

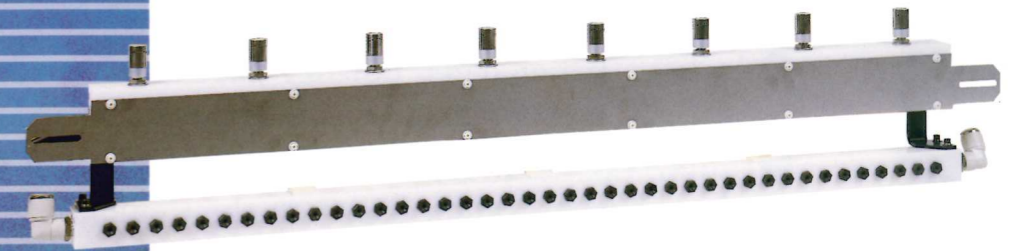
Electrostatic anti-blocking powder spray system

# EPS SOLUTION

Electrostatic Powder Spray Solution

※Patent pending

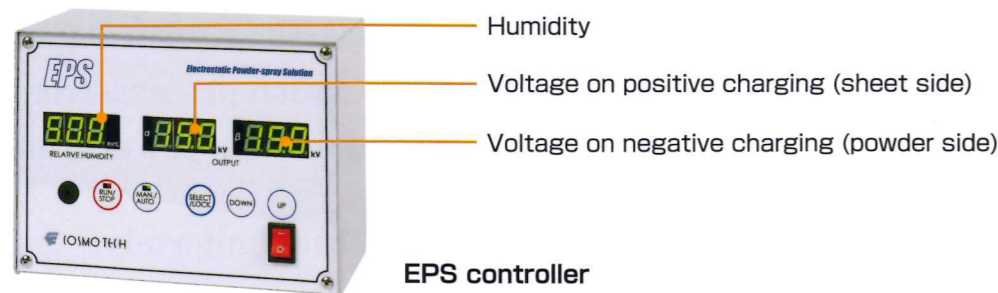
*Significant reduction of powder consumption*



## Specifications

Name	Electrostatic Powder Spray Solution			
	EPS Solution			
Model	EPS-6	EPS-8	EPS-10	
Press	26" & 28/29"	32" & 40"	44" & 50"	
Equipment Structure	●CHP- Main Body+ Electric Box+ Spray Bar+ Blower pump (for sprayer) ●EPS- Controller+ Drive box+ Charging bar+ Ring blower (for charging)			
Quantity Control	By metering roller			
Control Method	Automatically controlled according to printing speed (Corresponding Speed: 3000 to 20000 sheets/ hour)			
Charging Method	●Positive charging (on printing sheet) ... Spraying positive ion (noncontact) ●Negative charging (on spray powder) ... Contact charging			
Power	●CHP- 3-phase 200V ●EPS- Single-phase 100~264V			
Current	App. 7.2A	App. 8.8A		
Power Capacity	App. 2.5KVA	App. 3.1KVA		
Dimensions (WxLxHmm)	Main Body	320x200x420		
	Elec. Box	250x100x225		
	Spray Bar	790/830x52x111	930/1130x52x116	1230/1410x52x121
	Blower Pump	467.4x290.4x353.9	630x328x342.9	
	EPS Ctrl.	187x90x139		
	Drive Box	380x104x240		
	Charging Bar	766/814x42x54	910/1126x42x54	1198/1390x42x54
	Ring Blower	500x320x345.9		

※We support extension for installed spray powder systems CHP-3, CHP-21, CHP-2.



EPS controller

⚠ Specifications and appearances of products are subject to change without notice.



12-2 Fukakusa Zendoji-Cho. Fushimi-ku, Kyoto, 612-8433, Japan

Tel : +81 75 621 7431  
Fax : +81 75 621 7473  
Web : <http://www.cosmotech-jp.com>  
E-mail : KYOTO@cosmotech-jp.com



Registered establishment: Cosmotech Co., Ltd. headquarters and Kyoto Factory.  
Registered coverage: Design, development, manufacturing, sales, installation and maintenance of peripheral equipments for printing and book binding. Equipments certified according to ISO 9001 are fountain solution refrigerating circulator, roller chiller, powder spray system, fountain solution filtration system and double sheet detector.

●Distributor

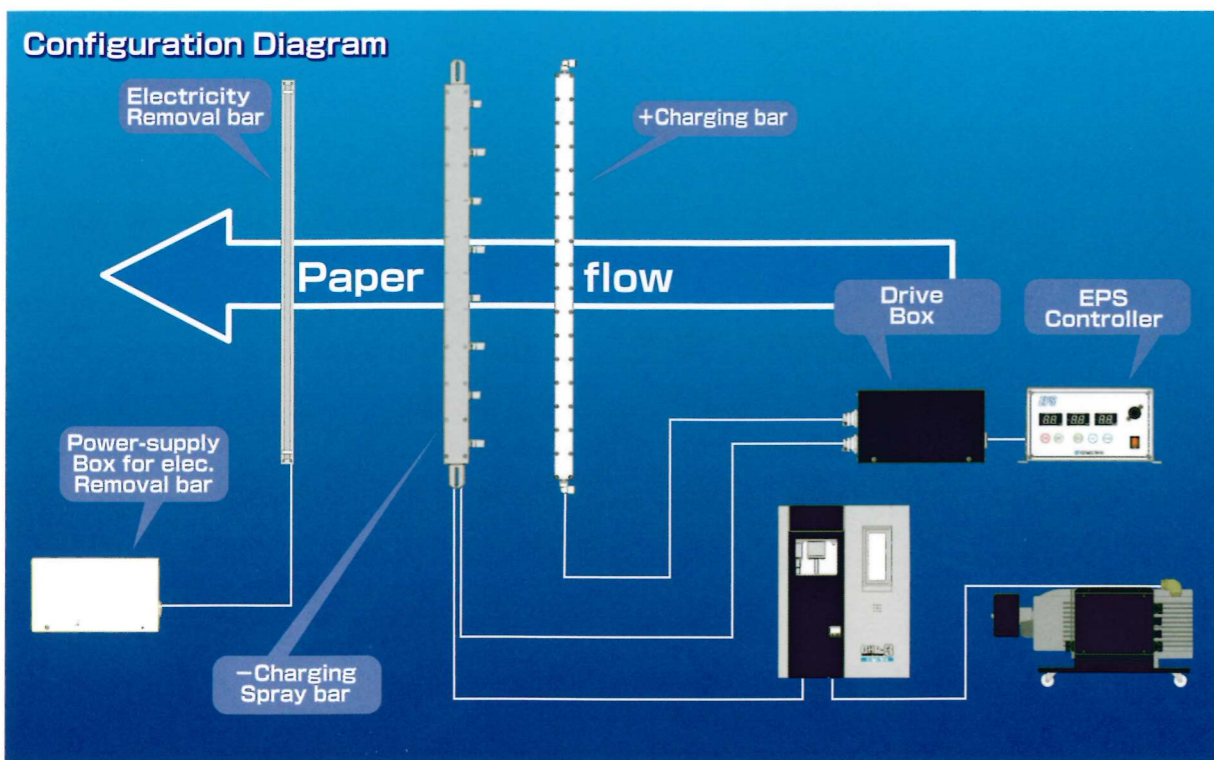


# EPS SOLUTION

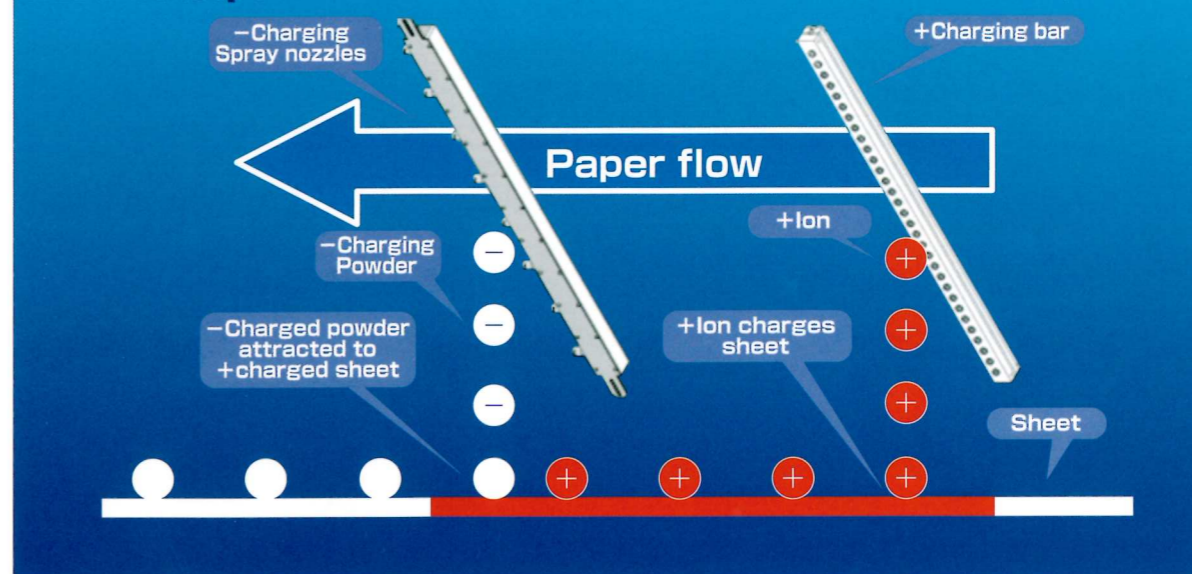
- Significant upgrade from conventional system
- Improved powder adhesion with the Coulomb force
- Charged voltage adjustable according to humidity inside the press.

## EPS Outlines

- Charging powder and sheet oppositely to make them attractive to each other and improve powder adhesion efficiently. In addition, powder being charged adheres to sheets more effectively.
- As negative charged powder particles are repulsive to one another, powder disperses more uniformly on the sheet.
- Unlike the air pressure-based previous CHP models, EPS utilizes a brand new system based on the Coulomb force in addition to air pressure and achieve powder scattering and consumption reduction.
- To maximize Coulomb force's effect, EPS adjusts for charged voltage to humidity inside the printing press.



## Basic Concept



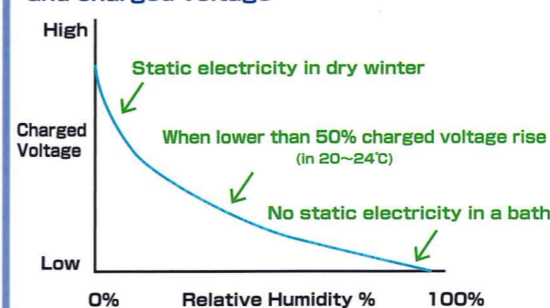
## New features

- Spray positive ion onto sheet (noncontact) and sheet will be positively charged.
- Give the powder particles an electric charge (no risk of corona discharge)
- Adjust voltage applied to humidity inside the press (auto adjust positive and negative side individually)

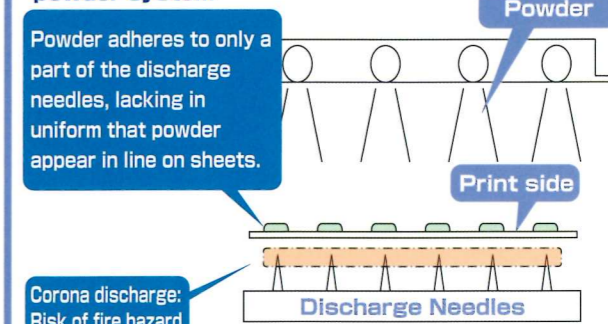
## Special features

- No contact with sheet throughout the operation process- trouble-free
- Significant reduction in power consumption as powder and sheet attract each other and adhere uniformly.
- With charge interaction powder adhere sheet uniformly.

## Correlation between relative humidity and charged voltage



## Problems of conventional electrical-charged spray powder system



※ To achieve safe and consistent charging effect, adjust charged voltage according to humidity inside the press.