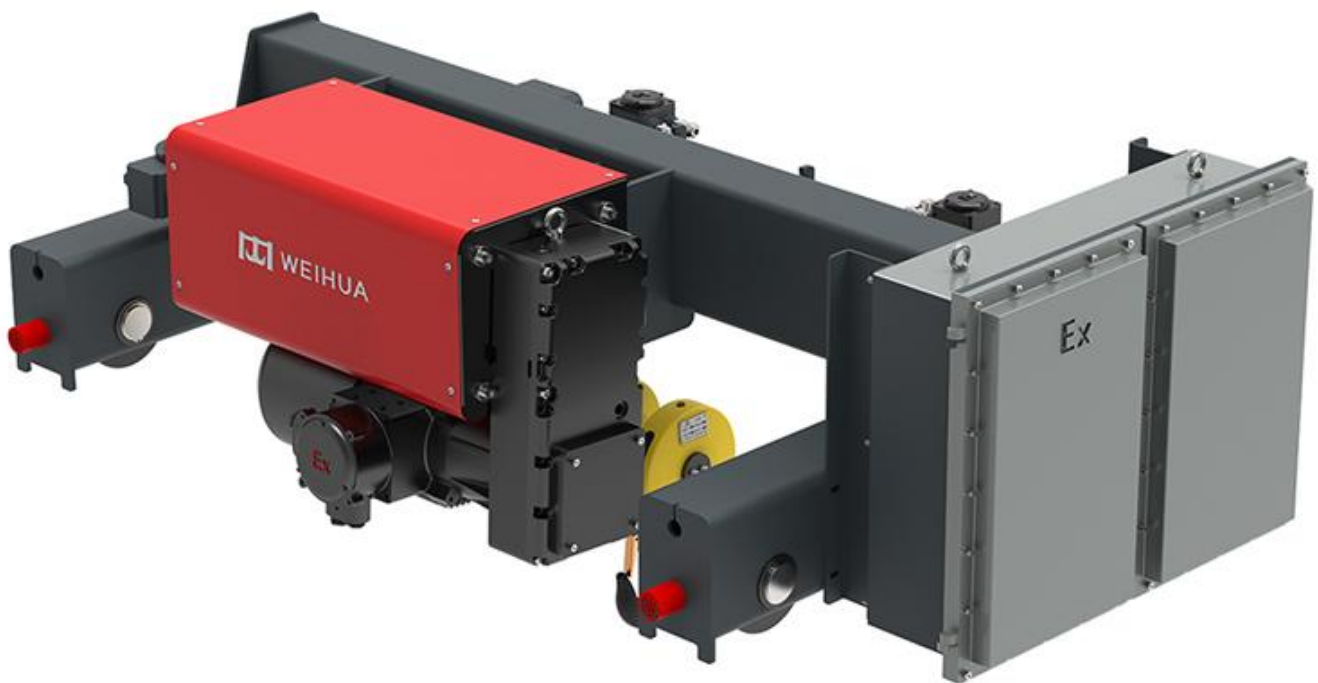


# Explosion-proof Single Girder Overhead Crane

Original link: <https://www.globalweihua.com/products/overhead-crane/explosion-proof-single-girder-overhead-crane/>



Explosion-proof electric hoist

The Explosion-proof Single Girder Overhead Crane is a specialized lifting equipment meticulously designed for hazardous environments where flammable gases, vapors, dust, or fibers may exist. Compliant with international explosion-proof standards, this crane ensures safe and reliable material handling operations while eliminating the risk of ignition that could trigger explosions or fires. It is widely applied in industries such as petroleum, chemical, coal, pharmaceutical, grain processing, and military, providing an essential solution for lifting tasks in high-risk areas.

## Core Features of Industrial Explosion-proof Single Girder Overhead Crane



Explosion-proof Single Girder Overhead Crane

**Superior Explosion-proof Performance:** All electrical components (motors, reducers, control cabinets, buttons, etc.) of the explosion-proof single girder overhead crane adopt explosion-proof structures, with explosion-proof ratings reaching Ex d IIC T4/T6 or higher. The mechanical parts are treated with anti-friction and anti-spark processes, effectively preventing the generation of electric sparks, friction sparks, and static electricity, ensuring safe operation of the hazardous area explosion-proof lifting equipment in explosive atmospheres.

**Compact Structure & Space-saving Design:** As a single girder structure, the crane features a lightweight design, small volume, and low headroom. It can maximize the utilization of workshop space, especially suitable for factories with limited height and narrow operation areas. The optimized beam design ensures high load-bearing capacity while reducing the overall weight of the equipment, lowering the requirements for workshop building structures.

**Stable & Efficient Operation:** Equipped with high-quality variable frequency speed control system, the explosion-proof single girder overhead crane achieves smooth starting, stopping, and speed regulation, avoiding impact on lifted materials and the crane itself. The main lifting mechanism and trolley traveling mechanism of this industrial explosion-proof crane adopt precision reducers and high-strength steel wire ropes, ensuring stable operation and high transmission efficiency. The operation speed can be customized according to actual working needs, improving work efficiency of hazardous environment material handling.

**Easy Operation & Maintenance:** The crane is equipped with a user-friendly operation system, which can be operated by a pendant controller or a wireless remote controller, realizing long-distance and convenient operation. The key components are designed with modularization, which is easy to disassemble and assemble, reducing maintenance difficulty. Regular maintenance only requires simple inspection and lubrication, reducing maintenance costs and downtime.

**Reliable Safety Protection:** In addition to explosion-proof protection, the crane is also equipped with multiple safety devices, such as overload limiter, lifting height limiter, traveling limit switch, emergency stop button, etc. These devices can monitor the operation status of the crane in real-time, automatically alarm or cut off the power when an abnormal situation occurs, ensuring the safety of operators and equipment.

## Technical Parameters of Custom Explosion-proof Single Girder Overhead Crane

Parameter Item	Specification Range
Rated Lifting Capacity	1 ton - 20 ton overhead crane
Span	7.5m - 31.5m
Lifting Height	6m - 30m (customizable)
Lifting Speed	0.1-8m/min (variable frequency speed regulation)
Trolley Traveling Speed	0.5-20m/min (variable frequency speed regulation)
Crane Traveling Speed	1-40m/min (variable frequency speed regulation)
Explosion-proof Rating	Ex d IIC T4/T6
Protection Rating	IP54/IP55
Working System	A3-A5
Power Supply	380V/50Hz (customizable according to regional standards)

## Applicable Scenarios for Explosion-proof Single Girder Overhead Crane in Hazardous Zones

This explosion-proof single girder overhead crane is specifically designed for hazardous environments where explosive substances exist, serving as a key hazardous area explosion-proof lifting equipment for multiple industries, including but not limited to:

Petroleum and petrochemical industry: Oil refineries, chemical plants, oil depots, etc., for lifting raw materials, finished products, and equipment components via the industrial explosion-proof single girder overhead crane.

- Coal industry: Coal mines, coal washing plants, etc., for handling coal, coal coke, and mining equipment.
- Pharmaceutical industry: Pharmaceutical factories producing flammable and explosive drugs, for lifting and transporting raw materials and finished products.
- Grain processing industry: Flour mills, grain depots, etc., for handling grain and preventing dust explosions.
- Military industry: Weapons and ammunition production workshops, for lifting and assembling military equipment.
- Other industries: Paint factories, solvent factories, gas stations, etc., where flammable and explosive substances are involved in production and operation.

## Quality Assurance & After-sales Service for Explosion-proof Single Girder Overhead Crane

We adhere to strict quality control standards in the production process of explosion-proof single girder overhead cranes. All our industrial explosion-proof single girder overhead cranes have passed national explosion-proof product certification and quality inspection, ensuring reliable product quality and stable performance. We provide comprehensive after-sales services for this hazardous area lifting equipment, including:

- Professional on-site installation and commissioning by technical personnel to ensure the crane operates normally.
- Systematic operator training to help users master the correct operation methods and safety precautions.
- Regular maintenance and inspection services to extend the service life of the crane.
- 24-hour after-sales service hotline, providing timely technical support and spare parts supply.

Choose our Explosion-proof Single Girder Overhead Crane to get a safe, efficient, and reliable lifting solution for hazardous environments. We can also customize the industrial explosion-proof single girder overhead crane according to your specific needs, including lifting capacity, span, lifting height, and explosion-proof rating. Welcome to contact us for more details about this hazardous area explosion-proof lifting equipment!

(注：文档部分内容可能由 AI 生成)