Vigor

PECISION
coating equipment

coating process
DESIGNER

Suzhou Vigor Nanotech Co.,Ltd.

Promote the development of coating industry with intelligent technology
Grow to the leader of precision coating equipment industry.

COMPANY INTRODUCTION

Suzhou Vigor Nanotech Co., Ltd. is a technology innovation R&D company that is focused on the development of high-precision coating process, coating equipment manufacturing and application. Our company is founded in 2016 and located in Suzhou Industrial Park (SIP) in Jiangsu Province of China.

"Vigor Nanotech" has a professional R&D team composed of "Thousand Talents Program Experts" , PhDs, Masters and coating technology experts. By inheriting the spirit of "Striving for perfection and forge ahead" of Vigor Technology Group, we have developed and further improved the lab-scale and R&D high-precision slot-die equipment, with both coating die-movement and platform-movement modes. We also design and manufacture the high-precision roll-to-roll coating equipment for pilot-scale industrial production. Considering the requirement of high-precision coating process, we have accordingly developed the air flotation dryer, on-line measuring system for film thickness, and detecting system for film quality , which are perfectly suitable for nano- and micro-scale film drying applications. Our Vigor team always believes that "intelligent coating" will definitely bring a bright future for the evolution of precision coating industry.

"Vigor" always persists with the business philosophy of "technological innovation, cooperation and win-win". Meanwhile, we closely trace the progress of global coating industry and bring together industry professionals and experts; with our insight into the developing trend of nanomaterials, our control of the key coating process optimization, and our experience accumulation of intelligent equipment manufacturing, we could greatly strive forward in the manufacturing industry of precision coating equipment.

APPLICATION

1	Future Clean Energy: Perovskite,CIGS,Lithium Battery,Hydrogen Fuel Solar Cell Film		
2	Optical film	3	Flexible printed circuit
4	LCD、OLED	5	Super capacitor、Biological sensor
6	Paper	7	Water treatment functional membrane
8	Tape protective film	9	Food, Medical etc. Package

PRODUCT INTRODUCTION

High-Quality slot-die equipment

Substrate width (mm)	10-220
Coating speed (m/min)	0.1-5.0
Thickness of wet film (um)	5-100
Uniformity of film thickness	5-7%
Solid content	1-70%
Viscosity	1-10000
Temperature (℃)	20-150

Precision slot-die equipment

Substrate width (mm)	10-200
Coating speed (m/min)	0.1-5.0
Thickness of wet film (um)	5-100
Uniformity of film thickness	<4%
Solid content	1-70%
Viscosity	1-10000
Temperature (℃)	20-150

Auto-High-Quality slot-die equipment

Substrate width (mm)	10-220
Coating speed (m/min)	0.1-5.0
Thickness of wet film (um)	5-100
Uniformity of film thickness	5-6%
Solid content	1-70%
Viscosity	1-10000
Temperature (℃)	20-150

High-Precision slot-die equipment

Substrate width (mm)	10-300
Coating speed (m/min)	0.05-3.0
Thickness of wet film (um)	5-100
Uniformity of film thickness	<4%
Solid content	1-70%
Viscosity	1-10000
Temperature (℃)	20-150

Multifunctional coating system

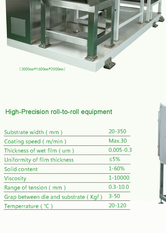
Through the function integration of the coating equipment and glove box, the high-precision coating tasks and the following sample characterization can be completed in the environment with strictly controlled levels of water and oxygen. The integrated system has the following functions:

① Cleanliness control ② mironmental atmosphere control ③ Coating treatment

④ Heating and curing treatment ⑤ Film thickness measurement ⑥ Surface morphology characterization

SLOT-DIE RESULTS

High-Precision roll-to-roll equipment



Roll-to-Roll coating process plays a key role in the production of functional thin films in frontier industry.

"Vigor Nanotech" Roll-to-Roll coating equipment is featured with high-precision and high efficiency . By effectively integrating the slot die, micro-gravure, and blade coating unit with air floatation dryer, it can meet the needs of various scale production. And this technology can also be widely used in new energy materials, flexible electronic printing, display, and photo-electric thin film manufacturing field.

High-Precision roll-to-roll equipment

Substrate width (mm)	20-350
Coating speed (m/min)	Max.30
Thickness of wet film (um)	0.05-0.3
Uniformity of film thickness	±5%
Solid content	1-60%
Viscosity	1-10000
Range of tension (mm)	0.3-10.0
Grap between die and substrate (Kgf)	3-50
Temperature (℃)	20-120

Business net work

● H Q ◆ Branch ● Office ● Distributor

Intelligent coating

Other business

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