

product solution

Dynamesh Industrial & Electronic Screens

NBC Meshtec Americas utilizes top quality materials, strict quality controls, and the latest technology to create imaged screens that enable high quality production in a wide range of industries.

State-of-the-art Facility and Process

Our screens are produced in a cleanroom designed to exceed Class 10,000 (ISO 7) standards and outfitted with high end precision screen making and quality control equipment. Our process is the result of years of experience and a dedication to continual improvement. These factors ensure accuracy and repeatability.

Advanced Quality Control

Our process incorporates quality control throughout. Industry-leading QC equipment such as automated dimensional inspection and visual inspection machines, and precise thickness gauges accurate to within 0.5 μm provide you with the confidence of consistency.

Quality Materials

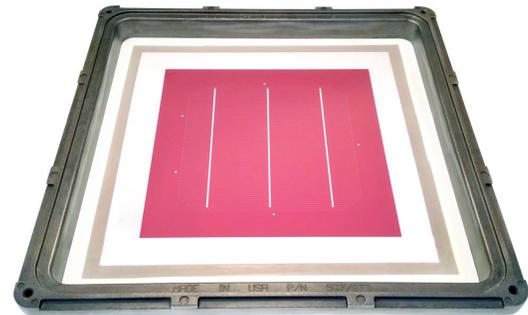
The quality of your product is only as good as the quality of the components that go into it. Since a precision screen is crucial for a precision print, we are focused on utilizing only the highest quality materials in our imaged screens.

PRODUCT OPTIONS

V-Screen Next Mesh

V-Screen Next is a high performance mesh woven with next generation thermotropic liquid crystal polymer monofilament thread. Its unique properties gives it several advantages over standard stainless steel mesh.

- **Superior Tensile Strength:** V-Screen boasts tensile strength superior to standard stainless steel mesh, leading to increased dimensional accuracy and minimal tension loss and distortion.
- **Superfine Threads:** Available at diameters as fine as 20 μm , V-Screen's superfine threads create larger mesh openings, reducing mesh interference and improving ink transition.
- **Superb Light Transparency:** With higher light transparency and lower light reflection than stainless steel mesh, V-Screen allows easier setup of exposure time for ultrafine screen resolutions.



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Stainless Steel Mesh

The mainstay of high-end screen production, we utilize metallic mesh in a variety of specifications, each with specific features and abilities that perfectly adapt it to your application.

- **Upgraded stainless steel mesh** is woven with wire 30% stronger than standard stainless, allowing for higher screen tension, which significantly improves dimensional accuracy and service life.
- **Super stainless steel mesh** features 3x the tensile strength of standard stainless, thinner threads, and 30% more open area, minimizing mesh interference, and making it ideal for use with high viscosity paste.
- **Tungsten mesh** represents the future of wire meshes, boasting greater physical stability and print repeatability than any stainless steel wire mesh.

Emulsion

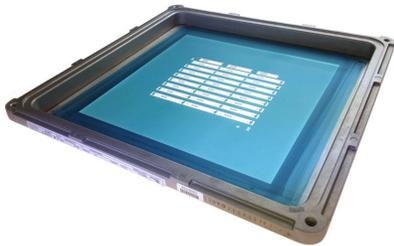
We use fine-line emulsions engineered specifically to address the demands of the printed electronics and other high end industries. These top quality emulsions and capillary films deliver on-press stability and durability and a very fine resolution, enabling razor sharp edges and a precise ink deposit.

Contact your sales representative for information on ordering custom imaged industrial and electronic screens

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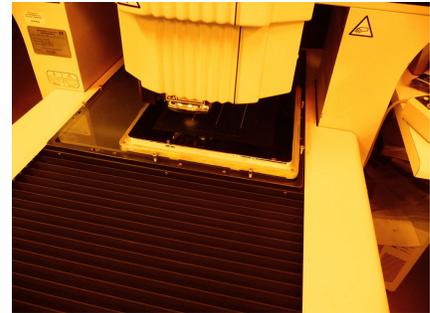
PRODUCT IMAGES



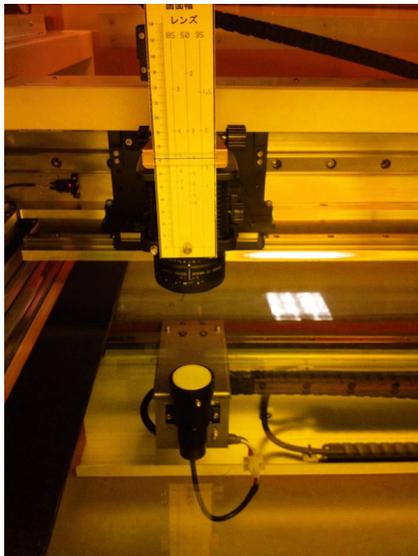
Imaged Medical Screen



Cleanroom Exceeding Class 10,000 (ISO 7) Standards



Quality Control Equipment



Quality Control Equipment

REQUEST A QUOTE

Please submit the following form, and a representative will contact you about a quote as soon as possible.

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CONTACT INFORMATION

Name (Optional)

Company (Optional)

Location

- Canada
- Mexico
- The United States
- Outside North America

Email

Phone (Optional)

JOB INFORMATION (OPTIONAL)

Application Type

- Medical Sensors
- Membrane Switch
- Printed Circuits
- Solar
- Touch Panels
- Other

Ink Type

- Water-Based
- Solvent-Based
- Water + Solvent Combination
- UV
- Plastisol
- Other

Screen Quantity

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FRAME SIZE (OPTIONAL)

Inner Dimension Outer Dimension

Length (inches)

Width (inches)

MESH SPECIFICATIONS (OPTIONAL)

Mesh Type

- Nylon
- Polyester
- Stainless Steel
- V-Screen Hybrid Super Fiber
- Unsure

Mesh Count (per inch)

Thread Diameter (µm)

Bias (offset angle between mesh weft and frame)

Custom Bias (degrees)

- 0°
- 22.5°
- 30°
- 45°
- 90°
- Custom

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SCREEN SPECIFICATIONS (OPTIONAL)

Tension (Newtons)

Emulsion Thickness / EOM (μm)

Special Instructions

OTHER INFORMATION (OPTIONAL)

Additional Instructions / Comments