

YOUR LES®

QUICK GUIDE

TO

ATEX CHAIN HOISTS



WHAT IS ATEX?

ATEX Directive: The ATEX Directive (ATmosphere EXplosives) consists of two European Union directives that govern equipment and protective systems intended for use in potentially explosive atmospheres.

These are 'ATEX 137' or the 'ATEX Workplace Directive' and 'ATEX 95' or the 'ATEX Equipment Directive.'

NOTE: When purchasing an explosion-proof chain hoist, it is the ATEX 95 directive that is most relevant, as this details the use of equipment in potentially explosive atmospheres.

Explosive Atmospheres: There are environments where flammable gases, vapours, mists, or combustible dusts are likely to occur in quantities sufficient to cause an explosion if ignited.

WHAT ARE ATEX ZONES?

ATEX Zones 1 & 2: Hazardous Gas, Vapour, and Mist Environments. Zone 1 atmospheres are considered to be more dangerous than Zone 2.

ATEX Zones 21 & 22: Hazardous Dust Environments. Zone 21 atmosphere are considered to be more hazardous than Zone 22.

WHAT ARE ATEX CHAIN HOISTS?

ATEX chain hoists are specifically designed to comply with the ATEX directive. They are built to operate safely in hazardous environments where the risk of explosion is present due to the presence of flammable substances.

This type of hoist undergoes rigorous testing and certification processes to ensure that they are compliant with current ATEX standards.

FEATURES OF ATEX CHAIN HOISTS

Explosion-proof Construction: ATEX Chain hoists are constructed from materials and components that minimise the risk of sparks or ignition sources that could trigger an explosion in a hazardous atmosphere.

Sealed Components: These hoists feature sealed motors, gearboxes, and electrical components to prevent ingress of flammable gases, vapours, and dusts.

Static Dissipation: These chain hoists may incorporate features to dissipate static electricity, reducing the risk of electrostatic discharge that could ignite flammable substances.

Certification: ATEX chain hoists undergo thorough testing and certification by authorised bodies to ensure compliance with relevant directive.

They are typically marked with ATEX certification codes, indicating their suitability for use in specific hazardous environments.

Safety Mechanisms: They often include additional safety features such as overload protection, emergency stop buttons, and limit switches to enhance operational safety in potentially explosive atmospheres.

“ Constructed from materials and components that minimise the risk of sparks ”

WHERE ARE ATEX CHAIN HOISTS USED?

Oil & Gas: ATEX Chain Hoists are commonly used in offshore platforms, refineries, and petrochemical plants for lifting and positioning heavy equipment and materials in hazardous areas.

Chemical: These hoists are utilised in chemical manufacturing facilities for handling hazardous chemicals and raw materials in areas prone to explosion risks.

Mining: ATEX chain hoists are employed in mining operations where the presence of combustible dusts commonplace.

Pharmaceutical: In pharma manufacturing facilities, this type of hoist is used in areas where flammable solvents or powders are handled.

Food & Beverage: They are often used in food processing plants where flammable gases or dusts are present during certain production processes.

NOTE: The above list is not exhaustive. If you're unsure if an ATEX chain hoist is suitable for your environments, please give our trained Sales Team a call.

HOW DO I KNOW IF I REQUIRE AN ATEX HOIST?

If you manufacture or handle goods in an environment where the risk of sparking could cause an explosion, the chances are that you could require an ATEX chain hoist – but a thorough risk assessment should identify this risk.

Should you be operating in the following environments – chemical, petrochemical plants, oil refineries, gas power plants, wastewater treatment plants, paint shops, pharmaceutical, and food manufacturing – you will need an explosion-proof chain hoist.

If you have any questions about ATEX Chain Hoists and where they are best suited, one of our specialist team are always on hand to answer any questions.

OUR MOST POPULAR ATEX CHAIN HOISTS



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ATEX HAND
CHAIN HOIST**

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