



High-Energy Intelligent Control (Xiamen) Machinery Equipment Co., LTD

GAONENG

FOCUS ON LABORATORY COATER MANUFACTURE

On the way of laboratory coater develop, we are always accompany with customer.

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MS-ZN320A (Heating Model) Laboratory Coating Machine Specifications:

- Control System: Self-developed by Maosen / PLC with touchscreen
- Coating Method: Doctor blade / rod coating integrated (separately for each coating)
- Doctor Blade Adjustment: Rear flip style (easy to clean)
- Coating Speed: Digital setting, 1-5 meters/minute
- Length Setting: Digital setting, 10-450 mm
- Temperature Control: Room temperature to 160°C (constant temperature)
- Leveling Device: Equipped with a leveling bar to flatten the material before coating
- Table Surface Material: Aluminum alloy + glass (removable)
- Coating Uniformity: $\pm 4\%$ (depending on material flatness)
- Working Area: 300*450 mm
- Coating Thickness: 0.005-5 mm (wet film)
- Machine Dimensions: Length 800 mm * Width 380 mm * Height 410 mm (approx.)
- Machine Weight: Net weight 44 kg (approx.)
- Rod Device: Comes with a rod holder (rod needs to be purchased separately, one rod per thickness)
- Rod Weights: Includes two adjustable weights
- Rod Size: Diameter 10 mm * Length 400 mm (standard)
- Doctor Blade Material: Alloy stainless steel
- Power Supply: Voltage 110-220V 50/60Hz
- Power Consumption: 48W (standby), 2000W (heating) - Notes:

For low viscosity and high precision, the rod coating machine is more effective. For high viscosity, the doctor blade coating is better!



MS-ZN320B (Heating Model) Laboratory Coating Machine Specifications:

- Control System: Self-developed by Maosen / PLC with touchscreen
- Coating Method: Doctor blade / rod coating integrated (separately for each coating)
- Doctor Blade Adjustment: Rear flip style (easy to clean)
- Coating Speed: Digital setting, 1-5 meters/minute
- Length Setting: Digital setting, 10-450 mm
- Temperature Control: Room temperature to 160°C (constant temperature)
- Leveling Device: Equipped with a leveling bar to flatten the material before coating
- Table Surface Material: Aluminum alloy + glass (removable)
- Coating Uniformity: $\pm 4\%$ (depending on material flatness)
- Working Area: 300*450 mm
- Coating Thickness: 0.005-5 mm (wet film)
- Machine Dimensions: Length 660 mm * Width 470 mm * Height 390 mm (approx.)
- Machine Weight: Net weight 42 kg (approx.)
- Rod Device: Comes with a rod holder (rod needs to be purchased separately, one rod per thickness)
- Rod Weights: Includes two adjustable weights
- Rod Size: Diameter 10 mm * Length 400 mm (standard)
- Doctor Blade Material: Alloy stainless steel
- Power Supply: Voltage 110-220V 50/60Hz
- Power Consumption: 48W (standby), 2000W (heating) - Notes:



For low viscosity and high precision, the rod coating machine is more effective. For high viscosity, the doctor blade coating is better!

MS-ZN300A Laboratory Coating Machine Specifications:

- Control System: Self-developed by Maosen
- Coating Method: Alternating use of doctor blade and rod
- Speed: Adjustable 1-5 meters/minute
- Length: Adjustable 10-420 mm
- Leveling Device: Equipped with automatic leveling device
- Accuracy Error: ± 0.003 mm
- Working Area: 300*450 mm
- Coating Thickness: 0.005-5 mm (wet film)
- Machine Dimensions: 620*470*395 mm (L*W*H)
- Machine Weight: Net weight 32 kg
- Rod Device: Comes with a rod holder (rod needs to be purchased separately, one rod per thickness) - Rod Length: 400 mm
- Doctor Blade Material: Alloy stainless steel (professional blade)
- Power Supply: Voltage 110-220V 50/60Hz
- Power Consumption: 48W- Notes:
For low viscosity and high precision, the rod coating machine is more effective. For high viscosity, the doctor blade coating is better!



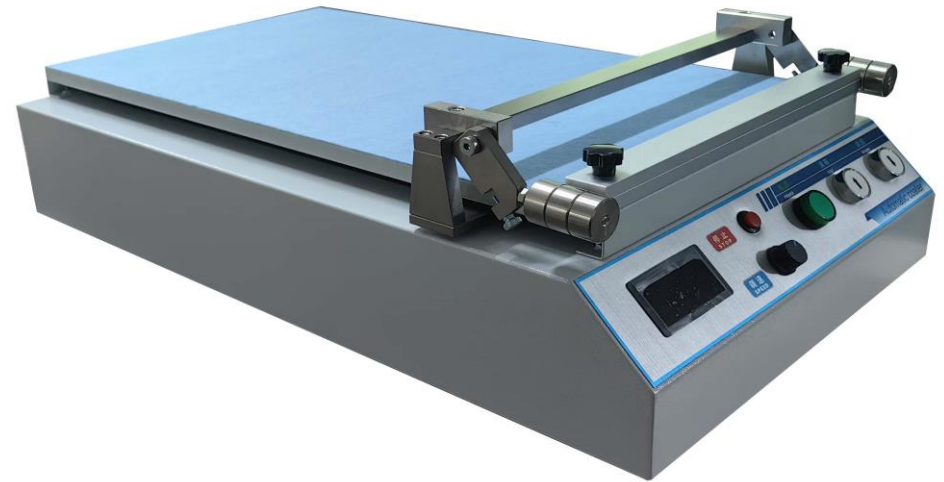
MS-GD200 (Heating Model) Small Doctor Blade Coating Machine Specifications:

- Coating Speed: Stepless adjustment 1-5 meters per minute
- Accuracy: ± 0.003 mm
- Table Surface: 370*260 mm
- Coating Area: 220*200 mm
- Coating Thickness: 0.005-5 mm (wet film)
- Machine Dimensions: 430*330*340 mm
- Machine Weight: 17-18 kg
- Doctor Blade Material: Alloy stainless steel
- Power Supply: Voltage 110-220V 50/60Hz
- Heating Temperature: Room temperature to 200°C
- Power Consumption: 48W (standby) 2000W (heating)



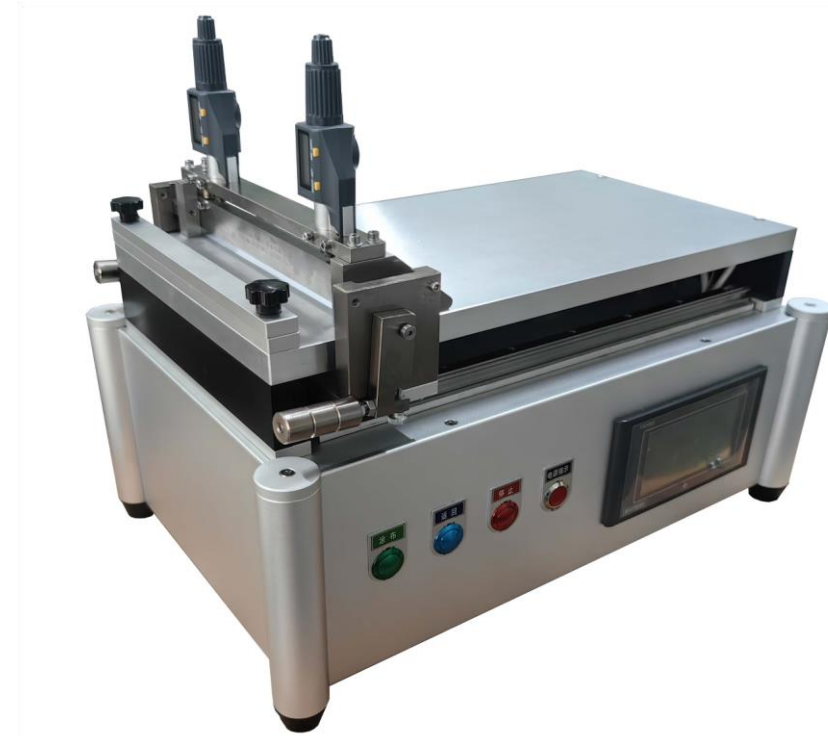
MS-XB320 AFA-IV Rod Coating Machine Specifications:

- Control System: Self-developed by Maosen
- Coating Method: Rod (optional, standard national specification)
- Speed: Adjustable 1-5 meters per minute
- Panel Control: Coating, return, stop, speed adjustment
- Weight Device: Adjustable weights on both sides
- Accuracy Error: Depends on rod quality
- Working Area: 300*420 mm
- Machine Dimensions: 710*420*285 mm (L*W*H)
- Machine Weight: Net weight 20 kg
- Rod Length: 400 mm
- Power Supply: Voltage 110-220V
- Power Consumption: 120W



MS-SY300 (Heating Model) Laboratory Coating Machine Specifications:

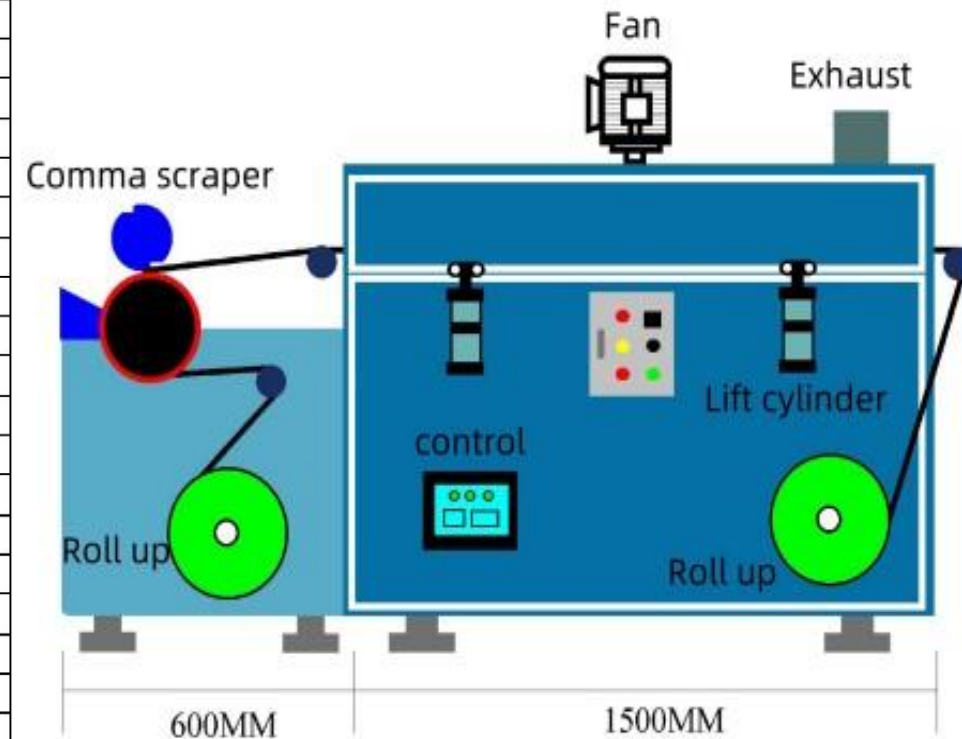
- Control System: Self-developed by Maosen / PLC with touchscreen
- Coating Method: Doctor blade / rod coating integrated (separately for each coating)
- Doctor Blade Adjustment: Pull-up style (doctor blade is removable for easy cleaning)
- Coating Speed: Digital setting 1-5 meters per minute
- Length Setting: Digital setting 10-300 mm
- Temperature Control: Room temperature to 160°C (constant temperature)
- Leveling Device: Equipped with a leveling bar to flatten the material before coating
- Table Surface Material: Aluminum alloy + glass (removable)
- Coating Uniformity: $\pm 4\%$ (depending on material flatness)
- Working Area: 200*300 mm
- Coating Thickness: 0.005-5 mm (wet film)
- Machine Dimensions: Length 550 mm * Width 350 mm * Height 350 mm (approx.)
- Machine Weight: Net weight 28 kg (approx.)
- Rod Device: Comes with a rod holder (rod needs to be purchased separately, one rod per thickness)
- Rod Weights: Includes two adjustable weights
- Rod Size: Diameter 10 mm * Length 300 mm (standard)
- Doctor Blade Material: Alloy stainless steel
- Power Supply: Voltage 110-220V 50Hz
- Power Consumption: 48W (standby) 2000W (heating) - Notes:



For low viscosity and high precision, the rod coating machine is more effective. For high viscosity, the doctor blade coating is better!

MS-GD300 Automatic Coating Machine Specifications

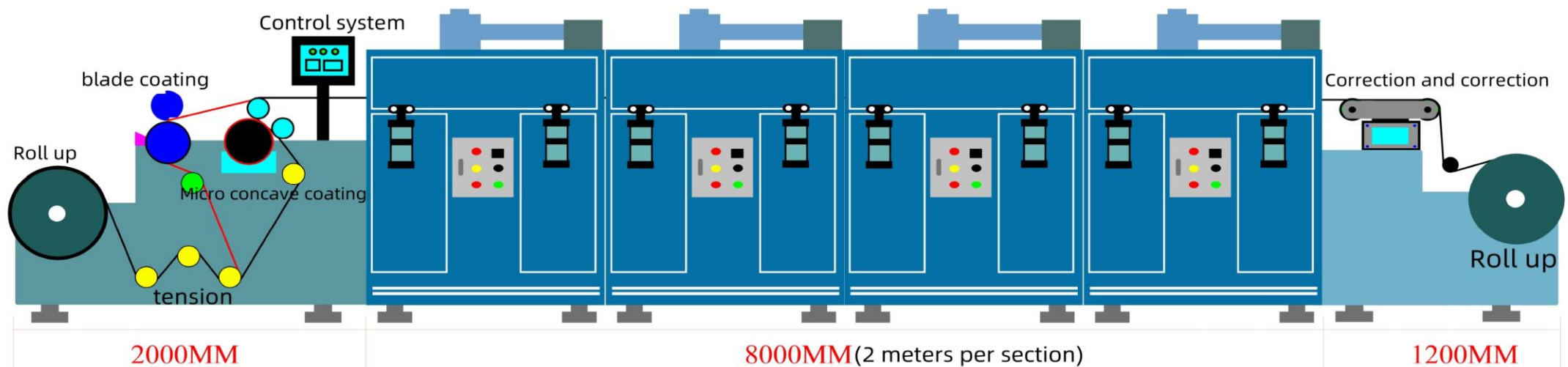
Product Name:	
Applications:	
Substrates:	
Control System:	Self – developed by BoSen
Man-Machine Interface:	
Coating Width:	300mm
Coating Methods:	Comma Roll Coating
Coating Thickness:	0.01-5MM
Coating Accuracy:	(uniformity $\pm 3\%$)
Thickness Adjustment:	Digital Micrometers
Coating Speed:	0.5-5 m/min (Adjustable according to glue drying condition)
Solution Feeding Methods:	
Rewind and Unwind Diameter:	300mm
Rewind and Unwind Airshafts:	3-inch Airshaft
Drying Oven Length:	1.5m
Oven Material:	Stainless Steel 304
Oven Roll:	Driven Roll made of Stainless Steel 304
Oven Temperature:	Ambient to - 160℃ (Can be Constant Temperature)
Heating Method:	Stainless steel heating tube
Heating Control:	Thermocouple Sensor
Oven Fan:	Speed Adjustable
Oven Insulation:	Asbestos Insulator
Wind speed Control:	Speed Adjustable
Oven Elevating Unit:	Double Cylinder Lifting
Exhaust System:	Centrifugal Fan (External Ports 100MM)
Cooling	
Post Lamination:	
Electric Motor Control:	Inverter (Controlled by Delta PLC)
Tension Control System:	Adjustable
Web Guiding Device:	
Power Source:	Input Voltage: AC380V, Voltage of Control Units: AC24V
Power Capacity :	1.2KW
Air Source:	
Machine Dimensions:	
Machine Weight:	
Sales Price Range:	
Notes:	



MS-GD500 Automatic Aluminum Foil Coating Machine Specifications

Product Name:	MS-GD500 Automatic Aluminum Foil Coating Machine
Applications:	
Substrates:	aluminum foil
Control System:	Self-developed by BoSen (Chinese and English Languages)
Man-Machine Interface:	10-inch Touch Screen
Coating Width:	500mm (Rolling Width: 600mm)
Coating Methods:	Comma Blade Coating
Doctor Blade Lifting:	Automatic Adjustment
Coating Thickness:	0.01-8MM
Coating Accuracy:	uniformity $\pm 3\%$
Thickness Adjustment:	Digital Micrometers
Coating Speed:	1-20 m/min (Depending on the glue drying condition)
Solution Feeding Methods:	Compressed Air Tank (30 Liters)
Rewind and Unwind Diameter:	500mm (Loading Capacity: 200KG)
Rewind and Unwind Airshafts:	3-inch Airshaft (Tile-type)
Drying Oven Length:	12M Length of Drying Tunnel (2M per Section)
Temperature Segmentation:	2M per Section with 1+1 Independent Temperature Control
Oven Material:	Stainless Steel 304 (Oven Chamber)
Oven Roll:	Driven Roll made of Stainless Steel 304 (High Temperature Bearings)
Oven Temperature:	Ambient to - 150°C (Can be Constant Temperature)
Heating Methods:	Electric Heating by Tube Heater

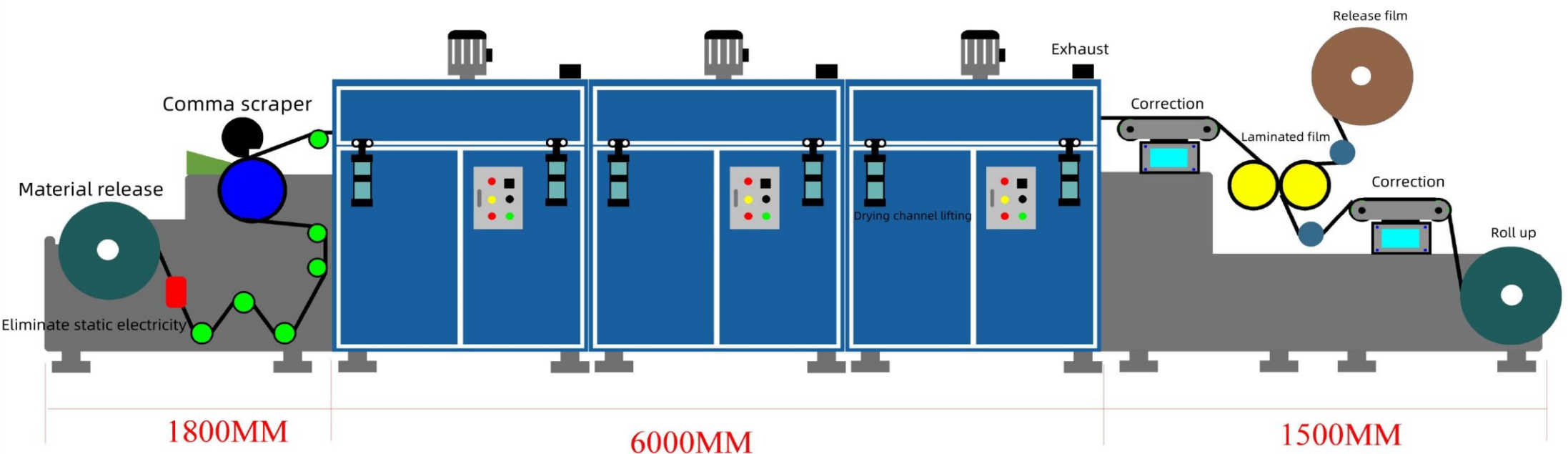
Heating Control:	Thermocouple Sensor (Touch Screen Temperature Controller)
Oven Structure	Tiled
Oven Fan:	Speed Adjustable
Oven Insulation:	Asbestos Insulator
Wind Speed Control:	Air Outlet with Fan Filter (Uniform Wind Speed)
Oven Elevating Unit:	Double Cylinder Elevating
Exhaust System:	Centrifugal Fan (External Ports 100MM)
Cooling	
Post Lamination:	
Electric Motor Control:	Inverter (Controlled by Delta PLC)
Tension Control System:	Fully Automatic Tension Adjustment
Web Guiding Device:	Automatic Rewinding Deviation Correction
Power Source:	Input Voltage: AC380V, Voltage of Control Units: AC24V
Power Capacity :	120KW (Total Power Required by Customer)
Air Source:	0.55Mpa~0.7Mpa
Machine Dimensions:	
Machine Weight:	
Sales Price Range:	
Notes:	Machine Operations Order from Left to Right



MS-GD500 Automatic Comma Coating Machine Specifications

Product Name:	
Applications:	
Substrates:	
Control System:	Self - developed by BoSen
Man-Machine Interface:	
Coating Width:	500mm
Coating Method (Type):	Comma Blade Coating + Slot Die Coating
Doctor Blade Lifting:	
Coating Thickness:	0.005-5MM
Coating Accuracy:	uniformity $\pm 3\%$
Thickness Adjustment:	Digital Micrometers
Coating Speed:	0.1-5 m/min (Adjustable according to glue drying condition)
Solution Feeding Methods:	
Rewind and Unwind Diameter:	300mm
Rewind and Unwind Airshafts:	3-inch Airshaft
Electrostatic Eliminator:	Static Eliminator Bar
Drying Oven Length:	6M Length of Drying Oven (2M per Section)
Temperature Segmentation:	2M per Section with 1+1 Independent Temperature Control
Oven Material:	Stainless Steel 304 (Oven Chamber)
Oven Roll:	Driven Roll made of Stainless Steel 304
Oven Temperature:	Ambient to - 180°C (Can be Constant Temperature)
Heating Methods:	Electric Heating by Stainless Steel Tube Heater

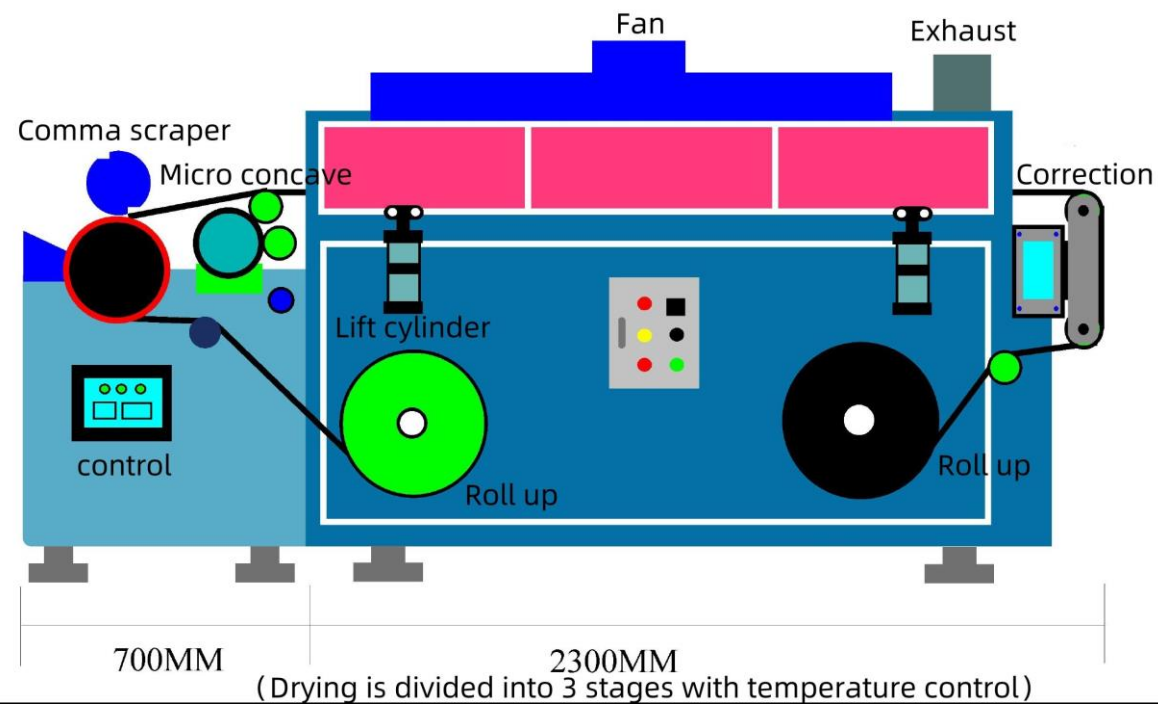
Heating Control:	Thermocouple Sensor
Oven Structure:	Tiled
Oven Fan:	Speed Adjustable
Oven Insulation:	Asbestos Insulator
Wind Speed Control:	Air Outlet with Fan Filter (Uniform Wind Speed)
Oven Elevating Unit:	Double Cylinder Elevating
Exhaust System:	Centrifugal Fan (External Ports 100MM)
Cooling	
Post Lamination:	Product lamination (Steel Roll + Rubber Roll)
Electric Motor Control:	Inverter (Controlled by Delta PLC)
Tension Control System:	Fully Automatic Tension Adjustment
Web Guiding Device:	Automatic Rewinding Deviation Correction
Power Source:	Input Voltage: AC380V, Voltage of Control Units: AC24V
Power Capacity:	30KW (Peak Value)
Air Source:	
Machine Dimensions:	
Machine Weight:	
Sales Price Range:	
Notes:	



MS-GY350 Comma Blade and Micro Gravure Automatic Coating Machine Specifications

Product Name:	
Applications:	
Substrates:	
Control System:	Self-developed by BoSen
Man-Machine Interface:	10-inch Touch Screen
Coating Width:	350mm
Coating Methods:	Comma Blade Coating+ Micro Gravure Coating
Mesh Volume:	80 Twill Weave
Doctor Blade Lifting:	
Coating Thickness:	0.005-5MM
Coating Accuracy:	uniformity $\pm 3\%$
Thickness Adjustment:	Digital Micrometers
Coating Speed:	0.02-3 m/min (Depending on the glue drying condition)
Solution Feeding Methods:	Compressed Air Tank
Rewind and Unwind Diameter:	300mm
Rewind and Unwind Airshafts:	3-inch Airshaft
Oven Segmentation:	3 Sections (2M total)
Temperature Segmentation:	
Oven Material:	Stainless Steel 304 (Oven Chamber)
Oven Roll:	Made of Stainless Steel 304
Oven Temperature:	Ambient to - 200°C (Can be Constant Temperature)
Heating Methods:	Electric Heating by Stainless Steel Tube Heater

Oven Structure	
Oven Fan:	Speed Adjustable
Oven Insulation:	Asbestos Insulator
Wind Speed Control:	Speed Adjustable
Oven Elevating Unit:	Double Cylinder Elevating
Exhaust System:	Centrifugal Fan (External Ports 100MM)
Cooling	
Post Lamination:	
Electric Motor Control:	Inverter (Controlled by Delta PLC)
Tension Control System:	Tension Adjustable
Web Guiding Device:	Automatic Rewinding Deviation Correction
Power Source:	Input Voltage: AC380V, Voltage of Control Units: AC24V
Power Capacity :	10KW (Peak Value)
Air Source:	
Machine Dimensions:	
Machine Weight:	
Notes:	The overall coating machine length is no more than 2.5M



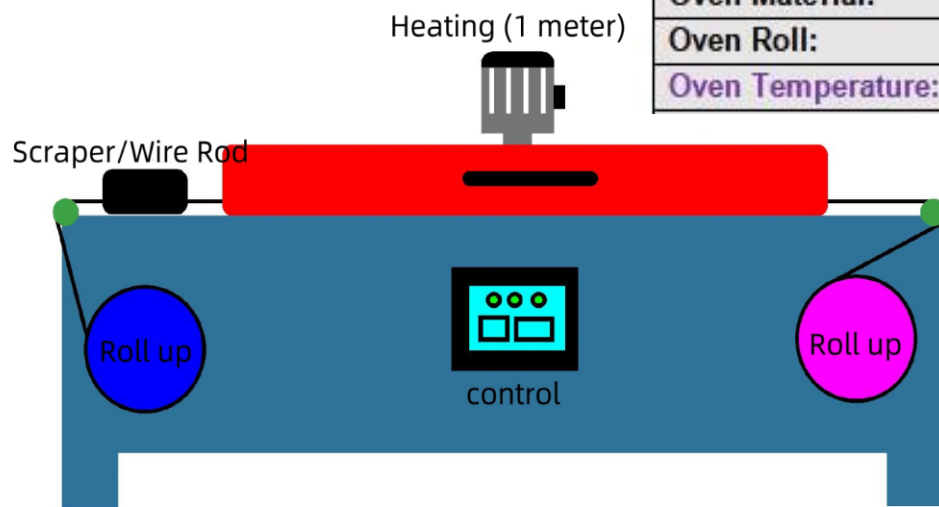
MS-HGD300 Automatic Coating Machine Specifications

Product Name:	
Applications:	
Substrates:	
Control System:	PLC Control System
Man-Machine Interface:	10-inch Touch Screen
Coating Width:	600MM (Max Substrate Width: 650MM)
Coating Methods:	Comma Blade Coating / Micro Gravure Coating 150 Mesh
Doctor Blade Lifting:	Pneumatic lifting
Coating Thickness:	Knife 0.01-2MM (Wet Thickness)
Coating Uniformity:	<5%
Thickness Adjustment:	Digital Micrometers
Coating Speed:	1-20 m/min (Depending on glue drying condition)
Adhesive Dispensing System:	Automatic Feed (Air Pressure)
Rewind and Unwind Diameter:	300mm (Loading Capacity: 100KG)
Rewind and Unwind Airshafts:	3-inch Airshaft
Electrostatic Eliminator:	
Drying Oven Length:	“回” Shape (10M)
Temperature Segmentation:	
Oven Material:	
Oven Roll:	Driven Roll made of Stainless Steel 304
Oven Temperature:	Ambient to - 150℃
Heating Methods:	Electric Heating
Tube Heater:	Adopted Stainless Steel Finned Tube Heater
Oven Fan:	Speed Adjustable
Oven Insulation:	
Wind Speed Control:	
Oven Elevating Unit:	Pneumatic Automatic Lifting
Exhaust System:	Adjustable Wind Speed (Reserved Dia.100MM Interface Port)
Cooling	
Post Lamination:	Automatic lamination (Rubber Roll +Steel Roll)
Motor Type:	3-Phase Variable Frequency Motor
Tension Control System:	Automatic Tension Adjustment (Adjust According to the Web Tension Required)
Web Guiding Device:	Automatic Deviation Correction for Unwinding and Rewinding
Power Source:	380V 50Hz
Power Capacity:	60KW
Air Source:	0.7Mpa



MS-LY100 Laboratory Coating Machine Specifications

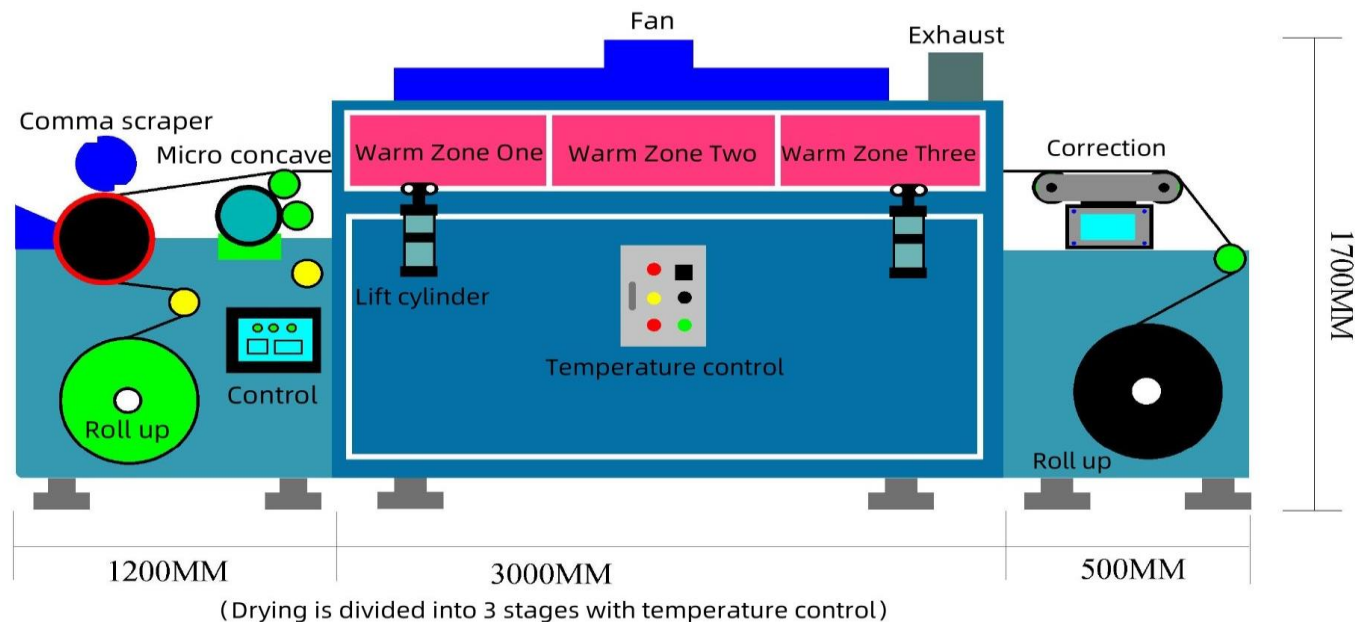
Product Name:	MS-LY100 Laboratory Coating Machine
Applications:	
Substrates:	
Control System:	Self-developed by BoSen
Man-Machine Interface:	5-inch Touch Screen
Coating Width:	100mm
Coating Length:	Digital Preset
Coating Methods:	Doctor Blade/Rod (Doctor Blade Standard, Rod Optional)
Material of Doctor Blade :	Made of Hard Alloy Material (Easy to Dismantle for Cleaning)
Doctor Blade Lifting:	
Coating Thickness:	0.01-3mm (Wet Thickness)
Coating Uniformity:	± 6%
Thickness Adjustment:	
Coating Speed:	1-5m/min (Digital Preset)
Solution Feeding Methods:	Manual Feed
Adhesive container:	With Built-in Adhesive Box
Rewind and Unwind Diameter:	
Rewind and Unwind Airshafts:	
Drying Oven Length:	1M
Temperature Segmentation:	
Oven Material:	
Oven Roll:	
Oven Temperature:	Ambient to - 150 °C



MS-ST1000 Automatic Coating Machine Specifications

Product Name:	
Applications:	
Substrates:	Film Coils with 0.05-0.1mm Thickness
Control System:	Self-developed by BoSen
Man-Machine Interface:	10-inch Touch Screen
Coating Width:	1000mm (Effective)
Coating Methods:	Comma Blade Coating + Micro Gravure Coating
Doctor Blade Lifting:	Automatic Clutch (Pneumatic)
Coating Thickness:	0.005-1MM
Coating Accuracy:	Deviation ± 2 Microns
Thickness Adjustment:	Digital Micrometers
Coating Speed:	0.5-3 m/min (Depending on the glue drying condition)
Adhesive Supply Methods:	Peristaltic Pump
Rewind and Unwind Diameter:	400mm
Rewind and Unwind Airshafts:	3-inch Airshaft (Tile-type)
Drying Oven Length:	3M (1M per Section, Independent Temperature Control)
Temperature Segmentation:	
Oven Material:	Stainless Steel 304 (Oven Chamber)
Oven Roll:	Made of Stainless Steel 304
Oven Temperature:	Ambient to 250°C-290°C-330°C (Three Temperature Zones)
Heating Methods:	Electric Heating by Stainless Steel Tube Heater

Heating Control:	Thermocouple Sensor (Touch Screen Temperature Controller)
Oven Structure	Tiled
Oven Fan:	Speed Adjustable
Oven Insulation:	Asbestos Insulator (Outer Surface at Normal Temperature)
Wind Speed Control	Speed Adjustable
Oven Elevating Unit:	Double Cylinder Elevating
Exhaust System:	Centrifugal Fan (External Ports 100MM)
Cooling:	
Post Lamination:	
Electric Motor Control:	Inverter (Controlled by Delta PLC)
Tension Control System:	Adjustable
Tension:	6-20N
Web Guiding Device:	Automatic Deviation Correction
Power Source:	Input Voltage: AC380V, Voltage of Control Units: AC24V
Power Capacity:	15KW (Peak Value)
Air Source:	0.55Mpa~0.7Mpa
Machine Dimensions:	
Machine Weight:	
Sales Price Range:	
Notes:	Machine Operations Order from Left to Right





High-Energy Intelligent Control (Xiamen) Machinery Equipment Co., LTD

GAONENG

FOCUS ON LABORATORY COATER MANUFACTURE

On the way of laboratory coater develop, we are always accompany with customer.

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