



PNEUMATIC SCREW PUMPS

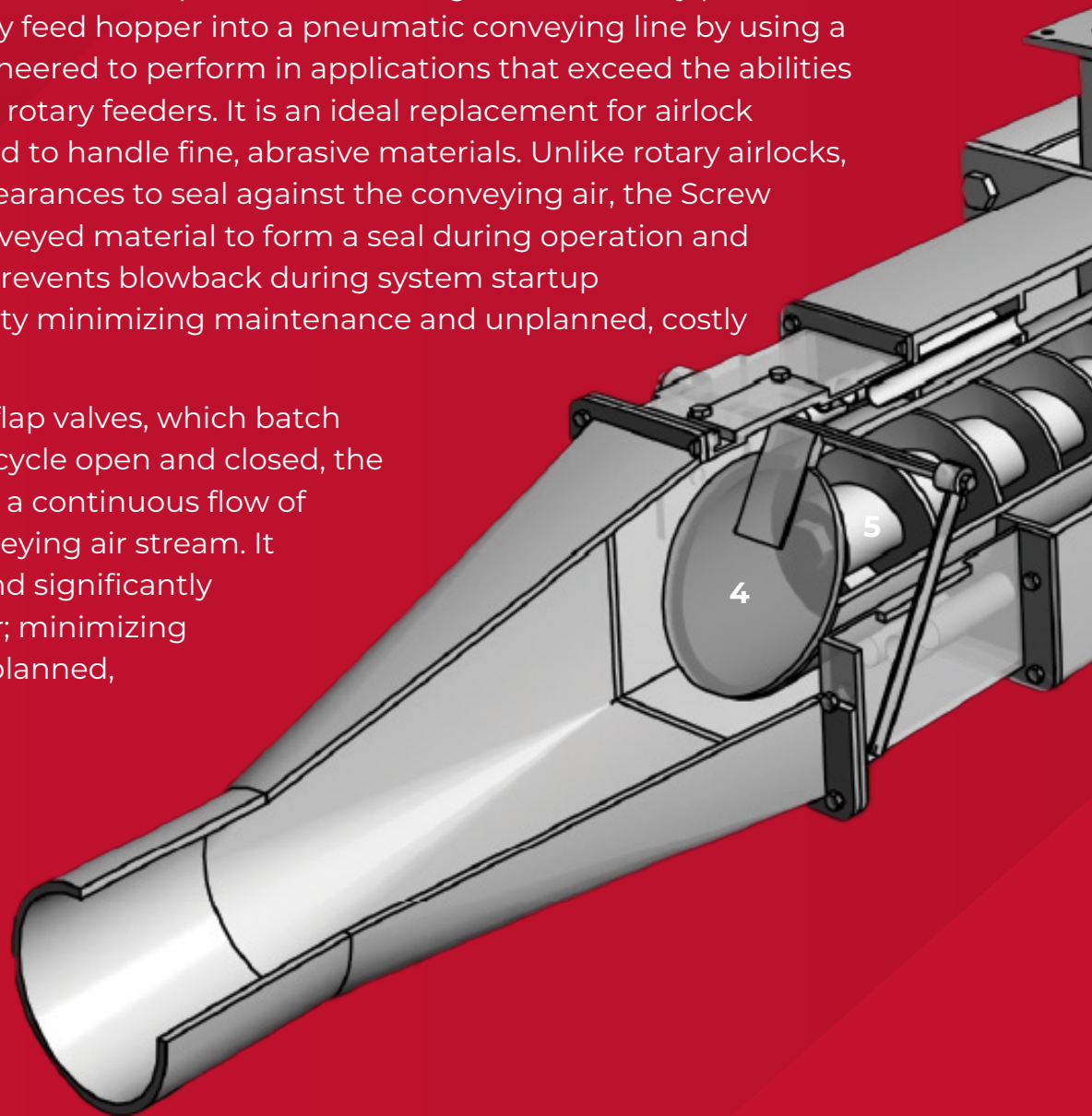


THE MEYER PNEUMATIC SCREW PUMP...

For diluted phase pressure conveying's most abrasive applications

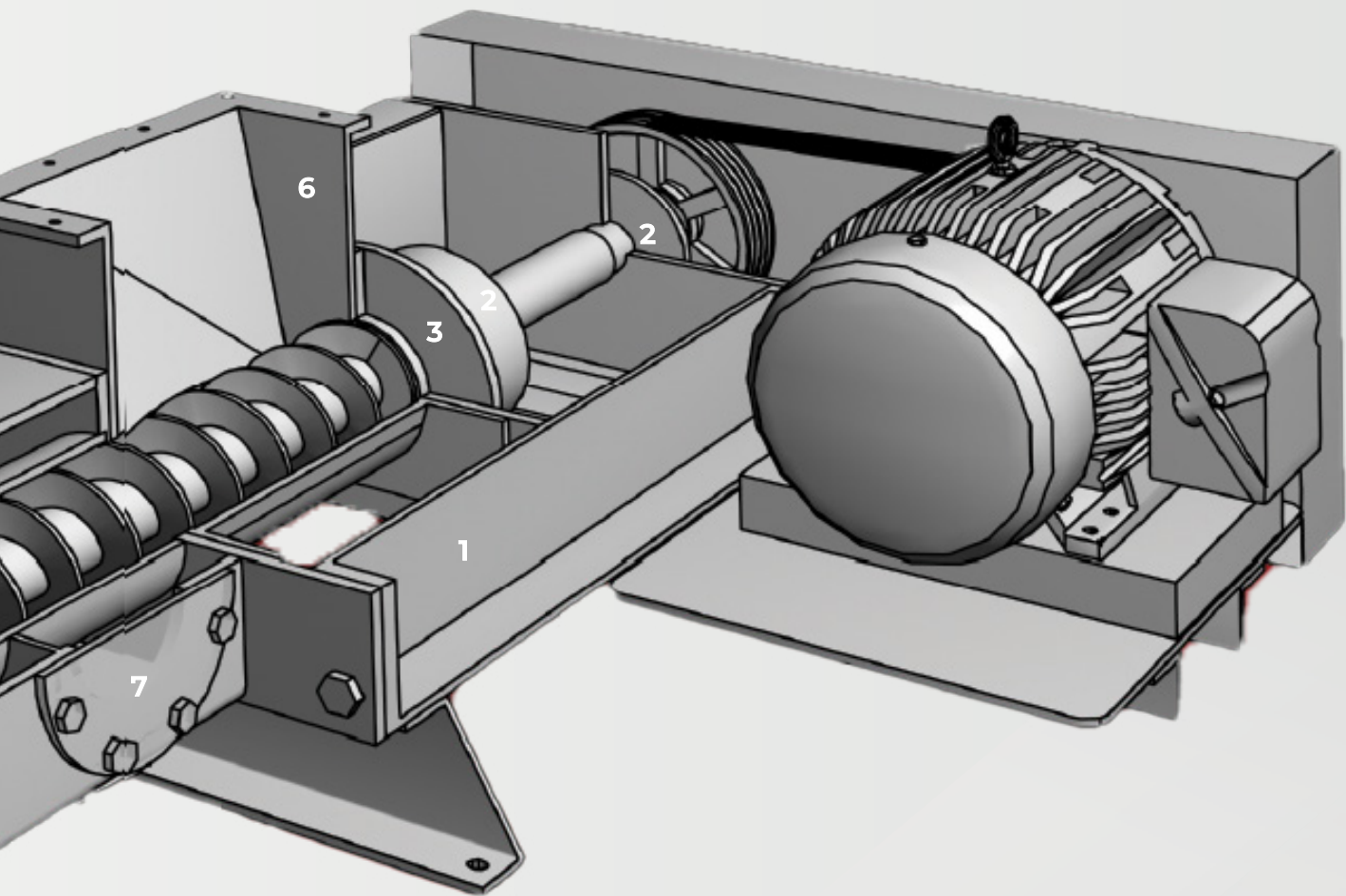
The Meyer Pneumatic Screw Pump is an airlock designed to feed dry pulverized material from a gravity feed hopper into a pneumatic conveying line by using a screw auger. It is engineered to perform in applications that exceed the abilities of typical dilute phase rotary feeders. It is an ideal replacement for airlock feeders that have failed to handle fine, abrasive materials. Unlike rotary airlocks, which require tight clearances to seal against the conveying air, the Screw Pump utilizes the conveyed material to form a seal during operation and an integral flap gate prevents blowback during system startup or when running empty minimizing maintenance and unplanned, costly downtime.

Compared to double flap valves, which batch material as the gates cycle open and closed, the Screw Pump provides a continuous flow of material into the conveying air stream. It is a leak free feeder and significantly reduces abrasive wear; minimizing maintenance and unplanned, costly downtime.



Typical Materials

- Asphalt filter dust
- Barytes
- Bauxite
- Bentonite
- Catalysts
- Cement
- Clays (dried)
- Coal
- Coke dust
- Copper calcines
- Dolomite
- Feldspar
- Fluorspar
- Fly ash
- Gypsum
- Kaolin
- Lime
- Limestone
- Magnesite
- Magnetite
- Manganese dioxide
- Ores
- Phosphate rock
- Silica
- Talc
- *and many more*



FEATURES:

1. Heavy steel channel frame
2. Oversize spherical roller bearings
3. Quad air flush seal designed to protect bearings
4. Integral check valve for leak free start up
5. Hard-coated shaft and barrel assembly for extended abrasion resistance
6. Low inlet hopper height for easier intallation
7. Three conveying air inlet points - left, right, bottom

The logo for Meyer Industrial, featuring a stylized 'M' with a red and white design, followed by the word 'MEYER' in a large, bold, black sans-serif font, and the word 'INDUSTRIAL' in a smaller, bold, black sans-serif font below it.

MEYER
INDUSTRIAL

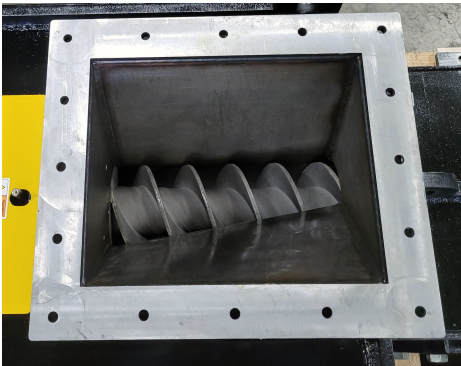
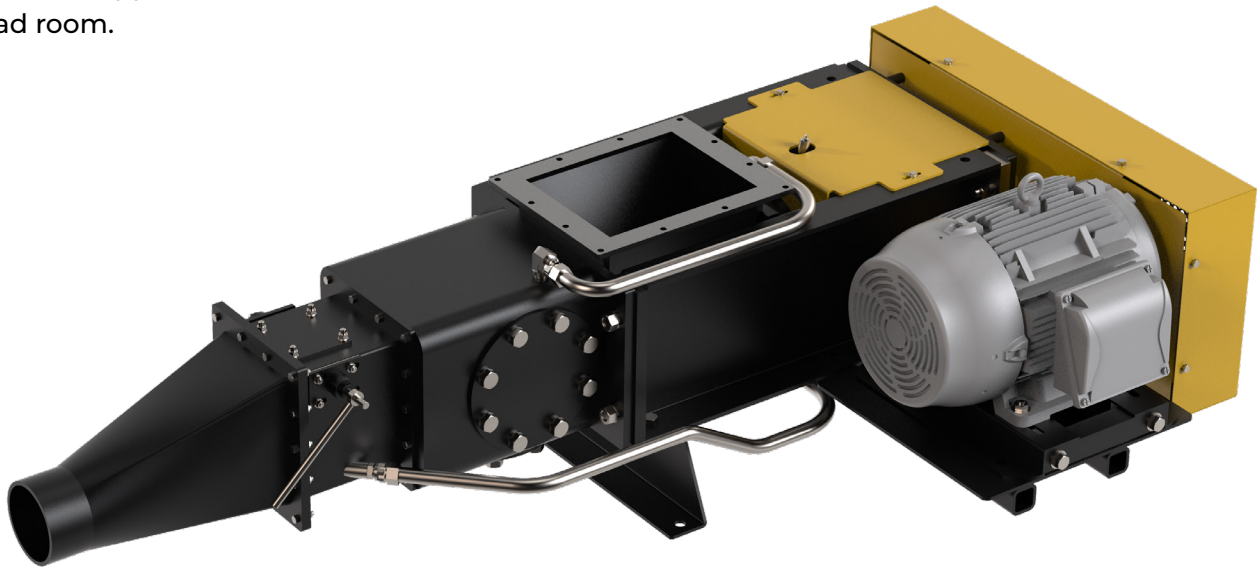
A large industrial facility, likely a cement plant, featuring several tall, cylindrical silos and a complex network of conveyor belts and metal structures. The scene is set against a bright, hazy sky with scattered clouds, suggesting a sunrise or sunset. The foreground shows a wide, flat area with some piles of material.

**PNEUMATIC
SCREW PUMP**

THE MEYER SCREW PUMP PROVIDES EXCELLENT EFFICIENCY

Screw pumps deliver high material throughput using dilute-phase pressure conveying air and provide a rugged, leak-free alternative to airlocks that are more susceptible to abrasive wear.

Thanks to a low profile it is an ideal feeder for applications with restricted head room.



In-feed Hoper



Screw and Tail-piece

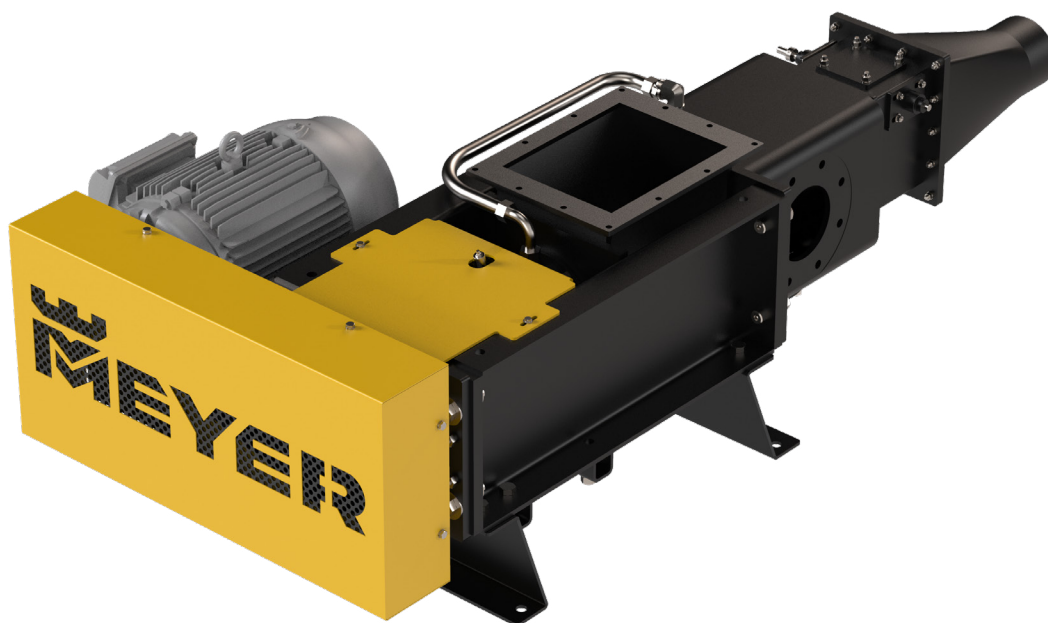


Air Box

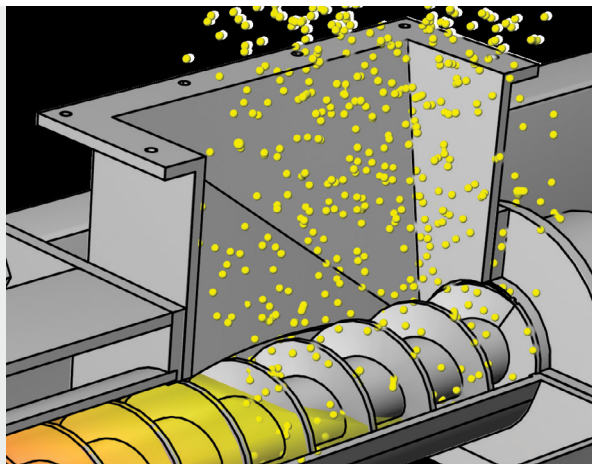
PNEUMATIC SCREW PUMP

BENEFITS:

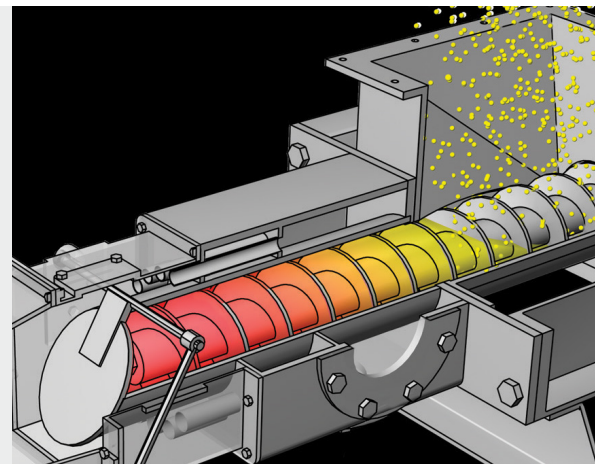
- Leak free feeding for pressure conveying systems
- Increased conveying rates with less air
- No blowback, even when starting or running empty
- Increased resistance to abrasive materials
- Low profile
- Longer bearing life/fewer system shutdowns
- Reduced operating and maintenance costs



HOW IT WORKS



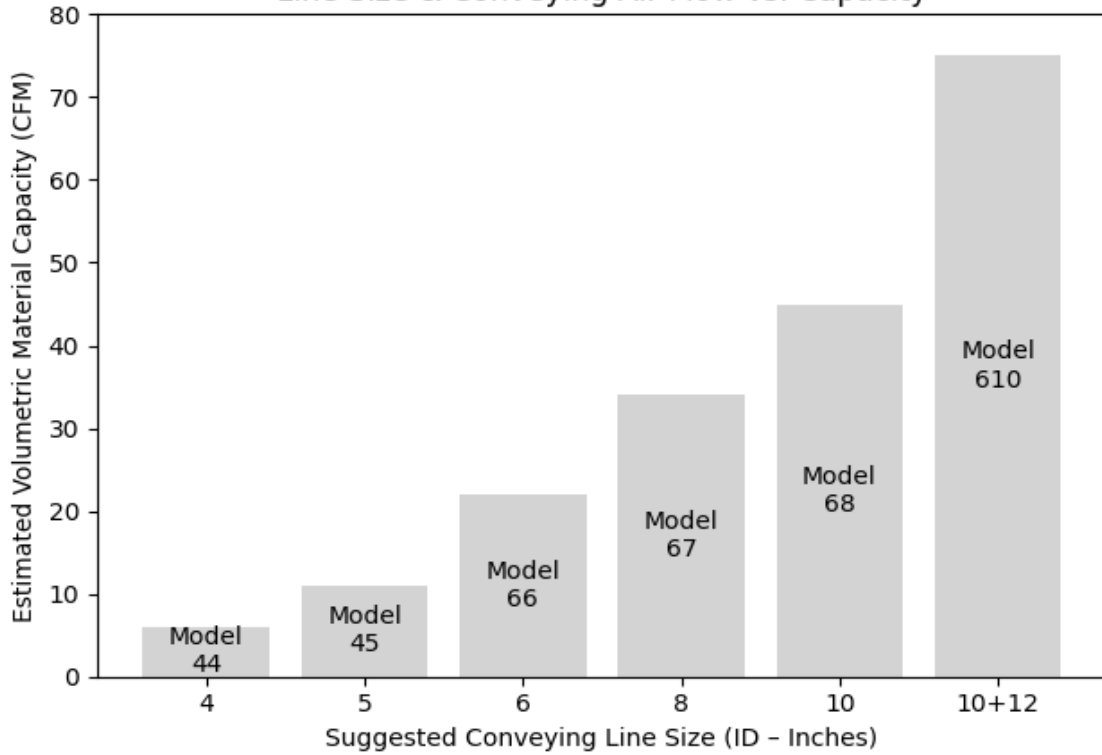
The inlet hopper's sloped walls direct the material to the rotating screw.



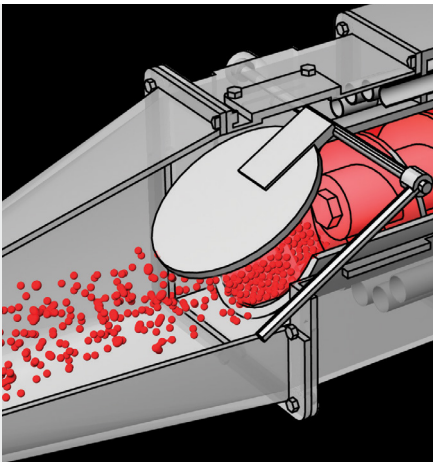
The screw compresses the material forming a seal as it moves through the barrel.

SPECIFICATIONS:

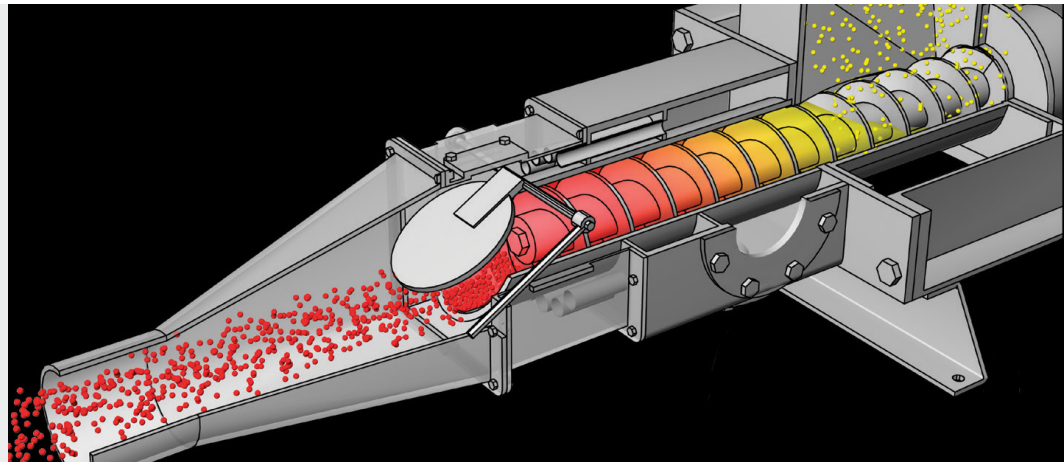
Line Size & Conveying Air Flow vs. Capacity



Model	Opening	Line Size	HP	Height	Length	Width	CFM
44	7-1/2 x 8	4	5	18	73-1/2	34-1/2	6
45	9-1/2 x 11-7/8	5	7.5	20-1/4	80	34-1/2	11
66	12 x 16	6	20	24-1/4	97-1/2	46	22
67	14-1/4 x 18	8	25	27-1/2	105	46	34
68	14-1/4 x 18	10	40	27-1/2	105	46	45
610	16 x 22	10/12	75	35	122	54	75



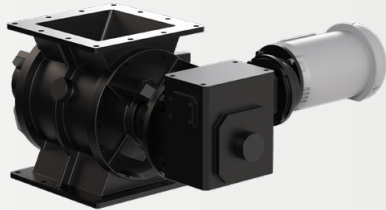
▶ The compressed material presses open the flap gate and drops into the air stream.



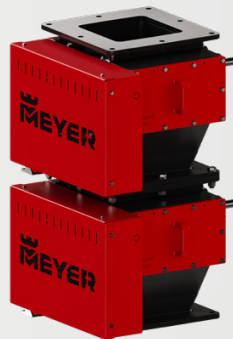
▶ The aerated material is fed into the dilute phase conveying system.



YOUR HOME FOR AIRLOCK SOLUTIONS



ALL INDUSTRIES
and
APPLICATIONS



MINING & MINERALS,
STEEL MILLS



CEMENT, MINING,
FLYASH &
LIMESTONE