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DAEJIN Machinery Ind. CO., LTD.

Leader in light packaging printing, coating, and converting machinery

대진기계공업(주)

Daejin Machinery

Achieve customer satisfaction and continued growth through technology acquisition and sound management

PRODUCT

MLCC

2차전지 & BATTERY

IT

MLCC

GRAVURE PRINTING MACHINE - Gravure printing press

• Manufactured product

❶ MLCC (Multi Layer Ceramic Condencer)

• SPEC

Utilization	CONDUCTIVE MLCC PRECISION PRINTER
Application Fabric	Molded Ceramic PET
Equipment Speed	Max. 150 m/min (conditions applied)
Equipment Specification	2.3m(W) x 2.9m(H) x 21m(L)
DRIVE SYSTEM	AC Servo / Vector Control
Heat source	Electric Heater.
Drying method	combination formula (Floating, Leveling, Punching)

• Characteristics

- Print less than 1 μm thick after drying with MLCC exclusive gravure printing machine
- High efficiency dryness and stable chamber internal temperature and air volume (Max). 150 degrees)
- Motor automatic control due to web tension feedback
- Web Winding Dia : Max. 530(600)mm
- Automate printer centralized control except Web Load/Unload
- Pattern L/D strain within 10 μm
- CE-certified explosive precision gravure printing machine

• PROCESS

Unwound › Defect Inspection › Print › Dry › Winding

MLCC

COATING MACHINE - COATING MACHINE

• Manufactured product

❶ MLCC (Multi Layer Ceramic Condencer)

• SPEC

Utilization	MLCC Ceramic Coating Machine
Application Fabric	Formed ceramic PET
Equipment Speed	Max. 150 m/min (conditions applied)
Equipment Specification	3m(W) x 3m(H) x 22m(L)
DRIVE SYSTEM	AC Servo
Heat source	Electric Heater
Drying method	combination formula (Floating, Leveling, Punching)

• Characteristics

- Implement 1-10 um after drying with MLCC dedicated coating (molding)
- Dryness of efficiency and stable temperature and air volume inside the chamber (Max. 120 degrees)
- Motor automatic control due to web tension feedback
- Web Winding Dia : Max. 500(550)mm
- Automate coating centralized control except Web Load/Unload

• PROCESS

Unwinding ⟩ Coating (molding) ⟩ Dry ⟩ Winding

Secondary Battery & BATTERY

POUCH FILM COATING MACHINE - pouch film coating machine

• Manufactured product

❶ LiBP (Lithium ion Battery Pouch film)

• SPEC

Utilization	Manufacture of secondary battery pouch film
Application Fabric	AL+ NY +PET
Equipment Speed	Max. 150m/min
Equipment Specification	Consultation on details
Heat source	Hot oil, Steam
Drying method	Floating

• PROCESS

Unwound › Coating › Dry › Coating › Dry › Lamination › Winding

Secondary Battery & BATTERY

POUCH FILM LAMINATING MACHINE - Pouch film laminator

• Manufactured product

❶ LiBP (Lithium ion Battery Pouch film)

• SPEC

Utilization	Manufacture of secondary battery pouch film
Application Fabric	NY +PET
Equipment Speed	Max. 200m/min
Equipment Specification	Consultation on details
Heat source	Steam
Drying method	Roll support

• PROCESS

Unwinding › Coating › Drying › Lamination › Winding

Secondary Battery & BATTERY

POUCH FILM EXTRUDE MACHINE - Pouch Film Extruder

• Manufactured product

❶ LiBP (Lithium ion Battery Pouch film)

• SPEC

Utilization	Manufacture of secondary battery pouch film
Application Fabric	1급지 - AL + NY + PET 2급지 - CPP
Equipment Speed	Max. 100m/min
Equipment Specification	Consultation on details
Heat source	Hot oil
Drying method	Roll support

• PROCESS

Unwinding › Coating › Drying › Lamination › Winding

Secondary Battery & BATTERY

FUEL CELL COATING MACHINE - COATING MACHINE FOR FUEL CELL

• Manufactured product

❶ LiBP (Lithium ion Battery Pouch film)

• SPEC

Utilization	-
Application Fabric	FEP Film
Equipment Speed	Max. 10m/min
Equipment Specification	1.7m(W) x 1.3m(H) x 4.5m(L)
Heat source	Not included
Drying method	Not included

• PROCESS

Unwinding › Coating › Drying › Lamination › Winding

IT

FCCL (ACF) COATING MACHINE - FCCL (ACF) COATING MACHINE

• Manufactured product

❶ ACF (Anisotropic Conductive Films)
❷ FCCL (Flexible Copper Clad Laminate)

• SPEC

Utilization	COMMA COATING
Applied fabric	PET, Etc
Equipment Speed	Max. 10m/min (conditions applied)
Equipment Specification	2m(W) x 2.5m(H) x 11m(L)
DRIVE SYSTEM	AC Servo / Vector Control
Heat source	Electric Heater
Drying method	Floating Nozzle type

• Characteristics

- ACF / FCCL Exclusive Coating Machine
- Side Hanger Type for easy side work
- Motor automatic control due to web tension feedback
- A structure that maintains the cleanliness of the equipment itself
- High efficiency dryness and stable chamber internal temperature and air volume (Max. 200 degrees)

• PROCESS

Unwinding › Coating › Drying › Slitting › Winding

IT

PILOT MULTI COATING MACHINE - Pilot Multi-Coating Machine

• Manufactured product

❶ RND

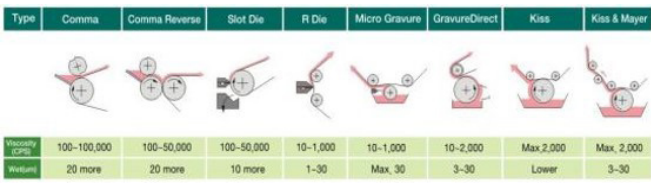
• SPEC

Utilization	Pilot Multi Coater
Applied fabric	Various Web (Film, Metal etc..)
Equipment Speed	Max. 30m/min (conditions applied)
Equipment Specification	2m(W) x 2.7m(H) x 7m(L)
DRIVE SYSTEM	AC Servo / Vector Control
Heat source	Electric Heater
Drying method	Floating Nozzle type

• Characteristics

- Apply multi-coated heads
- Composition of various coating methods, equipment optimized for research
- All configurations can be made to meet the needs of the User

• PROCESS



IT

UV COATING MACHINE - UV COATING MACHINE

• Manufactured product

❶ BLU FILM / PRISM FILM
❷ DISPLAY FILM

• SPEC

Utilization	BLU 2-HEAD COATING
Applied fabric	PET, Etc…
Equipment Speed	Max. 30m/min (conditions applied)
Equipment Specification	2.5m(W) x 2.5m(H) x 5m(L)
DRIVE SYSTEM	AC Servo / Vector Control
Heat source	UV
Drying method	UV CURE

• Characteristics

- DISPLAY FILM PRODUCTION COATING MACHINE.
- 2-layer coating for UV curing.
- It is possible to correct the left and right ±1um of the fine pattern of the roll surface.
- It heats up the coating roll, Temperature control is possible within ±1 degree of left and right temperature deviation.

• PROCESS

Unwinding › Coating › UV hardening › Pattern › Winding

IT

ELECTRIC PRINTING MACHINE - ELECTRONIC PRINTING MACHINE

• Manufactured product

❶ a printed electronic film
- PET, PI film (Metal ink print)

❷ automotive rear-view mirror heated seat.

❸ FPCB

❹ Various Touch Films

• SPEC

Utilization	Gravure Printing
Applied fabric	PET, PI etc…
Equipment Speed	Max. 100m/min
Equipment Specification	Depends on production specifications.
DRIVE SYSTEM	AC Servo / Vector Control
Heat source	Steam, Electric heater, GAS.

IT

OPTICAL FILM LAMINATING MACHINE - OPTICAL FILM LAMINATING MACHINE

DIFFUSION FILM LAMI MACHINE

POLARIZED LIGHT FILM LAMI MACHINE

• Manufactured product

❶ BLU, Diffusion Film
❷ optical film
❸ window film
❹ Others

• SPEC

Utilization	LAMINATING
Applied fabric	DIFFUSION / POLARIZED LIGHT FILM
Equipment Speed	Max. 20m/min (conditions applied)
Equipment Specification	Depends on fabrication specifications
DRIVE SYSTEM	AC Servo / Vector Control
Lammy heat source	Steam, Hot Oil, Electric heater..

• Characteristics

- Ability to Lami each layer of Film up to 7 layers
- Robust durability of Lami-enabled equipment from thin films to up to 3mm thick films
- Drive Auto Control with Web Tension Feedback

IT

CARBON IMPREGNATING MACHINE - CARBON IMPREGNATING MACHINE

• Manufactured product

❶ a fishing rod, a golf club, and an athletic racke
❷ auto parts.
❸ Aircraft components related to aviation and spac
❹ Wind power generation components and other variet
❺ Use it as other high-tech materials.

• SPEC

Utilization	PREPREG impregnation and coating
Applied fabric	CARBON FIBER, GLASS FIBER…
Equipment Speed	Max. 30m/min (conditions applied)
Equipment Specification	4.5m(W) x 3.5m(H) x 25m(L)
DRIVE SYSTEM	AC Vector Control
a content heat source	HOT OIL
Drying method	-

• Characteristics

- Using carbon fiber, glass fiber, aramid fiber, etc., bonding material (epoxy) High strength synthesis by bonding resin, polyester resin, thermoplastic resin)
- The impregnated part can be adjusted to the thickness of ± 1um depending on the thickness of the fiber
- Equipped with a seam that spreads the fiber evenly
- Apply Lami parts that can be combined up to 6_layers