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MM AIR BLASTER

Engineering Solution to Material Blockade



High Performer.

Established in 1987, MM Overseas, has been successfully achieving one milestone after another in providing solutions to material build-up problems.

With the phenomenal growth of the Cement Plants all over the world and also of Thermal Power Plant, Fertilizer, Chemical Pharmaceutical, Paper, Sugar & Various other industries; the demand for effective solution providers for material build-up has also increased rapidly. To Provide a quality and reliable Air Blaster Systems for these industries MM Overseas, with it's constant endeavour, has attained the distinction of being one of the largest Air Blaster Systems manufacturing company. It is one of the leading suppliers to well known companies all over the World.

Presently it has a very efficient team of professionals involved in the design, manufacturing installation and service of the equipment, in order to improve the productivity of the various user industries.

Flow-related problems like ARCHING, BRIDGING, FUNNELING and

RATHOLING have always been associated with process industries as well as power industry world over....so have material build-up problems where storage bins, silos etc. are employed in plants.

Cement and Power industries are the two critical core sectors in any national economy. In fact these industries hold the key for development of a country.

These days Cement Plant all over the world face flow related problems of coating or jamming in their high temperature zones like Cyclones, Feed Pipes, Riser Ducts, Smoke Chambers, Kiln Inlet and Coolers and also in areas like gypsum / limestone hoppers, coal bunkers where the temperature is normal but moisture and fineness create further complication.

Similar problems are faced by coal fired Thermal Power Plants, Steel Plants, Chemical Plants, Fertilizer Plant, Coal Washeries and many more industries, where materials are stored in bulk quantity in bunkers, hoppers, bins and in silos. These jammings not only affect the productivity of the plant but also affect the people operating and maintaining these plants.

Milestones

•1987

Established & started the field trials.

•1989

Commercial production started & 1st installation - J.K. White Cement.

•1990

1st installation in Thermal Power Plants.

•1993

1st installation in Iron Ore Mines.

•1995

Excellence award in productivity, quality, innovation & management by IES, New Delhi.

•1997

Started manufacturing heat resistant castings for Cement and Automobile industries.

•1999

1st overseas installation at West Africa Cement Co. TOGO.

•2000

5000th Air Blaster successfully installed.

•2005

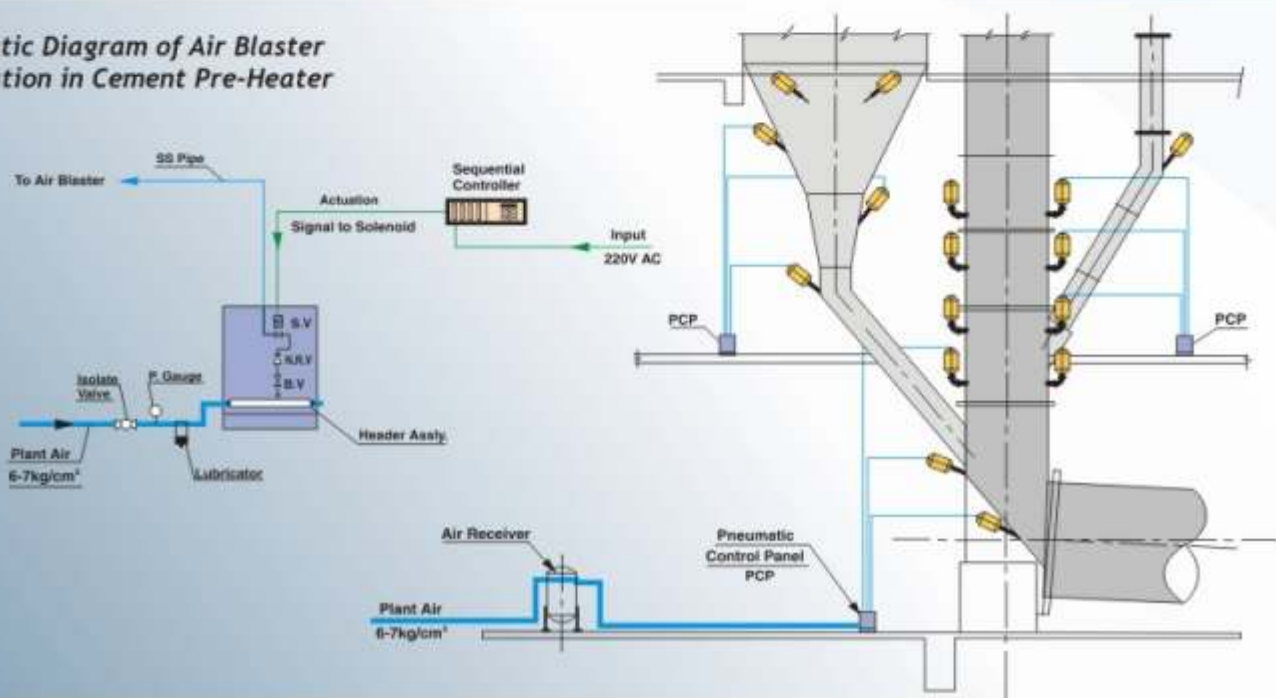
15000th Air Blaster installed.

•2009

Started Manufacturing Refractory Anchors



◆◆◆ Schematic Diagram of Air Blaster Installation in Cement Pre-Heater



Solution

Conventionally, at above mentioned plants, the normal practice was to remove these coating / jamming by manual poking or some other mechanical methods like Vibrators, which are hazardous as well as inadequate to solve the problem. Air Blaster system is a complete engineering solution to jamming/chocking problem. It is safe, easy to maintain, reliable even over extend period of time and at the same time very effective and efficient.

Operation

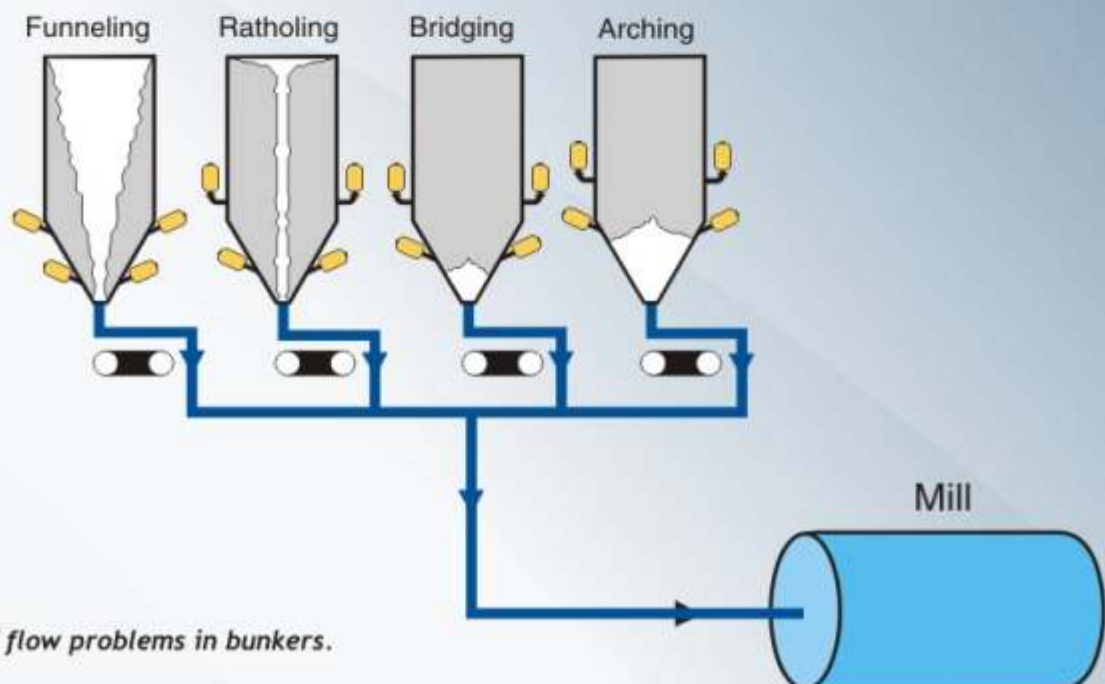
The compressed air is stored in an air receiver which maintains the air pressure at 6 to 7 kgf/sq. cm. This compressed air is fed to the point of discharge through a 100/150mm opening through operation of pneumatically controlled valves. The sudden but controlled release of compressed air into the stored material is at a rate faster than the material can absorb it, thereby causing the material to get dislodged and move. Further, the installation of the nozzle is in such a way that the air discharge is parallel to the surface so that the reaction is not transmitted to the structure.

The actuation of the Air Blaster can be done either manually or through Electronic Sequential Timer.

Major Components of the System:

1. The Air Blaster vessel with hose whip and quick exhaust valve.
2. The Pneumatic panel consisting of Control Line Valves, Lubricator, Pressure Gauge, Line Isolating Valves and stainless steel pipe line connecting pneumatic panel with Individual Air Blaster vessel.
3. The mounting package consisting of nozzle, flanges and enclosures.
4. Micro-Controller based automatic electronic sequential controller with 4 grouping arrangement, tailor made for Air Blaster operation.

Model	Discharge	Tank Cap. (liters)	Fad At (7 kg/cm) (in liters)	Application
AB-05-020	050 mm	20	140	Chutes, Small Section
AB-10-050	100 mm	50	350	Chutes, Feed Pipes
AB-10-070	100 mm	70	490	Chutes, Feed Pipes, Cyclone
AB-10-100	100 mm	100	700	Feed Pipe, Cyclone & Riser Duct
AB-10-150	100 mm	150	1050	Cyclone, Riser Duct, Cooler, Hopper
AB-10-300	100 mm	300	2100	Cooler, Hoppers, Bunkers, Silos
AB-15-150	150 mm	150	1050	Cooler, Hoppers, Bunkers, Silos
AB-15-300	150 mm	300	2100	Cooler, Hoppers, Bunkers, Silos



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Various types of flow problems in bunkers.

Different Type of Nozzles



Air Blasters are also used in very large number in following Plants and Industries:

- Cement plants- Kiln inlet, riser ducts, cyclones, feed chutes, cooler.
- Thermal Power Plant - Raw Coal Bunker, Coal Handling Plant (CHP), Coal Chutes etc.
- Steel Plants - Sintering Plant (Hoppers), Coke Oven Plant, Refractory Plant, Raw Material Handling Plant etc.
- Mines - Coal, Lignite and Iron Ore etc.
- Coal Washeries - Transfer Chute, Bunker/Hopper
- Paper Industries
- Sugar Industries
- Chemical Plants
- Fertilizer Plants
- Food & Pharmaceutical Industries





The Advantages

- MM Air Blaster operates without interrupting the plant operation thus avoiding production loss.
- MM Air Blaster operation will not affect the structure and surface.
- MM Air Blaster ensures increase in production by optimum capacity utilization of hopper/bunker. Further, it also reduces the running and maintenance cost of material handling system (conveyer belts) and also saves power.
- MM Air Blaster can be serviced without dismantling the Blaster.
- MM Air Blaster works on plant air and no specific quality of instrument air is required. However, in case, where plant air is not available at site, a portable compressor is sufficient.
- Spring loaded piston design helps in mounting the Blaster in any position.



Refractory Anchors

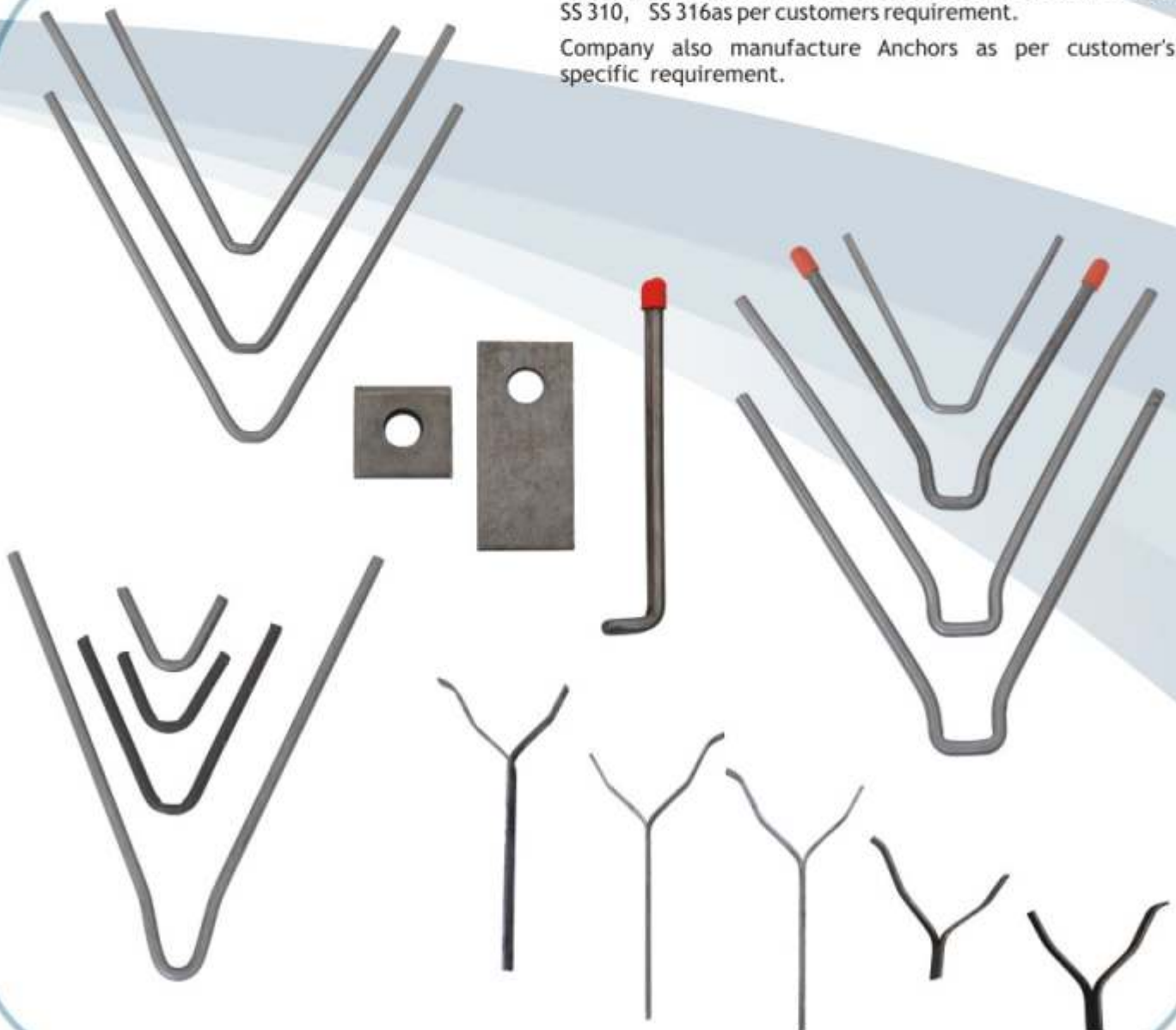
Company also manufacture Refractory Anchors for the Cement industries, Steel Plants, Chemical and Petrochemicals plants in Stainless Steel in wide varieties. Company has already supplied to plants in UAE and Oman. They all differ in sizes, thickness, length, material etc. We manufacture these Anchors in different material as per the requirement of the customer. Some of the models produce are as under:

- V Castable Anchor (With or without plastic caps)
- U Castable Anchor (With or without plastic caps)
- TWM Anchors, various models ranging from 70-500mm
- FW Anchors, various models ranging from 75-500mm
- UV Anchors
- Brick holder hooks
- Hinged Castable Anchors
- KILN hood retaining plate
- Welding loop UV-OE

and many more.....

These are available in different SS grades like SS 304, SS 308, SS 310, SS 316as per customers requirement.

Company also manufacture Anchors as per customer's specific requirement.



The Company

- MM Overseas is based in Faridabad (Haryana) 30 km. from New Delhi. The company has an excellent record of supplying Air Blaster Systems to users in India & Overseas.
- MM Overseas designs, develop and manufactures a comprehensive range of equipment which caters for the widely varying needs of our customers.
- At MM Overseas, we aim for full customer satisfaction from the moment of initial contact through consultation with our experienced engineers and subsequent installation of equipment and service follow up.
- With Quality as its prime objective MM Overseas is marching ahead since Three decades.



The Markets

- MM Overseas has earned its reputation through its attention to customer needs and dedication to quality.
- Major global Cement Customers are Lafarge, Holcim, Siam Cement, Ital Cement, Titan Cement.
- Indian major customers are all the leading Cement Plants including ACC, Ambuja Group, Grasim Industries, India Cement, UltraTech, Lafarge, FL Smidth, Krupp Polysias, KHD India, IKN India, FFE Minerals, Walchandnagar Industries.
- The other esteemed customers are NTPC, SAIL, NLC, Coal India, Hindalco, NFL, Thermax (Heat Recovery System for WARTSILA DG Sets) and many more.
- MM Overseas is committed to continuous product development to meet our customers' requirements that ensures that we shall remain a leading supplier of Air Blaster System.

Countries



Our Overseas installations are located in-

- | | | | |
|--------------|--------------|----------------|------------------|
| • BANGLADESH | • KAZAKASTAN | • OMAN | • TOGO |
| • BHUTHAN | • KENYA | • PHILLIPINES | • U A E |
| • EGYPT | • KUWAIT | • SAUDI ARABIA | • UGANDA |
| • INDIA | • LEBENON | • SRI LANKA | • UNITED KINGDOM |
| • INDONESIA | • MALAYSIA | • SUDAN | • YEMEN |
| • JORDAN | • NIGERIA | • THAILAND | |



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