

### JD Neuhaus Pneumatic Hoist vs. Electric Hoist

J.D. Neuhaus has vast experience in providing solutions for various applications, across a wide spectrum of applications. J.D. Neuhaus has often been asked about the advantages of our Pneumatic hoists, as compared to Electric hoist options. Below, you will find further supporting information about JDN hoist technology, as it relates to several key questions.

**Main Advantage:** The main advantage of pneumatic hoists lies in the uncomplicated driving medium compressed air and on the other hand on its solid and compact construction

**Question:** What is the better solution a JD Neuhaus Pneumatic hoist or an electric hoist for applications involving hazardous areas?

**Answer:** JD Neuhaus

For applications involving hazardous areas, due to classifications, the JDN Pneumatic hoists would be the preferred option for several reasons:

- No electrical sparks with an air motor, due to the JDN design not having electric components
- No necessity for heavy and expensive electrical design, neither on the hoist or on the installation
- Connecting the air hoist to the energy source is extremely easy, no need to wait for electricians or other specialized technicians
- No mechanical sparks by using spark resistant package, can be used in flammable environments
- The hoists are price wise extremely attractive compared to explosion proof electric hoists - An explosion proof electric chain hoist will be twice the cost of the JDN explosion proof hoist
- Electric hoist will need additional protection for the areas regarding the electric motors, electric feeding system, distribution boxes and control devices

Typical Applications: Offshore industry, Petrochemical Plants, Refineries, Paint Booth Applications, & Underground mining

**Question:** What is the better solution a JD Neuhaus Pneumatic hoist or an electric hoist for applications where heat may be a problem?

**Answer:** JD Neuhaus

For applications involving heat requirements, the JDN Pneumatic hoists would be the preferred option for several reasons:

- No limitations with reference to operating times
- No duty cycle limitations - ideal for large lifting heights, as an electric hoist will need to be cooled periodically to prevent overheating
- No limitation in shift frequency (Start and Stops) - ideal for workshops with high job frequency or serial fabrication (Automotive industry)
- JDN hoists tolerate high ambient temperatures - as high as +70 C on the motor and as high as 150 C on chain and hook

Typical Applications: Electro-Plating applications, Foundries, Smithies & countries with high ambient temperatures

**Question:** What is the better solution a JD Neuhaus Pneumatic hoist or an electric hoist for applications when comparing design, weight and size?

**Answer:** JD Neuhaus

For applications when design requirements are needed, the JDN Pneumatic hoists would be the preferred option for several reasons:

- JDN hoists have a robust construction and compact design

- JDN hoists have a true vertical lift
- JDN hoists can be offered with a hook suspension
- JDN hoists lifting capacities range from 125kg - 100T
- JDN Pneumatic hoists have a compact and practical construction for easy handling and low weights
- Example: A 5T electric hoist weighs approximately 170kg, as compared to the JDN Pneumatic Profi 6T hoist, with an approximate weight of 110kg

Typical Applications: Applications where mobility and accuracy is important, like Maintenance, Construction or in Shipyards

**Question:** What is the better solution a JD Neuhaus Pneumatic hoist or an electric hoist for applications in dusty, humid environments?

**Answer:** JD Neuhaus

For applications involving dusty and humid environments, the JDN Pneumatic hoists would be the preferred option for several reasons:

- Dust will not be harmful to the cooling motor of the JDN hoist
- JDN hoists are sealed against dust, moisture and corrosive gases
- Dust or Water will not cause any short circuits, or hazardous situations

Typical Applications: Offshore industry, Foundries, Cement industry, Chemical industry, Stone Mills, Shipyards & Underground mining

**Question:** What is the better solution a JD Neuhaus Pneumatic hoist or an electric hoist for applications where precise spotting and variable speed is required?

**Answer:** JD Neuhaus

For applications when precise controls are required, the JDN Pneumatic hoists would be the preferred option for several reasons:

- JDN hoists come with variable speed control as a standard feature
- No expensive electric converters are required for JDN hoists

Typical Applications: Foundries, Power Plants, High Precision industry applications, Aerodynamics, Ship building & Assembly lines