PRESS RELEASE JDN110

EXTENSIVE HANDLING EQUIPMENT RANGE FEATURES EXPLOSION PROTECTION AS STANDARD

The J D Neuhaus extensive range of handling equipment, including hoists and cranes are all engineered for extremes, providing safe operation in dust laden atmospheres or other explosion-hazardous areas such as the chemical manufacture and processing environments. All the JDN products, which include both compressed air and hydraulically operated units are Explosion Protected as Standard.

This ensures that all JDN products are safe for continuous and long-term operation in potentially explosive chemical atmospheres as well as the more insidiously dangerous conditions where high levels of airborne dusts exist. This can include combustible dusts, high concentrations of airborne dusts, or wherever a dust cloud is confined with an oxidant present (ie typically atmospheric oxygen) and particularly where there is an ignition source. The oxidation of other commonly known materials such as coal and sawdust can also be the source of a dust explosion. However, many other normally inactive materials such as grain, flour, sugar, powdered milk and even powdered metals can form potentially explosive dust cloud suspensions in a busy working atmosphere.

The easy to use Profi TI hoist range is the workhorse of the industrial and commercial world, and the operating air supply can be set at 4 or 6 bar pressure, with a standard load lift height of three metres being provided throughout. Other optional lift height requirements can also be specified and accommodated as required.

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Their Profi TI range of air operated hoists includes a total of 19 models providing lift capacities from 250kg up to an impressive 100 tonnes. These incorporate many years of design and development, and have successfully proved their versatility and universal reliability following installations within a wide range of light, medium and heavy duty industrial workplaces. Their compressed air power supply is also utilised for control functions. It does not initiate sparks, so providing an unbeatable advantage when hoists are operating in potentially explosive atmospheres. Even greater safety can be achieved by the prevention of sparks generated by static discharges or metal to metal friction contacts.

Standard versions of JDN hoists and crane systems (which utilise Profi TI hoists for lift operations) have the explosion protection / classifications and markings EX II 2 GD IIA T4 / II 3 GD IIB T4.

Increased spark protection can be achieved, which involves copper galvanisation plating of the hoist bottom block and load hooks, together with fitting brass safety catches to achieve a rating of EX II 2 GD IIB T4.

With even further increased spark protection for explosion group IIC, the hoist horizontal movement trolleys incorporate running wheels and travel gearing which are manufactured in bronze for an impressive EX II 2 GD IIC T4 rating.

All Profi TI hoists incorporate a top suspension hook, with optional overhead trolleys also available to accommodate lateral movement of suspended loads. Three trolley options incorporate load traverse movements combined with precise load positioning. One trolley is manually operated for horizontal movement of the suspended load. A second trolley has a manually operated reel chain mechanism for lateral load movements. The third motorised trolley provides traverse as well as load raise and lower movements, together with precise load positioning, utilising compressed air power. All trolley systems can negotiate overhead rail curvatures, with trolleys optionally fitted with rack and pinion drives for safe load handling on offshore platforms and sea going vessels. For installations with overhead space constrictions, a low headroom trolley option is also available, suitable for loads up to six tonne.

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The hoists are all 100% duty rated with unlimited duty cycles, so minimising any downtime conditions. Their compact modern design eliminates any protruding control hoses or similar external parts susceptible to damage, emphasising the suitability of the Profi range for even horizontal pulling. These standard hoists are also insensitive to atmospheric dust or humidity and can withstand working temperatures ranging from 20°C to +70°C. Their patented, low maintenance vane motor brake systems ensure fail-safe starting and positive braking, while also being low maintenance as well as providing lube-free operation. Various pendant controls can be fitted for sensitive, single speed, multi-function or remote control operation. These design-led hoists also provide strong, fast and silent operation combined with high performance efficiency and reliability even when operating at high lifting and lowering speeds. The compact hoist designs ensure minimum product dead-weight, and when operating with loads from one tonne upwards also feature overload protection as standard.

Selected models from the range of air operated hoists and trolleys can be supplied with nickel plated components for clean room operations and other specialist applications that also require hygienic working conditions or washdown facilities. These include chemical and pharmaceutical production establishments, together with the food and drink industries covering all aspects of both handling and product manufacture.

The models currently available in the nickel-plated range include: the Profi TI hoists with 0.5 and 1 tonne lift capacities, together with a big-bag handling unit with a rated 1 tonne lift. A low headroom trolley hoist of 1 tonne capacity is also available, which is designed for operation in areas subject to low headroom capacity. Where Profi hoists are utilised with trolleys for overhead rail mounting, both manual operated (type LN) and motorised (type LM) trolleys can be provided which have also been subject to appropriate nickel-plating treatment for use in hygienically critical areas.

For less severe operations the JDN Mini hoist range is available for light - medium lifting requirements. These cover four models for individual lift capacities of 125/250/500 and 980kg, with manipulator variations available for single handed operation during lift/lower/traverse and even final load positioning operations.

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Hydraulically operated versions of the JDN Profi range can also be made available, together with hoists specifically designated for operation within unique working conditions. These include hoists available with compressed air or hydraulic operation, which are suitable for underwater work. These specialised hoists have been utilised in subsea conditions to provide weightless underwater movements of suspended loads. Typical operations have included the replacement of a 45 tonne replacement rudder blade for a cargo ship while remaining at sea.

Overhead monorail air hoists having air or hydraulic drives can also be supplied with 11 models in the range covering lift capacities from 10 to 100 tonnes. Further ultra low headroom versions are also available for lifting operation up to 100 tonnes including specialised products available for BOP handling up to 200 tonnes. Hoists for specialised lifting in cryogenic conditions down to temperatures of -45°C are also now available.

Full crane systems together with self assembly crane kits can be provided for onshore/offshore operations with optional compressed air/hydraulic drives. These products can be supplied to suit individual customer requirements including jib cranes, plus top running and underhung overhead travelling cranes.

All JDN products are covered by a worldwide service for annual checks, inspection and repair together with complete overhaul and installation facilities.

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Further information is available on request to:

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A Profi 2 TI hoist from the J D Neuhaus range featuring a motorised trolley drive, providing a 2 tonne lift and full pendant control.

Download high resolution 300dpi image (900 x 2400 px)
Download low resolution 72dpi image (300 x 800 px)

A Profi 50 TI hoist from the J D Neuhaus range, providing a full 50 tonne lift capacity with 100% duty ratings and unlimited duty cycles.

Download high resolution 300dpi image (1054 x 1800 px)
Download low resolution 72dpi image (468 x 800 px)

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The JDN Mini Manipulator provides both safe and efficient single handed operation of lift, lower, traverse and load positioning operations.

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Download low resolution 72dpi image (397 x 800 px)

J D Neuhaus Profi 6 TI hoist, purpose designed for subsea operation.

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Download low resolution 72dpi image (600 x 800 px)

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A hydraulic JDN crane system with an 80 tonne carrying capacity, shown in an offshore location.

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Download low resolution 72dpi image (800 x 600 px)

A J D Neuhaus air operated Profi 1 TI with a one tonne lift capacity, suitable for operation in typical hot and dust laden atmospheric conditions.

Download high resolution 300dpi image (1350 x 1800 px)
Download low resolution 72dpi image (600 x 800 px)
Hoists from the J D Neuhaus Mini range being used to handle aircraft components.

Download high resolution 300dpi image (2100 x 1650 px)
Download low resolution 72dpi image (800 x 629 px)

Twin Profi 2 Ti hoists from J D Neuhaus used for big bag handling operations in chemical, pharmaceutical and food processing operations.

Download high resolution 300dpi image (1125 x 1500 px)
Download low resolution 72dpi image (800 x 600 px)

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A J D Neuhaus mini hoist, shown handling a submersible pump in a potentially hazardous area operation.
Company information

J D Neuhaus are a privately-owned company, founded in 1745, and for over 270 years they have been using their expertise and experience to manufacture the highest quality hoists and cranes.

Their products offer solutions to almost every material handling problem irrespective of the driving medium: from air and hydraulic hoists up to complete crane installations with explosion proofness.

**JDN products are used in a wide variety of industries including:**
Airplane Yards; Atomic/Coal Power Stations; Big Bag Handling; Cement Industry; Chemical Industry; Crane Manufacturers; Dairies; Food Industry; Foundries; Galvanisation; Glass/Ceramics; Large Kitchens; Leather Plants; Locks; Machine and Plant Construction; Mining; Motor Car Industry; Offshore/Onshore; Oil Storage; Over/Underground Construction; Paints and Varnish; Painting and Coating Installations; Paper Industry; Pharmaceutical Industry; Printing Industry; Pyrotechnics Industries; Refineries; Sawmills; Shipbuilding and Shiprepair Yards; Ships; Space Technique; Spray Booths; Steel Works; Surface Technique; Tank Cleaning Devices; Textile Industry; Tunnel; Tyre Manufacturers; Vacuum Technique

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