

MM AIR BLASTER

A Profile



MM OVERSEAS (INDIA)

ONE TECHNOLOGY



MANY APPLICATIONS

An
ISO 9001:2015
Company


dun & bradstreet





Power and Rise

MM Overseas now infuses colours in its approach to business and logo. The objective -defines our focus to reinvent ourselves with the passing of time. More aggression, more vitality and more dedication.



The era of a new change

With the phenomenal growth of the Cement Plants, 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. An Air blasters a de-clogging device commonly used in Bulk Handling Industry with the main function to unclog places that are difficult to break.

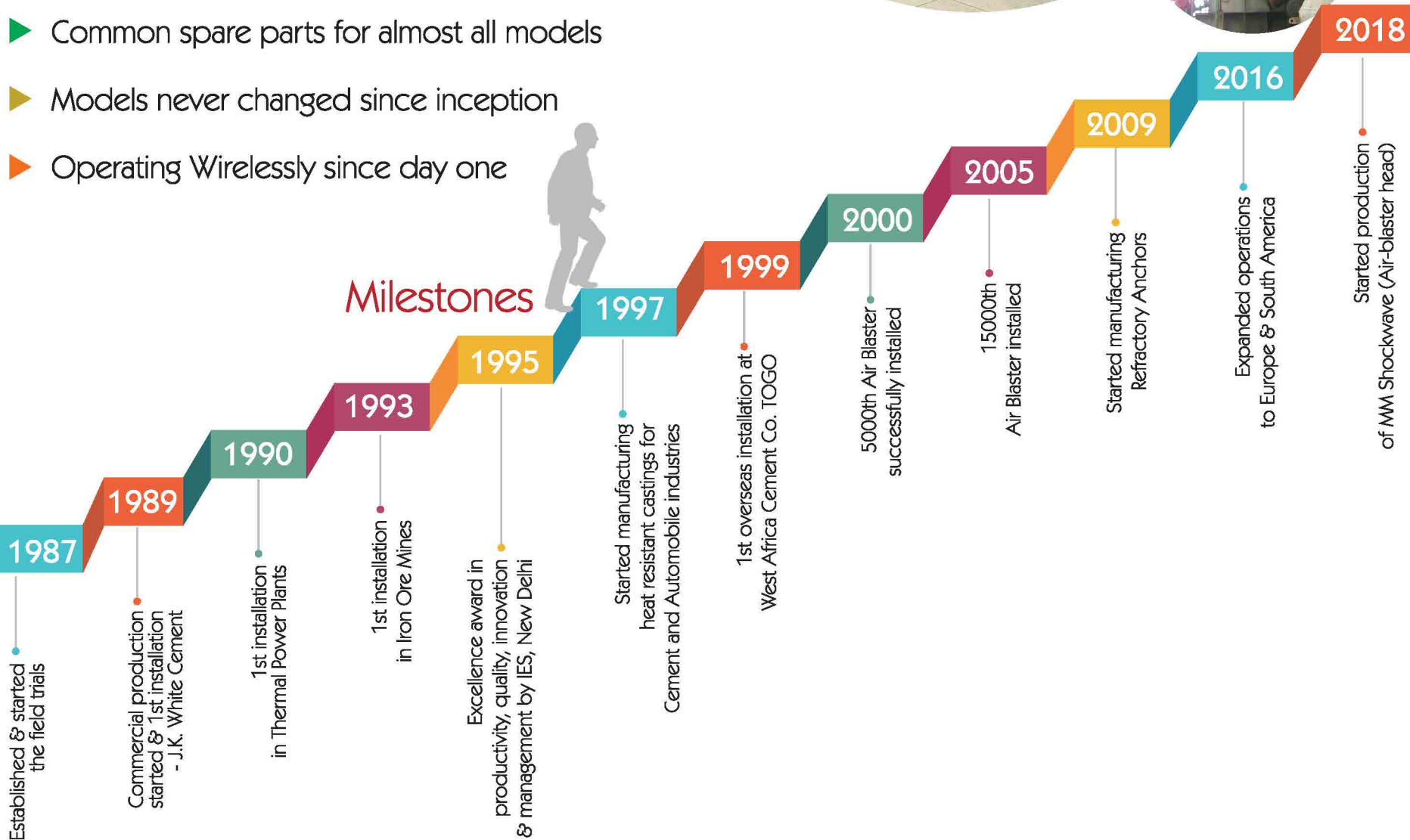
Air Blasters, according to a study, will be a key solution provider to key industries globally. A key to industrial development and technological advancement, it will provide strategic advantage in most areas, such as cement, sugar, defense, mining, etc. Hence impacting global manufacturing directly. The Air Blaster, normally operates using an automatic sequencer. This allows impediments occurring in mostly Bulk Handling Industries.

A saga of inspiration

It was in 1987 that MM Overseas began its operations. As quality began defining the achievements of MM Overseas, it provided the ground for more systematic processes.

This journey of excellence has inspired the MM Overseas to evolve and simultaneously create value for esteemed clients across more than forty countries.

- ▶ Full Turnkey solution provider from Site Analysis to Commissioning / Supervision
- ▶ Negligible maintenance required, brings the overall maintenance budget down
- ▶ Very easy to service and maintain
- ▶ Impact force is more than the competition
- ▶ Common spare parts for almost all models
- ▶ Models never changed since inception
- ▶ Operating Wirelessly since day one



Problems

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.

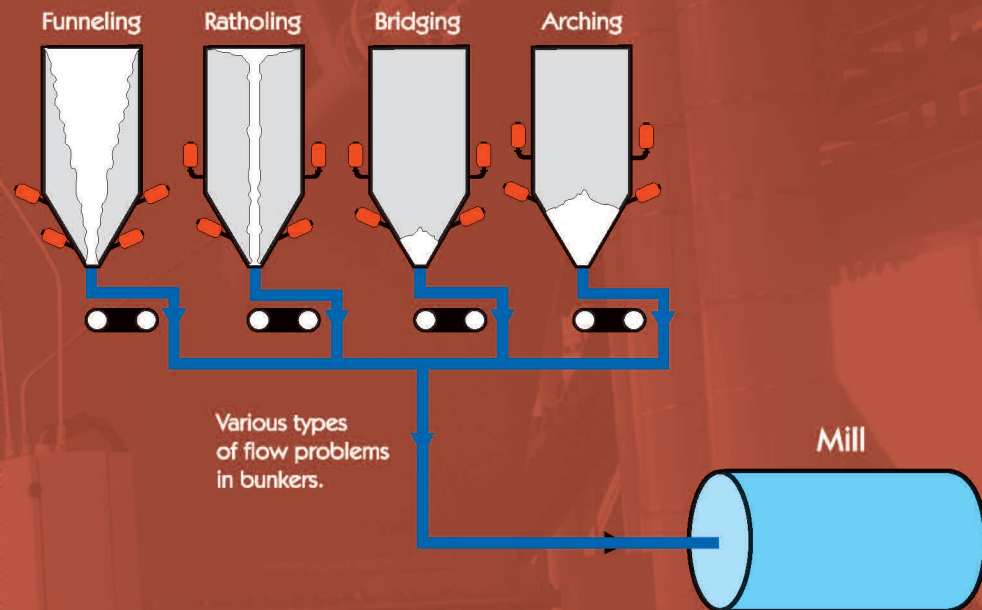
Cement and Power industries are the two critical core sectors in any national economy. In fact these industries hold the key for development of a country.

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.

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.

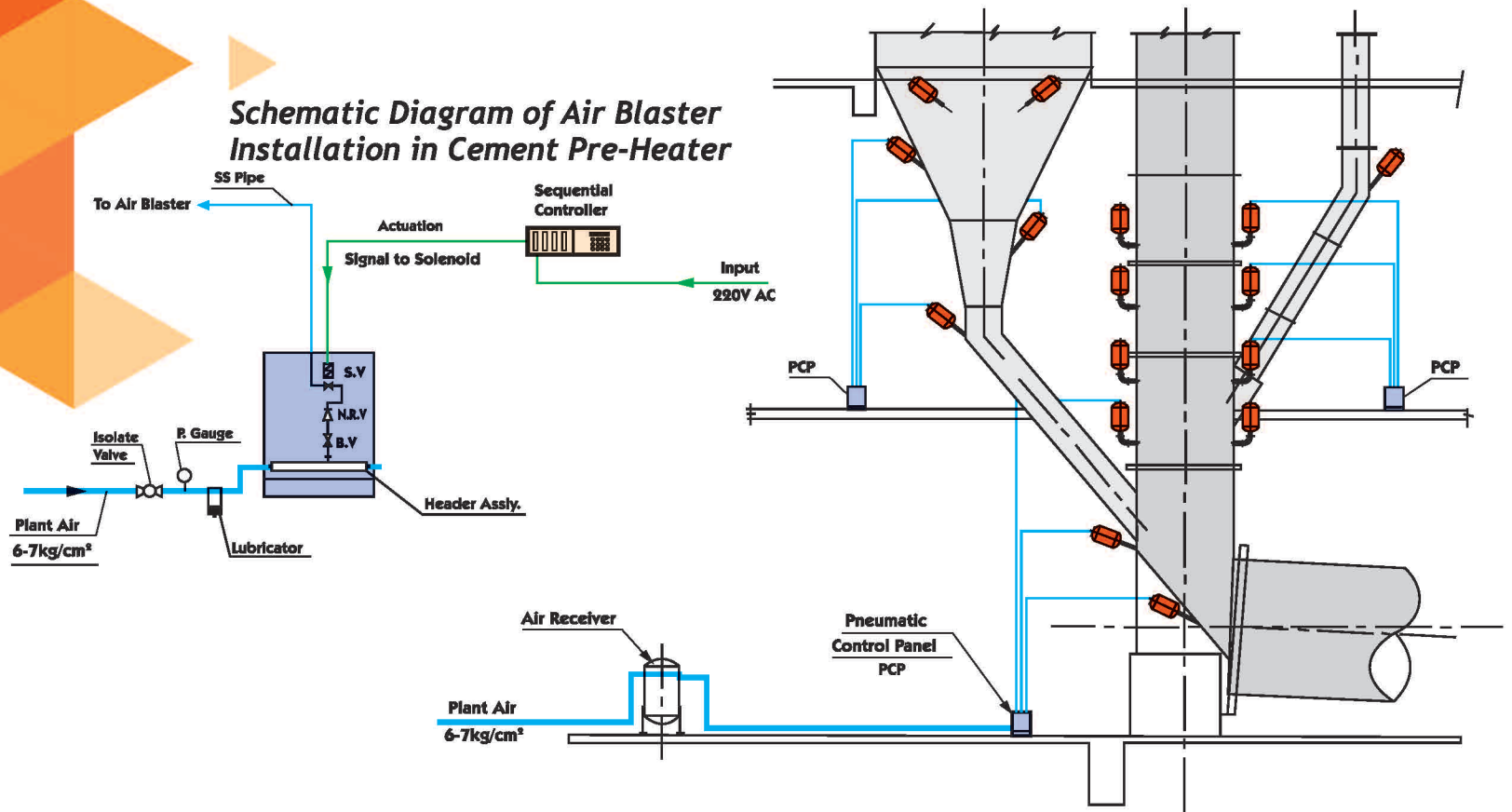


Operation

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.

Schematic Diagram of Air Blaster Installation in Cement Pre-Heater



Major Components of the System

- The Air Blaster vessel with hose whip and quick exhaust valve.
- 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.
- The mounting package consisting of nozzle, flanges and enclosures.
- 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 ²) (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

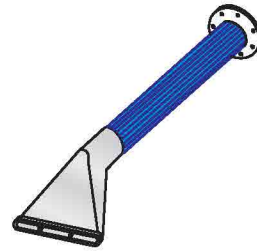
Type of Nozzles



180 Deg Nozzle
N-100-180
N-150-180



20 Deg Nozzle
N-100-020
N-150-020



45 Deg Nozzle
N-100-045
N-150-045



90 Deg Nozzle
N-100-090
N-150-090



30 Deg Blow
N-100-030
N-150-030



M 20 Nozzle
N-100-M20
N-150-M20



M 45 Nozzle
N-100-M45
N-150-M45



Socket Nozzle
N-100-DN
N-150-DN



Nozzle details

N-100 - 100 mm discharge nozzle
 N-150 - 150 mm discharge nozzle

- Specially Designed Nozzles for specific areas of Pre-Heater tower and Cooler.
- Nozzles play the most crucial part in the performance of the Air Blaster
- High Temperature HRCS Grade -9 (SS 310)
- MS (Mild Steel) Nozzles for Silo/Hopper Application
- Supervision for Installation of Nozzles by our Engineering team highly recommended for desired results.
- Nozzle selection to be done by our Engineering team according to the specific areas

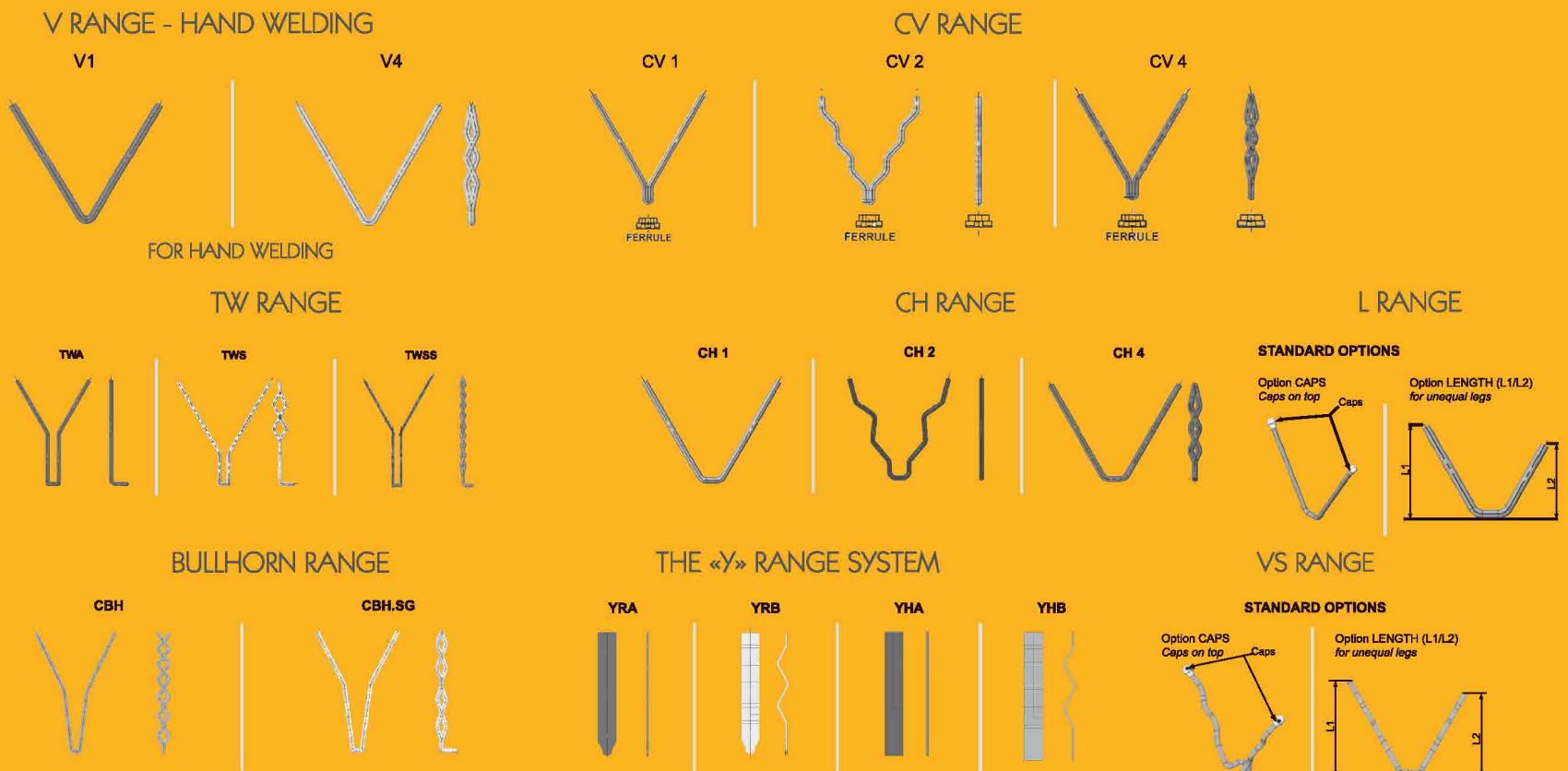


Refractory Anchors

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
 - Customised Anchors available as per customer's specific and drawings. **and many more...**
- Available in different SS grades like SS 304, SS 308, SS 310, SS 316, SS 253MA, Inconel 800 as per customers requirement.





Insulation Blocks & Covering

Hysil Thermal Insulation Blocks
 Calcium Silicate Blocks
 Calcium Silicate Pipe
 Covering Blocks



Ceramic Fibre Products

Ceramic Fibre Paper
 Ceramic Fiber Cloth
 Ceramic Fiber Blanket

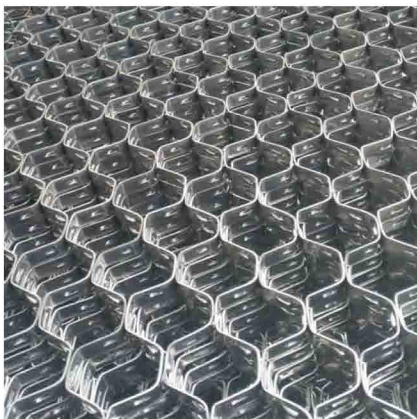


Polymer Liner

UHMWPE (Polymer Liner)
 For SILOS
 For HOPPERS

Other Products

- Hysil/ Calcium Silicate Blocks
- Calcium Silicate Powder
- Ceramic Fibre Bulk/ Sheet/ Rope/ Blanket/ Paper
- SS Hex Mesh
- T Sections
- Melt Extract Fibres
- Polymer Liners



SS Refractory Hexmesh

Hex flat



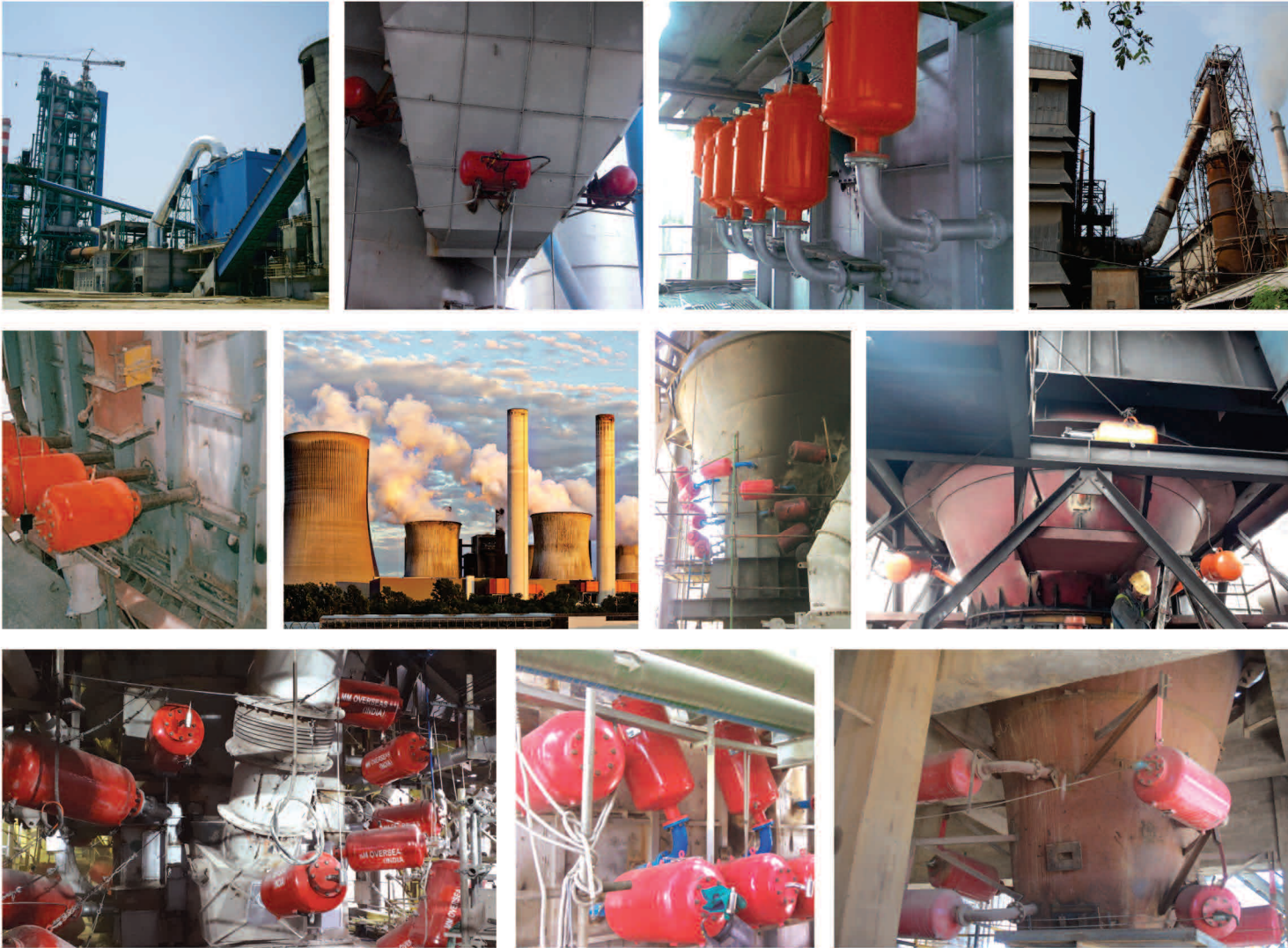
Rollers

Belt Conveyor Rollers



Rubber Conveyor Belts

Rubber Sheets of all grades



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 Plant** • **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.

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., Dangote Cement
- 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.

M/s M M, OVERSEAS (INDIA), has supplied and installed 10 nos. of 150 Ltrs capacity Air Blasters at various locations like C-5 feed pipe, Kiln inlet, cooler and Burner pipe.

The Air blasters were commissioned on April 19, 2004. The performance of the same is under observation and will be ascertained in due course of time.

Eng Adnan AL-Obiedat

Plant Director, TABUK CEMENT Co., Saudi Arabia

This is to certify that M/s. M. M. Overseas, India has supplied and installed 26 Nos of 150 Litre capacity of Air Blasters at various locations of our Kiln Pyroprocessing System like Cyclone, Riser Duct, Kiln Inlet and also Bumper Pipe.

The Air Blasters were commissioned during October 2000. They have been working satisfactorily since then with negligible maintenance and we have been eliminate Kiln stoppages resulting from frequent cyclone jamming.

Further their sales service is also found good.

Cevat Erdev

Works Manager, RAS AL KHAIMAH CEMENT COMPANY, UAE

This is to certify that M/s. M. M. Overseas, India have supplied Ten (10) 150 Litre capacity of Air Blaster wrth 150mm discharge. Out of these, Eight (08) were installed in our Line No.2 Clinker Cooler in the KIOS (IKN) area.

The units were commissioned during third week of April 2002 So far more than one year since commissioning the blasters are working satisfactorily, helping to eliminate coating formation at side walls al Cooler IKN Section.

AHMED MADKHALI

Works Manager, SOUTHERN PROVINCE CEMENT COMPANY, Jazan Plant

This is to certify that the blasters supplied and commissioned on 15th Mar' 03 against the above purchase order has been successfully passed all the performance guarantees and warranties as per the contract terms.

The overall project performance and services given by M/s MM Overseas India is good and met our expectations.

D. Muruganandam

Manager Process, LAFARGE MALYAN CEMENT, Rawang Works, 48000 Rawang, Selangor Darul Ehsan, Malaysia

This is to certify that M/S MM OVERSEAS has supplied a total of 21 numbers of 150 litres capacity Air Blasters and they were commissioned and put into service on 27th May, 2004. The performance of the Air Blasters are very satisfactory and require very minimum maintenance time and cost.

S. THIRUPATHI

Process Manager, LAFARGE MALYAN CEMENT, Kanthan Works, Batu 131/2, Jalan Kuala Kangsar, 31200 Chemor, Perak Darul Ridzuan, Malaysia

What our Clients say about us

We have installed 12 air blasters supplied by MM Overseas India in February 2005 . It was erected and commissioned by Mr. Kawaljit Singh. The air blasters were installed in bypass bleed gas duct, Kiln inlet, riser duct and kiln inlet ramp.

The air blaster have given good performance in the installed location and reduced manual cleaning intervention. The system is working since installation with out any maintenance problems.

Serif EL Menoufi

Plant Manager, LAFARGE CEMENT- TITAN, Beni Suep Cement Co., Egypt, Cairo

We would like to acknowledge the efficiency and effectiveness of your blasters, specifically those installed at the kiln inlet and precalciner. In 2017, we have ordered 12 blasters from you, and all of these were installed in 2018. As of this moment, all are working well

This has been a more frequent buildup spot, which we would like to address during the shutdown. By placing the correct blasters and to orient them to maximize buildup removal, we are quite sure that this recurrence will be minimized. Hence we need your professional assistance for the nozzle inclination and installation. We are planning to install the 6 units in replacement of our old Vortex blaster, and if necessary, relocate some of your installed units in areas where they should be more useful.

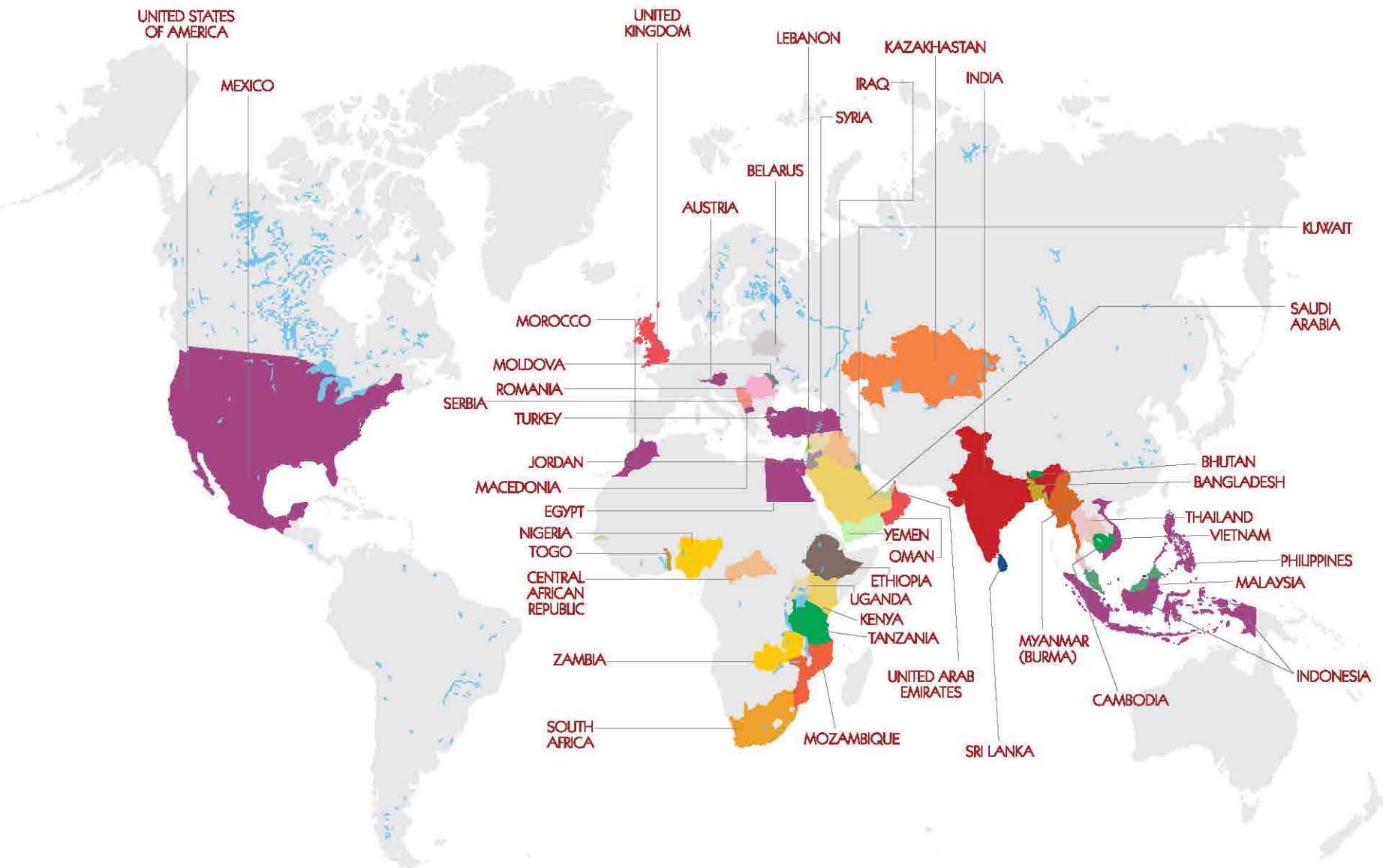
Jeffrey Dolor

Production Manager, REPUBLIC CEMENT – Teresa Plant

Few of our Prestigious Clients:



...and many more



Head Office

Export Sales Managers
in partnership with local agents

MM OVERSEAS (INDIA)

Factory:

64/2, Industrial Area Faridabad-121 001, Haryana.(India)

Tel. : +91-129- 4113229

Mobile : +91 9811088427 & +91 9717085854

E-mail : mmo@mmoverseas.in

Website : www.airblastermanufacturer.net

Head Office:

1221, Sector-15, Faridabad - 121007, Haryana (India)

Tel. : +91-129-4101221

Mobile : +91 9811088427 & +91 9717085854

E-mail : chirag@mmoverseas.in

www.mmairblaster.com

