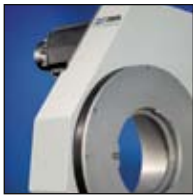


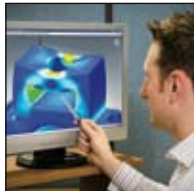


**EMERSON
& RENWICK**

THE ART OF ENGINEERING



Wallcovering Machinery



Screen & Gravure Printing Line





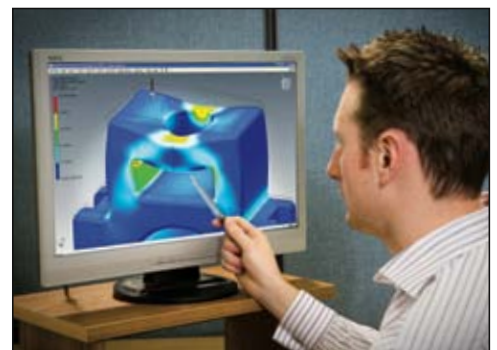
Emerson & Renwick is an independent company, founded in 1918 in Lancashire, the traditional home of the British wallcovering industry.

Over the years Emerson & Renwick have played a vital role in the design and development of wallpaper manufacturing machinery enjoying a close relationship with leading manufacturers in the UK and across the world.

The company demonstrates an in-depth understanding of clients' needs in an ever changing market. Continuing research and development programmes ensure that Emerson & Renwick machines are designed and built to incorporate state-of-the-art features.

A comprehensive range of wallcovering production machines

- Gravure printing presses.
- Rotary screen printing presses.
- Combination presses for screen and gravure printing.
- Combination presses for embossing and flexo-gravure printing.
- In register hot embossing machines for PVC based materials.
- Web widths to suit requirements up to 1680mm.
- High speed in register Duplex & Flexo printing machines.
- In line coating machines for applying plastisols, pre-pastes, ground coats and washable lacquers using several methods of application. (Screen, Reverse & knife over roll)
- Complete plants for wallcovering manufacturing.
- **Turnkey development:-**
Offering a complete turnkey solution
Which includes:-
Factory layout, service's, material flow, product handling Installation, commissioning and Operator training & Material Supplier introductions.



Company Capability

Emerson & Renwick have a history of developing new products to suit the needs of the wallcovering industry. Here are just a few of our latest developments.

- **Infinity Printing:-** Allowing the designer to think outside the screen circumference.
- **Screen Head Design:-** Our infinity screen head offers high accuracy and flexibility through direct servo drive, screen heads rings can be changed in minutes, keeping down time to a minimum.
- **Variable Width Embossing:-** Our latest embosser is capable of handling variable web and roller widths from 500mm to 1200mm
- **Wash Coating & Tipping:-** Incorporating wash coating and tipping stations to allow these normally off line processes to be included in main line production.

Emerson & Renwick offer the complete range of products and technical know how for the wallcovering manufacture.

Company Code

Our 5C's

CARE for the Company and our colleagues.

CREATE a quality product, right first time and on time.

CONSIDER customer service and to give total customer satisfaction.

COMPLETELY understand our products. Only with full understanding can improvements take place.

CREATE wealth, a clean, safe and pleasant working environment for our Company and our Customers.

Screen Circumference - no longer the limitation

Screen/gravure press



The requirements of rotary screen printing in the production of both blown vinyl and flat print effects dictated that Emerson & Renwick develop a revolutionary screen press where each print station is driven by an independent electronic drive control. Abandoning the constraints of the mechanical line shaft opened up many new facilities for register control, off-line register and on press design change-over using dual print heads.

Chamber-fed gravure heads can be fitted on every station, also flexo if required.



Quick Screen Change



It's up to the Designers

Opening the mind, thinking outside the box. Designers are limited to screen circumference. All of which is now removed by the Emerson & Renwick Infinity printing press.

The design opposite could be produced on the patented Infinity printing press from Emerson & Renwick printed in water based inks at 80 metres per min on vinyl coated non woven substrate.



The MK4 Infinity Screen Head

Emerson & Renwick Patented 'Infinity Repeat' printing

- Random or Variable repeat printing.
- Digital register control.
- Dynamic performance.
- Direct driven – High Accuracy.
- AC servo technology & reliability.
- Offering complete flexibility in product design.
- No design restraints.
- Anything is now practical & cost effective to print.



In register hot embossing



Embossing in-register with a separately printed design was one of the most difficult problems of wallcovering manufacture. Detailed studies of substrate elasticity were combined with a unique application of advanced motor control technology to give a machine which now produces outstanding new in-register emboss effects on vinyl. Non stop design change is available.

Over 150 of these machines have now been sold worldwide. Making Emerson & Renwick the market leader in this process

The latest variable width embosser allows for any roller to be fitted, giving total flexibility to the end user. The unique electronic controller allows for simple operation with the introduction of a stand alone industrial PC giving the machine operator a simple easy to follow set up and run procedure. Our back mark registration system also allows for embossing of normally difficult pale colours to be simply achieved. The software can also be retrofitted to existing machinery if required.



Gravure printing

Advantage Rotary Gravure/Screen Press

An outstanding advance in gravure/screen printing.

Impressive built in flexibility, together with unique Emerson & Renwick user friendly controls, sets new standards in wallcovering production. The new Advantage rotary gravure/screen press offers gravure and screen capability, quick colour and design change and fast, efficient hot air or infra red drying. Together with short web length in print this highly competitive press offers an all round efficiency and quality for niche markets including wallcoverings and other short run applications.



Advantage to Infinity

The ultimate machine for the wallcovering manufacturer, our combination of the Advantage Gravure press and the Infinity screen head gives the user the best solution available world wide for dedicated wallcovering production. The combination gives high speed gravure printing with the complete flexibility that comes as standard with the Infinity screen head. Here are a few of the features the machine offers.



Gravure Printing

- Classical gravure configuration.
- Gravure cylinder removal and replacement in minutes, drive releases with the touch of a button.
- Combined ink and wash tray for quick colour change.
- Automatic in press washing of the print cylinders.
- Latest line shaft electronic software.
- Back Mark registration.
- High speed printing 220 meters per min.
- Total reliability with EPN links for remote fault finding and correction.

Screen Printing

- Skip printing for large repeat.
- Random repeat.
- Quick change over screen sizes from 537 to 1018 in 5 minutes.
- Completely electronic drives no gears or cross shafts.
- Head flexibility allows for screen end ring misalignment.
- Intelligent tension control throughout the machine.

This is the ultimate machine for the discerning manufacturer.

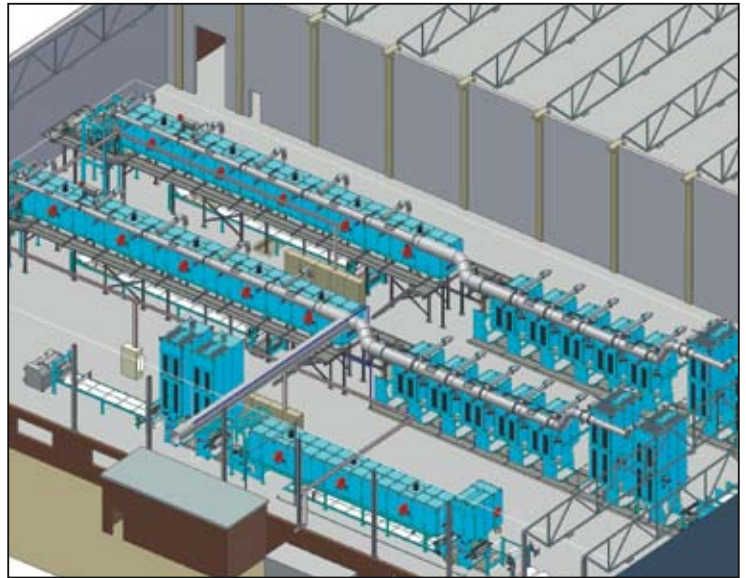
The complete solution

From Greenfield site - Industrialisation - Saleable product

This encompasses:-

The Production Operating Unit

- Factory layouts:- Service supply specifications, Including Gas / Thermal Oil, Electricity, Fume Treatment, Cooling Water, Compressed air.
- Services:- Sizing routes and materials.
- Assistance in specifications of Ancillary equipment Chillers, Compressors, stand by generation.
- Material handling.
- Finished product packaging and storage.
- Additional equipment necessary mixing, testing, laboratory.
- Machinery supply.



Raw Materials

Introduction to potential suppliers of:-

- Paper.
- Ink.
- PVC Bases.
- Designers.
- Engravers.

Resulting in Price Matrix planning.

Training

- Engineers, in England, by E&R engineers.
- Operators, by E&R technicians.
- Design understanding.
- Material Specification.
- Usage and cost analysis.

Support

E&R will have a representative based on your site to assist with on-going support and communication.

Picking "the right partner" is the most important decision your business will make. The above assistance comes free of charge with a machinery supply agreement. Since the package is tailored to each individual customer, additional assistance in any area may be given if required. Please do not hesitate to ask.



THE ART OF ENGINEERING



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