



RSI® Narrow Web print module

Extend your press to create striking effects and offer extra functionality

The Stork Prints' Narrow Web print module is the perfect complement to your combination (UV) press. By printing higher deposits and larger particles, Stork Prints' versatile Rotary Screen Integration (RSI®) technology enables you to deliver special effects and offer extra functionality that cannot be achieved by any other printing process. Rapid, reliable and economical production of the 'non-label look', metallic colours, strong opaques, tactile warning symbols, special varnishes, scratch off inks and other effects are all possible with Stork Prints' market-leading RSI® rotary screen technology.

Technical data

	10"	16"	20"	24"
Size (in mm)	10"	16"	20"	24"
Width approx.	903	1055	1157	1258
Depth (minimal available)	610	610	610	610
Height approx.	760	760	760	760
Maximum printing width	10"	16"	20"	24"
Maximum web width	10.25"	16.25"	20.25"	24.25"
Minimum repeat size	12"	12"	16"	16"
Maximum repeat size	24"-25,25"	24"-25,25"	24"-25,25"	24"-25,25"
Weight approx.	166 kg	184 kg	196 kg	217 kg

Repeat size steps and gearing
End ring type
Electrical specifications
Required air pressure
Mechanical speed
Lateral adjustments
Substrate thickness

1/8" (1/6" optional at ordering RSI) increments
RSI
3x400 VAC 50/60 Hz, + N, earth
0,6 to 0,8 Mpa (87 to 116 PSI)
up to 150 m/min (490 feet/min) web speed
within a range of +/- 5 mm
up to 0,9 mm

Applications

- Raised ink deposits (6-260 µm)
- Opaque colours and extreme coverage metallic finishes
- Fine lines, sharp letters
- Large solid areas
- UV varnish and primers
- Tactile images, warning symbols, braille
- 3D effects
- Security features
- Glow in the dark

Ink types

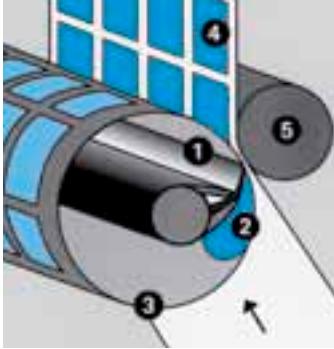
- Standard colours
- Fluorescent colours
- Metallic colours (hot-foil imitations)
- Magnetic inks (UV)
- Relief inks
- Varnish
- Scratch-off
- Adhesives
- (ir)reversible thermosensitive inks

Substrates

- Polyethylene
- Polypropylene
- Polyester
- Polystyrene
- Polycarbonate
- Paper and carton
- PVC
- Non-woven
- Uneven surfaces
- Absorbent substrates
- ... and more

Benefits

- Best screen print results
- Long screen life
- Flexible integration
- High productivity
- Full interactivity possible with servo driven printing press
- Intuitive control design



Rotary screen technology

The RSI Narrow Web print module is a self-contained high-speed rotary screen printing unit for machine widths ranging from 10"-24". The improved print module incorporates an intelligent control for problem-free line synchronisation.

The picture depicts the essentials of RSI printing technology. A squeegee (1) presses ink (2) through the holes in the RotaMesh® screen (3) onto the substrate (4), which is positioned by a counter pressure roller (5).

Economical operation

RSI® is based on patented RotaMesh® screen technology. RotaMesh® is a 100% nickel, non-woven material. Its unique hexagonal structure creates outstanding stability. Individual screens can be run up to 500.000 web metres (1.64 million feet) – ideal for long runs and repeat orders. The unique and durable RotaMesh® screens can be reengraved up to 15 times, allowing you to save on your screen costs - especially for short runs.

Maximum integration flexibility

The RSI® modules can be seamlessly integrated into the architecture, software and mechanics of the latest-generation printing presses. The RSI® can be upgraded in such a way that some important function like register control can be controlled through the main panel of the press. This provides simultaneous, centralized monitoring of all rotary screen positions, alongside other printing and converting operations. Stork Prints' OEM partnerships with major narrow web press suppliers ensure the supply of pre-integrated systems, or retrofits of RSI® to previously installed lines. Direct integration is equally possible, by custom-modification of new or existing machines supplied by non-partner companies. Depending on your press, the RSI® modules may be fitted in a fixed position or on a cassette frame. For optimal versatility, they can be mounted on Stork Prints' Flexible Positioning System (FPS). This patented rail track allows you to move the module to any point along the line, creating a mobile print station that can be located wherever it is needed.

Intuitive design

The RSI® module has a button free touch-panel, with an enlarged interface. It allows straightforward menu navigation, for fast and fool-proof access to the desired command.

Features for productivity

Using RSI® will certainly not limit your production capacity. The rotary screen units are capable of operating at web speeds in excess of 150 m/min (490 feet/min). A well thought design and improved software ensures that exchanging screens and squeegees is accomplished in minutes – so downtime between jobs is minimal. An incorporated automatic level control regulates the ink delivery pump – maintaining a constant level inside the screen and thereby ensuring optimal consistency in the printed result. The optional automatic register control maintains print accuracy throughout a run.

Application versatility

RotaMesh® screens are available with various mesh counts and open areas, to provide top quality results for a broad spectrum of applications.