

Pilot Membrane Coater

전해질막을 생산하기 위한 개발용 Coating 설비
Carrier Film에 Slurry를 Coating하는 방식과 e-PTFE를
함침공법으로 Slurry를 Coating하는 방법 모두 가능

Description	General Specification
Web Material	PET, PI, e-PTFE
Web Thickness	6~100 μ m
Coating method	Slot Die Coating
Roll Width	500mm Hot Air Blowing
Dry Type	Hot Air Blowing
Machine Speed	Max 3m/min

Pilot Electrode Coater

Decal 공법용 Anode/Cathode를 PEN Film에 Coating
Membrane에 Anode/Cathode 직접 Coating
- Slot Die Coating System

Description	General Specification
Web Material	PET, PEN, Membrane
Web Thickness	20~100 μ m
Roll Width	400mm
Coating method	Slot Die Coating Continuous/Intermittent coating
Machine Speed	Max 5m/min

Pilot Decal Machine

Sheet 방식의 Decal 설비
보호Film은 Roll to Roll 방식으로 연속 공급
- Press Roll 압력 조절 방식

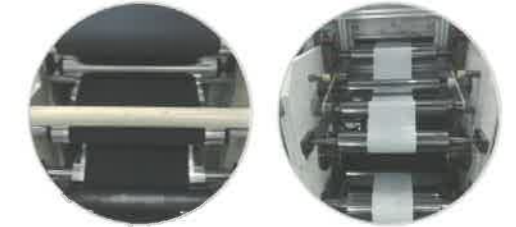
Description	General Specification
Web Material	PF, PEN, Membrane
Web Thickness	25~100 μ m
Decal method	Hot Roll Press
Roll Width	450mm
Press Pressure	Max 1ton
Machine Speed	Max 5m/min

Pilot Calendar

- 음/양극 Slurry Coating & Dryer
- Stripe Coating, Pattern Coating

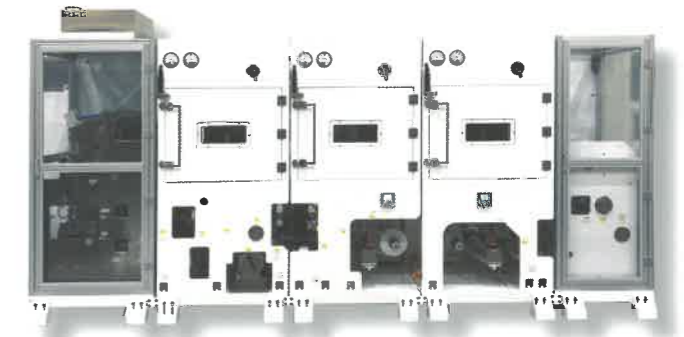
Battery 전용

Description	General Specification
Web Material	Al foil, Copper Foil
Web Thickness	6~20 μ m
Roll Width	300mm
Coating Method	Direct Comma Coating Reverse Comma Coating
Dryer	1m \times 2 Zones & Roll Support & Hot Air Blow
Machine Speed	Max 2m/min



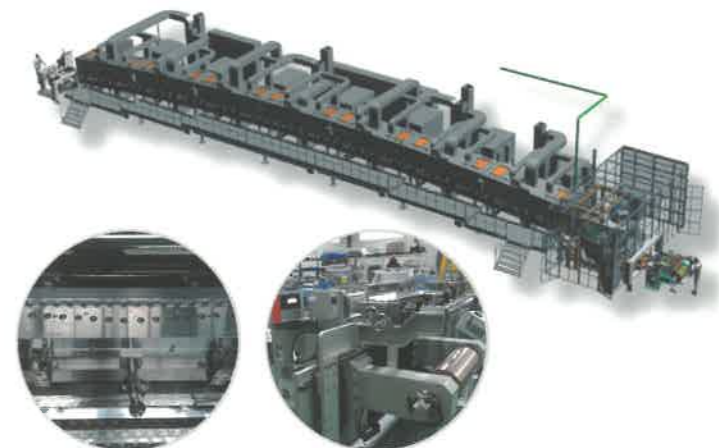
〈분리막 & Battery 겸용〉

Description	General Specification
Web Material	Al foil, Copper Foil, Separator
Web Thickness	6~20 μ m
Roll Width	450mm
Coating Method	MCD Coating(Separator) Comma/Slot Die(Battery)
Dryer	1m \times 3 Zones & Roll Support & Hot Air Blow
Machine Speed	Max 3m/min



〈Battery 준 양산용 Coater〉

Description	General Specification
Material	Al foil, Copper Foil
Material Thickness	6~20 μ m
Roll Width	800mm
Coating Method	Slot Die Coating
Dryer	4m \times 7 Zones & Roll Support & Hot Air Blow
Machine Speed	Max 25m/min



Pilot Electrode Coater

- 전해질막을 생산하기 위한 양산용 Coating 설비
- Carrier Film에 Slurry를 Coating하는 방식
- 단층 or 다층의 e-PTFE를 함침공법으로 Coating

Description	General Specification
Web Material	PET, PI, e-PTFE
Web Thickness	6~100µm
Coating method	Slot Die Coating
Roll Width	1,400mm
Dry Type	Hot Air Blowing
Machine Speed	Max 3m/min



Subgasket Laminator

- Roll to Roll 연속 생산 방식
- Subgasket 연속 타발하여 CCM에 양면 동시 Lamination
- Cassette type의 Decal unit 교체 방식

Description	General Specification
Web Material	CCM, Subgasket film
Web Thickness	20~60µm
Lamination method	2 Heating Roll Lamination
Roll Width	600mm
Machine Speed	Max 1.5m/min



Electrode Coater

- Decal 공법용 CCM 생산을 위한 Coater
- Masking 공법으로 Pattern Coating
- Membrane에 Anode/Cathode Slurry를 직접 Coating
- Continuous/Intermittent coating

Description	General Specification
Web Material	PET, PEN, Membrane
Web Thickness	20~60µm
Coating method	Slot Die Coating
Roll Width	600mm
Dry Type	Hot Air Blowing
Machine Speed	Max 5m/min



MEA Cutting Machine

- Roll to Roll 연속 생산 방식
- Film형태를 Sheet 형태로 타발
- Vision 품질검사후 양품만 Cassette에 Sheet 형태로 적재

Description	General Specification
Web Material	Film 형태의 MEA(5Layer)
Web Thickness	80~150µm
Cutting Method	Pinnacle Knife Press
Roll Width	500mm
Tact tim	Max 3sheets/min

Pilot Decal Machine

- Sheet 방식의 Decal 설비
- 보호Film은 Roll to Roll 방식으로 연속 공급
- Press Roll 압력 조절 방식

Description	General Specification
Web Material	PEN Film, Membrane
Web Thickness	20~60µm
Decal method	Heating Roll Press
Roll Width	600mm
Machine Speed	Max 5m/min



MEA&GDL Laminator

- MEA에 GDL Sheet를 양면 동시 Lamination
- Cassette에 MEA, GDL 적재 공급
- Vision 품질검사후 양품만 Cassette에 Sheet 형태로 적재

Description	General Specification
Material	MEA, GDL
Web Thickness	200~500µm
Lamination method	Hot Press Type 양면 GDL 동시 Lamination
Product 이송	P&P/Robot으로 이송
Machine Speed	Max 3sheets/min

