

Multicor®-K System Accuracy Definition



- Quick and accurate measurement
- High short-term feed constancy
- Prerequisite for stable kiln operation

Application

Multicor®-K feed systems are designed for feeding of pulverized bulk solids.

Feed quality is determined by feed accuracy and constancy.

Being decisive for process balancing, the feed accuracy describes the material behaviour over a longer period of time whereas the feed constancy defines the uniformity of feeding in shorter intervals and is thus important, for instance, for burner appearance.

Construction

Feed accuracy results from the comparison of the mean value of 10 check measurements to the defined setpoint.

The check measurements have to be done within 48 hours. Depending on plant design, the amount to be checked is 5 to 30% of the weighed hopper fill weight.

Used as a measure of short-term accuracy, the feed constancy corresponds to the mean empirical variation coefficient computed from the standard deviation defined by DIN 1319 on the basis of thirty 10-second measurements.

Function

Designed as independent check system in accordance with ISO 9000, the on-stream calibration system consists of a weighed hopper or silo and a weighing electronics.

The weighing electronics relates the mass recognized and fed by the feed system over a certain period of time to the value of the weighed hopper and corrects the feed system accordingly.

Notes:

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