

VCM Coater



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For many years RK has been designing and building Versatile Coating Machines (VCM) for R&D, Pilot and Production applications used across many different types of industries. The VCM is optimised to the specific requirements of each process and can utilise higher specification drives, tension and web control equipment. The heavier framework also enables wider and heavier substrates to be processed while still allowing considerable flexibility to expand or modify the machine as developments or applications change.

VCM APPLICATIONS

- Printable Electronics
- Security – Holograms
- Latent Imaging
- Medical Diagnostics
- Medical Dressings
- Fuel Cell and Batteries
- LCD Displays
- Aerospace Composites
- Polymeric Semiconductors
- Solar Reflective Films



RK PrintCoat Instruments Ltd.,
Litlington, Royston, Herts SG8 0QZ United Kingdom
Tel: **+44 (0) 1763 852187**
E-mail: **sales@rkprint.com**

VCML Lab/Pilot Coater



The VCML is designed to print, coat and laminate all types of flexible webs such as papers, films, and metallic foils on a reel-to-reel basis. With the ability to apply various coatings such as inks, paints, varnishes, adhesives both solvent and water based, by various application methods, this makes the VCML particularly useful for product development, quality control and small scale production for low volume of a specialised product.

MAIN FEATURES

- Touch screen control system with graphical set-up and operating instructions.
- Servo drive with a speed range of 1–50 m/min.
- Electronic loadcell tension control.
- Rigid aluminium framework.
- Integrated electrical and pneumatic controls.
- Levelling castors
- Plug & Play



REPEATABLE
SAMPLES



RESEARCH +
DEVELOPMENT



QUALITY
CONTROL



PILOT
PRODUCTION

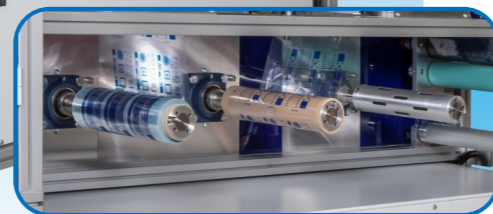
VCML Lab/Pilot Coater



Integrated heating and extract system



Pneumatically operated ovens



Cantilevered unwind & rewind with 76mm pneumatic core chucks



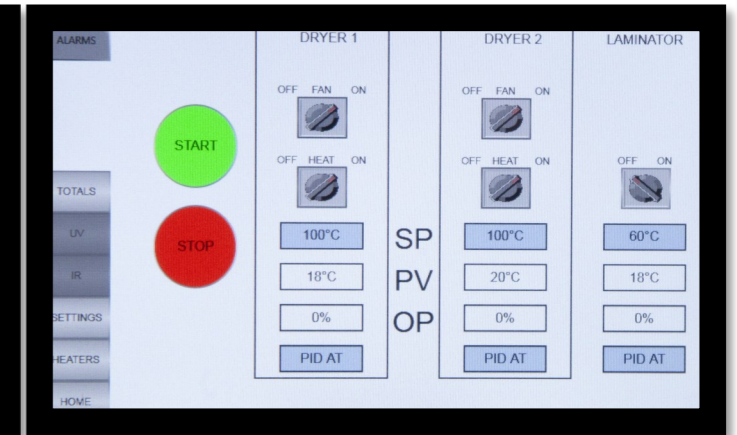
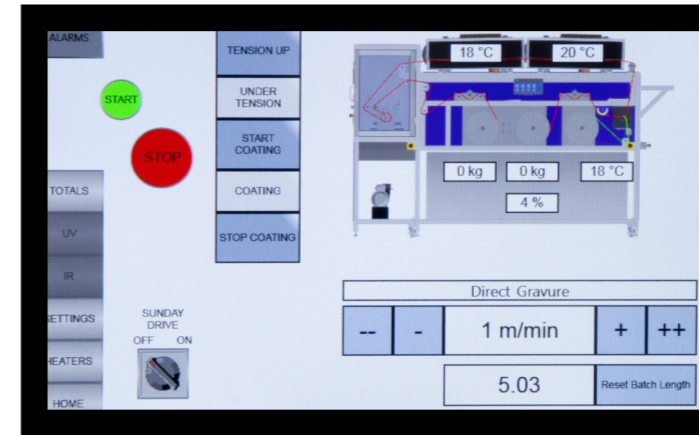
Coating Station in optional ATEX Zone

VCML SPECIFICATIONS

- Web width up to 300mm
- Rigid aluminium framework 2.5m (L) x 1m (W) x 1.8m (H)
- Head mounting station with tray lift and trough.
- Laminator station with adjustable pneumatic nip.
- Servo drive with a speed range of 1—50 m/min.

VCML Lab/Pilot Coater

Touch screen control system



VCML PROCESSES

- Meter Bar
- Gravure
- Direct Gravure
- Reverse Gravure
- Offset Gravure
- Differential Offset Gravure
- Flexo
- Knife Over Roll
- Slot Die
- Rotary Screen
- Air Knife

VCML OPTIONS

- Hot air drying
- Heated laminator
- UV Curing
- Infra red
- Corona treatment
- Edge guide
- ATEX coating zone
- Registration
- Pneumatic core chucks

VCML APPLICATIONS

- Flexible Printable Electronics
- Security—Holograms
- Latent imaging
- Medical Diagnostics
- Medical Dressings
- Fuel Cell and Batteries
- LCD Displays
- Aerospace Composites
- Polymeric semiconductors
- Solar reflective films
- Barrier coatings
- Flexible packaging

VCML REFERENCE LIST

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> • Aitex, Spain • Alinvest • Appvion • Avery Dennison • BEFC • Brady Corporation • Cosmo Films • Covestro Resins Holland • Cytec • CT-IPC • Dainici • DELSCI • DIC • Dow Silicones • FP Innovations • Fujiseal • Futamura | <ul style="list-style-type: none"> • Gascogne Emballage • HB Fuller • Henkel x2 • Honeywell, USA • Innovia • ITASA • Interface Polymers • Johnson Matthey • KGS • Maruto • Matsuo Sangyo Co Ltd • Medherant • Melodea • Neenah • Novacell • RENGO • Rotoflex | <ul style="list-style-type: none"> • SATO • SCG Chemicals x 2 • Shin Etsu Inc x2 • Sichuan University • Sigmund Lindner GmbH • Solvay • Solvin • Temptime • The Pack Corp • Tokiwa • TokyoCello Label • Toppan • Vellerino • Welsh Centre for Printing • Zeon Corporation Takaota Plant • RAIZ • Further machines installed—names withheld. |
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