RECO

Possible applications

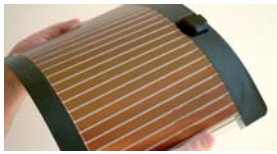
Clear-on-clear Labels

Specialty Papers

Thermal Printing Papers

Pressure sensitive Labels

Printed Electronics



Flexible Photovoltaics

The
RECO
series

RECO

Since 1958, the RECO has been a well-known brand name for individually configured coating and laminating machines from KROENERT.

With the RECO, following coating tasks can be accomplished:

- Application of thermally drying water- and solvent-based compounds
- Application of thermally or radiation curing pre-polymer compounds (100 % systems)

The RECO is composed of various modules. KROENERT offers in the product portfolio a vast range of winders, coating stations, dryers as well as laminating and cooling stations. Also special executions of components are possible.

For the RECO over 60 different coating processes are available.

KROENERT
The Coating Machinery Experts

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Coating stations and coating methods

The RECO is available in two executions

- the version 800 with a fixed coating station as well as
- the version 800 A with a changeable trolley system

The quick change trolley system offers a variety of advantages

- Short conversion and down times of the line
- Quick change of coating method resp. the compound
- Extremely easy handling of the trolley (executed in aluminum)
- Precise take up and adjustment by means of self-centering lifting and fixing system against end stops
- Quick couplings for the drives, media piping and supply lines
- No conversion of the blades for trolleys with gravure rollers by change from forward to reverse

Additionally, the versions 800 and 800 A offer the possibility of sleeve change, for instance when changing the working width. The sleeve can be changed without tools within a few minutes and without cutting the substrate.

In the coating stations of the RECO 800/800 A following coating systems and processes can be integrated

- gravure roller
- smooth roller
- comma bar
- meyer bar
- kiss coat
- slot/bead/curtain (SWC/MWC)
- impregnating (dipping resp. squeezing process)
- single or double sided simultaneous coating
- special coating systems

Coating station and Trolley 800 A for MPG 600 CI

KROENERT ProLine screenshot silicone coating station

Increase of efficiency with the RECO

Already during the design of the individual machine layout, an economical operation, the increase of efficiency and therefore a quicker return on investment is considered. This comprises for instance (partially optional):

- Quickest change of media, substrates and working widths, especially for smaller lots
- Small substrate contents of the line
- Reduction of the compound content in the coating station
- High precision coating systems with coating weight accuracies of up to +/- 1 % in cross and length direction
- Versatile coating station, for instance with trolley systems and sleeves
- Single or double sided simultaneous coating
- Lowest residual substrates at unwinder
- Tapeless splicing at rewinder
- Driven idler to avoid scratches, especially for transparent polymer films
- Energy optimized dryers with fresh air preheating, efficient exhaust air cleaning and solvent recovery systems
- Easy adaption or conversion of the line due its modular design

Mainly, the RECO is used for the production of technical products, flexible packaging as well as products for re-generative energies and environmental protection.

All modules like winders, coating stations and drying systems are also available as single components or for retrofitting of existing lines.

The competent and efficient KROENERT service is at disposal for maintenance, repair and if necessary for conversion of the line for adaption to changed requirements.

Fixed mounted coating station 800, 5 rollers for solventfree siliconizing

Energy-optimized drying tunnel

Technical Data

Working width	600 - 3.300 mm
Speed of production	up to 1.610 m/min
Roller diameter coating rollers	250/300/400 mm
Ø Sleeve-pressure roller	250/300 mm
Ø Reel	500 - 1.500 mm

Substrates

Paper	17 - 180 g/m²
Cardboard	180 - 500 g/m²
Polymer film	3 - 500 µm
Metal foil	6 - 150 µm