

YOUR WORLD OF COATING



Coatema Converting Technologies

Coating Solutions
for Converting



www.coatema.de



Application of film/foils:
(Source incl. title: PolyIC)

In-depth knowledge of the industry

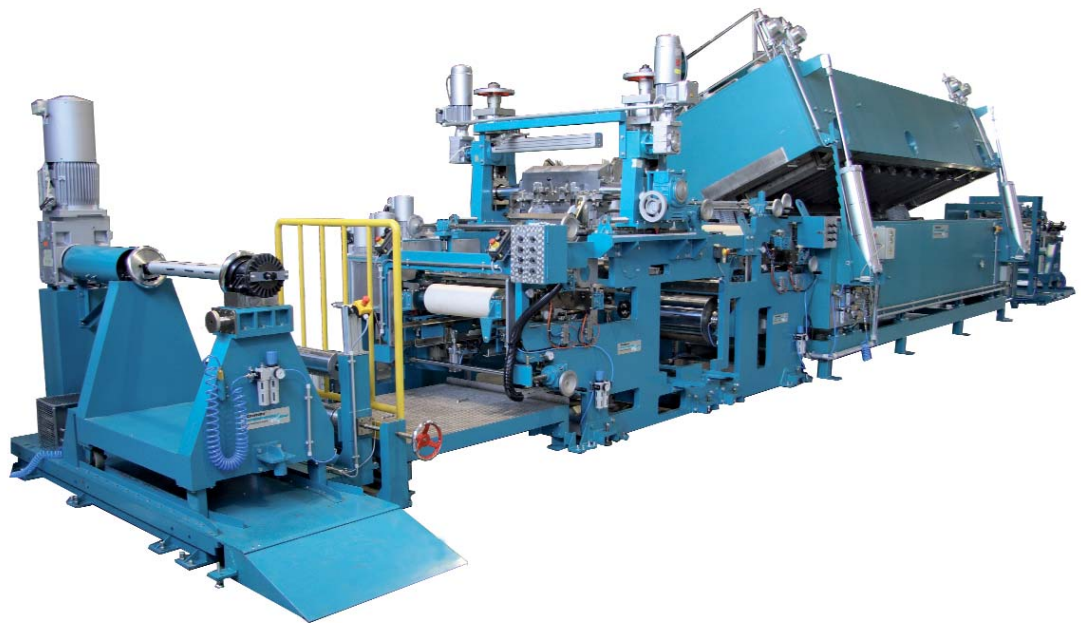
For 30 years now, Coatema Coating Machinery GmbH has been designing and constructing coating and laminating plants for the most different applications. Almost all substrates and chemicals can be processed on Coatema plants; either as sheets or from roll to roll.

Coatema offers the right fit of **coating, printing, and lamination technologies** in combination with different **curing and cross linking methods** for the **film and foil coating** market. In the traditional converting markets like, **label, adhesive tape, packaging and functional layers on films**, Coatema offers a variety of coating systems like 5 roller system, gravure roller system, slot die, comma bar, case knife coating, knife coatings or spraying systems and Inkjet.

The portfolio of drying technologies ranges from **jet air dryers, flotation dryer, infrared dryer** as well as **cross linking systems** like **UV**.

The core business production lines are available from 200 mm to 2.500 mm working width, with state-of-the-art in loop quality control systems. As one part of their operations, Coatema also supplies **film cleaning** or **surface modification units**.

The newest areas of operation are **printed electronics, filtration membranes and coating of films with functional layers** in a **thickness of 10-500 nm**. They are covered by the **Coatema R&D Centre**, where you can produce the materials or devices of the future on over **11 pilot coaters** and a **production line** on 2.000 mm.



Coating plant for film or foil coating



Application Systems: knife and roller coating system



Unwinder, application system, laminating unit

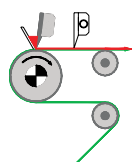


Slot Die application system

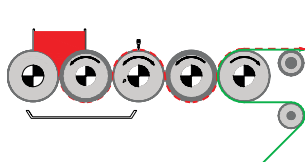


Hot air dryer

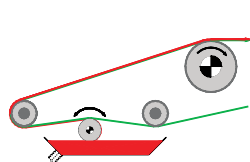
Typical modular application systems for converting industry



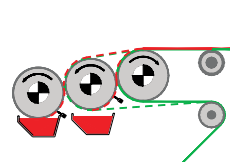
Knife System



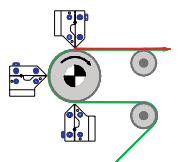
5 Roller System



Micro Roller System



3 Roller System



Slot Die System

The right plant in the scale-up process

Today the converting industry is adding more and **more function** to their products like **RFID** or **sensors**. The need in these and in traditional converting products is to be able to make **new developments close to market** and to be able to deliver functional samples to your customers to proof technology concepts.

From the Easycoater as a unit where you can slot die or knife coat your letter size samples on a heated vacuum plate to the Basecoater the smallest R2R unit up Coatema offers a **variety of small scale modular lab options**.

Bigger units for **semiproduction output** like the Linecoater or the new Click&Coat system increase the option to run bigger output fabrication to **test markets** before going to invest in production scale equipment.

On the **production line solutions** the key in development are here more **efficient dryer solutions** and in loop control systems.

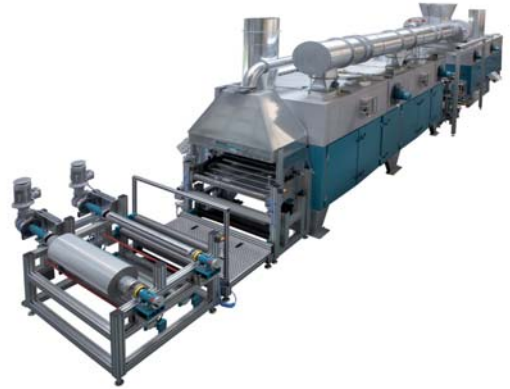
So from **small scale to production scale** of operation **Coatema is the partner** for the **converting industry** of today.



Lab-



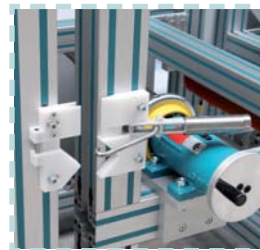
Pilot-



Production Plants

Click&Coat - Concept

Coatema has developed the innovative Click&Coat concept for pilot plants to be able to react faster and in a more cost-saving way to the most different requirements. Click&Coat permits the flexibility of the individual coating heads but also of the entire plant: The individual plant components are movable and can be brought into the right position by a simple "click" and be connected to the recently developed control system. This is a unique way to combine different processes in modular design.



Click&Coat: the individual plant components can be brought into the right position by a simple "click"



Unwinder and pre-conditioning



Substrate cleaning



Slot Die System



Hot air dryer



Coatema
Coating Machinery GmbH

Coatema Coating Center

The company owned coating center is one of the world's best equipped with more than 1.200 m² of floor space. It offers 10 pilot plants and 1 production plant with working widths from 250 mm to 2.000 mm.

Almost all substrates like textiles, film, paper and foil can be processed on the Center's plants. Different coating raw materials can be used for the **converting industry**, granting the product the following properties:

- ✓ Conductive
- ✓ Luminescent, fluorescent
- ✓ Hydrophobic, hydrophilic
- ✓ Self-cleaning
- ✓ Self-adhesive

The experts in our lab will support you during coating trials and from your idea to the finished product.

In addition to our standard plants tailor-made machines and entire automation solutions are offered by Coatema.



Coatema R&D Center on 1.200 m²



Easycoater
Working width: DIN A 4



Basecoater
Working width: 250 mm



Support by coating experts
in the Coatema Coating
Center



Deskcoater
Working width: 500 mm



Multifunctional Coating
Line
Working width: 500 mm



Use of the most chemicals
and formulation methods



Click&Coat - Unit
Working width: 500 mm



Linecoater
Working width: 500 mm