

Ref.: swf1007sk_zone22_gb

Safety in Zone 22: Electric chain hoists SK in dust-explosive atmosphere

A majority of all dusts in industrial processes is flammable and may lead to disastrous explosions when building up an explosive atmosphere consisting of an air-dust mixture. Even seemingly harmless components such as flour or washing powder can thus become a threat for staff and production facilities. In order to avoid this, machines and equipment used in the so-called danger zones apply to a certain protection category against sparks and high operating-temperatures through their special construction.

One of the explosion-proof electric chain hoists SK by SWF Krantechnik GmbH from Mannheim is especially designed for Zone 22, in which dust atmospheres are seldom and only of short periods. Zone 22 can be areas such as the direct vicinity of filling stations at silos or in Big-Bag handling.

The EEx electric chain hoist for Zone 22 is based on powerful industrial hoists of the SK range and therefore offers all advantages and varieties such as trolleys and frequency inverter control for trolley drive and hoisting. This also allows for a rather competitive price.

Improved and certified sealants, applying as a minimum to protection category IP55, guarantee a maximum of safety when using the EEx chain hoists. The motors' temperature is continually monitored so that it can not rise to a critical level. All electric components are accordingly capsuled and thereby also prevent dust from entering into the hoist. Protective caps prevent dust from settling on the parts that are warm from operating.

The EEx electric chain hoist SK (II 3 D c IP 55 T 135 °C) meets all requirements according to guideline 94/9/EG and also the valid ATEX regulations.

The Spanish industry-supplier VINCA EQUIPOS INDUSTRIALES SA from Sant Andreu de la Barca has for example installed an EX electric chain hoist SK with an ultimate load of 2.500 kg at a manufacturing company in the food-industry. The hoist supports when filling Big-Bags in a dust-explosive atmosphere. The hoisting height is 3 meters and the operating range is set by the 10 meter long crane runway.

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Electric chain hoists by SWF Krantechnik –
universally applicable



swf1007sk_zone22_02.jpg:

Electric chain hoist SK for use in Zone 22

