



Cryofox

WEB 5000

HOUSE OF COATING TECHNOLOGY



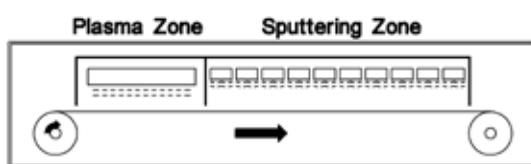
WEB 5000

Cryofox Web 5000 Coater is the system for coating flexible and sensitive web substrates on roll-to-roll basis. With this system it is possible to deposit metallic and non-metallic coatings on polymer and metallic webs.

The Cryofox Web 5000 coater is equipped with a plasma process zone for plasma treatment or CVD-process, and a sputtering zone with 10 DC or RF magnetrons.

Applications:

- Back electrodes for thin film solar cells.
- Substrates for thin film PV-cells
- Electrodes for DEAP technology
- Surface treatment or enhancement of industrial materials
- Substrates for display technologies



All Cryofox and WEB systems are developed, designed, and manufactured by Polyteknik AS.

POLYTEKNIK



Mechanics

- Mild steel chamber (stainless steel optional)
- Internal chamber dimensions:
W700 x H700 x L5000 mm approx.
- Chamber volume: 2500 litre
- Roll to roll handling of web
- Max. web width: 400 mm
- Variable web speed
- Low tension web handling possible
- Masking system possible
- Footprint:
Vacuum + control unit: L8000 x D3000 x H2600 mm

Process

- Magnetrons DC/RF – rectangular (up to 10 pcs.)
- Plasma pre-treatment
- PECVD process on request
- Separate pressure and gas composition zones for individual processes is possible

Process supply

- Dry pump for roughing (and PECVD zone)
- Cryopump for high vacuum
- One or multiple mass flow controllers for gas and eventual precursor supply
- Water cooling on critical process parts

Process Control

- Receipt control with fully automatic process
- Fully automatic or manual control of the process
- Very good HMI on top of robust PLC control
- Internet access for machine control and operation (optional)
- Data logging function (optional)
- RGA (residual gas analyzer) and logging PC (optional)

AUX. Equip.

- Chiller (optional)
- MOWEB - modular web handling equipment on request (see separate brochure)

