

Create a benchmark brand of intelligent environmental  
protection transportation equipment

**打造智能环保输送装备全球标杆品牌**

Sincerity, dedication, responsibility, exploration, innovation, and altruism

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Huaibei Hezhong Mechanical Equipment Co.,Ltd.

**淮北合众机械设备有限公司**

## COMPANY PROFILE

Huaibei Hezhong Mechanical Equipment Co., Ltd located at No.6 Tengfei Road, Economic Development Zone, Duji District, Huaibei City, Anhui Province. Founded in January 2011, with a registered capital of 50 million yuan, it is a modern high-tech enterprise integrating the research and development, production and sales of environmental protection equipment and belt conveyor equipment.

Hezhong machinery to formulate the "running, spreading, dust" comprehensive management solutions have been used in coal, metallurgy, coking, ports, electric power, sand and gravel aggregates and other fields, and achieved good results, greatly improving and solving the site working environment problems and a variety of difficult and miscellaneous problems. Huaibei Hezhong has always been practicing the concept of safety, efficiency, green and low-carbon, escorting the unmanned guarding of conveying equipment, and helping the bulk material conveying system to realize the ultimate energy efficiency and green and low-carbon development!

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SINCERITY

DEDICATION

RESPONSIBILITY

EXPLORATION

INNOVATION

ALTRUISM

# Explosion-proof intelligent integrated electric control box

Product features:

\*Automatic operations such as automatic adjustment of blade pressure and automatic detection and alarm of blade wear can be realized.

\*PLC and touch screen are used for pressure detection, display, setting and control; the angle sensor inside the actuator is used to detect the blade wear and send out an alarm signal.



|                       |  |                             |                                |
|-----------------------|--|-----------------------------|--------------------------------|
| Product Name          | Explosion-proof intelligent integrated electric control box  | Product Material            | Stainless steel/aluminum alloy |
| Product Model         | BXM(D) Series  | Protection level            | IP65/IP66                      |
| Product Size          | Non-standard customization   | Installation location       | Indoor/Outdoor                 |
| Voltage               | 220V/380V  | Inlet/Outlet Direction      | Down in and down out           |
| Product Certification | CE   | Inlet/Outlet specifications | G1/2~G3/2                      |
| Explosion Proof signs | Ex db eb IIC T4/T6 Gb/Ex db eb IIB T4/T6 Gb/Ex tb IIIC T80°C Db  |                             |                                |
| Applicable Scenarios  | Coal mines, Power plants, Cement plants, Ports, Steel, Coking, Non-ferrous metals and other explosive and hazardous places |                             |                                |

**Note:** There are two types of intelligent electric control boxes: explosion-proof and non-explosion-proof. You can choose according to the actual usage scenario.



# Mine Flameproof And Intrinsically Safe Programmable Control Box

## Product features:

\*The control box adopts a flameproof structure design, which can prevent the explosion from spreading to the outside in the event of an internal explosion, ensuring the safety of the mine.

\*The control box is equipped with an intrinsically safe power supply, which will not produce sparks and thermal effects sufficient to ignite the surrounding explosive gas even under normal operation or specified fault conditions.

\*The control box is usually equipped with a programmable logic controller (PLC), which can realize complex control logic through software programming, simplify the control process, and improve the level of automation.



|                       |  |                             |                      |
|-----------------------|--|-----------------------------|----------------------|
| Product Name          | Flameproof and intrinsically safe programmable control box   | Product Material            | Q235 Steel           |
| Product Model         | KXJ-127 (H)  | Protection level            | IP65                 |
| Product Size          | 450mm*200mm*540  | Installation location       | Indoor/Outdoor       |
| Voltage               | 220V/380V  | Inlet/Outlet Direction      | Down in and down out |
| Product Certification | 127V   | Inlet/Outlet specifications | G1/2~G3/2            |
| Explosion Proof signs | Ex db [ ib Mb ] I Mb   |                             |                      |
| Applicable Scenarios  | Coal mines, Power plants, Cement plants, Ports, Steel, Coking, Non-ferrous metals and other explosive and hazardous places |                             |                      |

**Note:** There are two types of intelligent electric control boxes: explosion-proof and non-explosion-proof. You can choose according to the actual usage scenario.

# Electric actuator

## Product features:

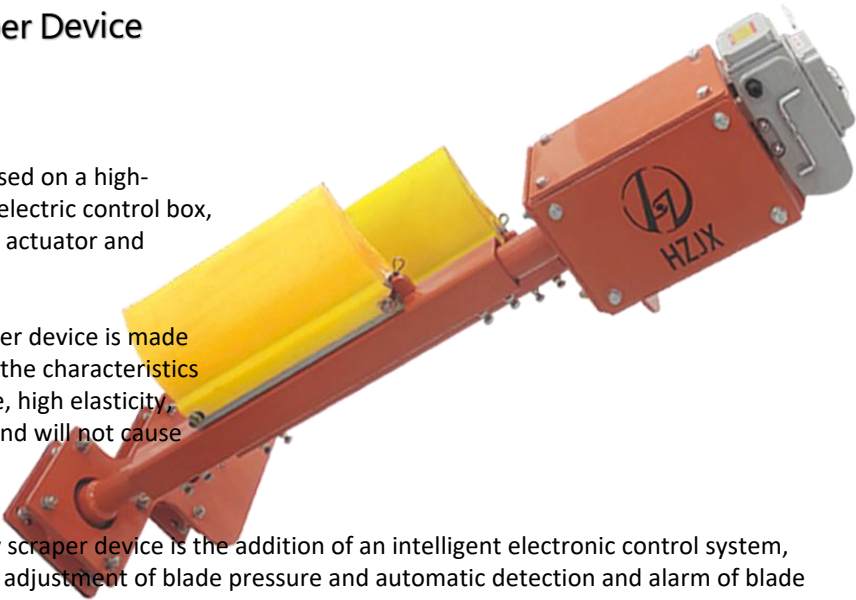
- \*The blade compensation can be automatically adjusted by the electric actuator according to the initial constant torque setting, without manual adjustment.
- \*It can effectively clean the residual materials on the conveyor belt surface, reduce manual labor and improve the on-site working environment.



# Intelligent Frequency Conversion Scraper Device

## Product Introduction (HZ-Z-G)

- \*The intelligent variable frequency scraper device is based on a high-reliability PLC and is equipped with an explosion-proof electric control box, explosion-proof torque sensor, explosion-proof electric actuator and intrinsically safe output power supply.
- \*The scraper of the intelligent variable frequency scraper device is made of specially modified polymer polyurethane, which has the characteristics of flame retardancy and antistatic, high wear resistance, high elasticity, acid and alkali resistance, and low friction coefficient, and will not cause damage to the conveyor belt.



The design feature of the intelligent variable frequency scraper device is the addition of an intelligent electronic control system, which realizes automatic operations such as automatic adjustment of blade pressure and automatic detection and alarm of blade wear.

The blade pressure is constant, the cleaning effect is good, the belt is not damaged, it can communicate remotely with the control room, the operation and maintenance are simple, the operation is safe and reliable, it has a complete automatic protection function, and it can work in harsh working environments or environments with explosive gases and dust.

| Specifications | Applicable bandwidth B (mm) | Belt speed (m/s) | Applicable rack width (mm) |
|----------------|-----------------------------|------------------|----------------------------|
| HZ-Z-G-650     | 650                         | 6m/s             | 750-1350                   |
| HZ-Z-G-800     | 800                         | 6m/s             | 900-1500                   |
| HZ-Z-G-1000    | 1000                        | 6m/s             | 1100-1700                  |
| HZ-Z-G-1200    | 1200                        | 6m/s             | 1300-1900                  |
| HZ-Z-G-1400    | 1400                        | 6m/s             | 1500-2100                  |
| HZ-Z-G-1600    | 1600                        | 6m/s             | 1700-2300                  |
| HZ-Z-G-1800    | 1800                        | 6m/s             | 1900-2500                  |
| HZ-Z-G-2000    | 2000                        | 6m/s             | 2100-2700                  |
| HZ-Z-G-2200    | 2200                        | 6m/s             | 2300-2900                  |

# Intelligent Return Scraper Device （HZ-ZHHC）



**\*Intelligent centralized control box**

The intelligent centralized control box can be controlled by PLC and touch screen, and adopts multiple control modes, namely local mode, remote direct start mode, and remote time control mode, to better adapt to the needs of on-site use.

Modular combination design, easy installation and strong applicability.

**\*Cleaning device**

The cleaning device selects scrapers according to material type, humidity, etc., and dry materials use wear-resistant nylon wire spirally arranged roller brush cleaners for cleaner cleaning.

Wet materials can use rake, ceramic, rubber alloy and other cleaners to adapt to the unevenness of the belt surface, better fit the conveyor belt to clean sticky materials. Different combinations of cleaning solutions are used for different materials.

**\*Recovery device**

The recovery device uses high-strength mining chains and sprockets, and the scraper uses NM500 wear-resistant steel plates, which are stable in operation, low in noise and long in service life.

| Product Model              | Electric Motor        | Reducer           | Scraper chain specifications | Dimensions    |
|----------------------------|-----------------------|-------------------|------------------------------|---------------|
| HZ-ZNHC-650                | Y112M-6-2.2KW         | NMRV90-50         | Ø10x40                       | 2800x1050x500 |
| HZ-ZNHC-800                | Y112M-6-2.2KW         | NMRV90-50         | Ø10x40                       | 2800x1200x500 |
| HZ-ZNHC-1000               | Y112M-6-2.2KW         | NMRV90-50         | Ø10x40                       | 3400x1400x500 |
| HZ-ZNHC-1200               | Y112M-6-2.2KW         | NMRV90-50         | Ø10x40                       | 3400x1600x500 |
| HZ-ZNHC-1400(Dual Channel) | Y112M-6-2.2KW/2 units | NMRV90-50/2 units | Ø10x40                       | 3400x2000x500 |
| HZ-ZNHC-1600(Dual Channel) | Y112M-6-2.2KW/2 units | NMRV90-50/2 units | Ø10x40                       | 3400x2200x500 |
| HZ-ZNHC-1800(Dual Channel) | Y112M-6-2.2KW/2 units | NMRV90-50/2 units | Ø10x40                       | 3400x2400x500 |
| HZ-ZNHC-2000(Dual Channel) | Y112M-6-2.2KW/2 units | NMRV90-50/2 units | Ø10x40                       | 3400x2600x500 |

**Note:** The length of the intelligent return scraper device can be customized according to the actual size.



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