



**DIRECT-TO-MESH
RS1**

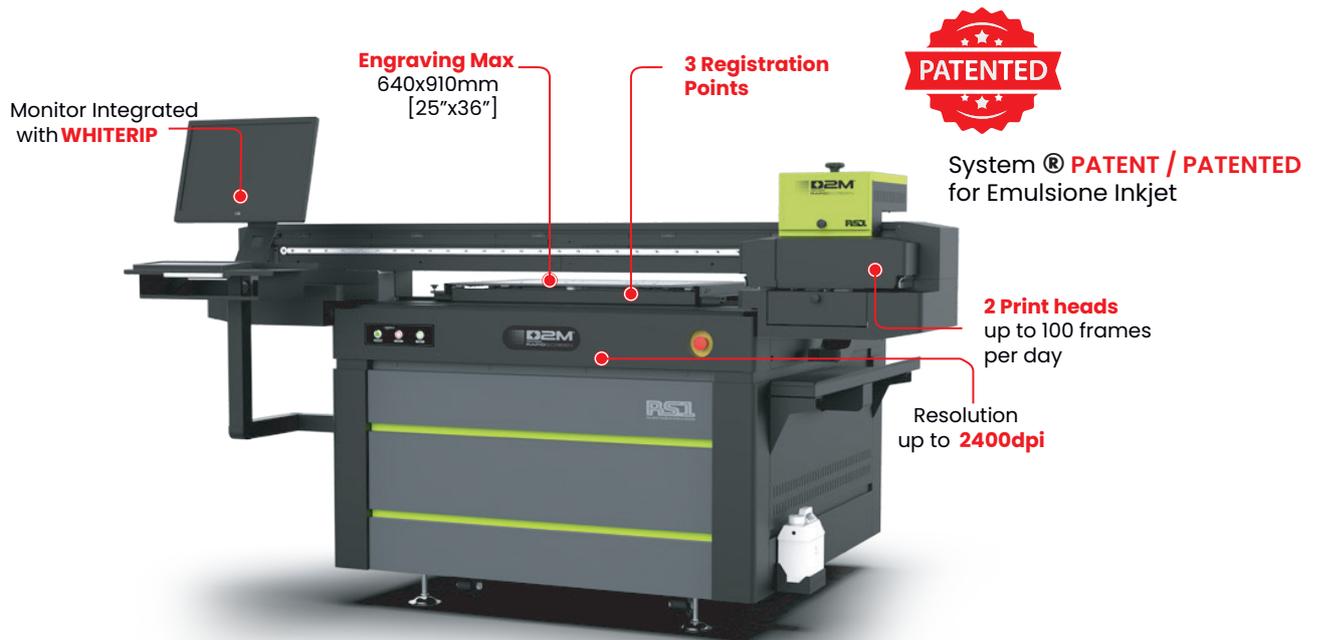
No Film, No washout,
No drying, No emulsion

The **D2M Rapid Screen**[®] is an entirely NEW screen imaging process that was designed to eliminate virtually all of the steps in the screen making process. The **D2M Rapid Screen**[®] eliminates any darkroom requirements, film positives, CTS equipment, emulsion coating including the waste of water and time in drying. All of the common steps in screen preparation are bypassed with the **D2M Rapid Screen**[®] with a unique Injectable emulsion that images direct to the screen - In fact the **D2M Rapid Screen**[®] can sit next to your carousel on the production floor and any operator can now make screens in three easy steps right at the press!

Special Features:

- Eliminate all dark room processes
- Eliminate all consumable costs
- Improve quality and speed-up “time to press”
- No emulsion, No washout, No drying, No film
- Up to 2400dpi resolution





Direct-To-Mesh steps:

1. Artwork is generated as a negative. Typically EPS, TIFF or Jpeg formats.
2. Place a screen onto the D2M Rapid Screen® printer and a unique injectable emulsion is applied as a negative over the entire screen which in turn reduces the need for masking in most cases. Most full size screens are imaged in under 3 minutes.
3. The screen can then go direct to the press and start production... It's that simple

**NO darkroom • NO emulsion coating • NO washout
NO drying • NO films • NO CTS equipment • NO exposure**

Designed to work with all common screen mesh sizes and all brands of water based, reactive and plastisol inks. With resolutions of up to 2400dpi – The D2M Rapid Screen® is pixel sharp and tough yet flexible. It will withstand up to 4,000+ impressions before edges start to lose any definition. All common frame sizes up to 640mm x 910mm (25" x 36") are supported. Screens are held in place at 3 registration points for imaging accuracy across multiple screens including popular brands like M&R, ROQ and MHM screens.

The Process

The D2M Rapid Screen® uses an Injectable liquid emulsion technology to produce the negative direct to the stencil/mesh. D2M Rapid Screen® replaces emulsion coating and therefore the need for film positives or CTS equipment. This direct injectable emulsion is UV cured and jetted through the mesh with a proprietary encapsulation science so that both sides of the screen mesh are hardened simultaneously – this in turn creates a fully imaged screen ready for the press without the need for any of the steps normally required with traditional screen preparation. Images or negatives have pixel sharp edges and definition up to 2400dpi. More detail is retained than with a film exposure, which can suffer from poor density and light

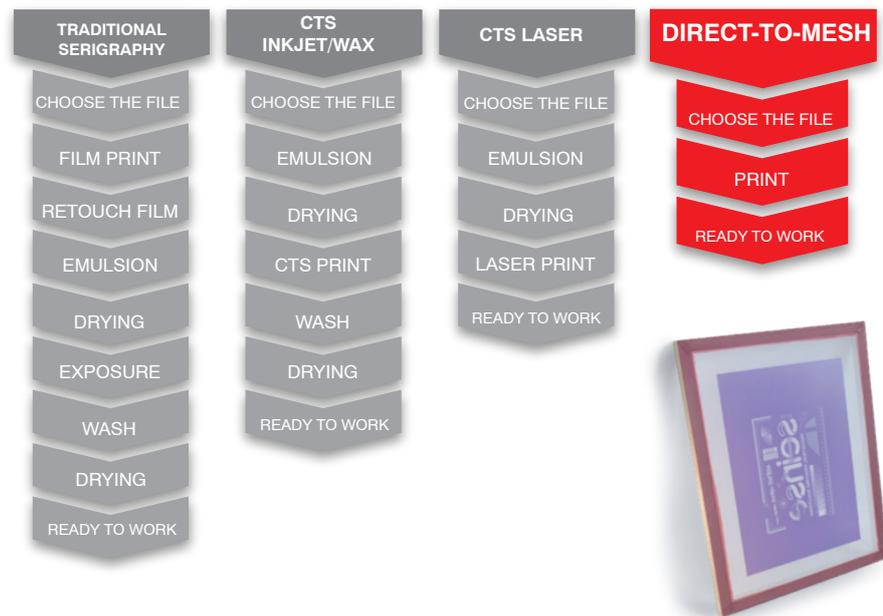
undercutting through poor light exposure.

The D2M Rapid Screen® Alpha print controller and monitor are conveniently located on the printer. The D2M Rapid Screen® makes it easy to preview and output jobs, as well as build templates for precise image placement.

Create the right files thanks to the extremely fast and reliable WhiteRIP software

that allows the user to fully control the shape, angle, and frequency of halftone dots.

The color separations are rasterized by the RIP and sent to the Icaro V3 control manager and are displayed as individual files that can be easily previewed, saved, and reprinted at any stage. These files can be saved to the PC at the end of the job, eliminating the need to store films or screens. If there are no changes to the job, the operator doesn't need to worry about setting up the entire job again. The digital file is all that is needed to reproduce the exact same frame.



Post Wash/Clean

The D2M Rapid Screen® requires no chemicals for post wash out in most cases. Just high-pressure water reducing the need for chemicals in the wash out. Depending on ink brand and type, a common de-haze process maybe required.

MANUAL OR AUTOMATIC PRINTING

The Direct-To-Mesh print frame is designed to work equally well on manual or automatic carousels. All spatula pressures commonly used in typical production, up to 85psi, with the rounded version. The blades do not break the edges of the emulsion. No operator requalification is necessary. Simply use the standard settings.



D2M is the only CTS system capable of creating frames up to 800 microns thick. Optimize your frame production in a flash, making short runs not only possible, but incredibly affordable and featuring high-durability gelatin on the frame that withstands over +8,000 prints.



D2M does not require **CHEMICALS** for development and pre/post-print washing.

D2M revolutionizes screen printing production in a sustainable way through the use of a **SINGLE ENGRAVING SYSTEM** and the non-use of chemical substances makes this system eco-friendly and eco-sustainable

Printing Technology	Double piezoelectric head on-demand
Resolutions	Min: 720dpi Max: 2400dpi
Max. Printable Area	Width: 635mm Length: 860mm
Max. Material Thickness	50mm
Table Capacity	100KG
Inks	DPI UV LED
Interface	USB
Power Supply	AC 240V 50/60Hz