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COHESIO TECHNOLOGY
Produce your own pressure sensitive material
The Cohesio multifunctional in-line coating and printing equipment provides the capacity to:

1) Manufacture your own PS labels
   In this case, the printing process can be done on any printing press: flexo, offset, gravure, digital, letterpress, screen, etc... without the speed limitations found in flexible packaging printing processes.

2) Manufacture your own rolls of PS material
   In this case, an unsupported facestock (pre-printed or not) passes through the Cohesio to get transformed into self-adhesive label stock, die-cut and finished.

In all cases, the Cohesio allows for more flexibility (e.g. printing under the adhesive) which reduces the printing waste and generates considerable savings in the label production process.

Create new products which cannot be duplicated by competitors
- Print the facestock (top, back or both sides) before making the label
- Laminate multi-webs in register to create unique coupons with a multicolor printing on any facestock
- Print on one or both sides of the liner before applying the silicone
- Print under the adhesive and on the back side of the facestock to avoid extra lamination costs

Process efficiency and waste reduction with the Cohesio
The Cohesio process is more efficient and productive than traditional label printing. The production is done at lower costs than with the competitors. In fact, all the waste generated by the printing operation is made on unsupported and inexpensive material. If the printing quality is good enough, the material can be coated, laminated and die-cut into finished labels to increase its value.

General process of the Cohesio
The facestock and the liner are placed on individual unwinding systems.

The liner, made of film or paper, is coated with silicone and adhesive before joining the facestock (pre-printed or not) in the lamination process.

Any paper, film, foil or board can constitute the facestock. Pressure sensitive material made in the first pass is used, instead of traditional facestock or liner, to create a piggy-back which can be printed on one or both sides. The possibilities are endless!

Savings resulting from the Cohesio process:
- Printing before coating
- Avoid over lamination
- Possibilities of pattern coating

30% to 70% SAVINGS AT PROCESS IMPROVEMENT
MINILINER™

The Miniliner™ technology using film or paper-based substrates is a valuable option that could be added to the existing Cohesio technology. Designed to reduce substantially the release liner waste, the Miniliner™ technology concept is unique and simple.

PS labels are manufactured from raw material to the finished product, down to a totally recyclable 12 micron (.48 mil) PET release liner or 30 gsm (20 lbs) paper release liner.

PELLICUT

The Pellicut is a heavy duty module for precise die-cutting including W type anti-deflecting system and die equalizer system.

FEATURES

- Substantial savings — down to a 12 micron (.48mil) clear PET or paper 30 gsm (20 lbs) release liner
- Environmentally friendly — recyclable liner
- Mark free die-cutting
- Adaptable to existing Cohesio technology and/or other existing presses
- Designed for high speed application
- Less waste
- More labels / roll — less roll change
- Use conventional labeling equipment
- Could be a stand-alone equipment
- Great finishing line for long, medium and short run
- Use a conventional magnetic die cylinder
- Use a standard room temperature die
- Diameter expansion control system

LINERLESS SOLUTIONS

ETI developed several years ago a linerless technology that no longer uses release liners as a carrier. In fact, there is no release liner during our printing process. For years, linerless technology was strictly used for hand applied applications. Until ETI’s latest technology in terms of labeling application, printers were limited to square or rectangular shapes with attach points.

Today, this is no longer the case, with ETI’s in-line die-cutting labeling systems that can be easily retrofitted to any existing labeling equipment, you now have the capability to print linerless label rolls with different shapes.

FEATURES

- Substantial savings — no more liner
- Designed for high speed automatic application
- Environmentally friendly
- Adaptable to existing Cohesio technology
- Easy to install
- Less waste
- Front and back printing
- More labels / roll — less roll change
- No micro-perforation
- No attach point on label shape
- No compromise on label shape on existing labels
Standard Hotmelt coating unit

The ETI adhesive station is designed to coat on any type of film including clear material for no label look applications. It is also suitable for any type of paper. The adhesive is heated and melted in the tank and pumped through hoses to the ETI coating head.

Pattern Hotmelt application unit

The patent pending ETI Hotmelt Pattern adhesive unit was designed for easy, accurate and clean edge adhesive application in pattern with a high running speed of 150 m/min (500 fpm) with high quality coating.

UV Curing System for UV curable pressure sensitive Hotmelt

The Cohesio can be designed with a coating and curing system for UV curable pressure sensitive hotmelt based on acrylic, a special type of adhesive which combines the easy handling properties of hotmelt with the clean removability of acrylic.

Emulsion Adhesive application unit

The ETI emulsion acrylic adhesive station is designed to coat on any type of film including clear material for no label look applications as well as for any type of paper. The adhesive is then cured in horizontal arch gas dryer. This unit can also be used to apply solvent-based adhesive as well as make pattern applications.

For any project that requires the integration of different modules (gluing devices, silicone module, etc.) or technologies, do not hesitate to contact our experienced team.
Savings and Process Improvement

Produce your own pressure sensitive material or labels with the Cohesio to increase your profit:

- Less material is used in the printing process
- The total cost of all the raw material is much lower than the cost of pressure sensitive material when purchased from major suppliers

Two-sided printing

The most economical way to manufacture value added labels is to print the facestock on the top and reverse side with any printing process before making the desired pressure sensitive label stock.

Reverse printing

The facestock can also be printed on its reverse side before converting it into pressure sensitive material. This way, you benefit from a higher dot quality and avoid the additional costs of overlamination as the printing is protected by the facestock.

Unique constructions

The Cohesio technology allows for the production of high quality pressure sensitive material and for the creation of new and original constructions. For instance, washable labels which will allow you to replace “difficult-to-remove” labels for the beverage market and access even more markets with wet-wipe repositionable labels.

Multi-ply label / coupon

Multi-ply labels represent an efficient and unique label construction produced at high speed on a full web width. It allows for multicolor printing on each side of the multi-ply labels (under the silicone and under the adhesive) before the lamination in register.

Partial silicone and adhesive application

Coupons can be created by converting a partial width of a liner or a facestock into pressure sensitive material.

Linerless labels

Pressure sensitive material without a liner can easily be produced on the Cohesio.
**Cohesio Technology Specifications**

The Cohesio converts any type of paper, board or film into self-adhesive material. It can be customized to answer your special needs as shown in the table below.

### Cohesio Specifications

<table>
<thead>
<tr>
<th>Model</th>
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<th>1500</th>
<th>2000</th>
<th>2500</th>
<th>3000</th>
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<tr>
<td>Max Web Width</td>
<td>13.25” or 335 mm</td>
<td>16.5” or 420 mm</td>
<td>20.5” or 520 mm</td>
<td>22.5” or 570 mm</td>
<td>26.5” or 670 mm</td>
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<tr>
<td>Max Coating Width</td>
<td>11” or 279 mm</td>
<td>13.25” or 335 mm</td>
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</tbody>
</table>

* Wider sizes available upon request

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**Equipment Installation and Training**

As soon as the equipment has been received, ETI’s technicians will go on location to install the equipment and train your personnel. Installation is free of charge.

After start-up, your employees will receive a one-week training program, free of charge.

**Special Know-how and Technology Training**

ETI will provide additional quality control and operations management training providing know-how on the use of the equipment, raw material purchases and logistics.

After such training, ETI will remain available at all times to provide assistance to the purchaser.

**Partnership and Services**

ETI helps its customers to maintain a competitive edge. Our partnership program helps in trend setting and makes sure to keep you ahead. Among other things, you will benefit from the following advantages:

- Lifetime technical support program
- Regular equipment maintenance
- Regular equipment upgrades with every innovation from our R & D Department
- Equipment optimization and new strategy development consulting

Please contact us for further information on these programs.

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**International Label Group**

When becoming an ETI customer, you can join ILG, a non-profit organization that brings together ETI technology users from all around the world. This network is used for the exchange of information on various subjects of common interest.

For more information please visit: [http://internationallabelgroup.org/](http://internationallabelgroup.org/)