

GCS喷枪控制系统

大规模喷枪部署的好帮手

GCS spray gun control system

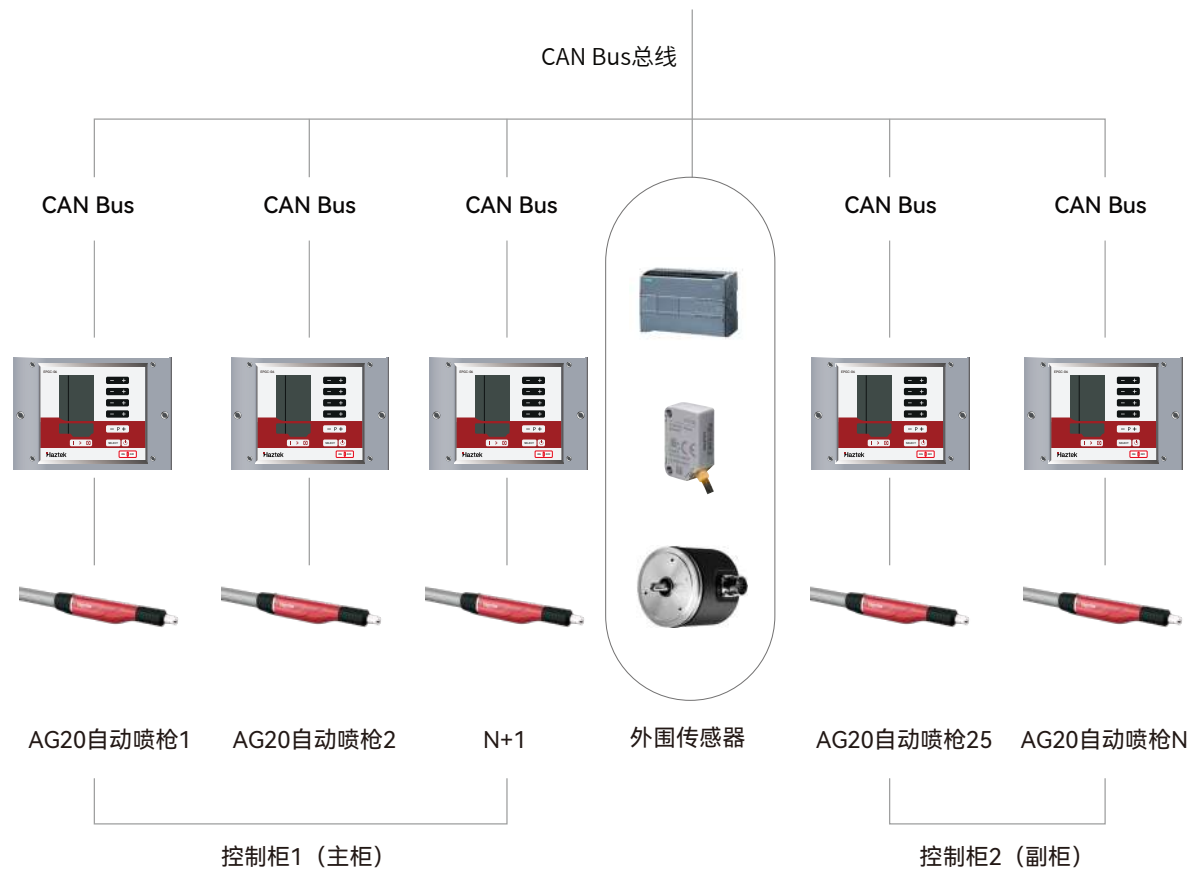
A great tool for large-scale spray gun deployment

直观且易于理解的人机交互界面；集中控制所有参数，并支持点对点的精准控制。可靠的CAN Bus通讯总线，最多可支持127个站点，可部署工作识别及远程维护系统，支持一键同步清理参数设定。

Intuitive and easy-to-understand human-machine interface; centralized control of all parameters and support for precise point-to-point control. Reliable CAN Bus communication bus, supports up to 127 stations, can deploy work identification and remote maintenance system, supports one-key synchronization to clean up parameter settings.



GCS喷枪集中控制系统



haztek
精益喷涂 成就卓越智造

Milepost里程碑 自动/手动喷涂系统

Automatic/Manual Spray Systems

打造超越欧美标准的中国喷枪

Building Chinese spray guns beyond Western standards.

智能系统集成

大规模喷枪产线部署专用

Intelligent Systems Integration

Specialized For Large-scale Gun Production Line Deployments

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降低成本/提升效率

reduce costs and increase efficiency

更高效的喷枪系统

有效解决大规模喷涂生产中的上粉难题

Milepost里程碑系列喷涂系统以其卓越的性能和高效的管理而著称，通过先进的GCS喷枪控制系统，实现了对喷枪群的高效管理。系统内置多种喷涂预设，能够一键应对各类复杂工件的喷涂挑战，极大降低了操作人员的技术门槛。通过简化操作流程，Milepost系列不仅提升了生产效率，还加强了涂装品质的管控。它通过降低人力成本和提高效率，实现了生产管理的优化，从而有效提升了企业的经营效益和增长潜力。

A More Efficient Spray Gun System Effectively Solving Powder Application Challenges in Large-Scale Coating Production

The Milepost series spray coating system is renowned for its exceptional performance and efficient management. Through the advanced GCS spray gun control system, it achieves effective management of the spray gun group. The system is equipped with multiple preset spray settings, allowing for one-click solutions to the spraying challenges of various complex workpieces, significantly lowering the technical threshold for operators. By simplifying the operation process, the Milepost series not only enhances production efficiency but also strengthens the control over coating quality. By reducing labor costs and increasing efficiency, it optimizes production management, thereby effectively improving the company's operational performance and growth potential.

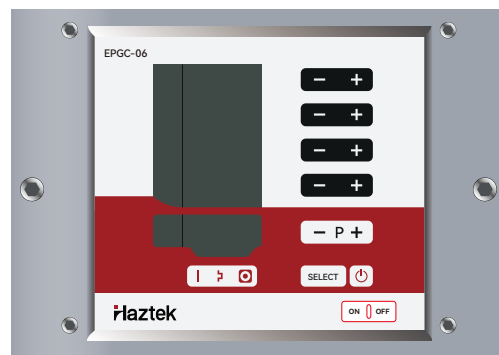
- **故障诊断系统**
Fault diagnosis system
- **集成 CAN Bus 工业总线**
Integrated CANBus industrial bus
- **内置能量控制安全系统**
Built-in energy control safety system
- **适用多种粉末及金属粉**
Suitable for a wide range of powders and metal powders



■ 智能、安全、稳定的控制器，集成故障诊断系统

内置250多个可编程喷涂程序和3个日常快捷程序，能够快速切换涂装工件种类，提高生产效率，减少耗材。DVC数字阀门技术可精确控制出粉量。液晶显示器参数清晰明了。同时，支持CAN Bus现场总线联网控制或脱离网络单独控制，支持外部I/O信号接入以实现外部控制。

The system comes with over 250 programmable spray programs and 3 daily quick-access programs, allowing for rapid switching between different types of painting workpieces, which increases production efficiency and reduces material consumption. The DVC digital valve technology can precisely control the powder output. The LCD display presents parameters that are clear and easy to understand. It also supports CAN Bus fieldbus network control or standalone control without a network, and it supports external I/O signal input for external control.



AG20自动喷枪

比肩国外高端品牌的品质与性能

AG20 Automatic Spray Gun
Comparable in quality and performance to high-end foreign brands.

70%以上上粉率及广泛的粉末适应性

内置100kV高性能倍压块，能够确保持续稳定的输出，从而实现极高的上粉率，并减少30%的粉末浪费，提高喷涂效率。可适用于大多数常见粉末，包括金属粉末，满足多种涂料需求。

Over 70% Powder Efficiency and Wide Powder Compatibility

Built-in 100kV high-performance pressure doubler block ensures constant and stable output, resulting in extremely high powder loading rates and 30% less powder waste, improving coating efficiency. Can be used with most common powders, including metal powders, to meet a wide range of coating needs.

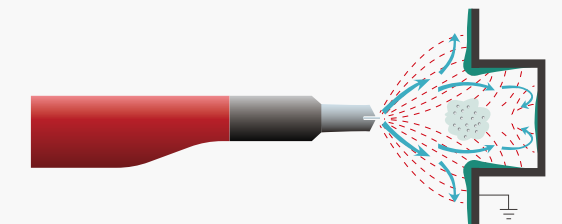


三次进气技术

电极针内部设计有三次清洁气通道，持续清洁电极针尖，有效防止粉末凝结，确保优良的静电释放效果。

Triple air intake technology

The electrode needle is internally designed with three cleaning air passages to continuously clean the needle tip, effectively preventing powder condensation and ensuring excellent electrostatic discharge.



解决死角问题，克服法拉第笼效应，效果更佳。
Solving the dead space problem and overcoming the Faraday cage effect has better results.

电极针使用寿命高达514小时

使用特氟龙材料，耐用性达到行业领先水平，文丘里管使用寿命120小时，包括粉泵等配件，性能完全不输进口品牌。
(注：按行业测试标准)

The electrode needle has a lifespan of up to 514 hours.

Using Teflon material, the durability reaches the leading level in the industry, the venturi service life is 120 hours, including powder pump and other accessories, the performance is completely no less than imported brands.

MG20手动喷枪 MG20 Manual Spray Gun

内置100KV高压模块，可适用于绝大多数常见粉末

Built-in 100kV high-voltage module, suitable for most common powders.

内置的100kV高效倍压块确保了持续稳定的输出，从而达到出色的上粉效果。且适用于绝大多数常见粉末，甚至对于那些难以充电的粉末涂料，它也能够实现高效的涂覆。此外，其抗磨损的设计和优先材料进一步降低了维护成本。

MG20具备优异的人体工程学设计，喷枪重量仅为510克，轻量化的同时仍保有超强的耐用性。其独特的仰角和手柄设计，长时间操作也不会感到疲劳。配备外置的远程触摸控制模块，使喷涂参数的调整变得轻而易举。双击扳机，即可迅速切换到预设的喷涂程序，大大提高了工作效率。

The built-in 100kV high-efficiency pressure doubler ensures a constant and stable output for excellent powder coating results. It is suitable for most of the common powders, even for those difficult to charge powder coatings, it can also realize efficient coating. In addition, its wear-resistant design and preferred materials further reduce maintenance costs.

The MG20 has an excellent ergonomic design and weighs only 510 grams, making it lightweight while still retaining superior durability. Its unique elevation angle and handle design allow for long hours of operation without fatigue. An external remote touch control module makes adjusting spraying parameters a breeze. A double-click on the trigger quickly switches to a preset spraying program, greatly improving work efficiency.



可搭载台车或实验型、挂壁型载具使用 Can be used with a cart or an experimental or wall-mounted carrier.

手动喷涂设备以其卓越的灵活性和适应性，在不同的应用场景中展现出独特的优势。移动型台车以其卓越的移动性脱颖而出，搭配220升的粉桶，使得大型工件的喷涂工作变得轻松便捷。实验型设备则搭配小型粉桶，以其小巧灵活的特性，适应多变的实验室环境和小型工件的喷涂需求。挂壁型的设计则考虑了空间利用，安装简便且节省空间，适合空间有限的工作场所。这些多样化的载具选择，确保了汉哲手动喷涂设备能够满足各种场景的需求，无论是在工业生产、实验室测试还是空间受限的环境中，都能提供高效、稳定的喷涂解决方案。

Manual spraying equipment shows unique advantages in different application scenarios with its excellent flexibility and adaptability. The mobile cart stands out for its excellent mobility, and with its 220-liter powder container, it makes coating large workpieces easy and convenient. The experimental model, with its small powder container, adapts to changing laboratory environments and the coating of small workpieces with its compactness and flexibility. The wall-mounted models are designed with space utilization in mind, making them easy to install and space-saving for workplaces with limited space. These diverse carrier options ensure that Haztek manual spraying equipment can meet the needs of various scenarios, whether in industrial production, laboratory testing or space-constrained environments, to provide efficient and stable spraying solutions.



移动型台车Milepost-F



实验型Milepost-FS



挂壁式Milepost-SE

PPH40粉泵 PPH40 Powder Pump

适用于快速换色和快速清理

Suitable for quick color changes and rapid cleaning



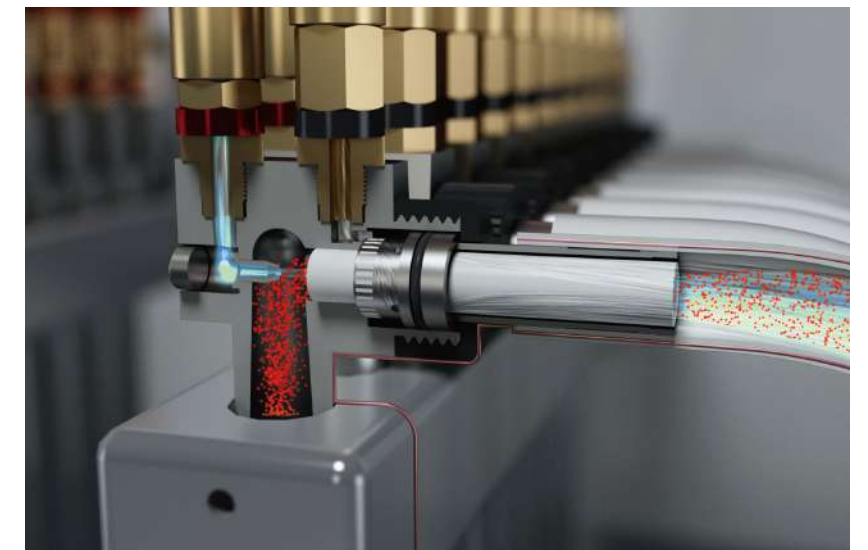
满足“即插即用”式功能，适用于快速换色和快速清理。粉管快插式设计便于粉管清洁的分离和连接。文丘里管由优质不粘材质制造，并配有连接压缩空气的快速接头。粉末最大可输出量为520g/min。

Meets the "plug and play" function, suitable for quick color changes and cleaning. Quick plug design for powder hoses to facilitate separation and connection for cleaning. The Venturi tube is made of high-quality non-stick material and comes with a quick connection for compressed air. The maximum powder output is 520g/min.

可从粉桶拆卸
带快拆式接头单向阀
经久耐用的文丘里管
供粉稳定
雾化效果佳
粉末最大可输出量520g/min

Function Advantages

Easy disassembly from the powder barrel
With quick-disconnect one-way valve
Durable Venturi tube
Stable powder supply
Excellent atomization effect
Maximum powder output of 520g/min



自动静电粉末喷涂系统参数 Automatic Electrostatic Powder Coating System Parameters

标准输入电压	100-250VAC	其他功能	
频率	50-60 Hz	Canbus 现场总线	支持
标准输出电压 (至喷枪)	12V	外部控制 (工件识别系统)	支持
标准输出电流 (至喷枪)	1.2 A	可喷粉末	
喷枪输出电压 (静电)	100kV	金属粉末	是
喷枪输出电压 (静电)	100uA	其他聚酯粉末	是
极性	负极	标准配置	
防护等级	IP54	粉管长度 (m)	4
温度范围	-40° C-85° C	粉管规格 Ø (mm)	11*17
压缩空气		粉管材质类型	POE 带导电条
输入压力	5.5-6bar	最大粉末吐量	500g/min
最大空气消耗量	8.5Nm³/h		



应用行业与项目案例

Applied Industries and Project Cases

Milepost里程碑是一套主打智能系统集成的喷枪系统，适用大规模、高产量涂装产线。智能化高、拓展性强，出品质量卓越，被广泛应用在多种高端领域，如建材、智能家电、新能源储能、片式散热器等行业。

Milepost is a spray gun system that focuses on intelligent system integration and is suitable for large-scale and high-volume coating lines. With high intelligence, strong expandability and excellent quality, Milepost Milestone is widely used in many high-end fields, such as building materials, intelligent home appliances, new energy storage, chip radiators and other industries.



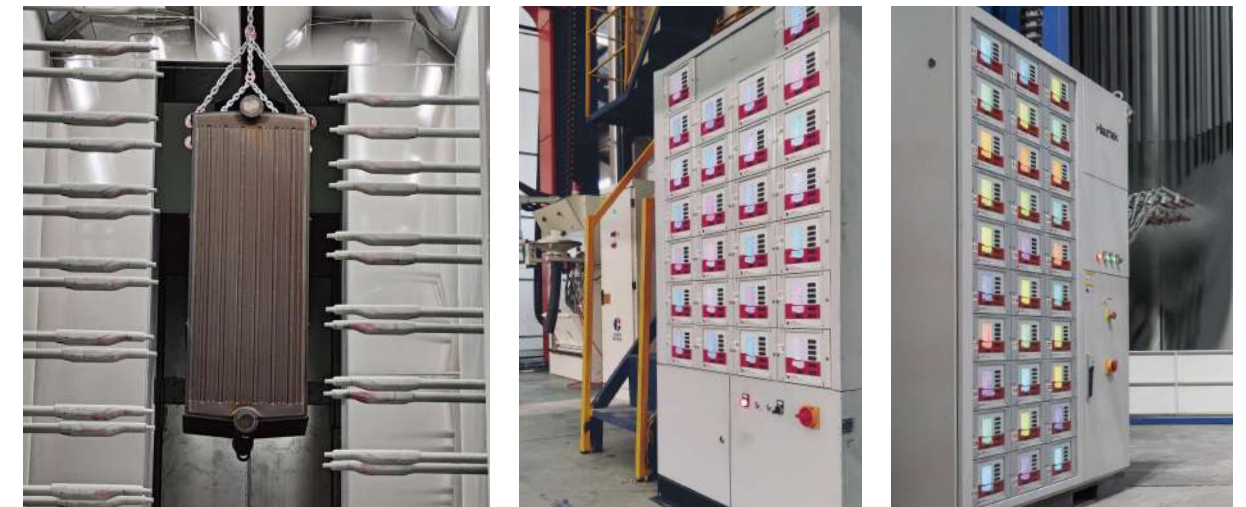
家居建材 Home Building Materials

片式散热行业 Flat Radiator Industry

智能家电 Smart Home Appliances

Milepost里程碑久经市场验证，在大规模产线上应用有非常好的口碑。同时具有多种粉末适用性、其中包括金属粉末。具备非常稳定的品质控制，深获各大企业青睐。

Milepost are proven in the marketplace and have a very good reputation for being used in large-scale production lines. It is also suitable for a wide range of powders, including metal powders. With very stable quality control, it has won the favor of major companies.



常州益众

江西东阳铝业

临西鸿盛铝业