

FLEXO PLATE MOUNTING MACHINES

■ Corrugated Postprint



Next generation mounting machines
for mounting flexographic printing plates
onto mylars

SAMM POSTPRINT

SEMI AUTOMATIC MOUNTING MACHINE POSTPRINT

- The automatic mounting machine for the corrugated postprint industry
- Highest accuracy of measurements and positioning (0,005 mm / 0,0002")
- Eliminates mounting related press downtime
- Operator interaction time is minimized
- Extremely accurate mounting
- Extremely fast
- Optimal workflow




■ DESCRIPTION

The SAMM Postprint for the corrugated industry belongs to the top range of AV Flexologic mounting machines for mounting flexographic printing plates onto mylars. This flexo mounting machine has been developed for our customers who demand the highest standards in mounting speed, repeatability, consistency and accuracy in the corrugated or postprint market.

When mounting, the operator can choose an existing job or create a job. The operator pre-positions the flexo plate roughly on the mounting table. Upon recognition of the mounting marks through the high tech cameras, the plate is automatically positioned. The pressure roller presses the plate pneumatically onto the mylar. The operator uses the foot pedal to rotate the cylinder and mount the plate airtight. A proofing cylinder with digital adjustment for a perfect proof is available for the SAMM Postprint. In this case, after mounting the plate cylinder is automatically brought to the correct position for pulling a proof. The SAMM Postprint software automatically calculates any distortion based on the information provided in the job (mylar thickness, etc.). Distortion is then digitally compensated. This one mounting drum is thus suitable for all presses.

■ FEATURES


Robotic positioning enables accurate position down to microns
Automatic quality check ensure correct mounting
The mounting cylinder is standard provided with a locking strip for the so-called Matthews or Bobst system, however other systems can be realized as well
Patented Digital Calibration of the Camera Beam to achieve highest accuracy
Pressure roller ensures mounting with equal pressure and without air inclusion
Windows based, easy to use mounting software providing compatibility with all current-day file and server systems
Compatible with ESKO Patchplanner software (optional) and Hybrid Patchplanner software
A fixed one-size-fits all mounting cylinder. A computer controlled electronic motor directly drives the cylinder (gearless)

Quality report

Plate No: 1	Left X	Left Y	Right X	Right Y
Plate Name	Plate 1	Plate 1	Plate 1	Plate 1
Size	200 x 100	200 x 100	200 x 100	200 x 100
Top Mark	Actual: 200.017	-0.007	199.983	-0.007
Bottom Mark	Actual: 200.017	-0.007	199.983	-0.007
Left Mark	Actual: 100.000	0.000	100.000	0.000
Right Mark	Actual: 100.000	0.000	100.000	0.000
Top Mark Image				

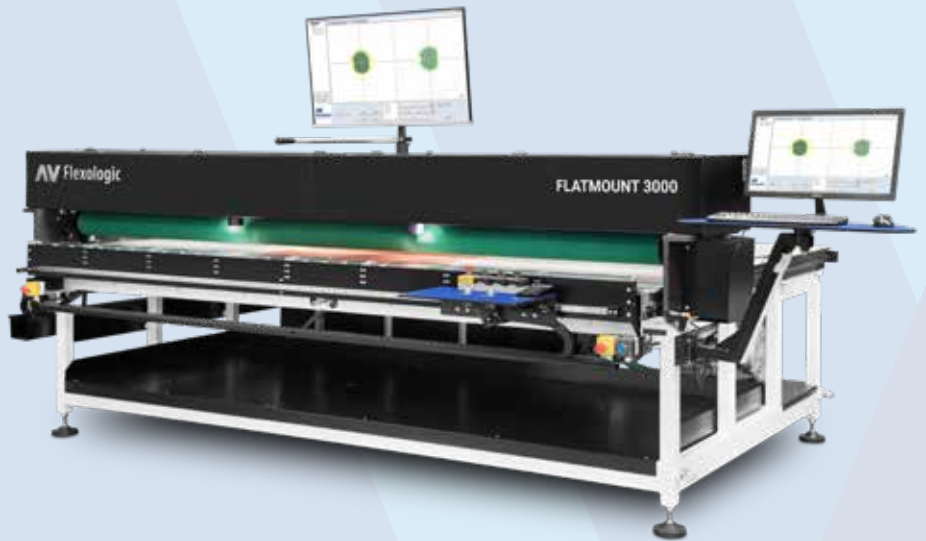
Third camera and display for printing proof inspection and for aligned placement plot paper



FLATMOUNT

FLAT MOUNTING MACHINE

- A flatbed mounting machine for the corrugated postprint industry
- Easy to use machine that mounts photopolymer printing plates directly onto a mylar
- Highly customizable with various options



■ DESCRIPTION

The Flatmount is equipped with a computer that controls the motorized positioning of the cameras, both the x- and y-direction. The locations of the mounting marks are entered into the computer upon which the Flatmount automatically finds the correct position to ensure the best mounting accuracy.

The images of the cameras overlay system are displayed on the screen and the operator can set the frame of reference in any position he prefers. The operator places the plate using the laser pointers. Snapshots of the mounting position can be taken and displayed on the monitor to enable the operator to mount image on image. An important feature is that the successfully mounted plate locations are saved into the computer. These records can be recalled any time for future reference or as a double-check option. The mounting table has various special applications to simplify the mounting even more. The machine is made of a sturdy steel frame with tresspa top and a so-called Matthews/Bobst locking system.

■ FEATURES



The Overlay System enabling easy color to color registration

HD Ethernet Motorized Cameras with zoom up to 170x enable highest quality register mark image

Motorized Cameras operated directly from the computer interface

Patented Digital Calibration of the Camera Beam to achieve highest accuracy

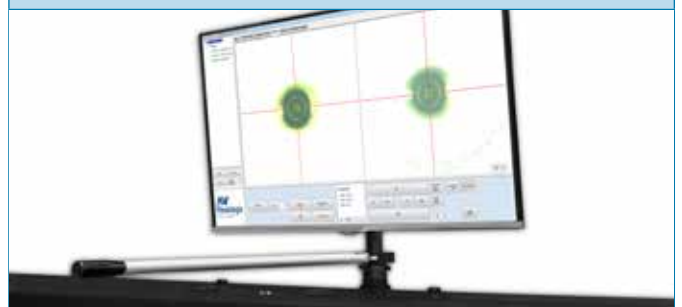
Laser pointers for quick positioning

Quality control (optional)

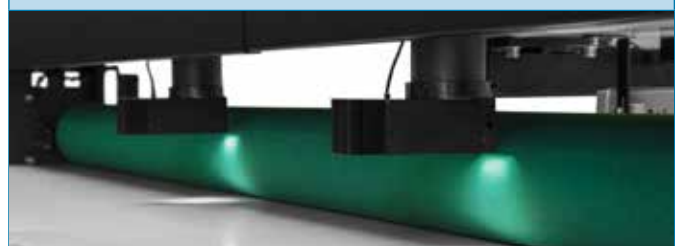
Compatible with ESKO PlatePatcher and Hybrid Patchplanner software (optional)

Clamping system and vacuum table to fixate the mylar perfectly to the table (optional)

Patented Image Recognition (optional)



Pressure Roller to eliminate any air bubbles (optional)



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OPTIMOUNT

IN THE ROUND MOUNTING MACHINE

- The ultimate workhorse of Corrugated postprint
- A reliable machine with the newest features
- Easy to operate
- Accurate mounting and proofing



■ DESCRIPTION

Over the years this mounting and proofing machine for flexo printing plates on mylars has been highly valued by many customers from all over the world. The Optimount is equipped with a computer that controls the motorized positioning of the cameras as well as the gearless rotation of the mounting and proofing cylinder. Each mounting position can be reached in seconds. The exact position is stored and can be recalled at any time.

The sturdy frame construction with heavy duty cylinder brackets and a temperature treated and grinded camera beam with double linear guiding ensures the best calibration and excellent results throughout the years. The automatic positioning of both cameras and cylinders simplifies the mounting job, which improves and accelerates results considerably.

This flexographic mounter is also equipped with a mirror which enables the user to mount without markings. The cameras view is split by the semi reflecting mirror and shows the combination of the image of the proof on the proofing cylinder and the position of the printing plates on the dummy cylinder.

■ FEATURES



HD Ethernet Cameras to enable the highest quality register mark image

Motorized Cameras operated directly from the computer interface

Automatic proofing with an added proofing cylinder which automatically positions for pulling a proof

Full-length Semi-Reflecting Mirror

Patented Digital Calibration of the Camera Beam to achieve highest accuracy

Overlay System enabling easy color to color registration

Optional Pressure Roller for airtight security of the plate (optional)

Drawing pen for instant plotting (optional)



DIGITAL WORKFLOW

The Corrugated Postprint machines are compatible with ESKO PlatePatcher and Hybrid Patchplanner software.



The machine can import the output file that contains the positions of the mounting marks. These marks are picked up by the mounting machine so the HD cameras move to the correct positions. Manual data input at the mounting machine is thereby eliminated. This saves time and prevents mistakes.

NETWORK CAPABILITIES

- Connections with ERP settings for job entry
- Barcode scanners to pull the job information
- Remote support through internet
- Accuracy data reporting to ERP systems

CORRUGATED POSTPRINT SUPPORTING EQUIPMENT

- MYLAR CUTTING TABLE
- PHOTOPOLYMER CUTTING TABLE



These cutting tables are designed for the corrugated industry where often Mylar sheets and thick photopolymer plates should be cut. The tables have a rotary cutting knife that enables exact cutting through thick and thin materials. The photopolymer cutting table can cut under different angles.

SPECIFICATIONS

	OPTIMOUNT 3000 / 3500	FLATMOUNT 3000 / 3500	SAMM POSTPRINT 3000 / 3500
Max Width Mylar and Plate	3000 mm / 3500 mm	3000 mm / 3500 mm	3000 mm / 3500 mm
Max Repeat Mylar and Plate	1850 mm	1700 mm	1850 mm

FEATURES & OPTIONS

	OPTIMOUNT	FLATMOUNT	SAMM POSTPRINT
HD Ethernet Camera's	✓	✓	✓
Windows 10 mounting software	✓	✓	✓
Overlay	✓	✓	✓
Digital Zooming capability		✓	✓
HD Monitor	✓	✓	✓
Laser pointers	✓	✓	✓
Motorised Camera	✓	✓	✓
Digital Calibration System	✓	✓	✓
Pressure roller	●	●	✓
Image Recognition Software		●	✓
Quality report		●	✓
Automatic Quality Check		●	✓
Vacuum Table		●	✓
DOAL Lights		●	✓
Robotic positioning			✓
Mechanical locking System for mylar sheets		●	
ESKO plate patcher compatibility	●	●	●
Hybrid Patchplanner software	●	●	●
Digital mirror for proof cylinder check	✓		●
Proofing Drum	✓		●
Vertical Movement of Cylinder			✓

✓ Included ● Optional



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■ AV FLEXOLOGIC - WE INNOVATE!

AV Flexologic BV's mission is to deliver highly innovative solutions in the Flexographic industry in between the graphics and press departments. We strive to save cost, and increase efficiency and quality for our customers.

We achieve this by digitalizing traditional workflows and continuously improving on existing equipment with advanced technology and inventing new equipment.

■ OTHER EQUIPMENT OF AV FLEXOLOGIC

■ PLATE MAKING EQUIPMENT



■ NARROW WEB MOUNTING MACHINES



■ CORRUGATED PREPRINT MOUNTING MACHINES



■ WIDE WEB MOUNTING MACHINES



■ SLEEVE STORAGE SYSTEM



■ TECH SLEEVES SLEEVES AND BRIDGES

