



Personal News

## Poeth: largest ATEX-compliant Z-Conveyor ever for Beer Producer in Algeria

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One of the largest beer brewers in the world is investing substantially in Algiers where beer consumption is increasing at a rate of 10% a year. The company recently installed a completely new silo system at its newly acquired brewery near Algiers. Poeth Solids Processing from Tegelen in the Netherlands delivered the largest and highest ATEX-compliant Z-Conveyor ever as part of this project.

Every hour, 30 tons of malt and barley are transported up to a height of no less than 30 metres in this explosion-proof plant. The brewer's investment in this ATEX-compliant Z-Conveyor meant that less money had to be spent on explosion proofing elsewhere in the plant. In addition, the Z-Conveyor is energy-efficient and transports the malt and barley without damage.

### **Inexpensive and energy-efficient Transport without having to build expensive Underground Silos and Superstructures**

Bucket elevators are an excellent solution when products have to be transported vertically. However, according to Poeth, the expense involved in explosion-proofing bucket elevators can sometimes be avoided by using a Z-Conveyor system.



transport system itself by a factor of three.

Poeth

Solids Processing from Tegelen saw an opportunity here and has developed the new ATEX-compliant Z-Conveyor for transporting potentially explosive, dry products. There is no risk of explosion because the Z-Conveyor operates perfectly at speeds well below 1 m/s. Thanks to this unique characteristic and other features of the Z-Conveyor, the brewery in Algiers was able to avoid investing significant amounts in compartmentalisation, explosion suppression, explosion venting, skew prevention, automation and maintenance in order to achieve full ATEX protection.

### **Z-Conveyor effortlessly transports Malt and Barley up to a Height of 30 Metres**

The new Z-Conveyor is capable of transporting large volumes (5 to 220 m<sup>3</sup> per hour) of dry products horizontally, diagonally and vertically to significant heights. Until now, Poeth had mainly transported malt and barley up to a height of 10 metres.



In Algiers, Poeth

Solids Processing successfully designed and built an explosion-proof Z-Conveyor that effortlessly transports malt and barley up to a height of 30 metres. This makes the system in Algiers the largest and highest conveyor ever supplied by Poeth. The new Z-Conveyor from Poeth can be installed without a roof superstructure, underground silos or pits. So this well-known brewer was able to reduce its building construction costs significantly. The Z-Conveyor transports raw materials gently and without damage. This characteristic makes the new transport system particularly suitable for malt and barley in this beer brewery.

### **Explosion safety rated as “scorecard 4 - very good”**

Poeth Solids Processing delivered the Z-Conveyor to the Algiers brewery as part of a complete turnkey project. In addition to the transport system, Poeth also supplied the 5700 m<sup>3</sup> capacity silo structure, the Sea Container Tilting Unit, inline weighers, cleaning systems, spark detection and the electronic controls and

wiring. The official external ATEX certification agency awarded a high score for explosion safety in Algiers: “scorecard 4 - very good”. Poeth will soon build similar systems for the same brewer in Nigeria and Cambodia.