



Pneumatic & Hydraulic Hoists



Equipped to Excel

About ElectroMech

Established in 1979, ElectroMech is the largest manufacturer of industrial overhead cranes in India and among the top ten manufacturers in Asia. Our customers advocate ElectroMech as a solution provider they can count on every single time. Our trusted solutions, efficient services and untiring commitment have made customers come back to us time and again.

ElectroMech has developed the skill to combine design, engineering and process requirements for a myriad of industries and geographies. In our 40 years of operation, we have supplied over 7500 cranes worldwide for practically every industrial application. We are extremely proud of our contribution to the economic development the world over, in the real sense.

Our strong engineering backbone is supported by an equally capable manufacturing facility. Our engineering team of 35 design engineers is in constant pursuit of innovative solutions that can improve the productivity of our customers. Our state-of-the-art

manufacturing plant in Pune is one of the largest EOT crane manufacturing facilities in Asia, capable of delivering 1500 cranes annually, adhering to international standards, HSE and quality assurance practices. It is spread over 85,000 sq.m. with a covered area of 20,000 sg.m. and can accommodate cranes of various types and sizes.

An array of products and solutions like Overhead Cranes, Gantry Cranes, Stacker Cranes, Explosion-protected Hoists & Cranes, Pneumatic & Hydraulic Hoists, Process Cranes, Forklifts & Lift trucks, Rollers, Pushers, and Push-Pull & Manoeuvre in partnership with globally renowned manufacturers viz., Abus, Stahl, J.D. Neuhaus, Hyster Yale® and Easy Mover make ElectroMech a one-stop shop for all your material handling needs. We believe in going the extra mile. Our subsidiary company, Cranedge, caters to the service and after-sales requirements of the industry.







About J.D. Neuhaus

At its Witten location, J.D. Neuhaus, a company with 160 employees, manufactures hoists and crane systems that are mainly driven by compressed air. Thanks to this globally unique specialisation and more than 50 years of expertise with compressed air as a drive medium, JDN has become a renowned expert in the field. Today, its share of exports is 80% and they export to more than 90 countries around the globe. Air hoists and hydraulic hoists from J.D. Neuhaus are used in several industries.







Explosion Protection Classification and Marking

Hoists and cranes from J.D. Neuhaus have an unbeatable advantage over electrically-driven lifting equipment. Even the standard versions are suitable for use in explosion-hazardous areas and bear explosion-proof labelling according to the ATEX standard. If you have any questions about explosion protection, please contact our sales team. We will be happy to advise you.

Environmental Protection and Quality

Long service life of their products and their recyclability make an important contribution towards relieving the environmental burden. Furthermore, JDN's production has been adapted to minimise energy consumption, emissions, sewage and waste; it also uses environmentally-compatible production processes and materials. Resources are used sparingly and waste is recycled wherever possible.



The JDN Mini

Capacities: 125kg to 980kg

Air Pressure: 6bar

The JDN Mini is the most compact hoist, with weight upto 21kg and an integrated NFC sensor with service app that makes it truly unique in the industry. Recipient of IF Design Award 2019 in Product Category.

Advantages



Safety

A redundant optional fall support capable of holding the maximum capacity of a hoist coming free of the supporting structure. The new limit switches offer another safety bonus. They will switch off the lifting and lowering movement as soon as the bumper touches the stop valve.



Long Lifetime

Its intelligent construction increases the number of operating hours of the new JDN Mini through targeted optimisation to 800 hours. This makes a significant contribution to the reduction of the total cost of ownership (TCO), since the extended service life means that new devices are purchased much less frequently to replace units that have reached the end of their service life.



Sensitive Control

The control is connected with the casing via a single hose with pull relief, bundling three control lines inside. This enhances operating comfort and flexibility. Added to this are the precision valves, enabling precise dosing of the air supply and thus making it possible to lift and lower loads smoothly.

Easy Maintenance



The smartest new development in the area of maintenance is the NFC sensor integrated into the service flap. The user can access the operating instructions and certificates for the hoist by getting on a smartphone and using the new JDN service app. Much of the maintenance work such as lubricating the motor chamber, exchanging the chain guide, and even exchanging the motor unit can now be carried-out on the new JDN Mini 'on the hook' – without dismounting the Mini. This also saves an incredible amount of time and increases occupational safety.

Custom-fit Configuration



A standardised 'interface' for using various types of hooks. Hooks are also available in steel and stainless steel. Together with a load sleeve and chain made of stainless steel as well as a motor housing of uncoated cast aluminium the JDN Mini is perfect for use in fields such as the food industry.



Higher Speed



JDN Mini 500 will reach a Maximum lifting speed of 12m/min at full load (500kg). The maximum speed can also be continuously preset, so reduced, without losing power at a given carrying capacity. This can protect loads even more when necessary and, at the same time, the speed can also be more finely managed.



ElectroMech
| Solutions | Service | Satisfaction |

| Solutions |

Air Hoists Profi

Capacities: 250kg to 100t Air Pressure: 4bar or 6bar

PROFI Series are very robust and therefore suitable for tough industrial applications even in continuous working processes. The PROFI Series scores well with its 100% duty rating and explosion protection as standard.

Standard Features

- Suitable for application in hazardous areas
- Sensitive infinitely variable speed control for the precise positioning of loads
- > Easy operation
- > Suitable for lube-free operation
- > 100% duty rating and unlimited duty cycles
- > Low maintenance
- Low headroom, lightweight
- Sound absorption
- ➤ Insensitive to dust, humidity and temperatures ranging from -20°C up to +70°C
- From 1t upwards with overload protection (EC-version)

Advantages

- Strong Fast Silent
 - High performance with more efficiency by reliability plus high lifting and lowering speeds. Low sound emissions.
- > High Level of Safety

Integrated emergency stop switch from 1t upwards with overload protection.

> Oil-Free Operation

Patented, permanent motor lubrication during operation, using a high-performance grease. No additional motor lubrication required.

> Patented Motor-Brake System

For operation with low maintenance and little wear. Based on the proven design of the JDN Mini Series.

> Modern Design - Compact Size

Features no protruding control hoses or parts susceptible to damage, making the PROFI also suitable for horizontal pulling

> 100% Duty Rating - No Downtime



Trolley

- ➤ Manual Trolley
- > Reel Chain Trolley
- > Motor Trolley

Housing Finish

- ➤ Standard JDN Green
- > 3-coat offshore paint system

Filter Silencer

Chain Container

- ➤ Chain Box
- ➤ Chain Bag

Limit Switch for Lift

Hook

- > Standard
- > Copper-plated
- > Stainless Steel

Controls

- > Rope Control (sensitive)
- > FI Control (sensitive)
- ➤ E Control (single speed)
- > F Control (multi-function)
- > Remote Control
- > Electropneumatic Interface

Air Hoists M Series

Capacities: 1/2t and 3/6t Air Pressure: 4bar

M Series are the specialists for underground mining operations. They have the same features as the hoists of the PROFI series but operate with an air pressure of only 4bar.

Standard Features

- > Suitable for use in hazardous areas with risk of explosion
- > Two chain falls for alternate working
- > Specially designed for horizontal moving of loads



Big Bag Handling Air Hoists

Capacities: 1.1t and 2.2t Air Pressure: 6bar

For big bag handling J.D. Neuhaus offers innovative design solutions to meet the special requirements of these applications. One load hook for standard cruciform lifting beam designs. Twin load hooks for more complex cruciform lifting beam designs or for standard lifting beam designs with two suspension points.

Advantages

- Particularly suited for use as big bag handling hoists and for the movement of all kinds of bulky loads due to the low headroom design
- > Compact, modern design
- Suitable for use as a synchronised hoist in twin-hook design
- The use of JDN standard components guarantees reliable operation and cost-effective manufacture
- No additional motor lubrication required
- Small number of maintenance / wear-free moving parts
- Suitable for use as standard in areas at risk of explosion





| Solutions |



Monorail Air Hoists

Capacities: 10t to 115t per unit

Air Pressure: 6bar

JDN Monorail Hoists are available with air or hydraulic drive for the offshore industry, or wherever heavy loads have to be moved in reduced spaces. Depending on the application JDN Monorail Hoists can be used in tandem.

Technical Details

- Instant starting vane motor requiring low maintenance
- Fail safe disc brake immediately holds load safely in the event of interruption of air supply
- All gearbox components made of tempered or hardened high-grade
- > Anti-climb and anti-drop devices
- Lateral guiding plates
- Pendant control unit with emergency shut-off valve

Standard Features

- Ideally suited for working in hazardous areas (explosion risk)
- Insensitive to humidity, dust and temperatures from -20°C up to +70°C
- Low headroom, compact design
- > Low air consumption
- World-wide service



Accessories

- > Increased spark protection
- Rack and pinion drive
- > Overload protection
- > Two speed trolley travel control
- > Filter silencer

Ultra-low Monorail Hoists

Capacities: 1t to 100t Air Pressure: 6bar

Where loads have to be lifted and transported in extremely reduced spaces the JDN Ultra-Low Monorail Hoists provide the ideal solution. For example the Ultra-Low Monorail Hoist with a load capacity of 6t has a headroom of only 230mm.

Standard Features

- Ideally suited for working in hazardous areas (explosion risk)
- ➤ Insensitive to humidity, dust and temperatures from -20°C up to +70°C
- > Extremely low headroom
- Low air consumption
- > Available with increased spark protection



BOP Handling Systems

Capacities: 20t to 200t

BOP (Blow Out Preventer) handling systems from J.D. Neuhaus are recognised for their reliable, robust and efficient operation on land and on jack-up and semi-submersible drilling platforms. The Monorail Air Hoists (EH) in our BOP handling systems feature a compact design with low installation height. They can be used as double hoists in standard BOP handling systems or, when linked together with a coupling rod, can be operated as a 4-point BOP handling system. For extremely low headrooms we recommend our ultra-low hoists from the UH series. Alternatively, all BOP handling systems are available with hydraulic drives.

Options

- Offshore version for special corrosion protection under tough weather conditions (salty, moist air) on sea and land
- Offshore paint finish
- Rack and pinion drive
- Delta-P overload protection
- > Ultra-low hoists
- Pneumatic, hydraulic or electric remote control

- Load display systems
- Radio remote control
- Articulated trolleys for limited side pulling
- Individual acceptance by the authorised companies of your choice
- Special versions according to your requirements
- Cryogenic versions down to -45°C



Hydraulic Hoists & Monorail Hoists

Capacities: 3t to 100t

Advantages

- > Ideally suited for working in hazardous areas (explosion risk)
- > Extremely low noise emissions
- Fully enclosed, highly robust gear motor
- Integrated overload protection
- Only two supply connections at hoist 'P' and 'T', leakage oil drained internally
- > The drive is hermetically sealed-off from the environment







| Solutions |

Subsea Hoists

Hoists For Use In The Toughest Conditions

PROFI Subsea Hoists are versatile and indispensable tool for professional divers and are suitable for horizontal work as well as for oblique pulling.

Advantages

- > Air or hydraulic drive
- > Infinitely variable speeds can be regulated sensitively
- > With overload protection
- Very versatile, also suitable for horizontal and oblique pulling thanks to hook suspension



Cryogenic Hoists

Hoists For Use In The Toughest Conditions



The temperature range of standard JDN hoists is -20° C to $+70^{\circ}$ C. JDN has developed hydraulic hoists for applications at temperatures as low as -45° C, such as BOP handling in arctic areas. To enable these hydraulic drives to be used under such extreme temperatures, they are fitted with a device that preheats the drives to a temperature of -25° C before being operated.

Advantages

- > Application range: temperatures as low as -45°C
- > Hydraulic drive
- Easy starting thanks to pre-heating device for the drives
- > Operation with low-temperature hydraulic fluid
- > Tested under real conditions and in use in Siberia

Trolleys

Capacities: 0.25t to 20t Air Pressure: 4bar or 6bar

JDN Trolleys are available for all hoists of the PROFI and M series:

- > Manual trolleys (LN) for pushing or pulling the trolleys by hand
- ➤ Reel chain trolleys (LH) for moving the trolleys by operating the reel chain mechanism
- > Motorised trolley (LM) air motor powered

Standard Features

- > Easy to install
- > With anti-climb and anti-drop devices
- > Robust manufacture requiring little maintenance
- Able to negotiate curves



Low Headroom Trolleys

Capacities: 0.5t to 6.3t

Air Pressure: 6bar

Where headroom is restricted and standard trolleys can't meet the lifting height requirements we recommend JDN Low Headroom Trolleys whereby our air hoists are mounted horizontally.

Standard Features

- > Small number of maintenance / wear-free moving parts
- > No additional motor lubrication required
- > 2-step travelling speed
- Adjustable trolley widths to suit your requirements

Special Features

- > Able to negotiate curves
- > Extended trolley tie bars for bulky or elongated loads







| Solutions |

Pneumatic Crane Systems

Capacities: 0.125t to 100t, Span: Up to 36m

Air Pressure: 4bar or 6bar

Explosion-protected JDN Crane Systems are the right choice for the most challenging environmental conditions, whether onshore or offshore. Available in air drive or hydraulic drive versions.

The delivery programme comprises explosion-proof cranes which can be designed to your individual needs, customised installations are our speciality. Depending on your requirements JDN air hoists in motor trolleys or monorail hoist systems are integrated into the crane design. An ergonomically designed pneumatic pendant control is supplied with two speed control as standard for crane and trolley travel. Infinitely variable hoist and trolley speed control is also available.



Accessories

- > Filter silencer
- > Filter regulator
- Service unit
- Main air emergency-stop valve
- Chain box
- Special grease cartridge for oil-free operation, volume 250ml
- > Limit switch for lifting and travelling
- Booster valve (control lengths over 12m)
- Extension arm for control on motorised trolley
- Additional suspension for chain box (for installation in trolley)
- Copper-plated load hook for increased spark protection
- Stainless steel load hook (up to 750kg capacity)
- Stainless steel chain (reduced capacity) up to 6t
- Manual emergency lowering device for PROFI 3t to 20t hoists
- Special paint finishes

Service

Services partner





Expert Services

Cranedge is a professional service company dedicated to providing complete after-sales services for a range of material handling equipment and systems. Established in 2009, Cranedge stands on a foundation built with over 40 years' experience of India's most successful crane manufacturer, ElectroMech.

Cranedge was born out of the commitment to provide trouble-free crane ownership experiences to all our customers. We believe in going the extra mile, and our scope does not end at supply. Rather, we assure you of unmatched services throughout the life cycle of your equipment.





Workshop Cranes

Explosionprotected **Hoists & Cranes** Pneumatic & Hydraulic hoists Lift Trucks & Warehousing Solutions

Rough Terrain **Forklifts** Rollers, Pushers & Push-Pull Manoeuvre

Aerial Work Platforms (AWP)

Expert Aftersales Support

Material handling solutions for the world since 1979



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