

Cement processing in cyclone dust heater

Flow metering with MaxxFlo HTC

Application

An important part of the production of cement is the processing of raw meal in the cyclone dust heater. During this process cement meal is heated by an airstream. Thereby CO2 is extracted from the cement.

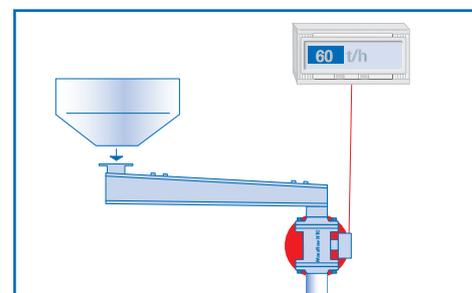
At the beginning of this process raw meal is stored in a silo, from where it is discharged via an air slide into a bucket elevator. The bucket elevator transports the cement up to the entry of the calcinator. Between the air slide and the bucket elevator the material quantity is measured in freefall.

Before the installation of the MaxxFlo HTC a Coriolis unit was used, to measure the material quantity. In case of an equipment failure of the Coriolis unit the material flow was interrupted. Therefore our client looks for a measuring device without installations in the air stream, to avoid an interruption of the production process.



Process data

Customer:	Cement plant (Germany)
Material:	Raw meal
Conveyed volume:	60 - 90 t/h
Installation place:	Freefall between air slide and bucket elevator
Function:	Contactless measuring in freefall



Solution

The MaxxFlo HTC measures high mass flow rates for dry solids from the exit of pre feeding devices e. g. screw conveyors, air slides or elevators. In this application the quantity of raw meal is measured in freefall between an air slide and a bucket elevator. Our customer looks for a measuring instrument without installations in the flow stream. The MaxxFlo HTC is a non-contact device, which can measure the material accurately.

Customer benefit

- Avoidance of over- or underdosing
- Low installation height
- No installations in the flow stream



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