

Industry Applications....

L C Sonics - Sonic Horns /Acoustic cleaners provide an effective solution to buildup and material flow problems within a wide range of industries, examples include.

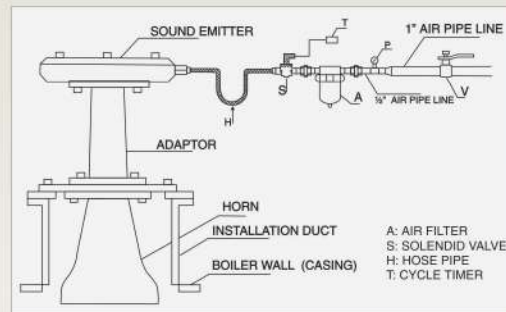
- Power generation Plants
- Cement Plants
- Chemical
- Steel Industries
- Sugar Industries
- Fertilizers and Mineral Industries
- Food processing Industries
- Hour Material handling
- Dairy Plants
- Detergent
- Petro chemical & Chem. Industries
- Pharmaceutical & Paint Industries
- Oil Refineries
- Brewing and Distillery
- Smelting Industries
- Waste to energy plants
- Refinery
- Pharmaceutical Wood processing
- Gypsum



Sonic Horn Installed In Super Heater zone.

Sonic Horn Installed In Economiser.

Sonic Horn Installed In Nova Petrochemical.



Sonic Horn Installation Arrangement Drawing.

Model LCS 100 : Our Largest model having fundamental frequency of 100 used in bag houses, large silos and bins etc. May also be used to break up bridging and rat-holing on bins and hoppers from the top. Effective cleaning distance is up to 60' and 20' diameter.

Technical Specifications

MODEL	MATERIAL	MAX. TEMP.	SPECIFICATION
LCS-1	CAST IRON	UP TO 350°C	FREQUENCY : 175 -250 Hz
LCS-2	CAST IRON	UP TO 350°C	100 -250 Hz
LCS-3	S.S. 304	UP TO 700°C	OUT PUT POWER: 140-150 dB
LCS-4	S.S. 310	UP TO 1200°C	AIR PRESSURE: 5-7 kg./Cm ²
LCS-5	S.S. 304	UP TO 700°C	AIR CONSUMPTION: 2-3 CFM
LCS-6	S.S. 310	UP TO 1200°C	
LCS-7	S.S. 304	UP TO 700°C	
LCS-8	S.S. 310	UP TO 1200°C	
LCS-9	S.S. 304	UP TO 700°C	
LCS-10	S.S. 310	UP TO 1200°C	



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ENTERPRISING FOR EXCELLENCE



L.C. SONICS



About Us....

L.C. Sonic was established in the year 2002 by technocrats with thorough technical knowhow and a drive to offer technologically superior acoustic cleaning systems to the user industries.

They started with a development and manufacturing facility in Pune and soon upgraded the operations by acquiring state-of-the-art equipments and machineries. The company also recruits a team of engineers, technicians and supporting personnel who are constantly trained to excel in their responsibilities.

Our policy goes beyond developing products to include pre and post sales service. We start by first understanding and analysing the needs of our customers and then developing the best possible customised solution; a fact that is acknowledged by the testimonials of our customers.

All along, our emphasis is on augmenting the Research and Development process to offer better acoustic cleaning products that not only score over conventional cleaning systems but also offer significant technical and financial benefits to the end users.

In keeping with its commitment to quality, the company is also in the process of implementing the prestigious ISO 9000 standards. We are working towards soon becoming the most preferred partner for our customers.

About Sonics Horn....

The basic principle of Sonic Horn - an acoustic cleaning system - is that kinetically activated dust particles clinging to any solid surface get resonated with sound waves and dislodge from the surface they adhere. Once dislodged, these particles fall due to gravity or fly away in the air.

Sound waves and acoustic energy are generated by a bell shaped sound emitter system powered by compressed air pressure of 5-7 kg/cm². It produces sound waves of 140-148 dB having lower fundamental frequency.

The acoustic energy carried by the sound waves is dependent on two factors:

- i) The Fundamental Frequency of the sound.
- ii) The loudness or intensity of frequency.



Applications ...

The Sonic Horn finds extensive applications in industries and processes.

BOILERS: Sonic Horns are used to supplement or replace steam soot blowers in industrial or utility boilers. They help in removal of soot in the heat-transfer areas and surfaces of boilers, economizers, super-heaters, and heat exchangers.

ESP: Sonic Horns are used for cleaning electrostatic precipitator distribution plates, collecting plates and electrode wires.

BAGFILTERS: Sonic Horns find application in Bagfilters for reducing pressure drop and increasing the bag life. It replaces reverse air pulse jet and shaker units.

HOPPER, SILOS & BINS: Sonic Horns are used to eliminate ratholing, bridging, build-up problems by fluoridizing dust in Hoppers, Silos, and Bins.

SPRAY DRYERS: Sonic Horns help in breaking up agglomerates on the internal wall of spray dryers.

DUCTWORKS, I.D. FANS, CYCLONES: Sonic Horns help in eliminating build-up problem in variety of ductworks, impeller and casing of I.D. Fans and Cyclones.

Advantages....

Sonic Horns offer several advantages.

Continuous And Automatic Online Cleaning: Sonic Horns activated for 10-15 seconds every 10-30 minutes depending upon the dust load prevents the particles from adhering to each other as well as to the surrounding surface.

Cleaning Inaccessible Places: As sound travels in space in all directions, it cleanses remote inaccessible places that are not reachable by other cleaning methods.

No Wearing Off Of Heating Surfaces: Mechanical/Steam Soot Blowing cleaning system causes corrosion and considerable wear and tear of the metal surfaces reducing their life whereas Sonic Cleaning System causes no such wearing off or damage.

Sonic Cleaning Improves Plant Efficiency: Sonic Horn prevents particulate buildup in the tubes, which significantly maximises the process efficiency throughout the plant.

Increases Product Recovery: Sonic Horn cleaning system lowers the number of costly shutdowns by permitting maximum productivity.

Low Operating Cost: Operating cost of Sonic Horn is negligible as compared to steam soot blowers, which consume up to 2-3% of the heat generated.

Low investment and maintenance cost

Reduces power consumption

