



Technology makes coating smarter

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# SuperGun MG01 Manual Gun

110kV easily handle all the product



Electrostatic Powder Manual Coating Solutions  
Born for Flexible & Convenient, Superior Coating, Economical Use



# SuperGun MG01

Easily handle complex coating problems  
Flexibility, convenience, excellent coating,  
economic use

Zeheng MG01 manual gun features China's leading patented 110kV High-performance cascade and advanced precision control for enhanced productivity. Its innovative design ensures durability, while intuitive manual operation simplifies and efficiently deals with various coating problems!

## 6 Advanced Advantages, Makes MG01 Different

### 110kV

High-performance cascade

### CVC

Constant voltage control for a more stable transfer process

### MCC

Micro-current control, precise penetration into grooves

### PFC

Precise flow control for uniform film thickness

### IP64

Sealed, dustproof and more durable

### Various

Application methods, more scenarios

# Easy to use Start the new experience of manual coating



**4000h**

Experimental  
certification



**IP64**

Dust and water  
resistance



**CONTINUOUS**

Production

## ○ Ergonomic, comfortable to grip



The gun is designed with a professional center of gravity, a unique elevation angle and a well-balanced grip that is ergonomically designed for a comfortable grip and maneuverability.

Ensure a comfortable experience for operators during long-term continuous production processes, with easy and smooth use, ensure consistency of coating.

## ○ Tough material for any environment



The coating gun features a high-strength polypropylene exterior with an integrated anti-wear design for durability and reliability in harsh environments, reducing maintenance costs.

Its industrial-grade body meets IP64 dustproof standards, ensuring easy cleaning, fast maintenance, and easy to cope with production.



## ○ Convenient control for better efficiency

Unique trigger control design, easy to press, instant start/stop in milliseconds. A double-click enables continuous coating, reducing operator fatigue.

The external touch button allows quick mode switching and access to preset programs for enhanced convenience.

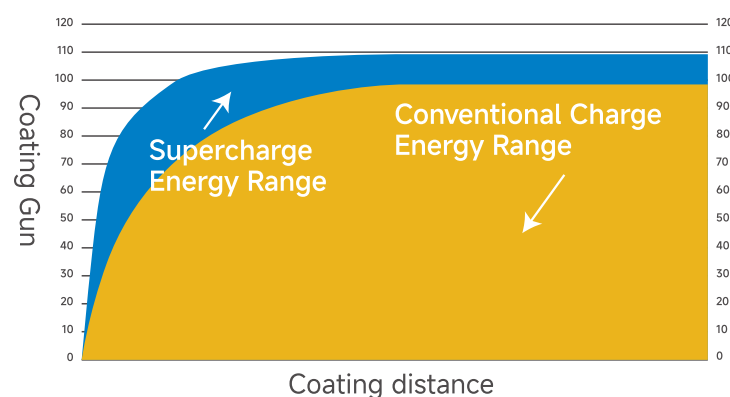
Patented high-voltage Tech. SuperCharge

## Maximum 110kV Rapid charging Strong electrical power for faster productivity boost

MG01 uses the China's pioneered 110kV high-performance cascade, which exceeds the traditional charging capacity and adapts to any type of powder. It can charge more powder at one time during the coating process, with better transmission speed and faster powder application, easily improving coating efficiency.



Comparison of the energy range of supercharge and conventional charge



Under 110kV mode  
coating a 2m<sup>2</sup> flat plate only needs 60s,  
with a film thickness of 80μm



**Larger**  
coating area



**Higher**  
production  
efficiency



**Faster**  
conveying  
speed

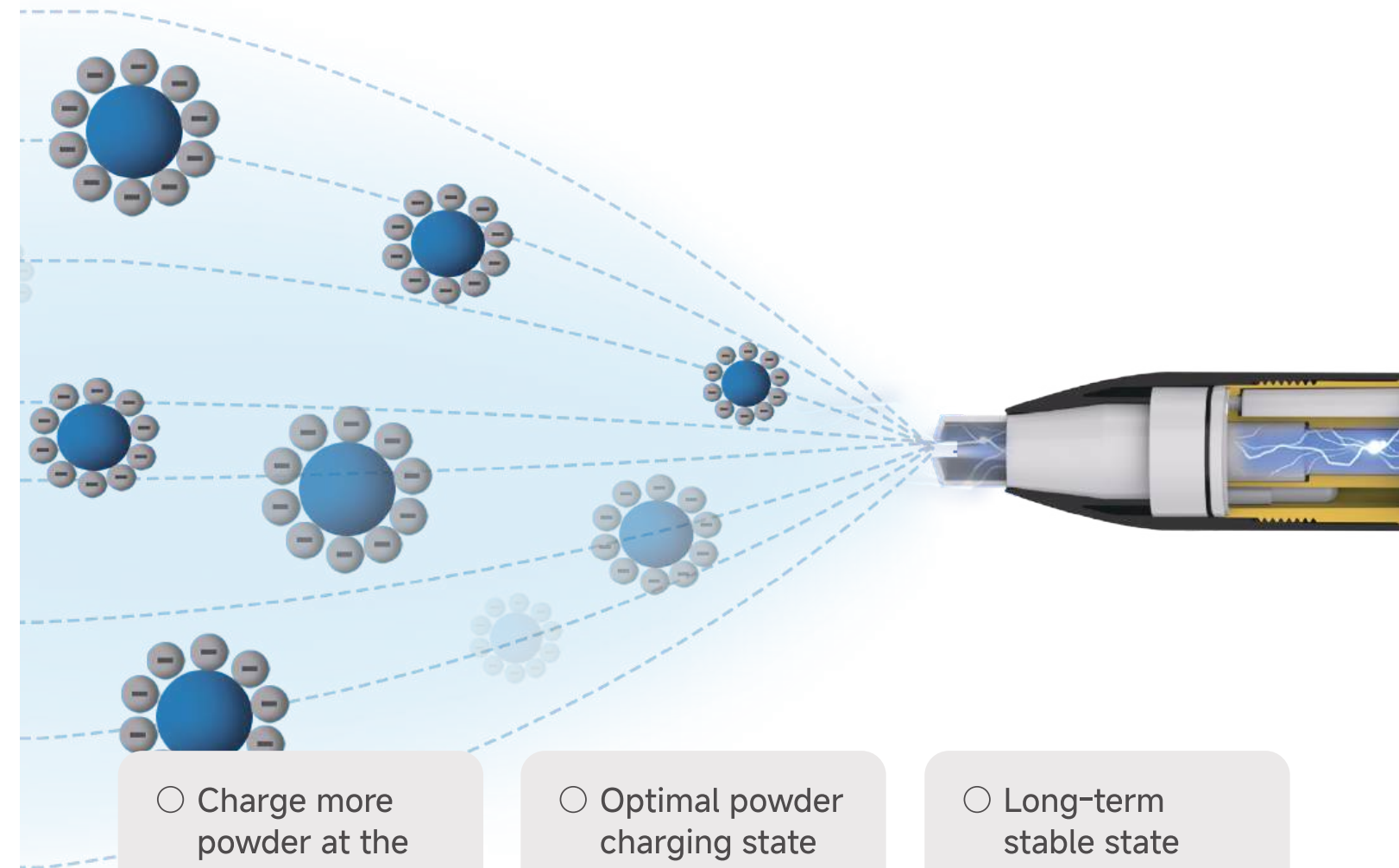


**Adapt easily**  
Powder types  
(metallic powder)

Under the same production demand,  
use MG01



## Better powder coating condition Higher coating efficiency



### ○ Charge more powder at the same time

110kV high-performance cascade fully and efficiently releases static electricity, forming a stronger electric field, so that the powder obtains a stronger charge and improves the adsorption of the powder to the workpiece

### ○ Optimal powder charging state

Constant voltage control technology, during the coating process, the voltage and gas path are constant and intelligently optimized, without reducing the pressure throughout the process, so that more powder can reach the optimal charging state.

### ○ Long-term stable state

The electrode three-time needle air intake self-cleaning technology is applied to keep the needle tip clean, static electricity release is long-lasting and stable, and the powder mist type is optimized

PFC precise flow control  
& MCC micro-current control

## High-precision penetration in grooves The coating film is uniform and comprehensive

### ○ MCC Micro-Current Control

Precise current control leads to a leap in coating quality

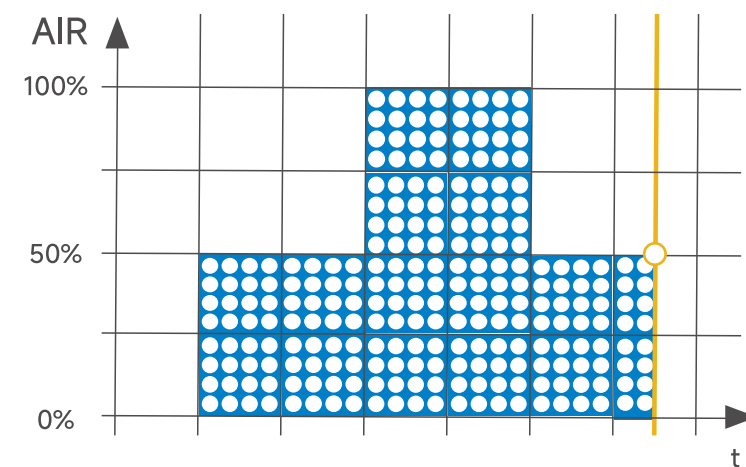
Designed for complex geometric product, it achieves precise charge control below  $10\mu\text{A}$ , adjustment rate as low as  $0.1\mu\text{A}$ , preventing overspray and ensuring uniform, attractive coatings, greatly enhancing coating precision and quality.



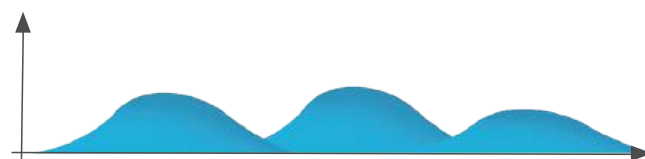
### ○ PFC Precise Flow Control

Precision powder flow control ensures uniform and excellent powder coating

Precise flow control offers high-precision powder flow control for adjustable powder output and coating speeds. It optimizes the flight path of powder particles and the coat pattern, resulting in more uniform and smooth coatings on workpieces.



Powder coating effect of traditional gun



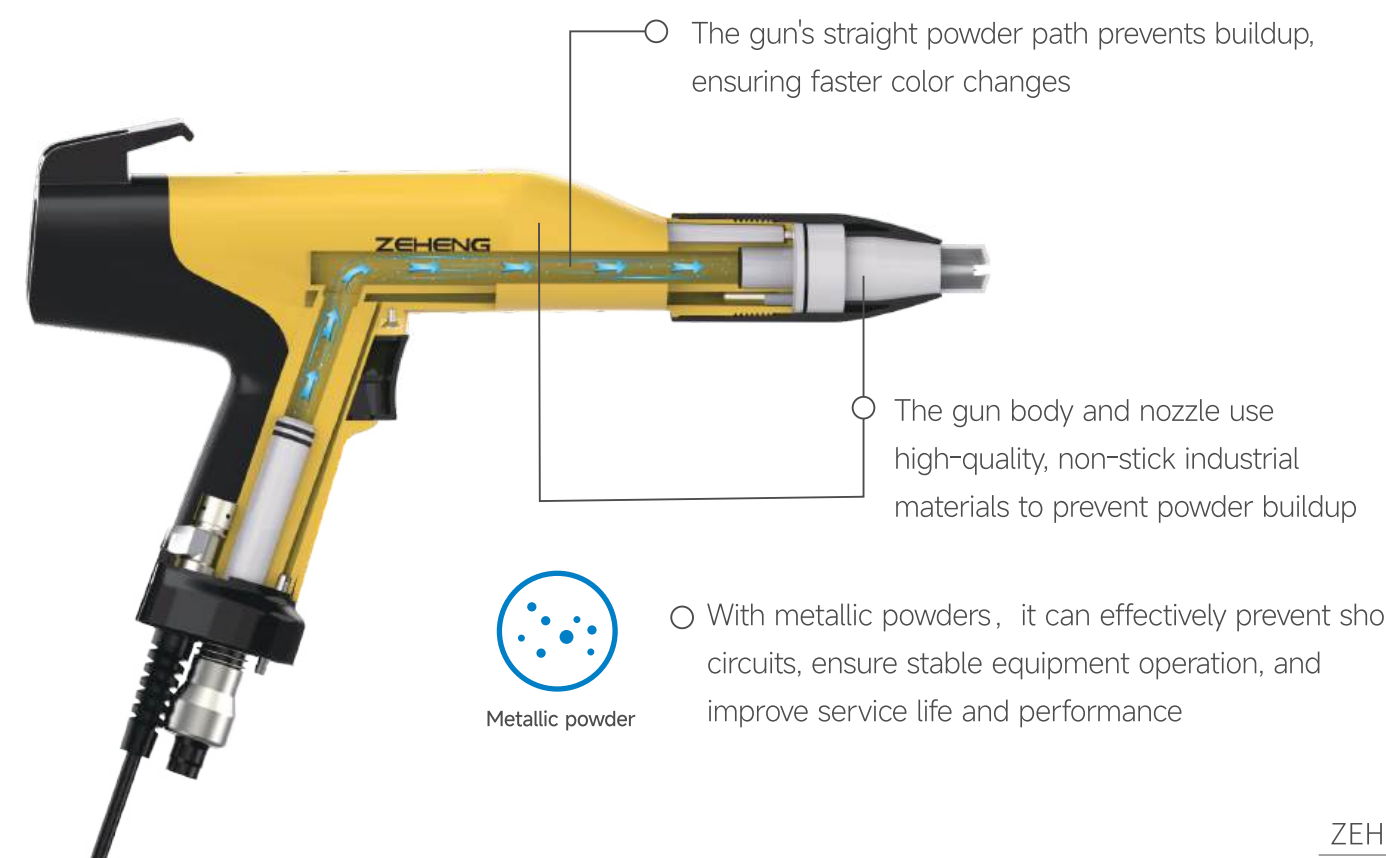
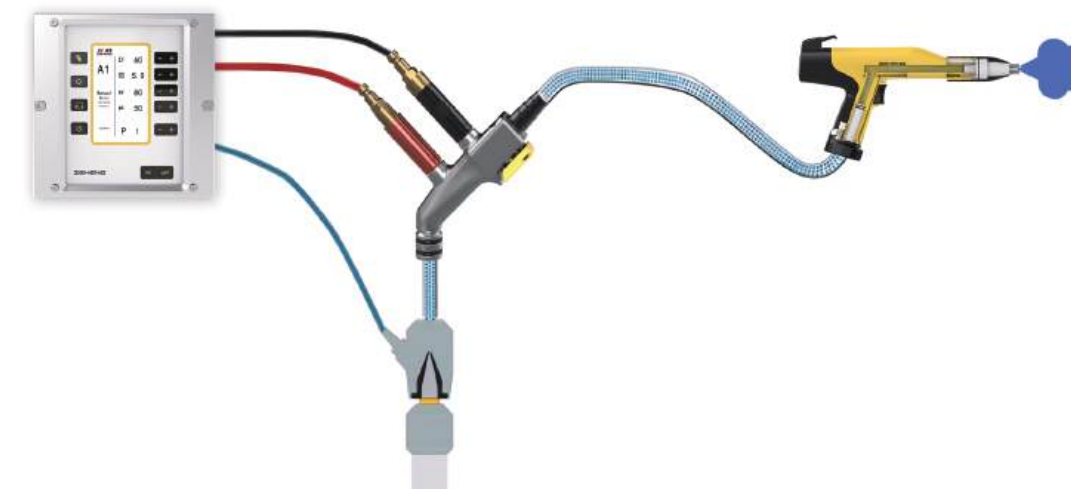
Powder coating effect of Zeheng gun



PowderClean self-cleaning

## Improve performance Quick and easy color change

With advanced self-cleaning technology, a single click clears the entire powder path, ensuring stable performance for challenging powders like metallic. It enables quick color changes, enhances efficiency, and supports stable production.



# SuperControl MGC01 Controller

Intelligent control for all-around excellence



**IP54**  
dust and water  
resistance



**Manipulation**  
simple and  
intelligent



**Multi-system**  
interconnectivity



**Customized  
development**  
personalized  
control system



## LCD display control, instant access

Digital display of electric and air settings, quick and smooth parameter adjustments, easy to operate and instantly accessible

## Customized system upgrades broaden production potential

Based on workpiece characteristics, equipment setup, and production conditions, we could provide personalized control systems to meet diverse production needs.



## Multi-purpose Optional powder pump

Three optional powder pump modes: Venturi pump, dense-phase single pump, dense-phase double pump  
Equipped with PFC powder flow control, MCC micro-current, and other advanced fine control technology

## Simple to use Smart and reliable

The one-touch quick cleaning function simplifies the coating gun maintenance process  
Built-in self-diagnosis system detects operating status in real time and immediately warns of potential problems

- 1. Page display switch
- 2. Hose cleaning
- 3. Mode selection
- 4. System parameter mode
- 5. Powder output
- 6. Total amount of air
- 7. High pressure
- 8. Coating power
- 9. Preset program



## Open integrated framework smart management

Supports PC and central control, enabling flexible remote management and monitoring  
Uses Ethernet for broad compatibility and seamless system integration



## Supports all powder types Intelligent parameter matching

Stores up to 30 coating recipes for precise, repeatable, and personalized coating  
Pre-set adjustable voltage and current ensure optimal coating for resin, metallic, and other powders



# Upgraded performance Varies configurations for all coating needs



## ○ Easy to upgrade

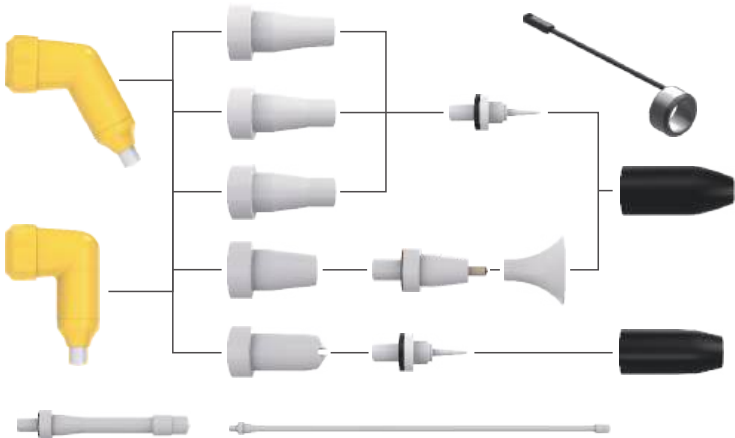
Supports flexible combinations with Venturi powder pumps and dense phase conveying pumps, enabling production line upgrades without changing the gun and easily adapting to future challenges.



Venturi pump 300g/min  
DP01 pump 450g/min  
DP02 pump 900g/min

## ○ Various accessories:

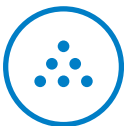
Equipped with Nozzles, Extensions  
Allows for coating diverse and complex geometric workpieces.



※ The picture shows some model accessories

## ○ Various powders

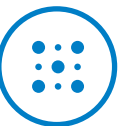
Better powder atomization under 110kV high voltage  
Meet the high-quality coating needs of different types of powders.



Resin powder



Metallic powder



Epoxy powder

## Variety of combinations Meet different applications

The MG01 can be mounted on a wall bracket for perfect integration with powder booth system and can be used at any time.

It can also be paired with various components like powder hoppers and cups, meets the needs of industrial production, lab, and compact spaces, offering versatile application advantages.



### Plus W General Asst

#### Multi-Solutions, Unlimited Integration

- The bracket mounts easily on the powder booth wall or production site, fitting into any environment
- Supports powder intake from a powder center's fluidized hopper or original box, adapting to production needs



### Plus F Continuous production

#### Suitable for Long-Term Continuous Use of The Same Powder

- 50L hopper supports continuous production without frequent powder refilling
- Compatible with various powder types, such as resin powder, metallic powder, etc



## Plus B Color Change Specialist

### Frequent and Fast Color Change

- Optimized for original powder box: The mobile cart's base fits directly onto the powder box, with a scratch-resistant, easy-to-clean surface
- Fast, clean color changes: Powder is fed directly from the box, minimizing changeover time and preventing contamination—ideal for frequent color changes
- Integrated fluidization: The tilted base is equipped with vibration function, achieving integrated fluidization and completely emptying the powder



## Plus S Powder Fluidization Asst

### Solution for Difficult-to-Fluidize Powders

- Unique stirring system: 18L stirring hopper ensures efficient powder fluidization
- Enhanced coating quality: Prevents powder separation, improves fluidization, and ensures uniform, stable coating
- Quick & clean color change: Flip-cover design for the hopper bottom, enables fast residual powder collection, residue-free cleaning, and reduced powder waste



## Plus C Lab Sample Asst

### High Demand & Small Batch Coating

- Special powder cup design: Self-fluidizing powder cup (150ml & 500ml) easily integrates with manual guns for flexibility
- Precision coating: Processes 20-250g of powder per minute, ideal for sample coating with high efficiency and ease of use



## Plus CF Lab Coating Asst

### Small-Batch & Quick Color Changes Coating

- Special funnel cup: 300ml & 600ml capacities for flexible small-batch coating
- Ultra-fast color change: change colors in 20s, boosting efficiency
- Visualized powder flow: Open-top design for easy monitoring of powder delivery



## Plus L Test Partner

### Ideal for Lab Use, Quality Testing

- Mini-hopper design: 4L movable hopper, easy cleaning and color changes
- Improved efficiency: Perfect for experiments and coating quality tests, boosting work efficiency

# Core component parameters



| Basic parameters of gun                 |                                                     |                                            |
|-----------------------------------------|-----------------------------------------------------|--------------------------------------------|
| Weight<br>0.55kg                        | Length<br>350mm                                     | Standard input voltage<br>12V              |
| Standard output voltage<br>100kV        | Maximum output voltage<br>110kV                     | Frequency<br>18kHz                         |
| Polarity<br>Positive/negative electrode | Applicable powder<br>Metal powder, polyester powder | Maximum Powder output<br>300g/min、900g/min |
| Level of protection<br>IP64             | Explosion-proof rating<br>21区 (GB)                  |                                            |

| Basic parameters of controller            |                                                             |                                         |
|-------------------------------------------|-------------------------------------------------------------|-----------------------------------------|
| Standard input voltage<br>100-240 VAC     | Standard output voltage (to spray gun)<br>12V               | Frequency<br>50-60Hz                    |
| Input pressure<br>5.5bar,6.0bar<br>6.5bar | Minimum input pressure (when equipment is in use)<br>5.5bar | Overall dimensions<br>173mm*250mm*177mm |

## Why choose Zeheng coating guns?

- **A deeper understanding of market demands**  
With 25 years in the powder coating market, Zeheng custom develops guns tailored to users'characteristics, ensuring every detail matches your usage habits.
- **Rich practical experience in production lines**  
Zeheng, certified by 2,700 customers and 1,000 production lines, has gained extensive on-site experience. We understand the nuances and pain points in different fields, enabling us to offer targeted solutions and comprehensive support.
- **More Economic high-performance production lines**  
Zeheng gun, developed from years of experience, deliver performance and quality on par with international brands. We offer top-tier technology at a more economical price, ensuring an exceptional production line experience with high cost performance.
- **Optimized product expansion potential**  
Zeheng prioritizes technological innovation in product development, integrating cutting-edge technologies like digitalization and AI. Our guns are designed for compatibility with future production line developments, making it easier to meet upcoming upgrade challenges.

