

# The best of both worlds

in coating & converting equipment



Together we invite you to explore the new PROCOAT series: all-in-one solutions that produce label materials that perfectly address your growing requirements as a label manufacturer. Key features of the PROCOAT series:

- › high quality;
- › ease of operation;
- › a consistent and efficient production process with an increasing yield;
- › waste reduction.

# UNERLESS COATING UNE

Linerless Coating Line for the application of silicone and hotmelt coatings for the production of continuous rolls without backing but with a silicone layer on top of the material (Linerless Labels).



## HOTMELT COATING UNE

Hotmelt Coating Line for the application of a hotmelt adhesive coating layer on siliconized paper or foil (release liner) for the production of laminates, self-adhesive base materials.

## HYBRID LAMINATION COATING UNE

The Hybrid technology offers label producers numerous new possibilities. Different coating (adhesives & silicone application) and converting techniques can be used in a single line. The HYBRID technology also makes the Linerless market accessible to every label producer. As a result, the hybrid technology gives a massive competitive lead in the market.



Perforation Station

### ① Unwind Station

The unwind Station for the infeed of flexible materials on rolls, such as paper, films and foil substrates consists of an unwind position for either the standard of 40" rolls or the optional 50" rolls, a webguiding system with a splice table, and an outfeed nip roll for the web tension.

### ② Flexo Printing

The servo driven flexo print stations include an automatic registering system, auto throw off for the anilox rolls, a doctor blade chamber, ceramic anilox, a chill roller and chiller system and an ink recirculation pump to meet the most demanding printing standards. The module includes the possibility of combining both UV curing and water based ink hot air drying systems together to cover any customer need.

### ③ Perforation Station

The high stability perforation module is driven by a servo motor to register the printing with the perforation processes with the highest accuracy. Hydraulic gauges permit a fine pressure control to extend the cutting tool life. In the next step we will switch from standard converting to the world of Linerless.

# Configurations & components



### ④ Silicone Coating Station

The standard Corona Treater for pretreating the substrates so that the silicone can be effectively applied onto the substrate.

The Silicone Coating Station has been developed for the very accurate application of silicone coatings. By means of a high performance inert gas chamber in combination with a UV lamp, the coating layer is cured extremely quickly by UV radiation. The anilox roll in this 3 roller system, which is optional available as a 5 roller system, applies the silicone from the doctor blade chamber in exactly the right thickness onto the coating roller. The coating roller in the Silicone Coating Station is fitted with a sleeve which is quickly interchangeable. The sleeve makes it easy to vary coating widths and coating patterns.



### ⑤ Hot Melt Coating Station

The basis of the Hotmelt Coating Station is the Coating Head. Highly accurate application is guaranteed with three individually driven pumps, the glue is applied faster and more homogeneously over the whole width of the web. The coating weight remains constant, even with changing web speeds. The coating head is able to apply extremely thin coatings without die lines or thickness tolerances. The Coating Head is suitable for various types of nozzles. The quick change over of the nozzles ensures that patterns are easy to adjust and time efficient.



### ⑥ Drum Melter

The Drum Melter is ideally suited for processing hotmelt adhesives, thanks to the melt-on-demand capability built into the system. The heated melting plate melts and pumps only the top layer of the hotmelt adhesive. The remaining hotmelt remaining in the drum stays stable and cannot



### ⑦ Turret Rewinder

The turret rewind system provides nonstop production of printed/ finished product rolls of labels. The system includes automatic core loading and print and a apply roll closure system with automatic positioning for zero downtime when job changing. Fully automatic process combined with a servo driven tension control system, ensures a non-stop process guaranteeing the best roll quality available today.

### ⑧ Unwind Station for Offline Turret Rewinding

This module allows the line to operate as 2 independent systems yielding the highest productivity and operator flexibility: 1) roll to roll linerless production and 2) Roll to finished pressure sensitive label rolls through the glueless turret

### ⑨ Rewind station

This premium rewind station with continues process control is perfect for paper, film and foil rewound into jumbo production rolls.







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### HMI

Process monitoring is a key factor for a perfect product. The line includes different HMI screens to visualize in detail the perfect performance of all parameters. In combination with a user friendly graphic interface, ergonomic moveable screens will help the operator to keep all details under control.

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### Telemaintenance

Customers are our main focus! Which is why the PROCOAT series includes a telemaintenance system. This includes a webcam, internet connection for remote monitoring and voice assistance. Our technical support engineers will be there to assist you to minimize machine downtime.

## Procoat activities worldwide:



### MORE INFORMATION?

Check out the Procoat Series website at:

**[procoatseries.com](http://procoatseries.com)**



# PROCOAT

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