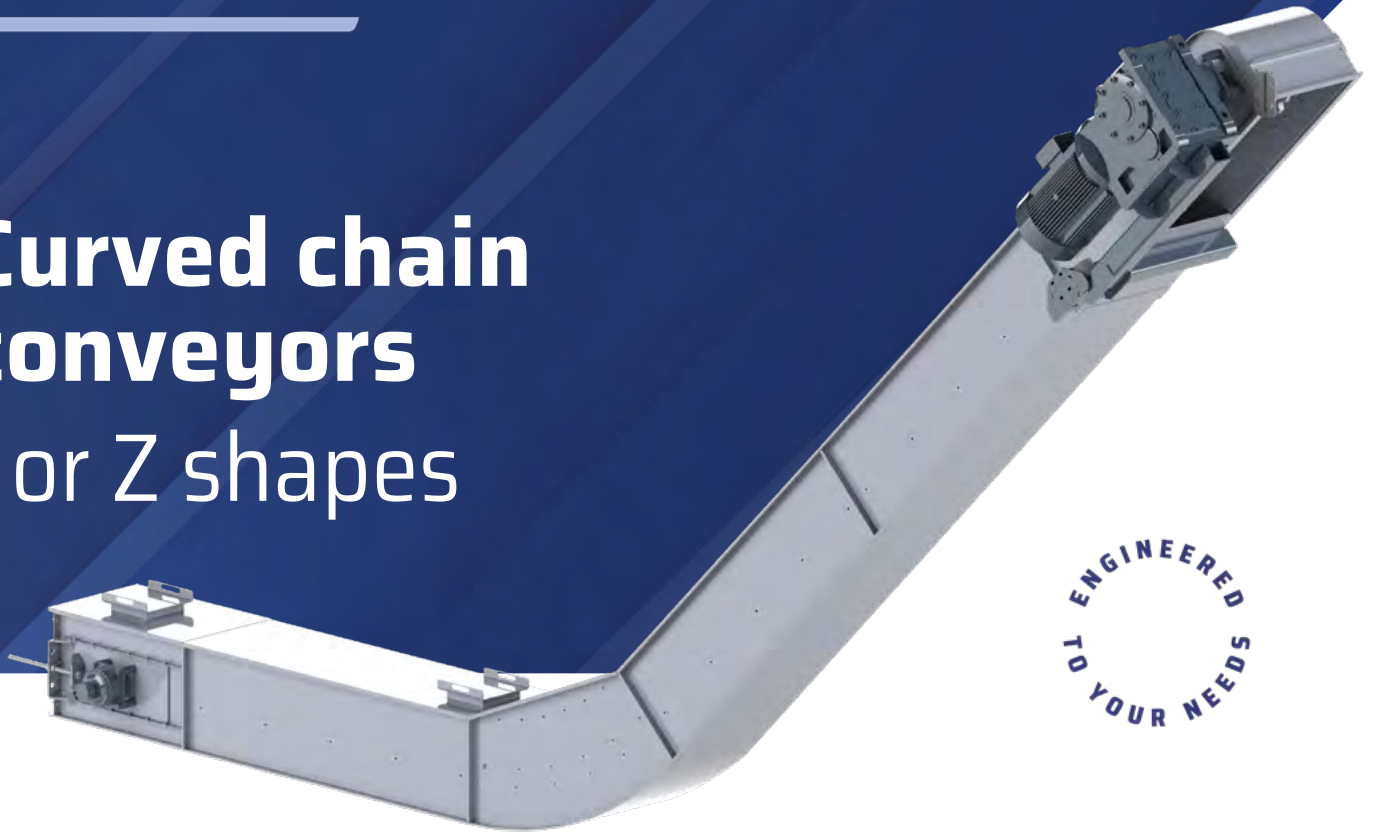


STOLZ

Curved chain conveyors J or Z shapes



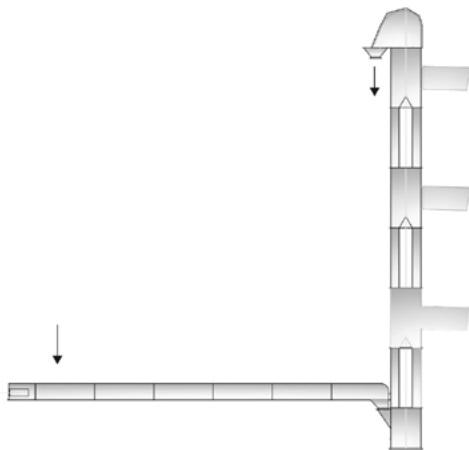
ENGINEERED
TO YOUR NEEDS

Our range of curved chain conveyors with steep slope is convenient and useful for industries with high explosion risks.

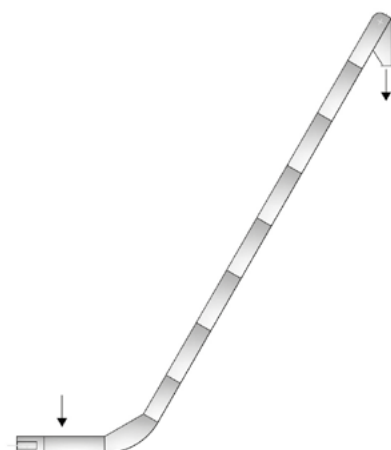
In risk assessment reports curved chain conveyors are preferred for product lifting to standard systems with bucket elevators horizontally fed by belt, screw, or chain conveyors.

Explosion risks are reduced significantly thanks to the slow conveying speeds of chain conveyors. According to the NFEN1127-1 standard at a speed below 1 m/s no spark is produced by a shock between 2 metallic parts.

The conveying speeds are usually adjusted between 0.2 and 0.4 m/s for chain conveyors and between 2 to 3 m/s for bucket elevators.



Lifting of product with a horizontal conveyor then a bucket elevator



Lifting of product with a curved chain conveyor

PRINCIPLE OF CURVES

Apart from the technical and standards-related aspects, elevators adapted to industries where there is a significant risk of explosion are relatively expensive because of their explosion protection systems.

Beside the «Z» curved chain conveyors (the most commonly used), we have also designed the «J» type conveyors.

One of the advantages to have a single curve instead of 2, is to allow the use of motors with lower power, thus reducing the required power consumption. The upper curve generates significant frictions requiring an increase of motors torque. By removing the upper curve we are also increasing the lifetime of mechanical elements thus subject to less stress.

These advantages will offer our customer lower running costs. Our range has capacities from 20 up to 400 m³/h varying according to slope.



Shape « J »



Shape « Z »



Curved chain conveyor



Curved chain conveyor head

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