Screen O Tex™
India Pvt. Ltd.

Manufacturer of Precision
Rotary Nickel Screens

Acing the Technology of Screen Manufacturing





Everything, Customised

An Exclusive Piece by Piece Creation for Each Customer.

At **Screen-O-Tex India**, quality is not an accident. It's the outcome of careful application of engineering; uniform thickness, open area, hole diameter and repeat; skillful execution and a wise choice of many alternatives. The outcome is a screen that is crafted to perfection in order to meet stringent international quality norms.

Our primary focus is to provide our customers with high quality precision rotary nickel screens for Textile and Non-Textile Rotary printing.



Who Are We?

Incorporated in 2001 Screen-O-Tex India has raced ahead to the forefront of the screen manufacturing industry in India, fueled by technological excellence; focused research & development; and strict adherence to international quality norms.

Today, Screen-O-Tex India is widely-acknowledged as one of India's No#1 manufacturer/exporter of Rotary Nickel Screens for Textile and Non-Textile Rotary Printing.

Growing from strength to strength in the past two decades, we owe our meteoric growth to our technical staff; our experienced management team; as well as our modern-day plant, machinery and infrastructure.

Today, we have an unparalleled record of export-quality products; in-time delivery, and customer satisfaction in the industry.



What Sets Us Apart?

Top Quality Material Input: Our Rotary Nickel Screens are 100% Nickel. We use premium 99.99% Vale Nickel Pellets, to give the right degree of hardness and ductility to our screens, resulting in longer printing life.

Use of Advanced Technology: We are outfitted with 3rd generation electroforming processes. This is the most technologically-advanced manufacturing technique used across the industry. Few other manufacturers can claim the same degree of precision or value in their screens, as we do to ensure we meet all quality parameters.

Superior Technological Know-how: Our search for perfection is never-ending. As a forward-looking, agile company, we are quick to adapt to the world's best practices in screen manufacturing by acquiring the latest technological upgrades from our highly-qualified and experienced European partners.

State-of-the-Art Infrastructure: Our manufacturing facility near Ahmedabad is outfitted with the machine and equipment of the highest quality used in screen manufacturing. As a process-driven company, our production activities are well planned out, controlled and monitored with the help of data analytics.

Technically Skilled Workforce: Technical training is a continuous activity at Screen-O-Tex India. Our training calendar is drawn-up in advance every year to cover every aspect of technical, sales and behavioral skills.

100% Quality Assurance: We promise to make 100% fault-free deliveries to our customers. Every step of our production process is computer-assisted, guided by automated systems with rigorous online and offline quality control measures in place. Our quality audits match with the best in the world.

Reliability: Thanks to a sizeable production facility, an extensive production planning and optimizing systems in place we are able to deliver even large-scale orders at lightning fast speed. Apart from that due to our capacity to hold large inventories, we can order completions and deliveries well in time.

Customer centric approach: We believe in investing time and resources in fully understanding our customer's needs, to be able to deliver products that enable them to have a hassle-free and high quality printing experience. Customer satisfaction is a top priority to us, to ensure that we go the extra mile in providing outstanding after sales service.







Quality In Our DNA

At Screen-O-Tex India, we give the utmost importance to quality. Our stringent quality control measures are designed to ensure, that we put out one of the best quality products in the market. We take great pride in our work; part of it is because of our commitment to quality.

Customer Benefits

- **Uniform prints, no end to end variation,**
- **Minimal dyestuff wastage**
- **Even registration of color / ink across the fabric**
- **Less machine downtime / Higher machine output**
- **Longer life of screens = savings in screens and designing**
- **Less denting of custom-designed screens in handling**





How Do We Do It?

Best Material Use:
We use the highest quality inco pellets which are 99.99% pure nickel.

Multi-point Testing:
Every single screen goes through rigorous multiple check points for Open area, Repeat, Block holes, Thickness, Ductility and Uniformity.

Chemicals and controls:
Calibrated and Hi Tech composition.

Process Control:
Both online and offline

Tools and equipment:
Use of the latest range of high quality precision tools and equipment.

Pre-defined QA parameters:
Adherence to well-defined and controlled parameters



Why Does Quality Matter?

Screens must be uniformly thick and have uniform open area so that the designs are printed accurately. Hardness and ductility of the screen determines the printing quality, life and reusability of screens. Precise repeat gives precise overlay-free printing, and hassle free use of screens with greater durability.

Apart from the geometric design complexities of hexagonal cells within each screen, the main parameters, which define the quality of a screen, are open area, repeat, thickness, ductility and uniformity.

Open area

Variation in open area can create a number of problems for printers.

Our solution: We have top-of-the-line open area determining devices. These devices not only check the end of a screen but the entire length of the screen.

Repeat

Variation in repeat can practically make the screen unusable.

Our solution: We check the repeat of all screens with two different methods. We use Endring Test for screen ends and Inflatable Checking Stand for checking the repeat of a screen throughout its length.

Thickness

Uniform thickness determines the robustness of a screen. Without it, the print output gets compromised.

Our solution: Our well-controlled manufacturing process and expertise acquired through experience and R&D have effectively enabled us to eliminate any variations in thickness.





Ductility

We've learnt that ductility variations can often go undetected leading to screen tearing. It is therefore important of have ductility within the prescribed range.

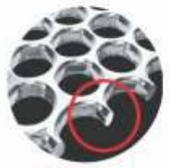
Our solution: We use equipment specifically designed to check ductility, called Ductility Range Tester.

Block holes

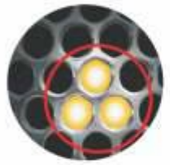
Blockholes are another vexing issue for printers.

Our solution: We use top-quality filtration systems installed across all production bays. As a result, we are able to manufacture screens with negligible number of block holes. In addition, each screen is manually inspected before shipping.

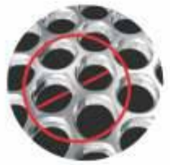
Our consistent adherence to these quality parameters and the use of top-grade nickel screens play a vital role in the manufacture of rotary nickel screens of the highest quality, thus enabling our customers to output highest quality prints with a great degree of efficiency and economy.



Uniform
Thickness



Uniform
Open Area



Uniform
Hole Diameter



Uniform
Repeat

Multiple Stripping | **Higher Ductility** | **Longer Printing**







Our product portfolio falls in four major MESH categories.

ALTUS Screens®

These are the standard and popular choice among printers. With uniform open area, uniform thickness and uniform repeats, the output is precision, accuracy and exactness.

Available Mesh Count (Open Area %)

25 (27%)	**60** (14%)	**80** (13%)
40 (23%)	**70** (13%)	**100** (11%)

Altus Screens Win-Win Features

- Longer print lengths
- Uniform print results
- Even repeats
- More stripping and reuse as screens are ductile
- Ease in end ring fitting
- Cost-effective and reliable offering

Recommended Applications

Altus Screens are popularly used for coarse substrates, Blotches, Outlines, Half Tones, Deeper Penetration, Gold and Bronze

Specifications

Mesh	40	60	70	80	80ED	100
Open Area %	23	14	13	13	11	11
Thickness µm	118	100	100	85	95	98
Hole Diameter µm	320	161	131	111	101	74
Holes per inch²	1600	3600	4900	6400	6400	10000
Paste Volume (ml / meter²)	28	15	13	10	9	9.4

As per industry standards parameters may vary upto ± 2%



NOVUS Screens®

These screens are suitable for printing jobs that require higher degree of precision and sharpness. Novus screens offer a special combination of high mesh count, wider holes and minimum spacing between holes, with a conical styling. With larger open areas, these screens enable maximum paste transfer to substrate, enhancing productivity. The outcome? Faster, sharper and finer prints.

Available Mesh Count (Open Area %)

85 (17%)	**110** (16%)	**125v** (15%)
105 (15%)	**125** (15%)	**155** (13%)

Novus Screens Win-Win Features

- Superior Quality Fine Lines & Half-tone effects
- High Open Area
- Better Penetration
- Higher Printing Speed
- Save on Printing Paste
- Lower Production costs
- Sharp results even in high viscosity
- Lower Squeeze pressure
- Highly Durable
- Cost-Effective & Reliable

Recommended Applications

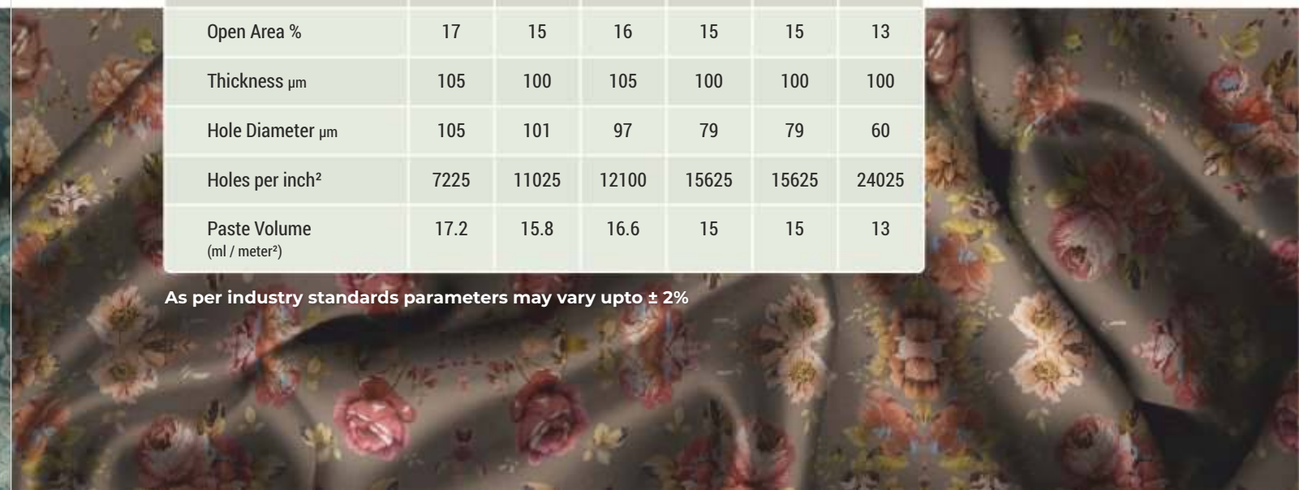
Novus screens can be used for all kind of Substrates, Finer Outlines, Tonal effects, and Better Penetration, Geometric and Unique designs.

Beautiful patterns and color combinations are achievable with relative ease with Novus screens. The most popular is 125 Mesh that gives the most precise results.

Specifications

Mesh	85	105	110	125	125v	155
Open Area %	17	15	16	15	15	13
Thickness µm	105	100	105	100	100	100
Hole Diameter µm	105	101	97	79	79	60
Holes per inch²	7225	11025	12100	15625	15625	24025
Paste Volume (ml / meter²)	17.2	15.8	16.6	15	15	13

As per industry standards parameters may vary upto ± 2%





VEGA Screens®

This is our flagship product, VEGA Screens®, based on 3rd generation technology that has set a whole new benchmark for fine print industry. VEGA Screens® are specifically designed to cater to detailed printing requirements. **The unique combination of high mesh count along with higher thickness and higher open area** successfully addresses the problems faced by end users.

VEGA Screens® consists of three different mesh counts. All mesh counts have two variants, a Standard range and XT range. Standard Vega Screens are 135, 165 and 195. We also offer 135XT, 165XT and 195XT.

The XT range has different parameters, for your special printing needs it offers a number of variations so that you can get a product best suited for your needs.

Available Mesh Count (Open Area %)

135 (24%)	**165** (21%)	**195** (18%)
135 XT (22%)	**165 XT** (19%)	**195 XT** (16%)

Vega Screens® Win-Win Features

- Greater Printing Freedom
- Faster Runs
- Less Down Time
- Smooth sailing production process
- Minimize wastage of print paste
- Possible To Print With Higher Viscosity Paste For Sharpest Results
- Improved Durability
- Cost-Effective & Reliable

Recommended Applications

135XT: Highest Open Area, Largest Holes: These are optimal for Blotches, White Pigments, Gold Prints, Thick Substrates.

165XT: Popular 3GScreen: Most suitable for combination designs (Halftones, Blotches, Geometrical Designs and Fine Lines.

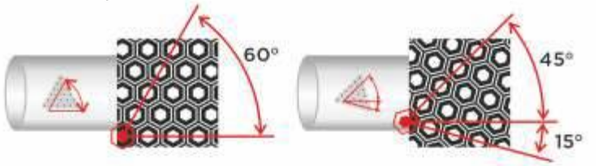
195XT: Highest Mesh Count, Relative Large Holes: Recommended for very fine lines, geometrical designs and tonal effects.



What Makes VEGA Screens® Special?

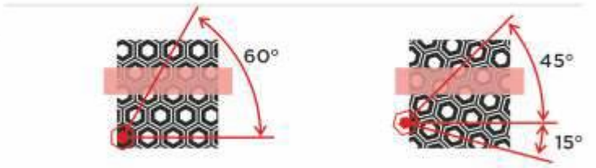
This is our flagship product, VEGA Screens®, based on 3rd generation technology that has set a whole new benchmark for fine print industry. We developed this technology in response to the intensifying demand for more sophisticated and fine prints from textile printers – both in the domestic and international market. VEGA Screens® are specifically designed to cater to detailed printing requirements. The unique combination of high mesh count along with higher thickness and higher open area successfully addresses the problems faced by end users.

Geometry of the screen cells



All Screens up to 40 to 155 Mesh

All 135, 165, 195 Mesh Screens



All Screens from 40 to 155 Mesh

All 125V, 135, 165, 195 Mesh Screens

Specifications

	135 Mesh	135 XT	165 Mesh	165 XT	195 Mesh	195 XT
Thickness in µm	± 105 T	± 120 T	± 100 T	± 115 T	± 100 T	± 100 T
Hole diameter in µm	92	88	71	67	55	52
Open area in %	24	22	21	19	18	16
Theoretical finest line in mm	0.31	0.31	0.21	0.21	0.15	0.15
Number of holes per cm²	3267	3267	4869	4869	6833	6833
Theoretical paste volume in ml/m²	25,2	26,4	21	21,9	18	18,4

As per industry standards parameters may vary upto ± 2%



TECH Screens®

These screens come with higher thickness and higher open area and various hole diameters, making them extremely suitable for a wide variety of textile and non-textile applications.

Tech screens are customized to match the exact customer requirements to yield high quality, maximum efficiency prints.

The higher mesh count of Tech Screens, with larger hole sizes, allow extremely fine and detailed printing and diverse application possible with minimal production disruption, faster printing and longer product lifespan. These are recommended for divergent design types ranging from Half-Tones to Fine Lines. The range even features a newly-developed screen for water-based inks.

Tech screens are very often used for special printing applications, such as for **carpet, blankets, wall coverings, 3D embossing, glitters etc.** These are always custom-designed as per printers' individual specifications.

To resolve the various challenges that printers face, we keep innovating our product line and have now come up with CS screens. These screens solve Center to Salvage (CS) problems.

Tech Screens® Win-Win Features

- Greater printing freedom
- Minimum blockages
- Uniform printing
- Large open area
- Prevention of backside printing on fabric
- Multiple stripping
- Higher lifespan
- Higher durability
- Higher stability after curing
- High production efficiency
- Cost-effectiveness & reliability


3D Emboss


Glitter


Carpet and Wall Coverings


Blankets

Specifications

TP Series

Types Repeat (cm)	Mesh Hole / inch	Thickness (µm)	Open Area (%)	Hole Diameter (µm)	Wet Paste volume (cm3/m2)
64	40	120	50	550	60
64	40	150	38	450	57
64	70	120	35	250	42
64	80	150	25	160	38
64	100	150	20	115	30
64	125	150	20	94	30

Large open area and relatively large number of holes make the TP Screens. Particularly suitable for applying decorative, patterned pest coatings.

TR Series

Types Repeat (cm)	Mesh Hole / inch	Thickness (µm)	Open Area (%)	Hole Diameter (µm)	Wet Paste volume (cm3/m2)
64	40	125	20	300	25
64	60	125	14.5	165	18
64	70	125	12.5	130	16
64	125	120	12.5	70	15
64	125	115	23	97	26

Patterned coatings in closed layers. Lighter Coatings - artificial Leather, backlit material, wall covering and flooring.

TH Series

Types Repeat (cm)	Mesh Hole / inch	Thickness (µm)	Open Area (%)	Hole Diameter (µm)	Wet Paste volume (cm3/m2)
64	40	200	22	300	44
64	40	200	40	400	80
64	80	200	25	160	50
91.4	60	150	43	278	65
91.4	60	200	11	145	22
91.4	60	300	10	135	30
91.4	80	150	25	160	38
91.4	80	200	25	160	50

Suitable for medium - heavy applications.
Other specifications can be made available on specific request.

Our Packaging

Even our packaging follows international-quality guidelines with special provisions for withstanding harsh weather conditions, rough handling and arduous logistics.







Our Wide Range of Products

REPEATS	LENGTHS		MESH		
Repeat (mm)	**Screen** (mm)	**Printing** (mm)	**Altus** screen	**Novus** screen	**Vega** screen
640	1410	1280	40	105	135
819	1750	1620			
	1980	1850	60	110	135 XT
914	2080	1850			
1018	2380	2250	70	125	165
1208	2530	2400	80	125v	165 XT
	2650	2400			
1500	2950	2800	85	155	195
1600	3050	2800			
1680	3500	3200	100	--	195 XT
	3700	3400			

Custom made Repeats, Length and Mesh **available**



Manufacturing Facility at Moraiya



BEST NICKEL
ADVANCED TECHNOLOGY
LATEST INSTRUMENTS
METICULOUS TESTING
UNIFORM QUALITY
LONGER SCREEN LIFE
COST EFFECTIVE
GLOBAL PRESENCE
WIDE RANGE

www.screenotexindia.com

Customer
at the core,
Always.

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