

Application

A producer of cement packs his product in a sack filling machine. The material comes from the storage silo through an air slide, fed in by a gate valve. The further material transport from the silo to the filling station occurs discontinuously by a number of screw conveyors, a bucket elevator and a conveyor belt.

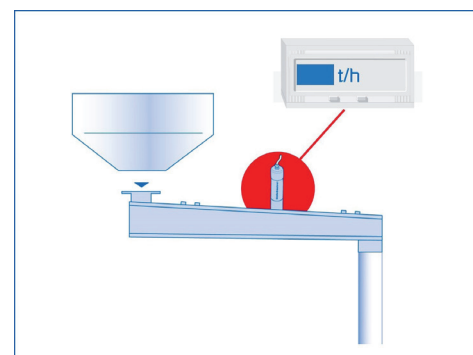
A central role in this application plays the used bucket elevator. To obtain a continuous material flow at the sack filling machine, the bucket elevator must be fed with a predefined quantity of material.

Overflows or drainages at the bucket elevator cause waiting times at the sack filling machine and have to be avoided.



Process Data

Customer:	cement producer (Germany)
Material:	cement
Installation location:	air slide system after main storage silo
Function:	trend measurement of filling level in an air slide system



Solution

The SlideControl non-intrusively measures the filling height on an air slide system and conveyors and generates a 4 ... 20 mA signal.

In the described construction the SlideControl is installed directly in the air slide after the main storage silo.

There he determines a quantity trend through constant measuring of the filling height in the air slide system.

With the help of the detected filling level the filling grade of the bucket elevator can be optimized. This ensures a constant amount of material at the sack filling machine

Customer benefit

- securing of constant material availability at the filling machine
- increasing of plant efficiency by faster start and evitation of standing and waiting time

