

ECOSAFE BARRIER COATING MACHINE

**SUSTAINABLE
PACKAGING IS NOW
AVAILABLE FOR ALL**

*Convert cartons to an EcoSafe
Plastic alternative !*



**Eco2Sheet
Eco2Web
BARRIER COATING
MACHINES**

*State of art coating machines with multiple
options . Patented design and technology*

**SUSTAINABLE
WATER BASE COATINGS**

*FDA, BfR , CFR approved water base
coatings for plastic alternative.*



**LENNART
GROUP**



HUMANITY HAS PUSHED
EARTH BEYOND THE
BOUNDARIES THAT HAVE
KEPT THE PLANET STABLE
FOR 10,000 YEARS.

WE ARE CLOSE TO THE POINT
OF NO RETURN.

OUR MISSION IS TO CREATE
MACHINERY FOR A
SUSTAINABLE FUTURE.

OUR VISION IS SIMPLE.
CREATING A BETTER FUTURE
FOR THE NEXT
GENERATIONS.

MACHINE FEATURES

GENERAL

ECOSAFE BARRIER LINES

Eco2Sheet 20 : 52cm X 74cm

Eco2Sheet 30 : 77cm X 102 cm

Eco2Web 20 : 50 cm width .

Eco2Web 30 : 77 cm width .

Eco2Web 48 : 120cm width (development)



Eco2web

Roll to Roll system shown four coating modules

- Patented Hybrid coating system .
- Intense Drying system for high performance .
- Auto coating thickness control (PATENT PENDING)
- Coat On-Demand . Speeds up to 120 meters/minute .
- Fast change-over (Less than 3 minutes) for different coatings.
- Auto Cleaning System (PATENT PENDING)
- Industry 4.0 and IOtech4 network accessible recipes and database.
- Auto Coating Thickness Measurement System . (OPTION)
- Live Camera integrated
- Saves up to 500 different recipes inside system
- Integrated multi coating stations (PATENT PENDING)
- Less machine space required . Length depends on module

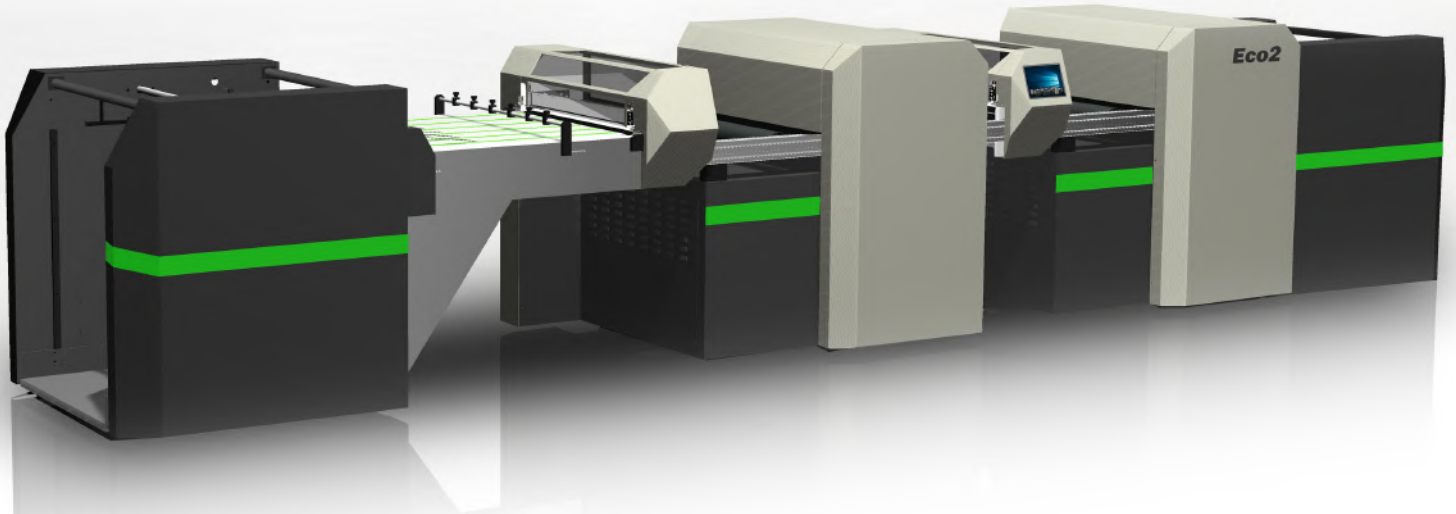


Eco2Sheet

ECOSAFE BARRIER LINES

Eco2Sheet 20 : 50cm X 102cm

Eco2Sheet 30 : 77cm X 102 cm



Eco2Sheet

- Paper weight from 130 gsm to 900 gsm . Option : 1200 gsm
- Up to 4+4 coating module
- Sheet Turner for double side coating
- Sheet- Jam detections system
- Coating application : Adjustable up to 12 gram /m2 wet (Each Module)
- Up to 5600 sheet/per hour (30" X 40") (77 cm X 105 cm)
- Minimum Sheet Size ; (10" X 10") (25 cm X 25 cm)
- Automatic High Speed Suction feeder .
- Automatic Pallet stacker

Eco2Web

ECOSAFE BARRIER LINES

Eco2Web 20 : 50 cm width .

Eco2Web 30 : 77 cm width .

Eco2Web 48 : 120cm width .



Eco2Web

- High Speed up to 120m/min
- Paper weight from 35 gsm to 600 gsm .
- 20" (520mm) & 30 " (770mm) widths available . 48" (1200mm) in development .
- Coating application : Adjustable up to 12 gram /m2 wet (Each Module)
- Adjustable coating thickness from PLC .
- Up to 4 + 4 coating module configurable .
- Jumbo roll Unwinder and Rewinder . (Option)
- Automatic tension control with web guide .
- Double side coating module . (Option) .

BENEFITS ON PACKAGING INDUSTRY

ECOSAFE BARRIER LINES HAVE
MULTIPLE BENEFITS ON CARTON
INDUSTRY.

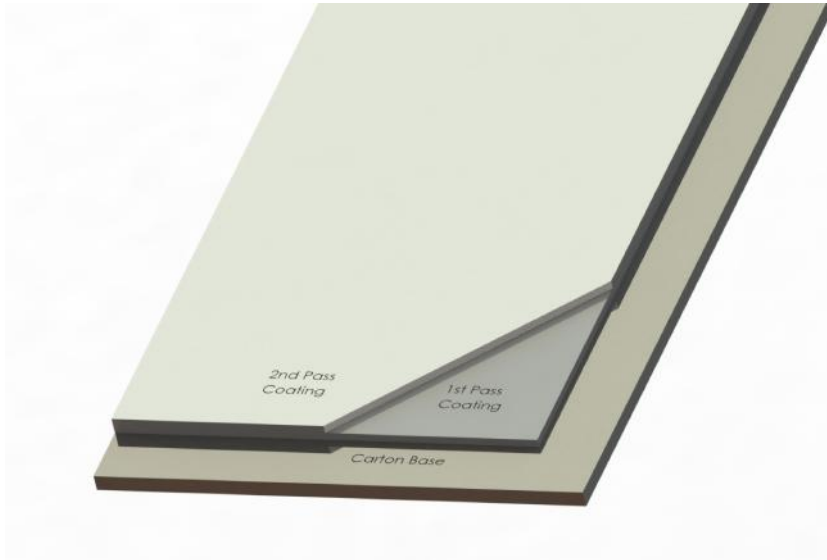


Eco2Web

Web system shown dual coating and drying heads

- Perfect barrier coating application (sustainable water-based)
- Creates value to paper .
- Fully recyclable
- Repulpable
- Ideal for low and high volume packaging industry.
- Coat on Demand .
- One operator needed for operation .
- Lower energy consumption .
- Eliminates Plastics / Synthetic / Thermal lamination Films .
- Competitive price compared to Plastic coatings .
- Coating on different type of papers and cartons .
- FDA - BfRXXXVI - EC NO:1935/2004 approved coatings for food and beverage packaging .

SUSTAINABLE COATINGS



ECOSAFE BARRIER LINES HAVE DIFFERENT COATING OPTIONS

MULTIPLE COATING HEADS 4+4

ALL COATINGS HAVE FOOD SAFETY / FDA/BFR CERTIFICATIONS .

MULTIPLE COATING HEAD - MULTIPLE FUNCTION TO PAPER

COATING TYPES ;

- WATER BARRIER
- OGR BARRIER / OIL BARRIER / MINERAL BARRIER
- HEAT SEAL / ULTRASONIC SEALABLE
- OXYGEN & MOISTURE BARRIER
- FROZEN FOOD & HOT FOOD & OVEN BARRIERS
- PRIME (PIGMENTED COATING)

MARKETS

PRODUCTS TO BE SUSTAINABLE WITH ECO2 MACHINES

Eco2 safe machines will create multiple markets in packaging industry.

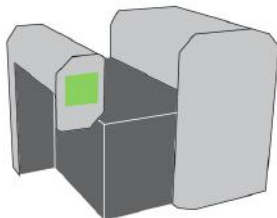
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- FAST FOOD / BAKERY / FROZEN & OTHER CARTON PACKAGING
 - SLEEVE LABELS
 - FLEXIBLE PACKAGING
 - LIDS
 - WRAPING
 - PAPER CUP / BOWL
 - POUCHES
 - MEDICAL PACKAGING
 - HYGINE PACKAGING
 - THERMAL FILM LAMINATION REPLACEMENT
- AND ETC ..

INDUSTRY 4.0

STATE OF ART INDUSTRY 4.0.

IOTech4

Interactive Digital platform



On the Coater

- Maximize efficiency
- Minimize operator error
- Track jobs by SKU or bar code
- Machine settings automatically imported



On a Mobile Device

- Get job alerts
- Monitor job progress



In the Office

- Receive maintenance alerts
- Check on employee performance
- Track/check billing for real-time estimate confirmation



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