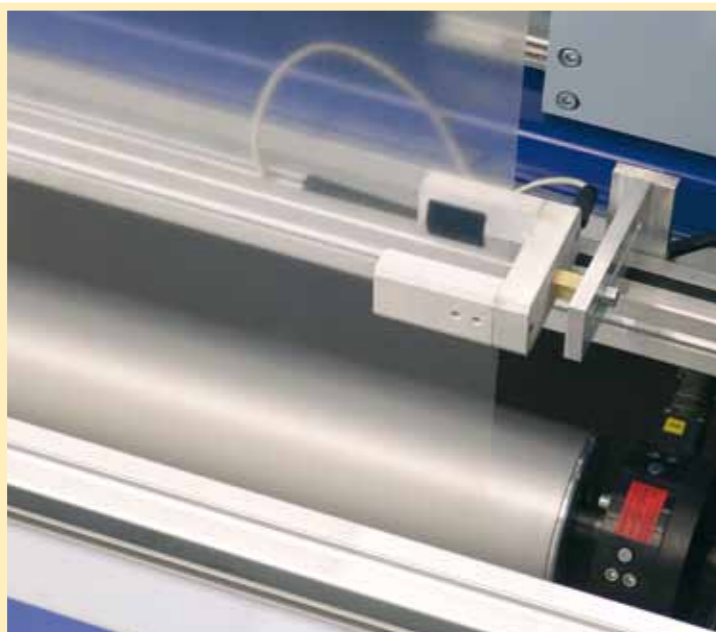


ICO SYSTEM
international coating GmbH

Coating and Laminating Plants

for Hot Melt and PUR

BS-Series



Web edge or centerline line control ensures an accurate guiding of substrate to the coating station and achieves a sharp edged rewinding.



Operation of the fully automatic plant control is managed via a Siemens touch panel with graphic visualization resulting in highest operation and production process safety. The process data are fed into the plant production network via an ethernet interface.



With a splicing station almost continuous production with minimal effort is possible.



An integrated sensor detects end of substrate and reduces the line speed.



Coating head with electro pneumatic control for continuous coating.
Optional: Adjustable coating width.



Optional: Corona pre-treatment and UV-curing

Technical data	BS-Series
Coating width in mm	1 - 2500
Width of rollers in mm	400 - 2600
Line speed m/min	0,2 - 200
Coating speed m/min	0,2 - 300
Type of coating	slot nozzle/roller coater
Coating materials	all kind of Hot Melts and PUR
Coating weight g/m ²	15 - 1000
Coating materials	film, paper, non woven, textile etc.
Laminating unit	included
Driving system	servo motors
Tension control	tension measuring roller
Connection Voltage	3x400V/AC
Cooling roller	optional
Web edge control	included
Air drying system	optional
Splicing station	included
Optional: Hot Melt supply with	tank unit, drum melter, extruder
Individual design and construction	possible

* depending on the design, type of Hot Melt and surface of substrate

Options and accessories

- material buffer, fully automatic turret winders, fully automatic splicing station for endless coating
- climate reaction chamber
- plasma coated rollers and cleaning rollers
- corona pre-treatment
- UV treatment

Precision Technology

ICO Systems coating and laminating plants fulfill the highest quality demands in a wide range of applications. The hot melt coating and laminating plants of the BS-series offer best results in the processing of hot melt adhesives and dispersions applied to different carrier materials such as paper, film, fabrics or nonwoven materials.

Utilizing an intelligent control system, the coating machines can be easily integrated into existing production processes. Custom-designed production line guarantees optimal interaction between carrier materials, hot melt and machine.



Original accessories and spare parts



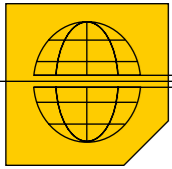
Drum Melter for 200 litre drums



Tank Units from 15-1000 kg melting volume



Extruder with 12-1000 kg melting volume



Application ranges

- the hot melt coating and laminating plants coat hot melt adhesives on various types carrier materials. The coating of substrates is form roll to roll.
- ranging from paper, film, fabrics, non-woven, felt
- Typical Hot melts processed are PSA, PUR, EVA, UV curable Acrylate, PE etc.
- ICO Systems services a wide range of industrial applications for automotive, paper & printing, textile, sanitary and wood and furniture

Operability

- easy to operate through touch screen panel
- multi-lingual program selection
- precise control using either web edge- or web centerline system
- diameter calculator
- operation of the complete production system via a central control unit
- communication via Ethernet, Profibus and CAN Bus

Flexibility through customization

- custom-designed plant construction guarantees optimal interaction between carrier materials, hot melt and machine
- modules and parts as replacements or upgrades for existing plants
- the slot nozzle system with the respective melting unit can process a range of different adhesives such as reactive hot melts (PUR) as well as pressure sensitive hot melts (PSA), UV curable adhesives EVA or PE
- construction of complete plants with all necessary auxiliary machines as well as erection, commissioning and training (turn key)
- coating of different substrates such as paper, film, foil, felt, non woven, fabric. Whether full area-, stripe-, or open pored (porous) coating
- coating weight from 10 up to 1000 g/m²
- fine-tuned web tension control synchronized with the carrier material
- stepless or segmented adjustment of coating width

Benefits

- Due to years of experience our plants are running most economical and with highest precision
- high dosing accuracy of adhesive supply by a precision gear pump system
- special application methods ensure that textures remain unchanged
- intelligent flushing function of the hot melt system when using PUR adhesives
- exact positioning of the coating nozzle to the coating roller, by means of a x-y-z adjustable carriage with micrometer setting
- production process safety through less frequent required maintenance
- construction according to VDE, CE and GOST regulation



- 1 Rewinder including web edge control and shaft for quick change
- 2 Unwinder
- 3 Operation of plant via touch screen monitor
- 4 Coating unit with slot nozzle adhesive application head
- 5 Laminating unit
- 6 Unwinder including web edge control

Performance characteristics of the BS-series

Coating width:	up to 2500 mm
Coating weight:	10 – 1000 g/m ²
Thickness of carrier material min.:	0,01 mm
Thickness of carrier material max.:	15 mm
Operation speed:	0,2 – 300 m/min

Other configurations and performance characteristics available on request.



BS1600
Hot melt coating and laminating plant for flexible materials

