

Technology makes coating smarter

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The Zeheng AG01 features top technology, achieving the highest first pass T.E and increasing production capacity. This superior, cost-effective, and durable gun delivers optimal results for various workpieces and powders.

PFC

Precise flow control for uniform film thickness

stable tranfer process

IP64

Dust and water resistance for enhanced durability

Various

Powder pumps compatibility for wider applications 110kV high-performance cascade & Constant voltage control

The strongest ever, Significantly enhances powder coating efficiency

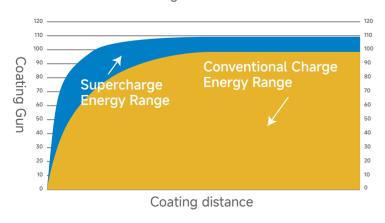
The AG01 features 110kV high-performance cascade and constant voltage pneumatic control. It enhances powder charging and maintains consistent voltage airflow during coating, significantly improving coating efficiency and achieving the highest fist pass TE, setting new industry records.

110kV
High-performance

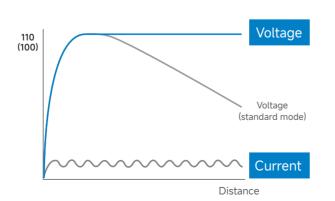
cascade



Comparison of the energy range of supercharge and conventional charge



CVC, constant voltage control applied to inorganic powder



For same production requirements using AG01 can reduce guns achieve faster coating speeds



Simultaneously charges more powder

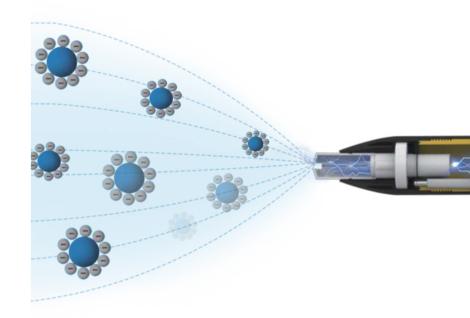
The 110kV high-voltage module efficiently releases static electricity, creating a stronger electric field that increases the powder's charge and improves adhesion to workpieces.

Optimal powder charging state

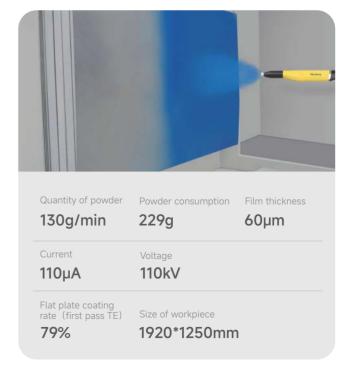
The constant voltage control keeps voltage and airflow stable and intelligently optimized during coating.preventing pressure drops and enabling more powder to achieve optimal charging.

○ Long-lasting stability

Electrode needle triple air intake self-cleaning technology maintains needle tip cleansing, long-lasting and stable static discharge, and optimize powder mist type



79% first pass TE for flat plate The highest in current Venturi coat systems.



^{*}This experiment is subject to environmental conditions, depending on the application.

More precise powder output, More uniform coating

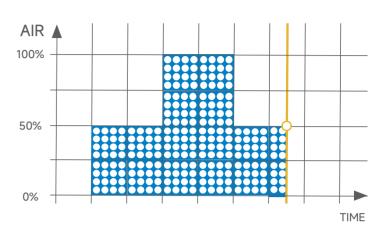




O PFC Precise Flow Control

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



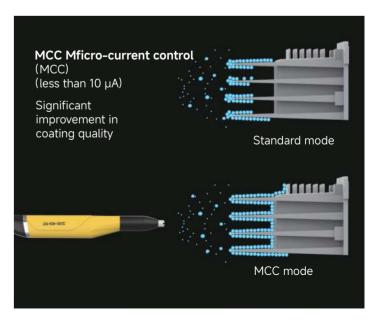
Powder coating effect of Zeheng gun



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 10µA, adjustment rate as low as 0.1µA, preventing overspray and ensuring uniform, attractive coatings, greatly enhancing coating precision and quality.



Various application scenes mastering any workpiece





○ 4000h experimental certification

Compact structure, sturdy and durable, easy to maintain



IP64 dust and water resistance

Equipped with IP64-level dust and water protection Suitable for harsh powder working environments



24h continuous operation

Constructed from high-wear engineering materials and quality components 24h uninterrupted operation, longer lifespan and greater reliability



Efficient self-cleaning

Features an air self-cleaning design and direct powder path Fast internal cleaning,efficient and pollution-free color changes

○ 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:

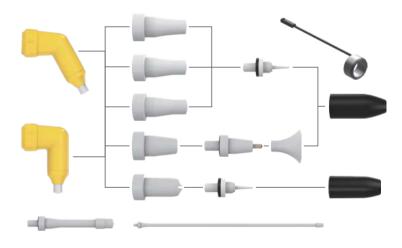
Equipped with Nozzles, Extensions
Allows for coating diverse and
complex geometric workpieces.
With 110kV high voltage support,
it offers a wider atomization range,
meeting coverage needs for various
powders.







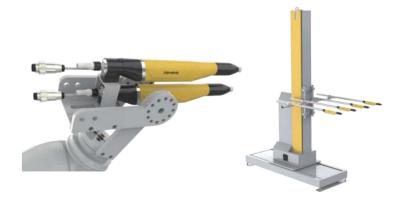




* The picture shows some model accessories

O Diversified installation:

Easily integrates into reciprocaters and robots, flexibly enabling various automated mechanical applications.



SuperControl AGC01 Controller

Multi-functional and precise control



MCC micro-current control



3 types of coating gun control



Multi-system interconnectivity



IP54 dust and water resistance



Customized development Personalized control system



Air supply and powder pump configuration

3 powder pump: Venturi pump, dense phase single pump, dense phase double pump

3 air supply modes provided: balanced, automatic independent, manual independent

Remote control and communication

Supports remote operation from PC and central control, flexible management and monitoring

Uses Ethernet technology, compatible with various protocols, easily integrates into various system environments

Intelligent management and user interface

Operation and

enhancement

manual gun, and enamel gun

the gun maintenance process

Allowing for multi-use:automatic gun,

One-click quick cleaning function simplifies

Fast formula storage function, precise and

repeatable calls of personalized coating

efficiency

formulas

Built-in self-diagnosis system for real-time monitoring of operating status, immediate alerts for potential issues

Supports bilingual display in CN-EN to meet the needs of users in different regions





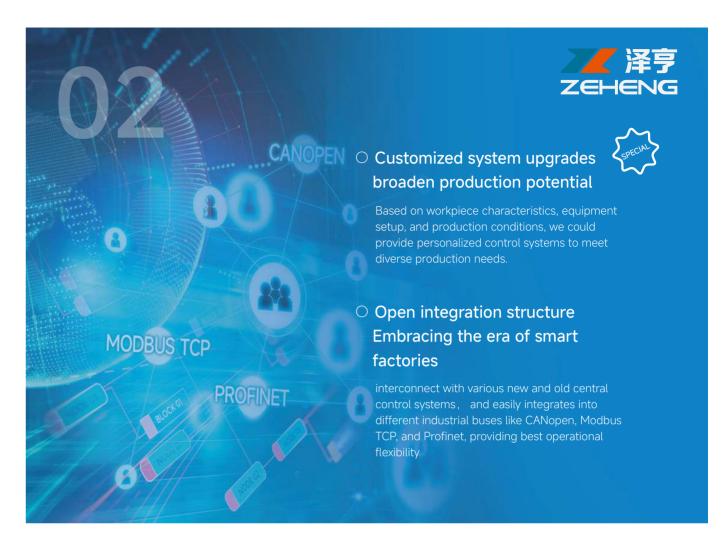
LCD display control, instant access

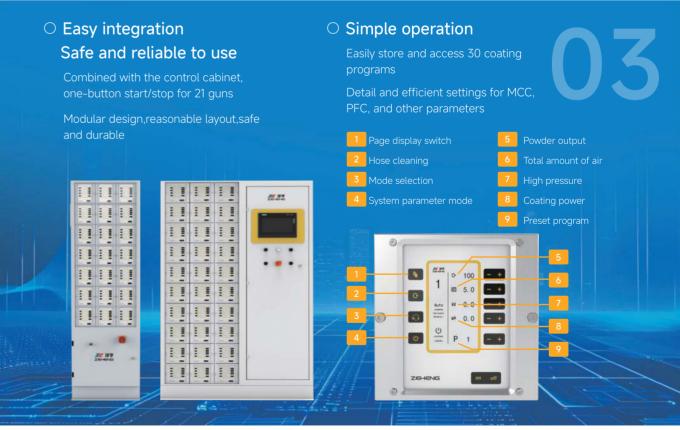
Digital display of electric and air settings, quick and smooth parameter adjustments, easy to operate and instantly accessible

Sturdy and durable, IP54 protection

Compact and sturdy structure, resistant to dust and water droplets, ensuring durability







Core component parameters

	Basic parameters of gun	
Weight 0.6kg	Length 530mm	Standard input voltage 12V
Standard output voltage 100kV	Maximum output voltage 110kV	Frequency 18kHz
Polarity Positive/negative electrode	Applicable powder Metal powder, polyester powder	Maximum Powder output 300g/min、900g/min
Level of protection	Explosion-proof rating 21区 (GB),ATEX	

Basic parameters of controller				
voltage	ard input e 40 VAC	Standard output voltage (to spray gun) 12V	Frequency 50-60Hz	
Input pressu 5.5bar	re ;6.0bar	Minimum input pressure (when equipment is in use) 5.5bar	Overall dimensions 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 Al. Our guns are designed for compatibility with future production line developments, making it easier to meet upcoming upgrade challenges.





ISO certification



ATEX certification



CE certification