

3DLevelScanner HT for High Temperatures



The 3DLevelScanner HT is designed to measure the level and estimate the volume in storage silos containing challenging materials such as clinker, alumina, frac sand and fly ash. This model of the 3DLevelScanner has an operating temperature range of up to 356°F (180°C) to accommodate higher temperatures that may be present when material that has been heated in the production process is conveyed into storage silos. The 3DLevelScanner HT is ideal for use in the cement, aluminum, mining and power industries where there are multiple challenges such as dust or high humidity and very large silos where the material surface in the bin may be uneven and difficult to measure.

Material	Industry
Clinker	Cement
Fly Ash	Power
Alumina	Aluminum
Frac Sand	Mining

All silos at a plant can be integrated into a single network and viewed with MultiVision software.



Works in Dusty and Humid Environments

In the manufacturing process, materials such as clinker, alumina, frac sand or fly ash may be conveyed into the silo when they are still relatively hot. The 3DLevelScanner HT is designed to withstand these higher temperatures while maintaining a high level of measurement accuracy, unlike some non-contact devices that are prone to becoming unreliable in harsh environments. The 3DLevelScanner has been proven to perform in a wide variety of materials including heavy lump material like clinker, fine granular materials like alumina oxide or silica sand, or powdered materials such as fly ash.

3DLevelScanner HT for Harsh Environments



Bin Volume Accuracy for Powders & Solids



Dependent on the diameter and height of the silo and the desired level of volume accuracy, one or more 3DLevelScanners is mounted on the top of the silo in strategic locations determined by using advanced proprietary software. Each dust-penetrating, non-contact sensor sends pulses in a 70° beam angle, taking multiple measurements from the material surface and continually mapping the material surface to detect changes in level, account for uneven surface topography, and calculate a highly accurate volume estimate of the contents of the silo.



The 3DLevelManager software reports the lowest and highest points detected and the average level based upon a weighted average of all of the measurements detected in the bin. For the MV and the MVL models, a colorful graphical representation will indicate where high and low spots exist in the silo.



3DLevelManager
software provides
reliable volume
accuracy.



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