

SOLAR

PVGlassCoat
PVFlexxCoat



Inline CBD-processes for high efficient buffer layers and absorbers.

Inline production equipment for chemical bath deposition (CBD) of high efficiency buffer layer and absorber. Unique technology for lowest cost of ownership coatings on glass and on flexible substrates.

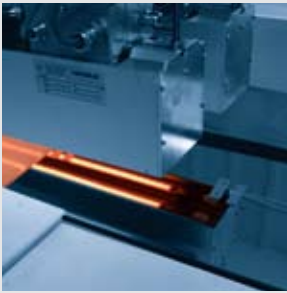
Areas of application

- Chemical bath deposition for buffer layer, i.e. CdS, ZnS
- Chemical bath deposition for n-type CdS for CdTe

Features and benefits

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| <ul style="list-style-type: none"> • Lowest cost of ownership • Fully automatic inline system • Throughput increase by high speed processes • One side deposition • No backside contamination • Modular design • Water treatment of DI-rinsing water | <ul style="list-style-type: none"> • Total waste water treatment solution • Total exhaust cleaning solution • Automated dosage system • Up to 1.5 m/min line speed • Working width up to 1200 mm available • Up to 100 MW/year production capacity • Small footprint |
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Coating bath



CdS on CIS



Technical Data PVFlexxCoat

PVGlassCoat

Process	Chemical bath deposition of CdS, other buffer layers and n-type absorbers	
Example	50 MWp on flexibles	100 MWp on glass
Dimensions	approx. 11970 x 2400 x 2300 mm (length x width x height)	approx. 13730 x 3300 x 2300 mm (length x width x height)
Throughput	≤ 1.25 m/min	1.8 m/min
Substrate	stainless steel or polyimide	glass
Substrate size	up to 1000 mm width, typical 25 to 125 µm	up to 1200 mm width, typical 3 mm thickness
Media consumption		
DI water	< 0,5m ³ /h (depending on activation chemistry)	
Cooling Water	6 m ³ /h (P _{min} = 1,5 bar; T _{max} = 10°C)	6 m ³ /h (P _{min} = 1,5 bar; T _{max} = 5°C)
Exhaust	1300 m ³ /h (contaminated)	1300 m ³ /h (contaminated)
Compressed dry air	1 m ³ /h @ 6 bar	1 m ³ /h @ 6 bar
Electricity	400 V, 140 kW	400 V, 180 kW
Noise level	Operation side: max. 75 db (A) Backside: max. 80 db (A)	Operation side: max. 75 db (A) Backside: max. 80 db (A)