

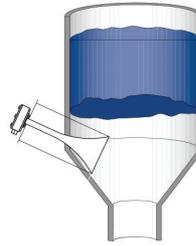
**BHA® Powerwave® Acoustic Cleaning Systems**

BHA Powerwave acoustic cleaners are a unique and direct approach to enhancing material flow. Using acoustic energy, the cleaner directs powerful sound waves into the material handling areas. The acoustic energy is strong enough to loosen stubborn buildup, yet gentle enough not to damage structural surfaces like other cleaning devices. This focused energy can fluidize the material to help eliminate bridging, ratholing, sidewall buildup and arching.



**Ratholing**

Ratholing can be reduced or eliminated by flange mounting an appropriately sized BHA Powerwave acoustic horn through the roof of a storage silo or bin. As the “rathole” begins to develop, the low frequency, high energy soundwaves will cause the material to resonate and loosen, allowing it to flow out of the storage vessel.



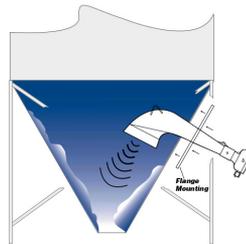
**Arching**

Arching can be a severe and hazardous problem. A properly sized Powerwave acoustic horn placed in the correct position on the silo or storage bin can loosen compacted material, allowing it to fall and flow freely from the storage vessel. With the correct automatic timing sequence, the BHA Powerwave horn can prevent this type of blockage from occurring.



**Bridging**

Bridging over the discharge of a hopper or other vessel can easily be eliminated by applying the BHA Powerwave D-Fluidizer. This compact acoustic horn can be mounted on an existing “poke hole” or can be quickly installed using the BHA mounting tube and flange. This horn directs high energy sound waves into a localized area to fluidize the bridged material and prevents the problem from reoccurring.



**Sidewall Buildup**

Sidewall buildup is one of the most common problems associated with baghouse or electrostatic precipitator hoppers. CLARCOR Industrial Air has been supplying acoustic horns as a solution to this problem for over 30 years. In many cases, the installation of one BHA Powerwave acoustic horn can significantly reduce or totally eliminate the buildup of material on the sidewalls of hoppers.



For more information about BHA Powerwave acoustic cleaning systems, please contact your [CLARCOR Industrial Air](#) representative.

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