

PNEUMATIC HOISTS

JDN CRANE SYSTEMS FOR ATEX AREAS

Robust – Reliable – Low maintenance
The individual solution for explosion-proof crane systems

J·D·NEUHAUS
1745
permanent excellence

CUSTOM MADE FOR YOUR APPLICATION

Engineered to perform in the toughest industrial environments, JDN crane systems provide reliable lifting solutions for a wide range of demanding applications. We offer a wide range of **explosion-proof crane systems**, which can be designed to your individual needs. The main crane systems are:

- **Overhead cranes**
- **Underslung cranes**
- **Column-mounted jib cranes**
- **Wall-mounted jib cranes**

Designed for use in potentially explosive atmospheres, JDN crane systems are **ATEX-certified** and suitable for a wide range of lifting applications in ATEX environments. Available with **manual or pneumatic operation**, they provide reliable performance in demanding industrial conditions. The patented pneumatic drive enables high lifting and lowering speeds while supporting continuous operation.

Depending on the application, JDN crane systems can be configured with a range of components, including hoists, trolleys, girders, chains, chain containers, and control systems. This allows each system to be adapted to specific operational requirements.

JDN crane systems are available in various configurations and can be customized to suit **individual applications**. Different crane types, spans, lifting capacities, and optional equipment provide flexibility for a wide range of operating conditions.

The **robust design** is suitable for continuous use in harsh environments, including areas exposed to dust, humidity, corrosive conditions, or extreme temperatures.

JDN crane systems are used **across industries** with demanding operating conditions and high safety requirements. In the chemical and pharmaceutical industries, they ensure controlled and secure material handling under strict ATEX, safety and cleanliness standards. In defense and general manufacturing, JDN cranes provide reliable and precise lifting and positioning solutions for a wide range of demanding applications, including ATEX-certified solutions for potentially explosive environments.

In offshore and onshore oil and gas environments, JDN cranes are trusted to perform safely under harsh weather conditions and in explosive atmospheres, while enabling the precise positioning of heavy components in confined spaces.

Other industries, including construction, metals, automotive, energy, food and beverages, and pulp and paper, rely on JDN cranes for their robust performance, precision, and consistency, helping to maintain efficient, reliable, and safe production and operational processes across a wide variety of requirements.

J.D. Neuhaus crane systems are designed for **permanent excellence** – to provide reliable lifting solutions with a focus on safety, durability, and long service life.

CRANE SYSTEMS TAILORED TO YOUR INDIVIDUAL NEEDS

- Load capacities and crane spans customized to your requirements
- Pendant or radio remote control
- One-speed, two-speed or infinitely variable pneumatic control
- Manual or pneumatic crane and trolley travel
- Synchronized hoist operation with mechanically linked hoists
- Parallel-operated hoist systems
- Single-girder and double-girder overhead crane designs
- Low-headroom and ultra-low-headroom underslung crane designs
- JDN air hoists with motorized trolleys or monorail systems
- Customized crane configurations for individual applications







ATEX CRANE SYSTEMS FOR DEMANDING APPLICATIONS

Cranes from J.D. Neuhaus provide a decisive advantage over electrically driven lifting solutions: even the standard versions are designed for operation in potentially explosive atmospheres and are suitable for use in all **ATEX-classified areas**.

Thanks to their pneumatic drive technology, JDN cranes do not require electrical components that could act as potential ignition sources. This makes them particularly suitable for demanding applications in hazardous areas, such as environments classified according to ATEX regulations.

For applications requiring additional **protection against mechanical spark formation**, JDN offers special equipment options, including copper-plated hooks and bottom blocks, as well as brass load and trolley wheels.

For specific explosion protection requirements or **individually defined ATEX zones**, JDN develops customized lifting solutions tailored to the conditions of your application.

If you have any questions regarding explosion protection, hazardous area classification, or the selection of the right lifting solution, our sales team will be happy to provide expert advice.

Additionally we offer **Crane Kits for explosion-proof air cranes**:

J.D. Neuhaus provides crane manufacturers crane component kits complete with pneumatic crane drives. These kits make it simple and cost-effective to build overhead travelling cranes, especially for applications in hazardous areas.

The crane manufacturer provides the main girder and JDN delivers all the components that are necessary to build an air powered crane of their chosen design:

- End carriages with pneumatic drives
- Energy feeding systems
- Safety accessories
- And of course the appropriate air hoist with trolley

PNEUMATIC
mechanical drive

ROBUST
to external ambient influences

NO DOWNTIME
100% on-time

EXPLOSIONS SAFE
for use in hazardous areas

COST-EFFECTIVE
thanks to low maintenance

INDUSTRY BENCHMARK

SERVICE PARTNERSHIP, INSTALLATION & COMMISSIONING SUPPORT

For all of our customers in a variety of demanding industries and processes, JDN cranes and hoists are synonymous with high performance, absolute reliability, maximum availability and minimum maintenance times – all with maximum safety.

Our experienced Global Project Team would be happy to discuss your individual requirements and develop solutions tailored specifically to your needs.

In addition, we ensure that you have access to our **global JDN service network** for comprehensive support throughout the entire lifecycle of your equipment.

Our services range from technical on-site consultations and the complete installation and commissioning of crane systems to full lifecycle service.

JDN can take **overall responsibility** for the installation process through to expert inspection and acceptance, providing a single point of contact from planning and installation to final approval.

We offer **periodic inspections**, preventive maintenance, and genuine JDN spare parts to ensure maximum availability and long service life. Our worldwide network of trained partners provides reliable **on-site service** and **technical support** with fast



response times to ensure your equipment continues to operate at peak performance.

Please do not hesitate to contact us for further information. Our sales, project management, and service teams are always available to support you.

CONTACT

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Click or scan the QR code to book your **expert appointment:**

Locations:
Germany – Headquarter, France, Singapore, United Arab Emirates, United Kingdom, United States

