

With 30 years of experience and over 17,000 crane installations in the region, MHE-Demag is a trusted brand for superior material handling solutions, with a strong commitment to sound engineering practices and creative problem-solving methodologies.

MHE-Demag offers a comprehensive range of products in explosion-proof execution, ranging from:

- Manual chain hoists and trolleys
- Air hoists and trolleys
- Electric hoists and winches
- Electric single girder cranes
- Electric double girder cranes
- Electric slewing jib cranes

Tailored optimum solutions to cater for diverse applications using the most advanced computer programmes to meet either standard or special requirements. With MHE-Demag cranes and hoists, maximum working space can be achieved with minimum dimensional wastage. All our products have a long life span, are extremely durable and require minimal maintenance. ISO9001, ISO14001 and OHSAS18001 certified, MHE-Demag is a name you can trust with a vast client list from all over the world.



## CRANES & HOISTS

Explosion Proof Cranes & Hoists

### MHE-Demag Network

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## Protecting Lives and Properties in Potentially Explosive Environments

In the chemical and petrochemical industries, gases, fuels or vapours are often emitted during manufacturing, processing, transporting and storage of flammable materials such as alcohol, acetylene, propane, hydrogen and petrol. When mixed with oxygen in the atmosphere, they form a potentially explosive mixture.

If this mixture is accidentally ignited by an electric spark, an explosion can result in injury to people and damage to property.

The European directive ATEX (Atmosphères Explosibles) on the manufacture and use of equipment designed for explosion-prone environments has become mandatory in the European Union. Each piece of equipment, which bears the symbol Ex, must meet with the standards of directive 94/9/EC and be used in accordance with directive 99/92/EC.

MHE-Demag's explosion-proof equipment is designed to provide protection against an explosion using design features in accordance with explosion-proof standards CEI 60079-0 to 60079-7 and EN13463-1 to EN13463-8.

## Hazardous area classification

Inflammable gases & vapours	IEC/CENELEC				
	Protection	Zone*	Group	Subdivision*	Temp Class*
Acetylene	d and/or e	1 or 2	II	C	T2
Hydrogen	d and/or e	1 or 2	II	C + H2	T1
Ethyl oxide Butadiene	d and/or e	1 or 2	II	B	T2
Ethyl ether Ethylene	d and/or e	1 or 2	II	B	T4
Acetone Benzene Butane Propane Hexane	d and/or e	1 or 2	II	A	T3

MHE-Demag electrical explosion-proof products meet the requirements of Equipment Group II, Zones 1 and 2, Ex de IIB T4 as 'standard', and Ex de IIC T4 as 'special'.

\*Hazardous area classifications to be specified by end user for every enquiry.

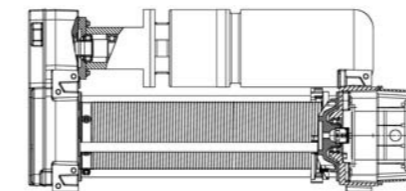


## MHE-Demag explosion-proof cranes and components

### Wire rope hoists and winches

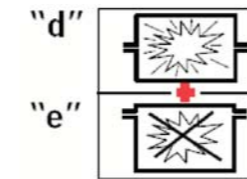
*Reliable, safe and versatile*

- Applications for normal, low headroom or foot mounting
- Two speed motions for fine positioning
- Heavy duty brake system with new safety concept
- Continuous temperature monitoring ensures optimum safety when operating in hazardous atmospheres
- Reliable automatic cut-off of the lifting and lowering motions in the upper and lower limit positions



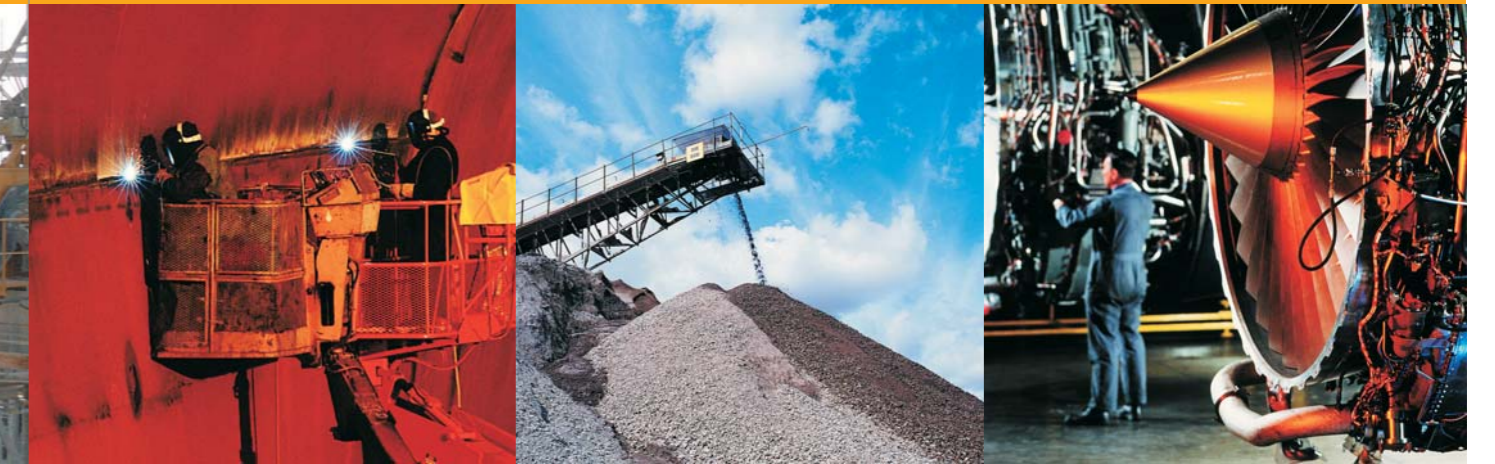
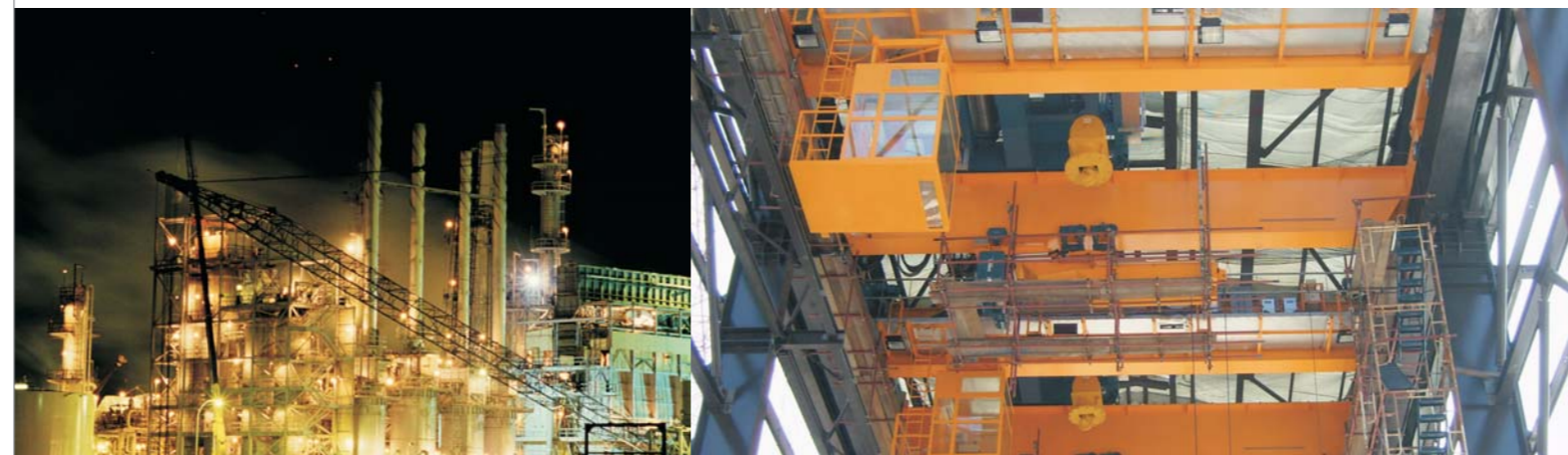
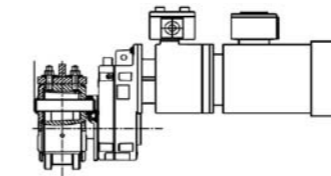
### Electrical control

- Controls in 'de' (flameproof + increased safety) execution ensures safe and efficient protection
- Incorporates innovative crane control technologies for reliable long service life



### Travel system

- Robust construction for years of trouble-free operation
- Energy efficient design ensures smooth running motions
- Generous ground clearance for added dimensional advantage
- Explosion protected in standard designs for zones 1 and 2, special non-sparking design as optional supply



## JDN air hoists

Features:

- Sensitive infinitely variable speed control for the precise positioning of loads
- Easy operation and high level of safety
- Frequent switching and extended duty cycles
- Sound absorption
- Insensitive to dust, humidity and temperatures ranging from -20°C up to +70°C
- Fail-safe starting, low maintenance vane motor

## Van Leusden manual chain hoists

Features:

- Normal headroom, low headroom and extreme low headroom
- Curved monorails, with inclination (maritime)
- Rack and pinion trolleys, with curved monorails
- Friction wheel drives
- Explosion protection
- Non corrosive, extreme environments (salt laden)
- Crane track / monorails with gap to be passed
- Extreme capacity / lifting height

