pictograms.
- Superior resistance to solvents, for this specific type of Adhesive.
- Ultrafix SB8 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. Slower	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

Mesh Preps & Degreasers

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 3 NF

Concentrated Degreaser/ Wetting Agent

- 10 to 1 concentrated liquid wetting agent and degreaser
- Concentrated formula for economy
- 100% Biodegradable
- Brown color

Direct Prep 2

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

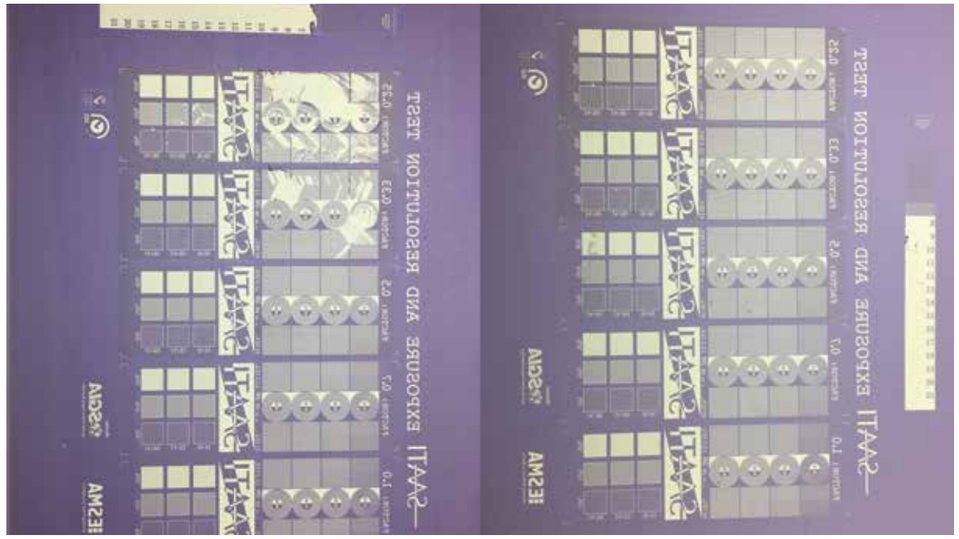
Description	Direct Prep 1	Direct Prep 2	Direct Prep 3 NF
Viscosity	High	Low	Low
Color	Green	Green	Brown
Mixing Ratio	Ready to use	Ready to use	10 parts : 1 part water
Why Choose This Product	Paste suitable for low mesh count.	Universal use. Degreases and cleans.	100% Biodegradable. Concentrated. Suggested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

Mesh Preps & Degreasers

Demonstrating the Degreaser Difference

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

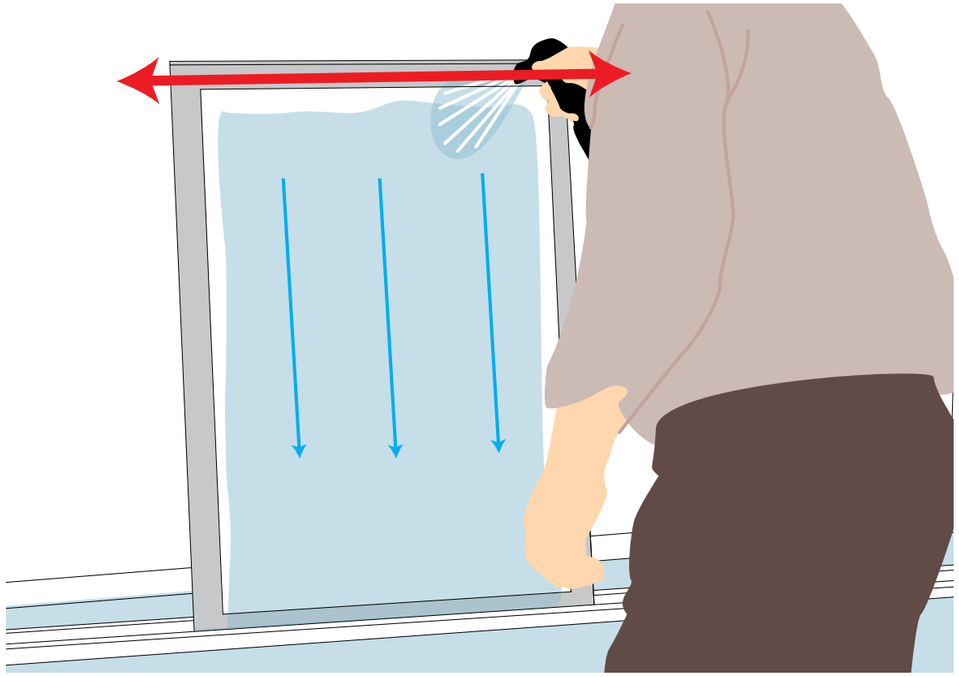
Degreased portion: even hydrophil-ic surface that improves emul-sion adhesion



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.

Degreaser 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.

SAATI Screen Emulsion

SAATIgraf Emulsion

The World Class Range of Emulsions for All Types of Graphics Printing

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.

Diazo-Based

Grafic DS

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

- Violet/Blue 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

SAATIgraf Emulsion

The World Class Range of Emulsions for All Types of Graphics Printing

SAATIgraf HS 3

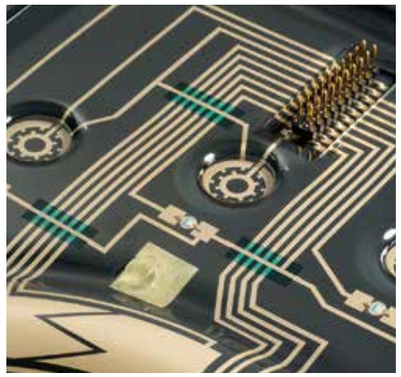
Dual-Cure for General Industrial and Display Graphics

- Blue dual-cure emulsion suitable to print UV-cured and solvent-based inks
- Very high solid content (37%)
- Particularly competitive in comparison to other products available on the market
- Excellent print definition and superior resolution on any mesh
- Very high solvent, water and environmental moisture resistance
- Easy to reclaim

SAATIgraf HSX

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

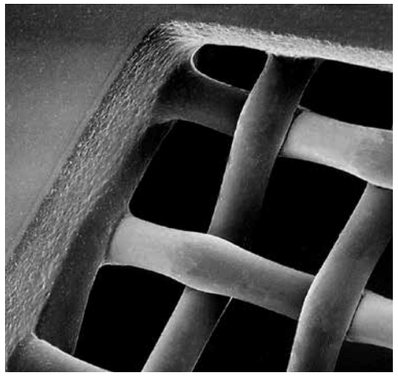
- Red dualcure emulsion
- Dual-cure direct emulsion with very high solvent resistance for industrial printing
- Extremely high resolution and definition
- Designed for use on stainless steel and synthetic mesh
- 37% solids content



SAATIgraf HSX4

Maximus sharpness dual-cure emulsion designed for industrial printing and electronic devices

- Blue dual-cure emulsion
- Highly solvent resistant photoemulsion specially designed for the most demanding industrial printing applications
- Extremely high resolution and definition for optimum microreplication
- 37% solids content
- Optimal performance when EOM is <15 µm



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 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

SAATIgraf Emulsion

The World Class Range of Emulsions for All Types of Graphics Printing

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

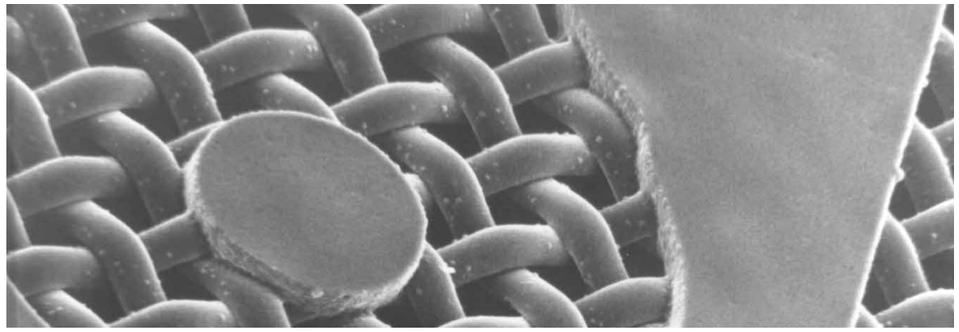
Fast Exposing SBQ Photo Emulsion Designed For Use With Computer To Screen

- Blue, one part pure photopolymer emulsion
- Highly solvent-resistant
- 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 HU Fast

Dual-cure emulsion designed for general industrial and display graphics

- Dual-cure emulsion resistant to UV-cured and solvent-based inks
- Double reactivity compared to traditional dual-cure emulsions
- Excellent print definition and resolution on any mesh
- Superior solvent resistance
- Easy to reclaim
- Can be used also on stainless steel mesh



SAATItex and Textil Emulsions

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

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

All emulsions are non-hazardous and biodegradable.

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

SAATItex 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

Textil HT FAST

Suitable for plastisol, water-based and discharge printing inks.

- Can be hardened with Fixer 6, 9 or 10 to produce a waterproof and abrasion-resistant stencils.
- High resolution
- High solid content (47%)
- Faster in exposure compared to Textil HT; it allows to reduce exposure time 30/40%
- Reclaimable before use of catalyst.

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.

SAATItex Emulsion

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

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

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 Emulsion

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

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

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

Computer to Screen

Textil CTS 3

Computer to Screen Emulsion for Garment, Textile And Flag Printing

- Blue Pure Photopolymer
- Extremely fast exposure approximately 30 times faster than dual-cures or diazo
- Extra resistant to water-based and discharge inks when post-expose

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

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 CTS 3

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

Vitrum HU

Built-In Features Specially Designed For Glass Printers

- Blue, high-resolution dual-cure emulsion
- Resistant to UV-cured, plastisol, solvent-based and water-based inks
- High solids content gives controlled stencil build-up
- Upon drying, lacks the tackiness typical of dual-cure emulsion - meaning less image distortion from vacuum blanket, less wear on stencil and squeegee and easier registration

SAATIvit PHU 2 Blue

Computer to Screen Emulsion for Glass Printing

- Blue, pure photopolymer emulsion
- Very high solids content (42%) for high resolution and definition
- Resistant to UV-cured, water-based UV-cured and solvent-based ink for the glass decoration market
- Exposes 3 times faster than diazo or dual-cure emulsions

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

Grafic PU

Emulsion designed for both Graphic and Glass Printing

- Blue pure photopolymer emulsion very resistant to solvent
- 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 dual-cure emulsions
- Easy to reclaim.

SAATI Screenmaking Film

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.

The World Class Range of Direct and Indirect Films for Stencil Making

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-1 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 agressive 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 Plus Film

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 Plus 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 Plus 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 Plus 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

Thik Plus Film laminated with PHU HR

Total Stencil Thickness					
Product	Mounting	30PW260 (390 µm)	61PW120 (180 µm)	81PW70 (90 µm)	110PW80 (110 µm)
Thik 100 Plus	Capillary	430	230	150	170
	Lamination	450	245	170	185
Thik 200 Plus	Capillary	530	330	250	270
	Lamination	550	345	270	285
Thik 300 Plus	Capillary	630	430	350	370
	Lamination	650	445	370	385
Thik 400 Plus	Capillary	730	530	450	470
	Lamination	750	545	470	485
Thik 700 Plus	Capillary	1020	840	750	770
	Lamination	1040	855	770	785

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.

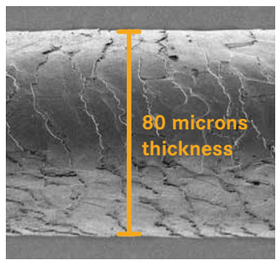
Exposure Time Chart (seconds of 6kW Exposure at 1.5m distance)					
Product	30 Mesh White	61PW120 White	81PW70 White	110PW80 White	110PW80 Dyed
Thik 100 Plus	60	38	30	30	75
Thik 200 Plus	120	75	60	60	150
Thik 300 Plus	240	180	120	150	300
Thik 400 Plus	400	300	240	300	400
Thik 700 Plus	850	650	500	620	850

SAATI Coating Machine Series

The SAATI Coating Machine 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.

The average human hair has a width of 80 µm.

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



Characteristics

- Coats screens simultaneously front and back
- Fully programmable
- Set dwell, coats and speed per side
- Carriage enclosed for safety
- Simple coating troughs attachment
- Belt driven for smooth maintenance free operation
- 110 volt, 20 amp
- 90 psi less than 1 cfm

Features

- Set a program and get repeatable stencils, which result in a more repeatable print
- Maximize consistency
- Easy to use touchscreen display

Benefits

- Set a program and get repeatable stencils, which result in a more repeatable print
- Control the consistency of both the thickness and roughness across the entire stencil surface in order to achieve the highest possible print quality

Installation

Due the unique construction of the SAATI Coating Machine, it is easily installed by customer. Simply connect an airline and plug-in. Easy to operate with no assembly is required.

Coating Machine

Coating Machine
VF

Coating Machine
SF-C

Coating Machine
SF-T

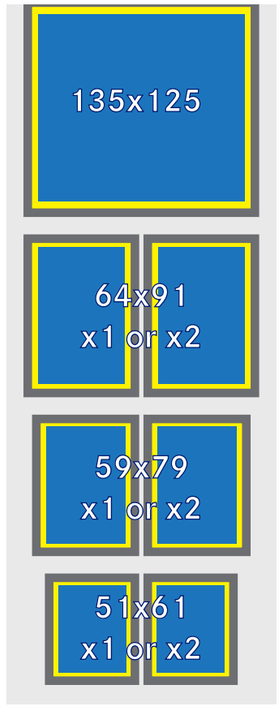
Coating Machine
Combo Dryer

SAATI Coating Machine Series

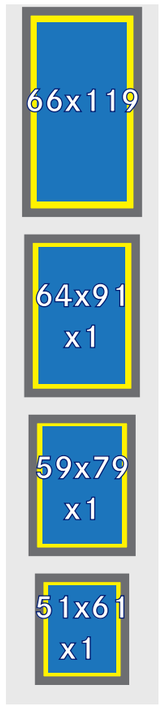
Programmable Automatic Screen Coaters for Affordable Consistency and Control

Coating Setups

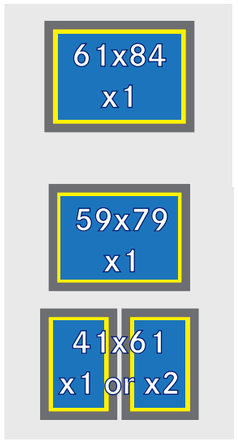
Maximum size & standard coating setups are demonstrated here:



Coating Machine
for large and medium format



Coating Machine VF
for single frames



Coating Machine SF T/C
for standard textile screens, small container screens

SAATI Coating Machine

Automatically coat 1 or 2 screens up to 64x91 cm.

Characteristics

- Coats two screens, simultaneously front and back
- Coats a single screen up to 107x127 cm

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

208 x193 x 56 cm, approximately 750 lbs.

SAATI Coating Machine VF

Automatically coat 1 screen up to 66x119 cm.

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

147 x 198 x 51 cm, approximately 800 lbs.

SAATI Coating Machine Series

Programmable Automatic Screen Coaters for Affordable Consistency and Control

SAATI Coating Machine SF Container

Automatically coat 2 screens up to 41x61 cm.

Characteristics

- Coats a single screen up to 61x84 cm

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

170 x 119 x 51 cm without legs.
170 x 185 x 51 cm on legs.
Approximately 620 lbs.

SAATI Coating Machine SF Textile

Automatically coat 1 screen up to 61x84 cm.

Characteristics

- Coats a single screen up to 61x84 cm

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

170 x 119 x 51 without legs. 170 x 185 x 51 on legs.
Approximately 620 lbs.

SAATI Coating Machine SF w/ Combo Dryer

Automatically coat 1 screen up to 61x84 cm.

Characteristics

- Coats a single screen up to 61x84 cm, or two up to 41x61 cm

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 58x79 cm frames or up to thirty 23x28 cm

Benefits

- Easy use allows inexperienced operators to coat perfect screens

Size

170 x 119 x 51 without legs.
170 x 185 x 51 cm on legs.
Approximately 620 lbs.

Stencil Exposure Systems

SAATI LTS Series

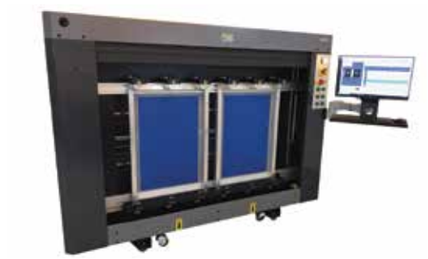
High Resolution Digital Direct Laser Image & Exposure Units

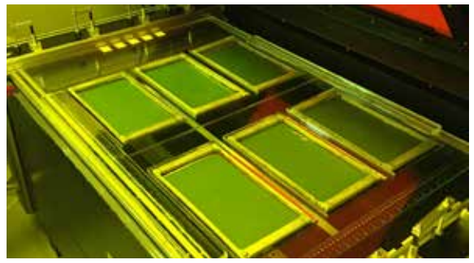
SAATI is pleased to introduce you to the state of the art in computer-to-screen stencil making - the SAATI LTS Series.

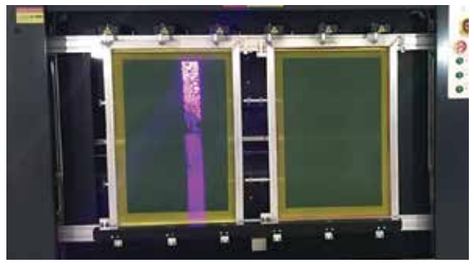
SAATI LTS machines use laser diodes to directly image and expose stencils simultaneously. The 405 nm laser array is the correct wavelength for optimal through-cure so that stencils are processed rapidly, at high resolution (up to 2,540 dpi) and with no consumables like ink, wax or film, while drawing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

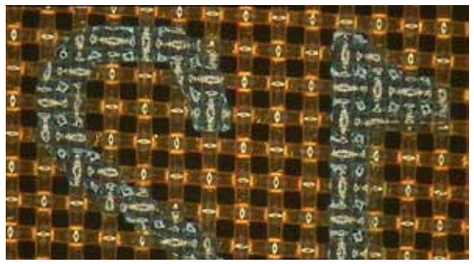
The included workflow software allows stencil makers process art files in-house, and to place one or more images on one or more stencils at the same time, further enhancing productivity and planning. In addition, remote viewing capabilities allow SAATI technicians to assist printers in calibrations without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







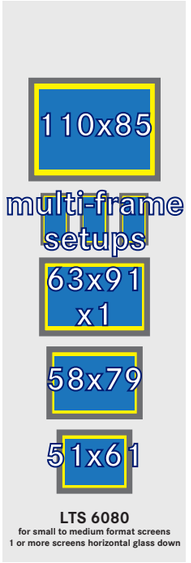


SAATI LTS Range

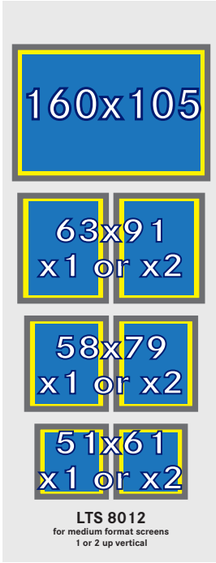
LTS 6080

LTS 8012

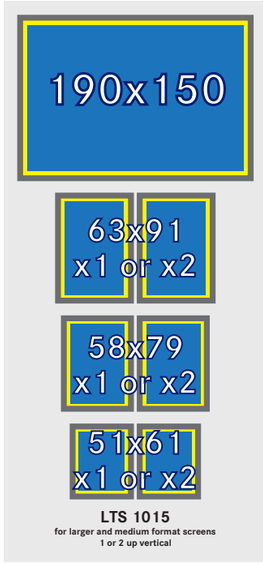
LTS 1015



LTS 6080
for small to medium format screens
1 or more screens horizontal glass down



LTS 8012
for medium format screens
1 or 2 up vertical

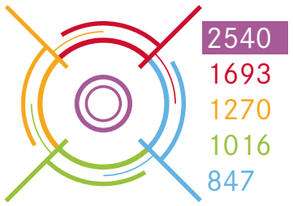


LTS 1015
for larger and medium format screens
1 or 2 up vertical

Values in cm

SAATI LTS Series

High Resolution Digital Direct Laser Image & Exposure Units



Precision Choices

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

Long Life

Lasers have operational lives of 10,000+ hours at 100% strength

Simplified

Save time by eliminating film pinhole checks and registration. Image & Expose in one quick process

Flexibility

Compatible with all emulsion and film types

Power Settings

Quickly and thoroughly cure even very high EOM dual-cure emulsions

Direct Lasers

SAATI LTS

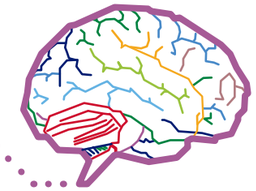
Digital Workflow

Faster Processing

Prepare art files, and create stencils immediately - no film creation or checks

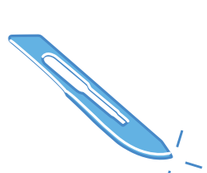
Digital Registration

Eliminate difficulties by locking the frame into place and setting the laser start position digitally



Digital Archive

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



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 - Avoid the use of plastic film

No Consumables

SAATI LTS Series

High Resolution Digital Direct Laser Image & Exposure Units

Resolution Settings

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

847
Low Setting

- Fastest processing times
- Superior to inkjet films

1016

- Superior to inkjet/ waxjet resolution

1270
Middle Setting

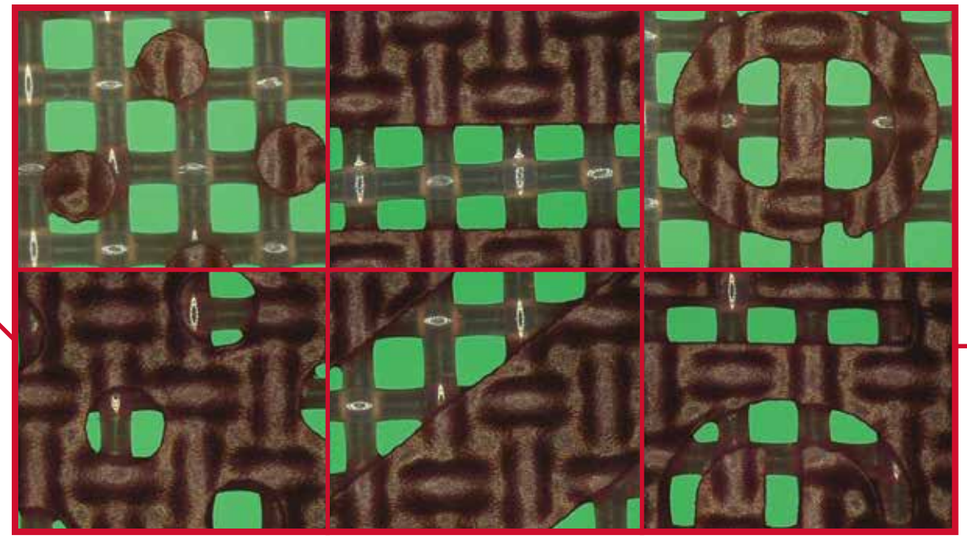
- Equivalent to DLE systems

1693

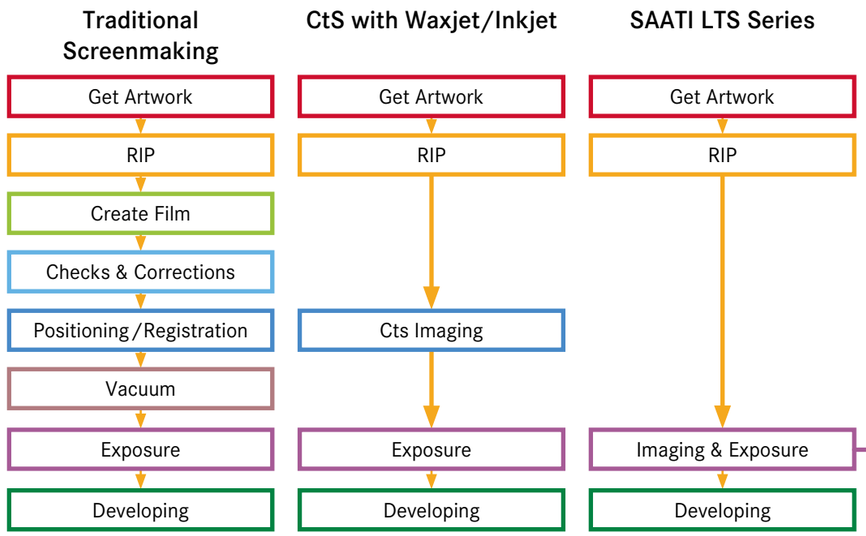
- Superior to many other DLE systems

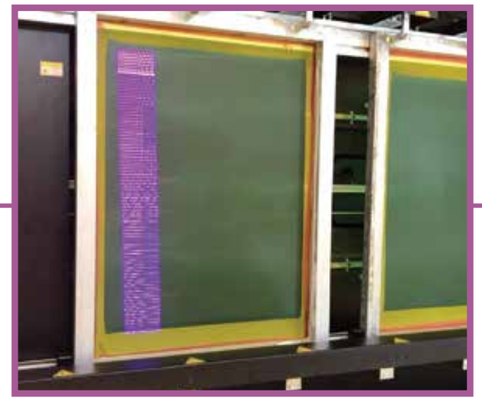
2540
Highest Setting

- Image setter quality for the most demanding applications



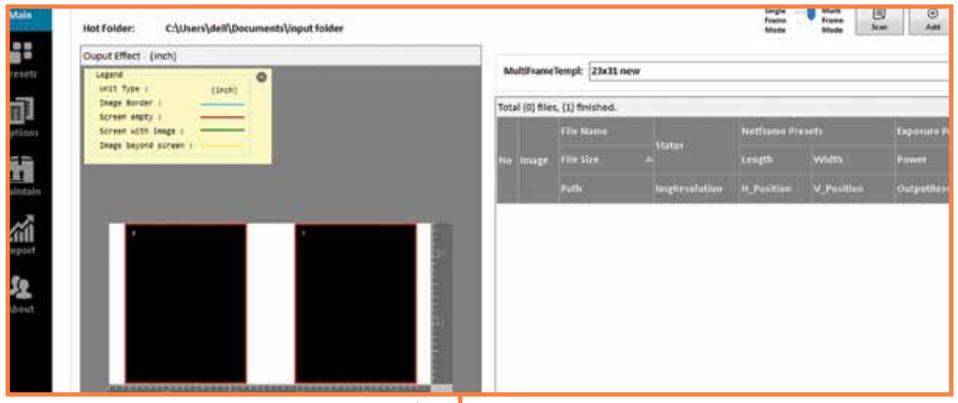
Improvements to Workflow



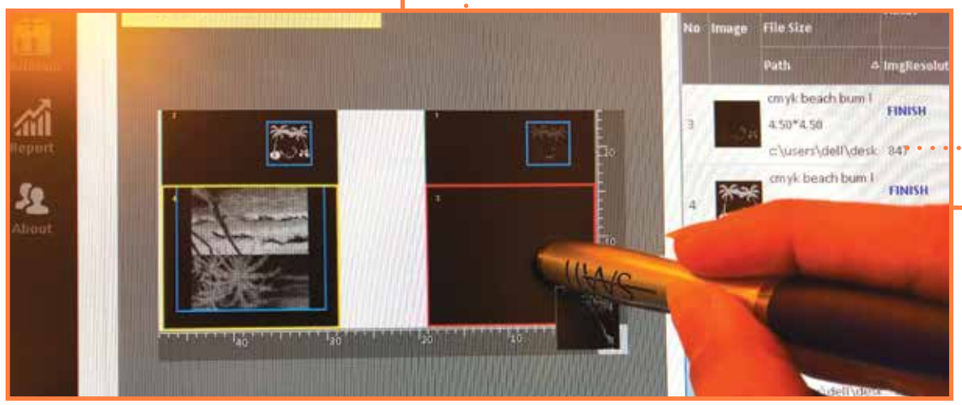


SAATI LTS Series

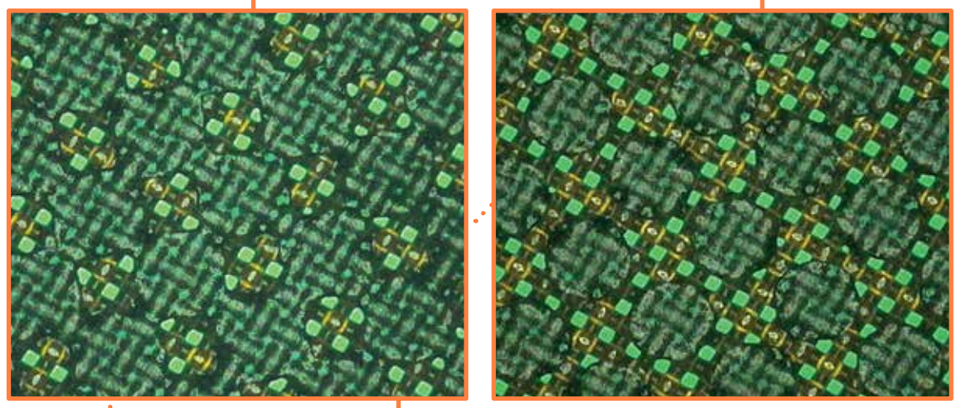
High Resolution Digital Direct Laser Image & Exposure Units



Precision placement of multiple art files across two screens



Laser array exposes images much more quickly than scrolling chip DLE or ink/waxjet that require subsequent exposure



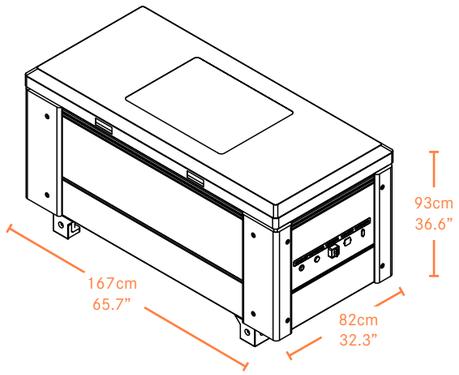
120 LPI 40% dot on 150.31 YE

120 LPI 60% dot on 150.31 YE

SAATI LTS 6080

High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions



Lasers

96

Weight

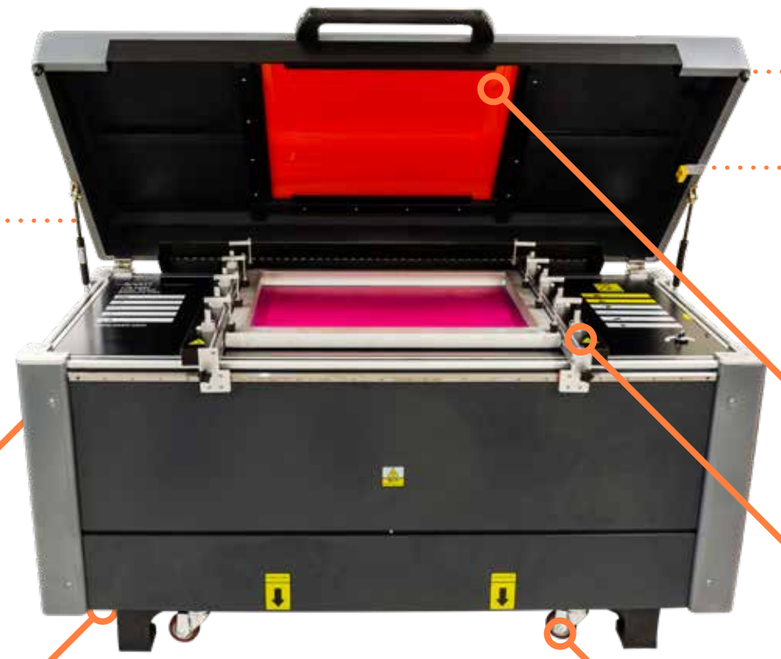
597 kg
1316 lbs

Power

110V
standard

240V
with adapter

350W
consumption



Characteristics

Facedown glass panel with enclosing lid

Maximum Single Frame Size:
85 x 110 cm

Safe Viewing Window for
observing exposure program progress

Adaptable to various types
of screen registration systems

Maximum Single Image Size:
60 x 80 cm

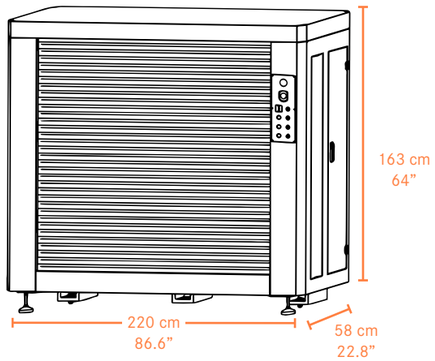
Solid metal construction provides a
vibration free stencil making platform

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

SAATI LTS 8012

High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions

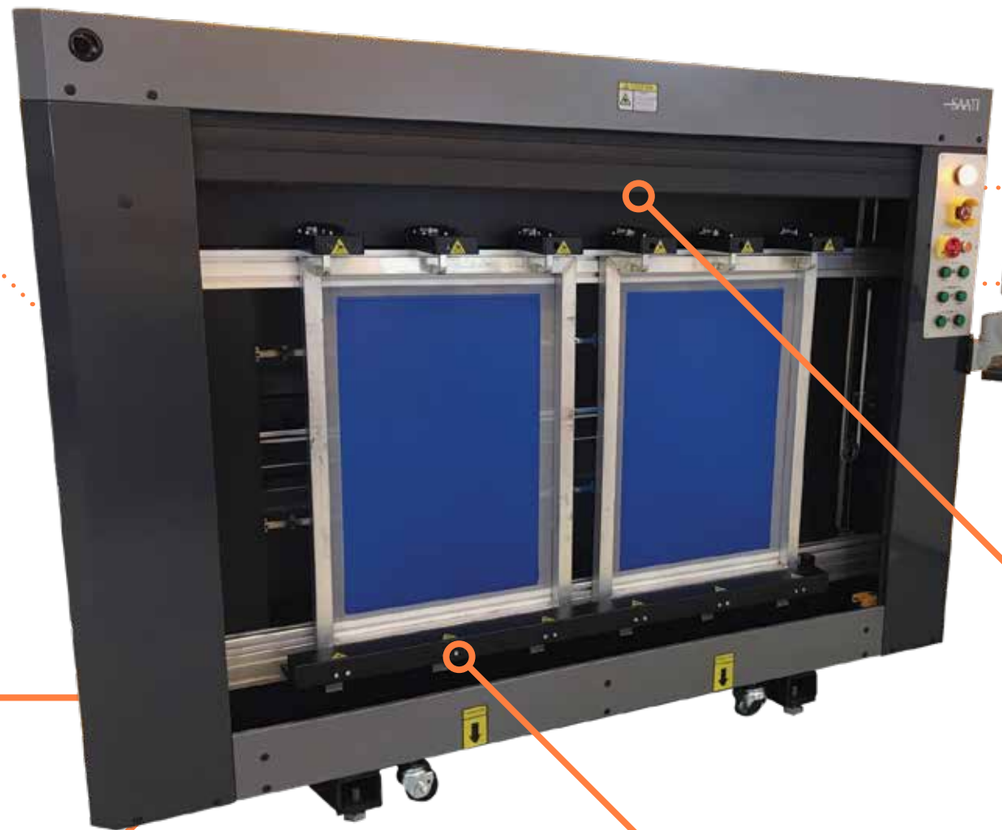


Characteristics

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



Lasers

128

Weight

925 kg
2,039 lbs

Power

110V
standard

240V
with adapter

800W
consumption

Touch screen workflow

Motorized safety shutter

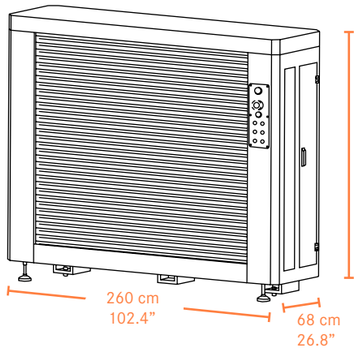
Large frame holding area enables simultaneous imaging
& exposure of either large screens, or 1 or more standard size screens

Maximum Image Size: 80 x 120 cm
Max Frame Size: 1 screen up to 105 x 160 cm
or 2 screens up to 63 x 91 cm

SAATI LTS 1015

High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions



Characteristics

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

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
Max Frame Sizes: 1 screen up to 150 x 190 cm
or 2 two screens up to 63 x 91cm

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

Lasers

160

Weight

1,200 kg
2,646 lbs

Power

110V
standard

240V
with adapter

1000W
consumption

Touch screen with powerful
workflow software

Easy to use control panel
engages and disengages frame
clamps, carriages, shutter & emergency stop

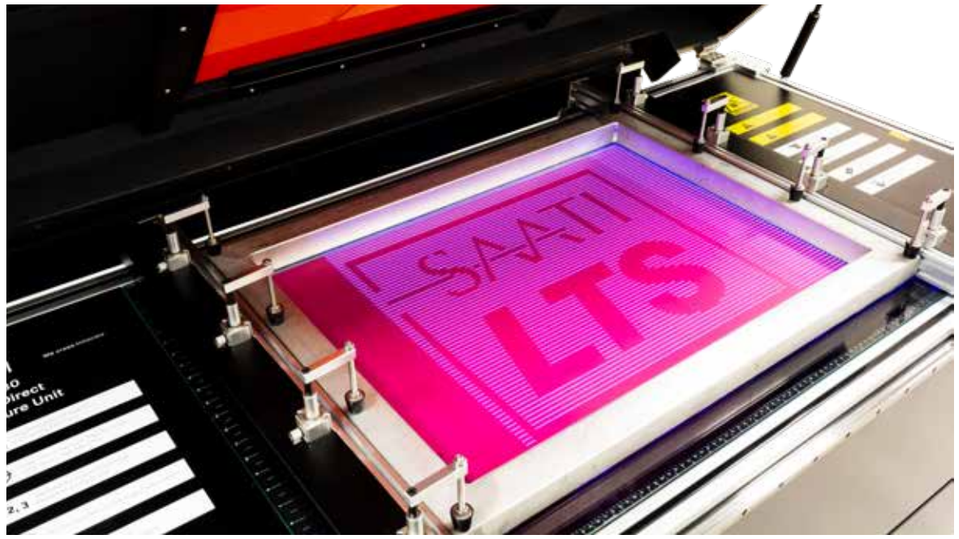
Motorized safety shutter

SAATI LTS Series

High Resolution Digital Direct Laser Image & Exposure Units

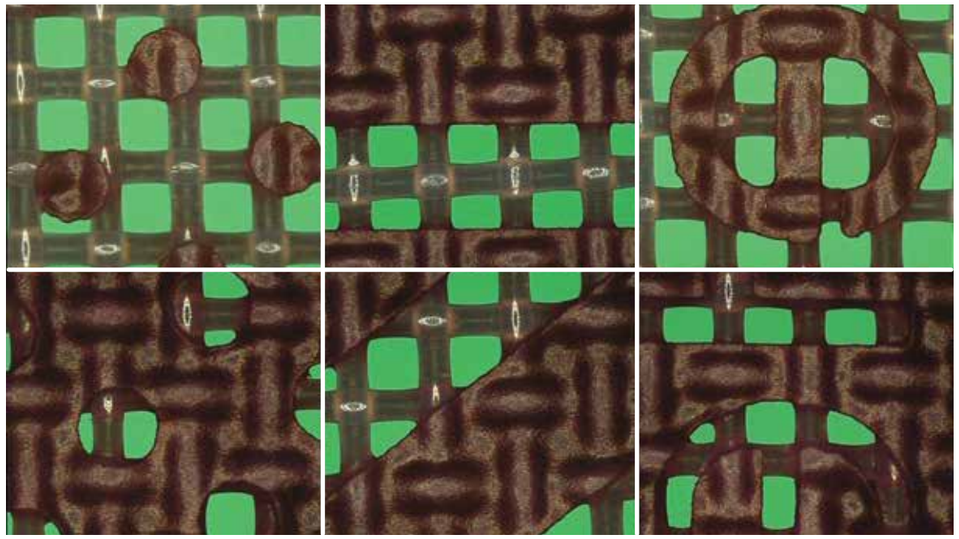
SAATI LTS Series Individual Specs

Machine	LTS 6080	LTS 6080-VF	LTS 8012	LTS 1015
Lasers	96	96	128	160
Dimension	167 x 82 x 93 cm 65.7 x 32.3 x 36.6”	220 x 58 x 163 cm 86.6 x 22.8 x 64”	220 x 58 x 163 cm 86.6 x 22.8 x 64”	260 x 68 x 200 cm 102.4 x 26.8 x 78.7”
Weight	597 kg / 1316 lbs	850 kg / 1874 lbs	925 kg / 2039 lbs	1200 kg / 2646 lbs
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”	104 x 167 cm 41 x 66”	115 x 167 cm 45 x 66.0”	140 x 200 cm 55 x 79”
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 Consumption	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. Recommended 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**



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

- High quality exposure
- LED Technology for long lifetime
- Various sizes available
- Fast exposure time using HD Chip
- Zeiss Optics
- Easy handling
- In-Line exposure & developing options
- Conversion of existing equipment to newest technology
- Global network
- Outstanding support

Applications

- Automotive
- Industrial
- Glass
- Electronics
- Sports Equipment
- Textile
- Labels
- Security
- Membrane Switch
- Decals
- Graphic
- Ceramic

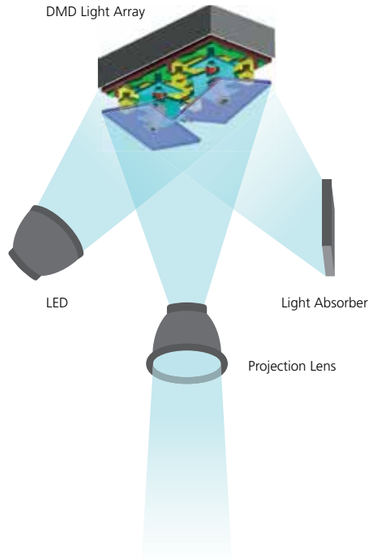
We manufacture systems to expose both, flat and rotary screens. Our machines are custom built depending on requirements of the customer application.

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.

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

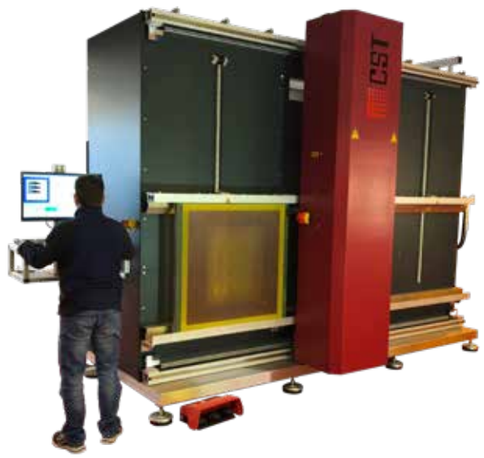
The new generation of DLE machines contains modern UV light sources. These UV LED light sources are fully integrated. This improves the stability and the lifetime of the fully encapsulated head system drastically.

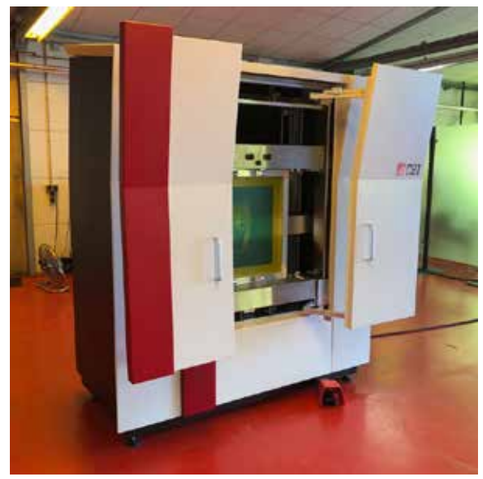
DLE Advantages

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.

CST DMD Systems

High Resolution Digital Direct DMD Image & Exposure Units





Machine	DLE Vertical	DLE New Compact	DLE ECO	DLE ECO+
Platform	Vertical	Vertical	Vertical	Horizontal
Max Screen Sizes **	Unlimited	59 x 59” / 1.5 x 1.5m	79 x 118” / 2 x 3m	35 x 35” / 0.9 x 0.9m
DPI Resolutions	500, 720, 1000, 1270	500, 720, 1000, 1270, 2540	720, 1000	2540
SD DMD (1024x768)	500, 720, 1000, 1270	500, 720, 1000, 1270	500, 720, 1000	Not Available
HD DMD (1920x1080)	720, 1270	720, 1270, 2540	Not Available	2540
Inline Capability	Yes	Yes	Not Available	Not Available
Available Power	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
Frame Clamping	Pneumatic	Pneumatic	Manual	Manual
Light Source	Multi-Wavelength LED UV or Laser Light Source	Multi-Wavelength LED UV or Laser Light Source	Multi-Wavelength LED UV	Laser Light Source
Remote Diagnostics	Yes	Yes	Yes	Yes
Data Input	Data Interface TIFF 6.0	Data Interface TIFF 6.0	Data Interface TIFF 6.0	Data Interface TIFF 6.0
Warranty ***	1 Year	1 Year	1 Year	1 Year

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

SAATI 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

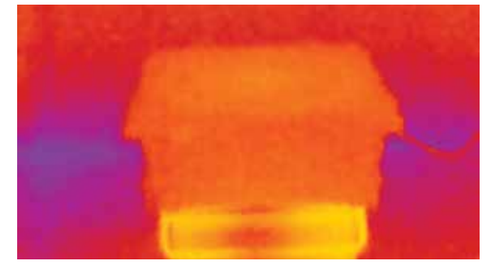
- Optimum wavelength for fast exposure, deep cure & wide latitude
- Runs cold, glass stays cool and no extra a/c load
- Constant light output, no photocell/ filter/light integrator calibration needed, just a simple timer
- 85V-265V rated and works with any 110V outlet

Recommended Usage

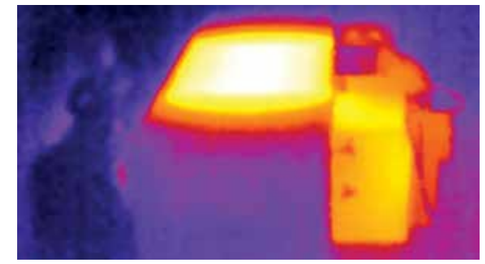
- Use at a minimum of 61 cm distance for even exposure of one 58x79 cm or 64x91 cm screen.
- Use at a minimum of 36” distance for even exposure of two-up 58x79 cm or 64x91 cm screens.

Specifications

- Dimensions: 33 L x 38 W x 42 H cn
- Weighs 13 kg
- Uses 110v standard wall outlet



Low heat output of SAATI ProLite 450 LED Lamp



High heat output of traditional Metal Halide Lamp

ProLite 450 as low cost replacement for defunct Metal Halide bulbs

Blockouts & 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

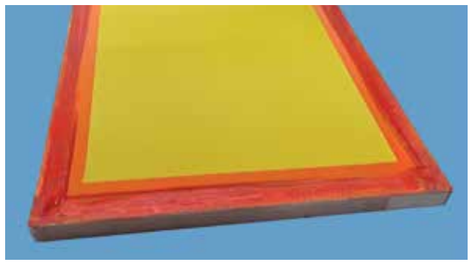
- Resistant to water and solvent
- Unlike other water-based blockouts, offers superior water resistance simply upon drying
- Resistant to water-based, plastisol, UV-cured and solvent-based ink
- Very high solids content offers increased durability
- Can be removed with emulsion reclaiming chemicals and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

Finish SU1 a+b

Hygro-hardening two-components blue lacquer for retouching and reinforcing engraved screens

Characteristics

Finish SU1 a+b offers a perfect adhesion to the emulsion and the fabric, and good resistance to chemicals used in textile printing.



Description	Finish S1	Finish S2	Finish S3	Finish W1	Finish SU1 a+b
Viscosity	Medium	Medium	High	High	Low
Color	Red	Blue	Blue	Purple	Blue
Type	Water-based	Water-based	Water-based	Water-based	Solvent-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.	To increase stencil durability, closing the edge of screens

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 7W
- Standard light socket fitting

Left: Standard flourescent tube light in screen room

Right: Prevalence of wavelengths that expose photo emulsion

Left: Yellow light washout lab

Right: Prevalence of wavelengths that expose photo emulsion

TQM 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.

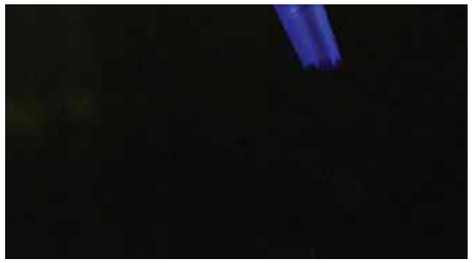
TQM Blue Light Safe Glasses block all visible wavelengths of light except for blue, so if one wears them and can see in the screen making lab, then one has blue light contamination which will affect emulsions and films before and after stencil making, reducing the reliability of stencil production methods 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: Visible light in screen room with standard flourescent tube lighting

Bottom: Visible light shows the prevalence of light wavelengths that expose photo emulsion



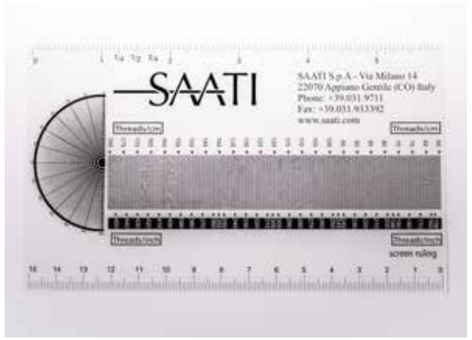
Top: Visible light in a screen room with yellow safe light

Bottom: Visible light shows the prevalence of light wavelengths that can expose photo emulsion

Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

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.

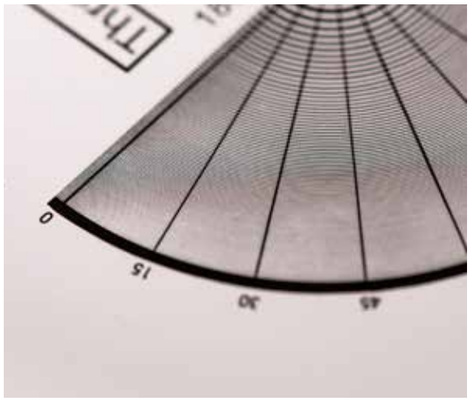
You can accurately count the number of threads per inch within +/-2 in mesh counts ranging from 22-528 TPI.

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

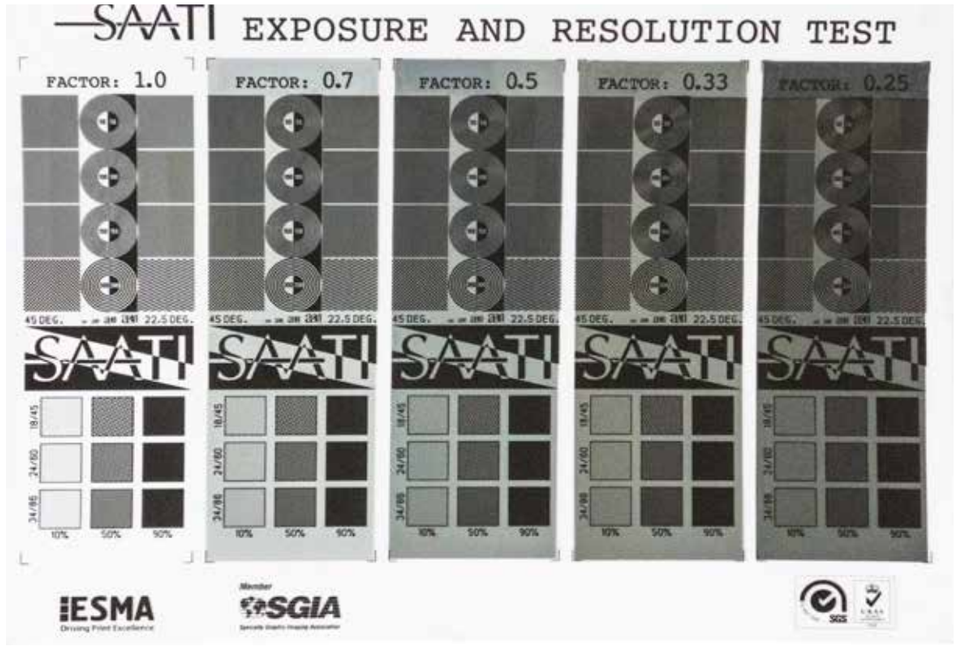
Angle Determiner



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.

Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

SAATI 21-Step Sensitivity Guide

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.

transparent

ideal cure

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)

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

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

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

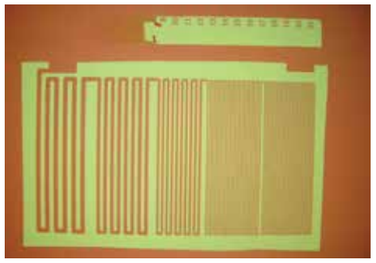
Advanced Uses

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 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 is the preferred cure level.



Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

Newman ST-Meter® 1-E

A uniquely constructed, heavy-duty mechanical tension meter that assures durability and longterm accuracy in monitoring screen tension. It is the only meter in the world with all stainless steel hardened gears, shock-proof industrial grade internal gear movement and all jeweled sapphire bearings.

A screen tension meter of exceptional quality, it will last longer and produce consistent readings every time to an accuracy of ±1N/cm (All other mechanical meters have non-compound softer brass gears and bushing, greatly reducing their shock-resistance, long-term accuracy and life.) The crystal is shatterproof and curved to avoid glare. The heavy-duty protective aluminum housing is the most durable meter made anywhere. The modular construction assures easy and inexpensive repairs, if necessary.

Also available is the Newman ST-Meter 2-E which uses non-jeweled bearings and is rated to ±2N/cm accuracy.

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 Gauges

- 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 Gages 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*

Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

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

Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

Vividia Portable Digital Handheld Microscope

The Vividia 3R-500UV Portable Handheld Digital Microscope has 3.5” LCD screen, up to 200x magnification, both white and UV LED lights, and 5MP sensors. Images and videos are saved on SD cards, and the microscope can be used on a PC through USB cable connection and included software. Vividia 3R-500UV are widely used in printing, forensic science, education, medical, manufacturing, electronics, hobby etc.

Product Details

- Dimension: 117mm(L) x 75mm(W) x 67mm(H) - 4.6 x 2.9 x 2.6”
- Weight: 170g (5.75 oz) without SD Card
- Battery: Rechargeable 1800mAH lithium-ion battery
- Power Supply: DC 5V/1A ± 10%
- Battery Capacity: Approx. 4 hours for continuous working with 500 cycles

Features

- Small, light, and portable
- High definition images, 5MP and clear images
- Magnification from 10x to 200x. With digital zoom to ~800x
- Switchable white LED lights and UV LED lights
- Simple scale can be showed on LCD screen to assist measurement
- Can be used on PC with USB connection and included measurement application software
- Take photos and record videos and stored on SD card

Technical Details

- Camera Type: 1/3 “ color CMOS Sensor Digital Camera
- Image Resolution: 640(W x480(H), 1280x960, 1600x1200, 2048X1536, or 2560x1920(5MP)
- Image Quality: Highest Definition
- Image Format: JPEG
- Video Format: AVI with VGA or QVGA resolution
- Illumination: 4 white LED+4 UV LED with adjustable luminance and switchable
- Lens: 200x Zoom microscopy lens with High Definition
- Magnification: 10x-200x
- Digital Zoom: Continuous 4x (Max total magnification 800X)
- Aperture: Auto
- Sensitivity: Approximately equivalent to ISO 100, 200, 400
- LCD Monitor: 3.5” TFT LCD with 76800-dot(320x240)
- SD Card Support: Up to 32G
- Camera Functions: Shutter Snapshot, Video recording, Image and Video displaying
- Extending Shutter: Support extending shutter/Video recording/Led exchanging
- Focus Range: 0-60mm
- PC connection: USB 1.1/2.0

Included

Microscope, Wired controller, Lens cover (2 pieces) & Spacer (2 pieces), USB charging cable, mini USB cable, AC/USB charging adapter, Strap, Simple scale, Software CD, SDHC card 4GB, Cleaning cloth, Instruction manual

Duralife Squeegee

Duralife CE

Duralife Cut Edge squeeges are engineered to have great production performance in order to meet specific demands of the global screen printing industry. Thanks to our exclusive polyurethane formulation, Duralife CE squeegees are resistant to both chemicals and abrasion making them suitable for all applications.

Characteristics

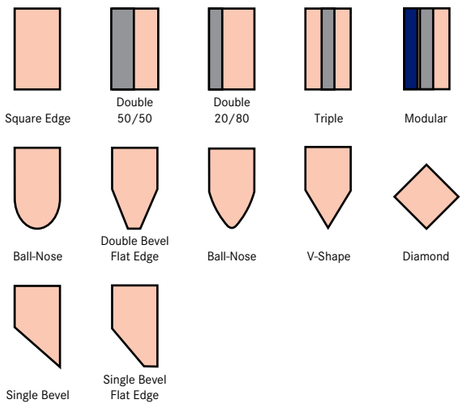
- Hardness (SH): from 50 Shore to 90 Shore
- Standard length: 3660 mm
- Width: from 20 mm to 100 mm
- Thickness: from 4 mm to 10 mm

Features

- Extremely solvent resistant with low swelling
- UV ink resistant
- Good abrasion resistance
- Not affected by humidity
- Good re-sharpening
- Resists nicking
- Great all around performance

Duralife CE Squeegee Color Coding System	
50 durometer	Transparent
60 durometer	Orange
65 durometer	Yellow
70 durometer	Blue
75 durometer	White
80 durometer	Red
85 durometer	Pink
90 durometer	Gray

Squeegee Profiles



Duralife HP

Duralife HP is the culmination of all of the benefits in the Duralife range of screen printing squeegee. It is specifically formulated to have the maximum level of resistance to the most aggresssive UV & solvent -based inks, antistatic properties, and the strongest resistance to abrasion from the printing process and abrasive substrates & inks.
This makes Duralife HP squeegee is the ideal choice for high speed automatic press printing of electronics, glass and other demanding applications.

Characteristics

- Premium cut edge
- Hardness (SH): from 50 Shore to 90 Shore
- Standard length: 3660 mm

Width: from 20 mm to 100 mm

- Thickness: from 4 mm to 10 mm

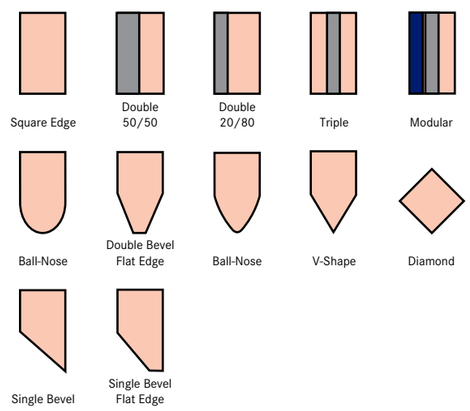
Features

- The highest UV and solvent resistance with minimal swelling
- The highest abrasion resistance
- Resists nicking
- Antistatic properties
- Excellent all around performance
- Excellent re-sharpening

Duralife HP Squeegee Color Coding System	
50 durometer	Transparent
60 durometer	Orange
65 durometer	Yellow
70 durometer	Blue
75 durometer	White
80 durometer	Red
85 durometer	Pink
90 durometer	Gray

Duralife HP 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			

Squeegee Profiles



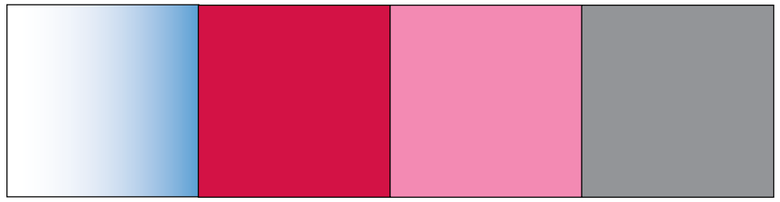
SAATI

Duralife Squeegee

Applications

Textile | Ceramic | 50 SH | 60 SH | 65 SH

Graphics | Glass | 70 SH | 75 SH



UV/Industrial | 80 SH | 85 SH | 90 SH

Printed Electronics | Graphics | Triple Duro

Duralife ME

Duralife ME squeegees are the only squeeges cast in individual cavity molds that seals both walls to better withstand solvent attack.
This is also the only way to assure consistent and uniform blade thickness, dimensions and hardness. Duralife ME squeeges hold up longer on press and resist softening, even in UV applications.
Their molded printing edge also stays sharper and resist nicking.
The Duralife ME family is made of a wide range of squeege grades, types and configurations, all color coded for ease of identification.

Duralife ME Squeegee Color Coding System	
50 durometer	Transparent
60 durometer	Orange
65 durometer	Yellow
70 durometer	Blue
75 durometer	White
80 durometer	Red
85 durometer	Pink
90 durometer	Dark Orange

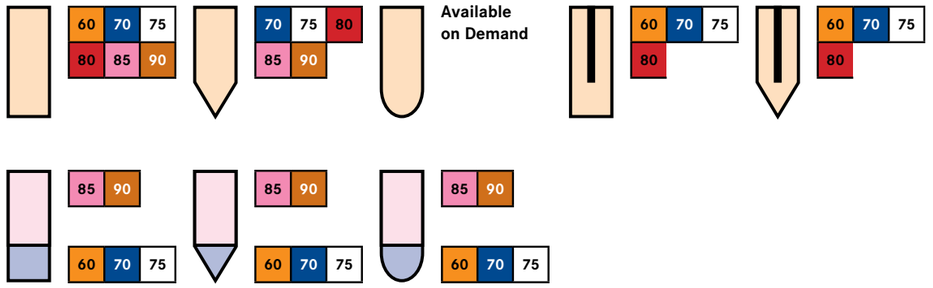
Characteristics

- Premium Molded Edge
- Hardness (SH): from 50 Shore to 90 Shore
- Standard length: 3660 mm
- Width: from 20 mm to 100 mm
- Thickness: from 4 mm to 10 mm

Features

- UV and abrasion resistant
- UV ink resistant
- Extended press life
- Resists nicking
- Sealed walls resist solvent attack

Fabrication Options



Washout Equipment

SAATI Wash Out Booth

Characteristics

- Designed for manual cleaning and decoating of screen printing stencils after print
- Chemical Resistant
- Screen Holder
- Skewed top edge enables flow of the cleaning fluid into the washout booth by using bigger stencils.
- Higher and round front edge is safer for use and protects
- the flashing of the cleaning fluid from the box

Standard Sizing Options

- UB90 92 X 70 X 39,5 cm
- UB125 127 X 120 X 54,5 cm
- UB165 167 X 135 X 54,5 cm
- UB ON REQUEST

Optional Accessories

- Stainless steel stand with plastic legs
- 50L or 100L barrel
- Pump OC-MS/RENNER
- Tube and brush
- Slip resistant grate and plastic tray

SAATI Dip Tank

Tank and lid made of chemical and impact resistant PPH. Stainless steel made stabilisation frame.
Optional with air injection for air bubble formation and mechanical stepping up of the development or decoating process.
Standard external dimension: Width 725 mm, Depth 400 mm, Height 665 mm Max content: approx. 150 liters.
Further sizes on request.

SAATI Sedimentation Drum

Available sizes: 200 L, 100 L, 50 L. Recycling of ink contamined REMCO Variowash and Varioclean S screen cleaner with addition of 1-2% of Varioplus 4095 Sedimentation Additive. After overnight of weekend sedimentation, the purified solvent phase can be drained through the first faucet of the sedimentation drum and re-used after blending 1:1 with fresh Variowash or Varioclean S cleaner.
After this, the pigment sludge (approx. 20% by volume) can be drained through the second faucet at the bottom of the sedimentation drum.

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.

Washout Equipment

Optimal Equipment and Tools to Maximize Efficient Reclaiming

Brushes for Adhesives

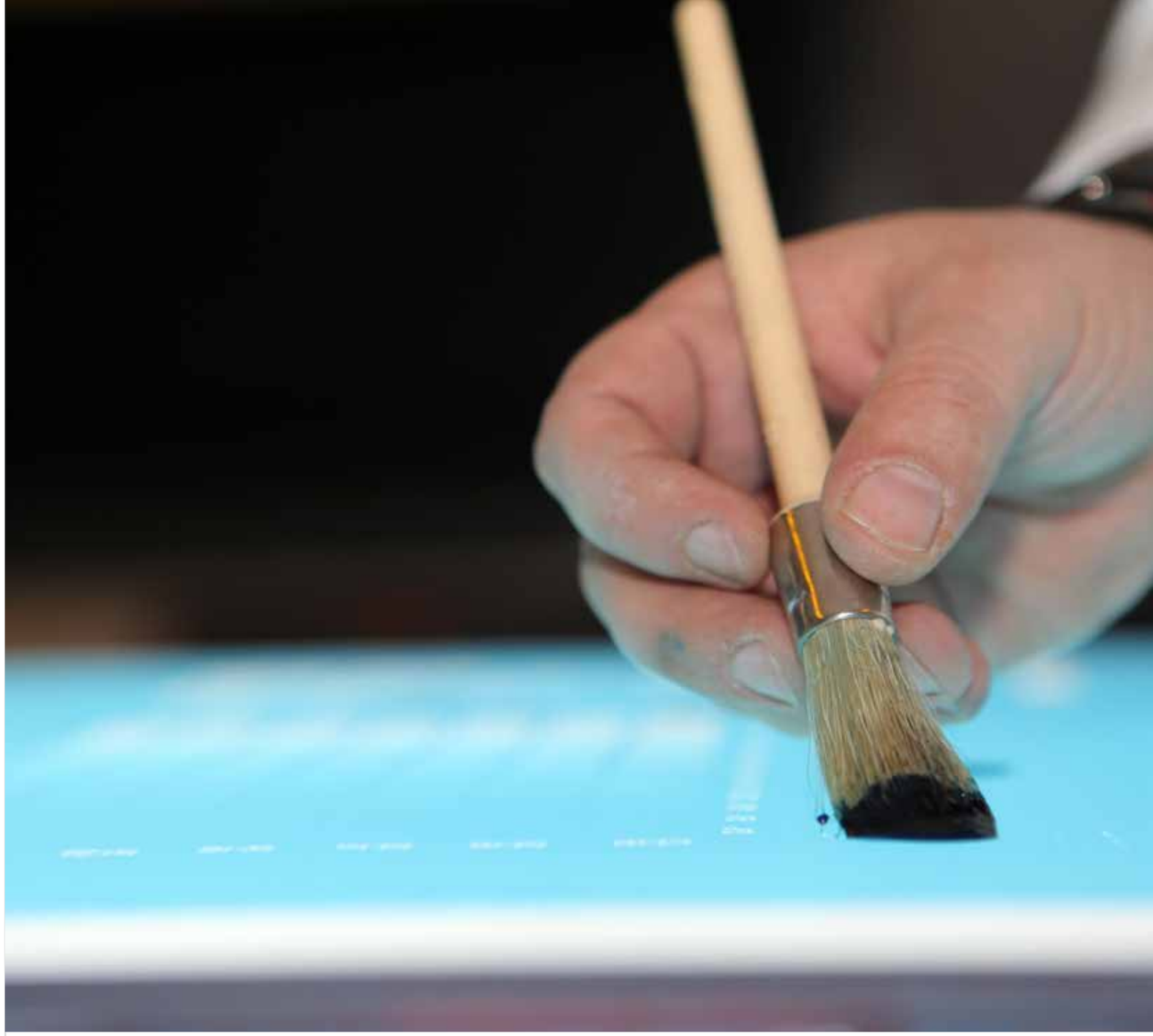
High quality natural bristle brushes designed for the application of viscous two-part polyurethane adhesives to adhere mesh to all frame types during stretching.

Screen Preparation Brushes

- 100% chemically resistant
- Stiff nylon bristles
- Perfect for spreading degreasers, decoaters and haze removers

Large Screen Brushes

- 100% chemically resistant
- Green handle brush has medium stiffness bristles
- Green handle brush has very soft spliced bristles
- Perfect for spreading degreasers, decoaters and haze removers on larger screens



Brush Pads

100% chemically resistant synthetic screen cleaning pads with an ergonomic handle that makes them convenient for applying degreasers, decoaters and haze removers to large screens.

Automatic Washing Unit

Continuous Flow System for Automatic Washing a

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 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 Automatic Washing Unit 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
- 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.

Compact Automatic W&D Unit

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 Automatic Washing Unit 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 Compact Automatic W&D 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
- 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.

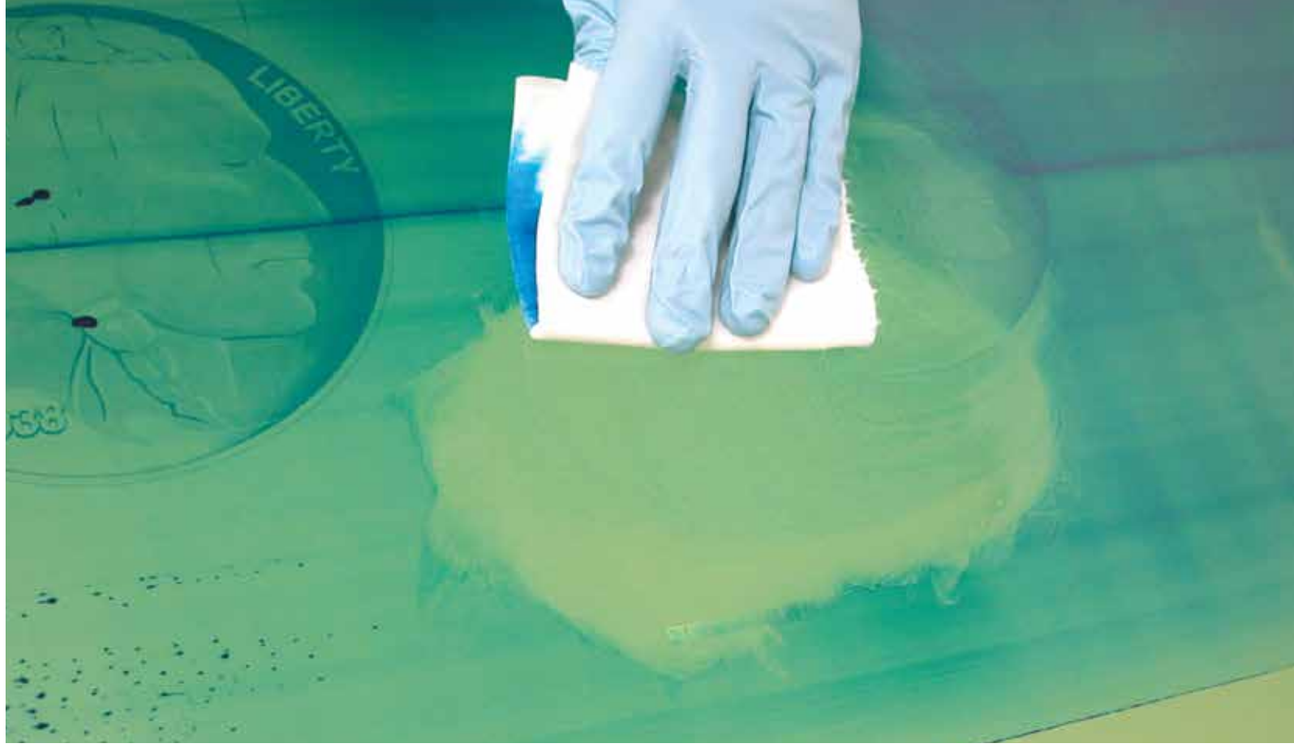
The **finish module** processes the stencil on both sides using high-pressure water from moving jet arms, completely removing all template residue.

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

The unit is delivered with all the necessary documentation and CE mark.

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 according to textile, glass and industrial graphic industry.



Remove PW

- Solvent mixture characterized by medium evaporation, designed for cleaning and removing inks in textile and graphic printing
- It works very well during color change phase and, in general, to clean stencils during printing and before storing

Remove PW7

- Solvent mixture characterized by fast evaporation and limited odor, designed for cleaning and removing inks in textile and graphic printing
- It works very well during color change phase and, in general, to clean stencils during printing and before storing
- To be used to remove glues from printing pallets.

Remove PW242

- Manual screen cleaner and mesh opener with mild odor
- Multi-purpose solvent developed for removing of almost all graphics, electronics and textile screen printable ink systems (solvent-, water-based and UV curing inks) and lacquers from screens, tools and squeegees
- Very efficient for removing of 2 component solvent-based inks and printing pastes
- Flash point: 43°C, contains aromatic hydrocarbons

Remove PW907

- Slow volatile, biodegradable screen cleaner and mesh opener with flash point of 58°C.
- Effective multi-purpose solvent mixture developed for removing almost all solvent-, water-based and UV curing inks and lacquers.

Remove PW36

- Manual screen cleaner and mesh opener with mild odor
- Multi-purpose solvent developed for removing of almost all graphics, electronics and textile screen printable ink systems (solvent-, water-based and UV curing inks) and lacquers from screens, tools and squeegees
- Flash point: 43°C, contains aromatic hydrocarbons

Remove PW40

- Biodegradable screen cleaner and mesh opener with mild odor and flash point of 43°C.
- Effective multi-purpose solvent mixture developed for removing almost all solvent-, water-based and UV curing inks and lacquers
- Slow volatile, biodegradable screen cleaner and mesh opener with flash point of 58°C.
- Effective multi-purpose solvent mixture developed for removing almost all solvent-, water-based and UV curing inks and lacquers.

Markets

	Remove PW	Remove PW7	Remove PW36	Remove PW40	Remove PW242	Remove PW907
Garment			■	■		■
Industrial Graphic	■		■	■	■	■
Glass	■	■	■	■		■
Electronics	■	■	■	■	■	■

■ = product conceived for this market

SAATI Ink Removers

Ink Removing for Screen Re-use

Remove PW810

- Screen cleaner with mild odor with flash point: 62°C, contains aromatic hydrocarbons.
- Multi-purpose solvent blend for removing of almost all glass printable ink systems (solvent-and water-based and UV curing inks) from screens before storing, tools and squeegees.
- Developed for the application in wash-out basins, semi-automatic washout booth and automatic screen washing equipment.

Remove PW907

- Slow volatile, biodegradable screen cleaner and mesh opener with flash point of 58°C.
- Effective multi-purpose solvent mixture developed for removing almost all solvent-, water-based and UV curing inks and lacquers. Suitable for manual use or use in automatic screen cleaning equipment.
- Biodegradable, highly versatile product with very low odor. Cleans all commonly used screen printing medias. Suitable for manual use or use in automatic screen cleaning equipment. Does not contain any additives and is therefore ideal for reusing the stencils. Flash point: 80°C.

Remove PW13

- Screen cleaner with mild odor and flash point: 62°C, contains aromatic hydrocarbons
- Multi-purpose solvent blend for removing of almost all graphics and glass screen printable ink systems (solvent-based and UV curing inks) and lacquers from screens before storing, tools and squeegees
- Developed for the application in wash-out basins, semi-automatic washout booth and automatic screen washing equipment

Remove IR23

- Biodegradable, highly versatile product with very low odor. Cleans all commonly used screen printing medias
- Suitable for manual use or use in automatic screen cleaning equipment
- Does not contain any additives and is therefore ideal for reusing the stencils. Flash point: 80°C.

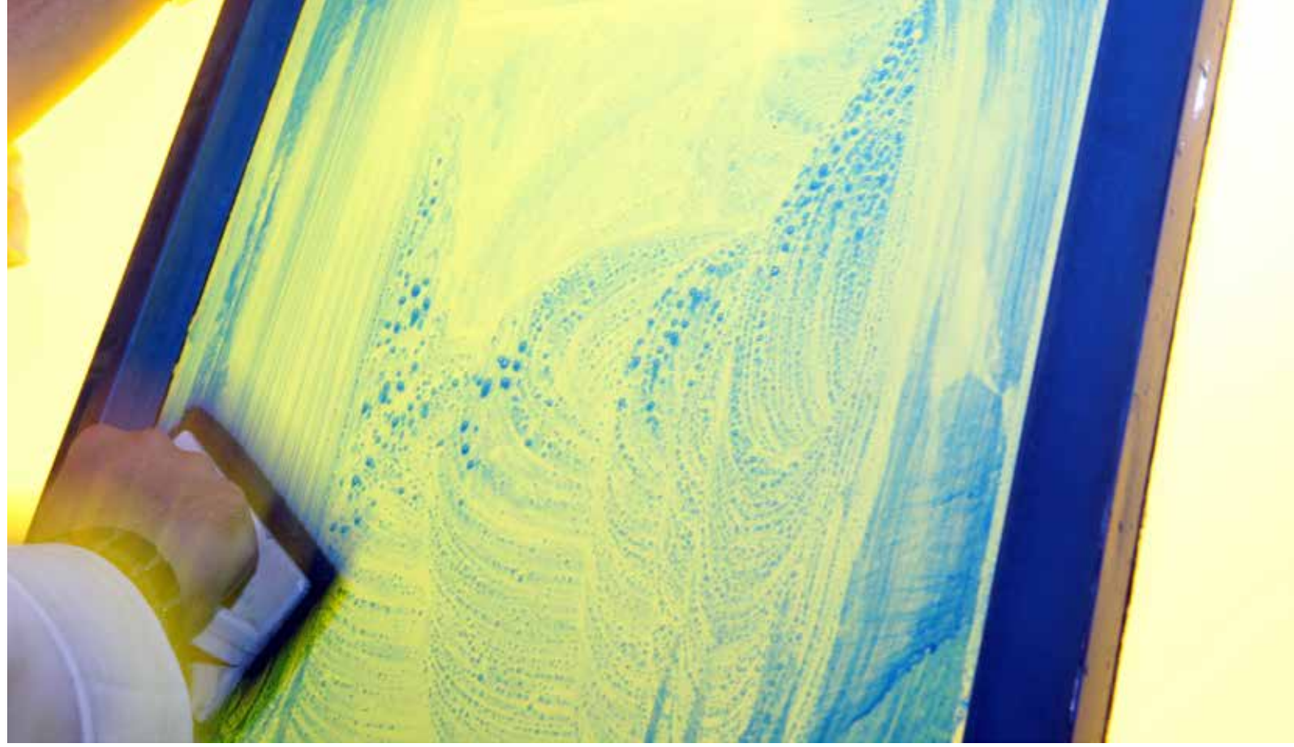
Markets

	Remove IR23	Remove PW13	Remove PW810	Remove PW907
Garment				
Graphic				
Glass				
Electronics				

= product conceived for this market

SAATI Ink Removers

World Class Ink Removers for Each Type of Screen Printing Ink



Ink Removing before Screen Decoating

Remove IR15DK

- For manual use or use in automatic screen cleaning equipment. Flash point: >70°C.
- The biodegradable product has been developed for removing UV inks
- No labeled product

Remove IR24

- For manual use or use in automatic screen cleaning equipment. Flash point: 102°C.
- The biodegradable product has been developed for removing of solvent-, water-based and UV curing inks and lacquers from screens, tools and squeegees.

Remove IR26

- For manual use or use in automatic screen cleaning equipment.
- Versatile ink remover, cleans solvent based, UV-Cured and Textile inks
- Low foam and low odor
- Can be mixed with ER6 and used as one-step ink and stencil remover

Remove IR30

- A biodegradable. water-soluble cleaner concentrate to remove plastisol and aqueous ink systems from the screen. Very mild in odor
- Contains highly active surfactants for excellent ink penetration and water flushing. Can be used undiluted and dilutedwith water in a ratio of 1 part IR 30 to 5 parts of tap water
- Ecological and economical in its use. Flash point: 100°C.

Remove IR79

- A biodegradable. water-soluble cleaner concentrate to remove aqueous ink systems from the screen
- Very mild in odor. Contains highly active surfactants for excellent ink penetration and water flushing. Can be used undiluted and diluted with water in a ratio of 1 part IR 79 to 5 parts of tap water
- Ecological and economical in its use. Flash point: 80°C.

Remove IR82

- For manual use or use in automatic screen cleaning equipment. Flash point: 78°C.
- The biodegradable product has been developed for removing of solvent-, water-based and UV curing inks and lacquers from screens, tools and squeegees
- Suitable for manual use or use in washout booth and automatic screen cleaning equipment

Remove IR205

- For removing of plastisol, pvc-free plastisol and reactive water-based inks. Also to be used as post-cleaner before decoating
- Contains washing active substances for excellent flushing with water
- Suitable for manual use or use in washout booth and automatic screen cleaning equipment. Flash point: 100°C.

Remove IR317

- For manual use or use in automatic screen cleaning equipment. Flash point: 102°C
- The biodegradable product has been developed for removing of solvent-, water-based and UV curing inks and lacquers from screens, tools and squeegees
- Suitable for manual use or use in washout booth and automatic screen cleaning equipment

	IR15DK	IR24	IR26	IR30	IR79	IR82	IR205	IR317
Garment	■	■	■	■			■	
Graphic	■	■	■	■				■
Glass	■		■		■	■		
Electronics	■	■	■	■				■

■ = product conceived for this market

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 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

Adhesive Removing

Adhesive Removing from Pallets for Textile Industry

Remove PW7

- Pallet adhesive remover
- Multi-purpose solvent developed for removing of almost all textile and graphic screen printable ink systems
- It works very well during color change phase and, in general, to clean stencils during printing and before storing

Remove PW36

- Pallet adhesive remover with mild odour and a flash point of 43°C
- Multi-purpose solvent developed for removing of almost all textile screen printable ink systems (solvent-, water-based and UV curing), solvent-based screen print pallet adhesives and lacquers from screens, tools and squeegees
- Contains aromatic hydrocarbons.

Remove PW730

- Special biodegradable cleaner with mild odour and a flash point of 79°C
- The effective solvent blend is developed for removing of water-based adhesives from printing pallets, printing equipment and floors as used in the textile screen printing industry

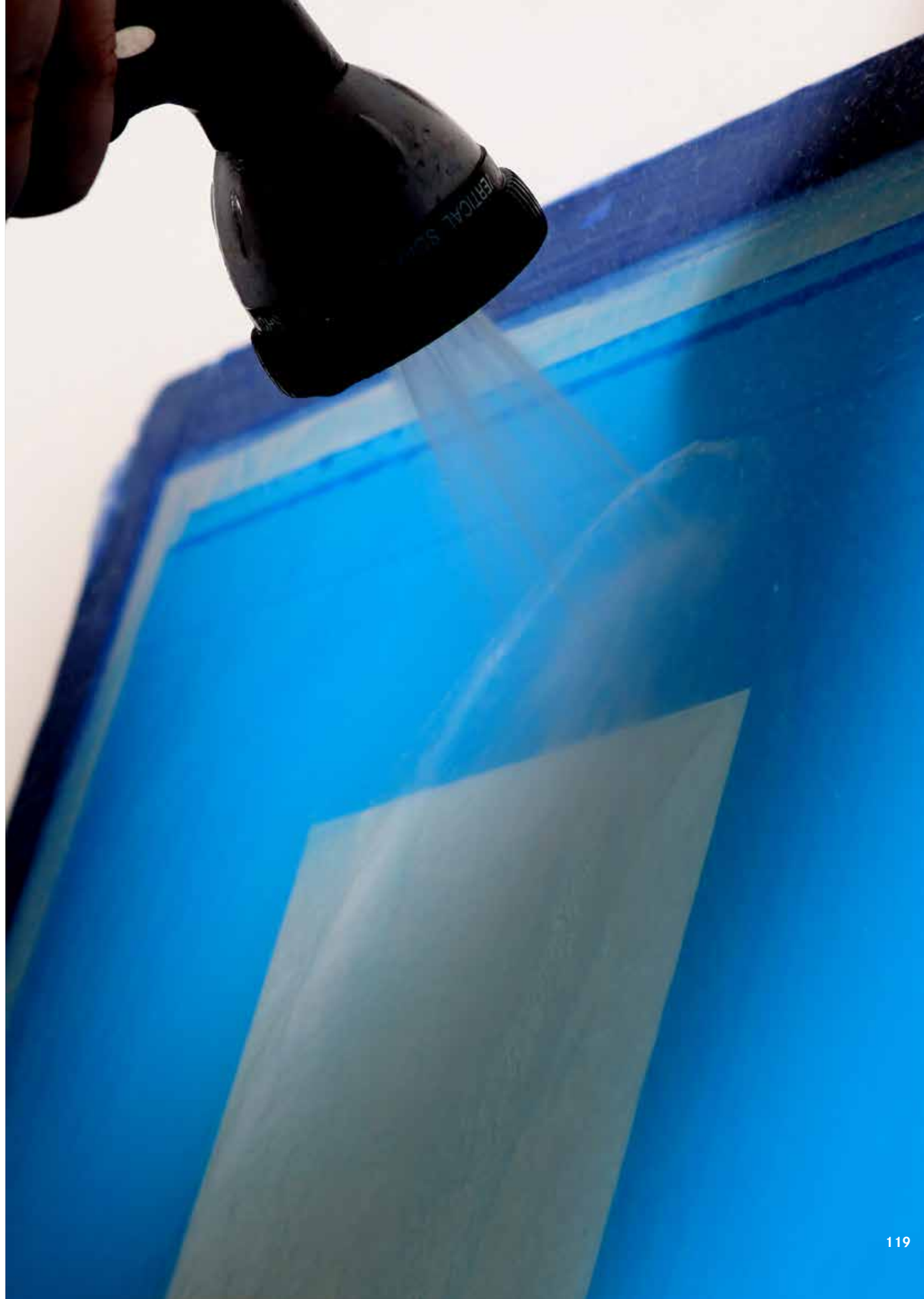
SAATI Stencil Decoaters

Remove ER2

- Water-soluble decoatingconcentrate with built-in degreaser. Biodegradable and low odor
- The ready-to-use working solution is achieved by mixing 1 part by volume of Remove ER 2 with 30 –35 parts by volume of water
- It is equally suitable for manual application and use in dip tank and automatic reclaiming machines

Remove ER13

- Water-soluble decoatingconcentrate. Biodegradable and low odor
- The ready-to-use working solution is achieved by mixing 1 part by volume of Remove ER 13 with 50 –60 parts by volume of water
- It is equally suitable for manual application and use in dip tank and automatic reclaiming machines



SAATI Haze Removers

Chemicals for releasing any locked in remnants of old stencils after ink & emulsion removal. SAATI Haze Removers are universally effective against all ghost/haze, and come in liquid and convenient paste formulas.

Remove HR3

- One part, ready-to-use paste
- Is able to remove the toughest stains
- Works in minutes.

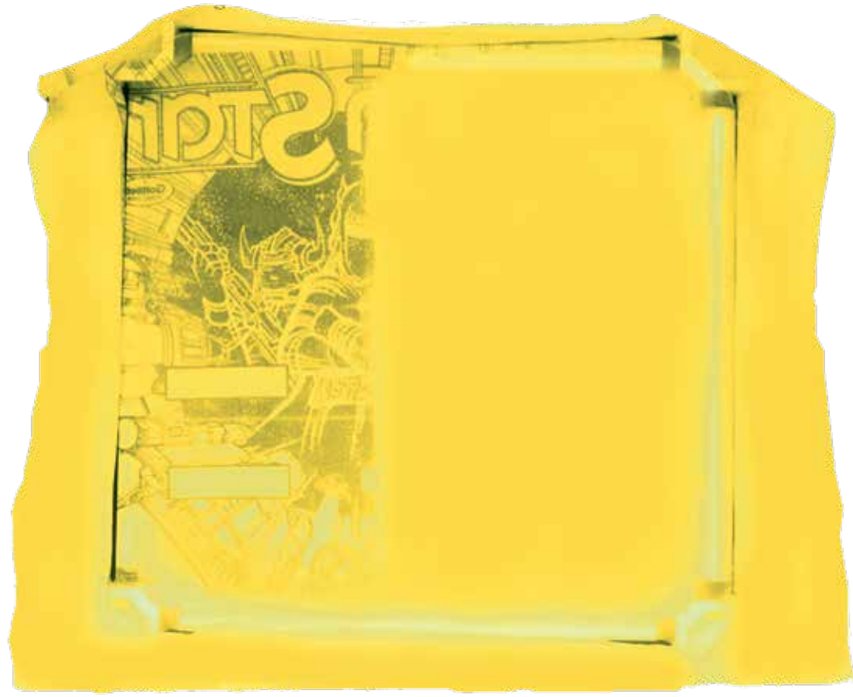
Remove HR8

- One part, ready-to-use (cream)
- Let sit on screen for a few minutes
- Application with coating through

Remove HR9

- Alkaline content gel
- Works in 5-15 minutes.
- Application with coating through

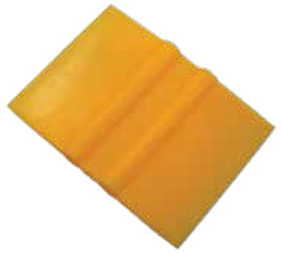
SAATI Haze Removers are suitable for all market applications such as: glass, textile, industrial graphics and electronics



Auxiliary Items

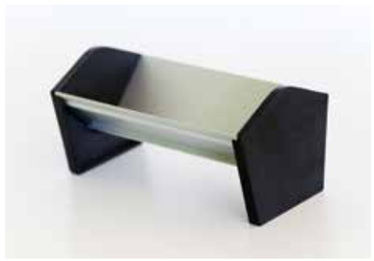
Spreader Squeegees

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.



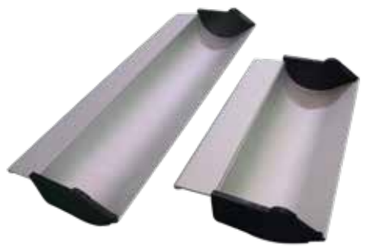
Dual Edge Coating Troughs

- 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



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