





Expert's opinion

Nr. 557 / Ex 124718572.00 / 15

to

Chain Hoist & Trolley

Subject: Equipment / type Chain Hoist & Trolley / EX DSN, EX DSNP, EX

DSNG

Manufactured and submitted for examination DAESAN INOTEC INC.

Address 523 Sahyun-ri, Jungahn-myun, Gongu-si,

Chungcheongnam-Do

Korea

Standard basis EN 1127-1:2011, EN 13463-1:2009, EN 13463-

5:2011

Basis for those health and safety requirements

Not covered by the standard basis

Code for type of protection II2GD c IIC T4 T135°C

Offer number

Testing station order number 124718572



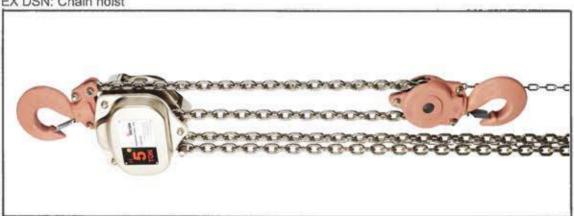




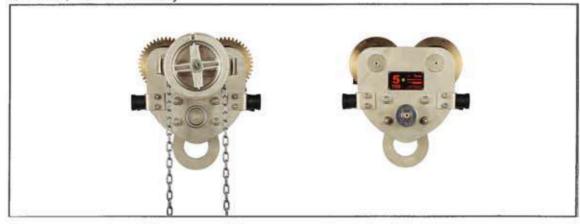
Description of the device

The hoists are hooked into the trolleys. The loads are hooked into the chain hoist in the same way. These systems are used for lifting, lowering and moving loads. The trolley moves on plain/gear rollers along a beam profile. Both systems are manually operated (hand chain/load chain). The braking mechanism consists of a locking pawl and two brake discs inside the chain hoist. For the transmission of the forces a gear box is inside the chain hoist.

EX DSN: Chain hoist



EX DSNG, EX DSNP: Trolley



Technical data:

Loads: 1, 2, 3, 5, 10 tons Hand chain: stainless steel (SUS304) Wheel: bronze

Lift: 45m, 24m (10 ton)

2. Manufacturer's documents

Reg. no.	Designation	Pages	Rev.	Date
1.	Manual of Chain Hoist & Trolley incl. calculation and drawings	78	24.07.15	18.11.15
2.	Ignition source assessment	2	05.11.15	18.11.15

Table 1







4. Assessment and statement

The static calculations have not been reviewed!

Evaluation is based on the documentation listed above. From the point of view of explosion protection, there are no safety-related concerns arising from the lifting, lowering and moving procedures. Where the work is carried out correctly, it is impossible for sources of ignition (e.g. hot surfaces, mechanically produced sparks or an electrostatic charge) to occur, if the conditions listed in §5 are adhered to.

5. Special conditions for safe use

To avoid an uncontrolled attach of the load to other objects, the trolley should only be driven on a horizontal plane. Otherwise the uses of appropriate limits (stops) are required.

The rollers of the trolley has to be electrostatic conductible to avoid electrostatic discharge. The beam profile on which the trolley rolls has to connect to the equipotential bonding system.

The maintenance intervals of the manufacturer have to be considered.

TÜV Rheinland Industrie Service GmbH Prüflaboratorium für Ex-Schutz Moltkeplatz 1 D – 45138 Essen

Essen, den 18.11.15

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