



MACON ENVIRO
TECHNOLOGIES PVT. LTD

"Committed to Innovation & Excellence"



PRODUCT CATALOGUE

www.maconenviro.com

- **Macon Enviro Technologies Pvt Ltd**, established in 2015 as EPC Company with focus on Process Technology, Plant Engineering, Project Management in Industrial Pollution Control and Material Handling segments. The company is backed by experienced teams with more than 30 years of experience in field of Process Technology, Plant Engineering, Project Management, etc.
- **Macon Enviro Technologies Pvt Ltd**, with an objective to provide services in the field of Industrial Projects including Industrial Pollution Control Systems & Material Handling Equipment's to the Indian & South Asian Customers. We provide support and services like Design & Drawings, Engineering Services Manufacturing, Supply, Erection, Commissioning, Operating Services etc. and shall undertake complete responsibility of achieving performance of the systems. To facilitate on time delivery and maintain desired quality **MACON** manufacture all customised Industrial Products with in-house engineering facility which is most cost effective solution to customers.



VISION:

- To be a magnet and dynamic platform for pioneers and experts in our Engineering and Manufacturing field. We bring creative minds together for a common goal: technological breakthroughs that lead to beer solution for more people.

MISSION:

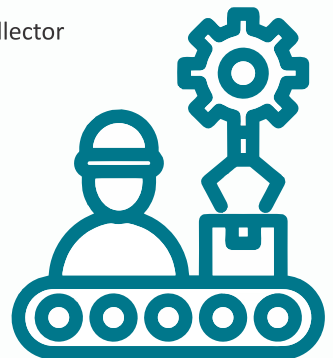
- To constantly strive for new technologies from around the world to satisfy our customers' needs in Engineering and Manufacturing to be a one window source.
- We make sure to understand our customers' expectations and to provide high quality products and services.

Projects We Deal:

- Material Handling system
- Alumina and Ash handling Wagon loading and unloading system
- Pneumatic Conveying system
- Bag filter and de-dusting system
- Plant and Non plant structural buildings.

Products We Manufacture:

- Slide Gate
- Sector gate
- Rack and pinion gate
- Needle Gate
- Flap/ Diverter Gate
- RAV (Rotary Airlock Valve)
- Dome Valve
- Air slides
- Distribution Box
- Air lift vessel
- Loading spout
- De compression box/Target box
- Silo extraction equipments
- Blow vessel
- LR Bend
- Belt conveyor
- Bucket elevator
- Screw feeder
- Vibro feeder
- Bag filters/Dust collector



Slide Gate

- Slide gate valves are designed to provide an efficient method for controlling the flow of free flowing dry bulk & Powder materials.
- These types of gate valves are generally installed at the outlet of dry bulk storage bins, silos, hoppers, chutes, mechanical conveyors or any similar gravity discharge points.

Our Production Capacity

| | | | |
|---------------|---------------|---------------|-------------|
| Temperature | 50°C | Nut | CS |
| Body | CS Fabricated | Yoke | CS |
| Seat | Metal Seated | Hand Wheel | CS |
| Gate | CS/SS | Gland Packing | NA |
| Screw Spindle | CS | Ends | Rectangular |



Size: 200mm² to 600mm²

Sector gate

- Macon Enviro Technologies Pvt Ltd is recognized in the Industry as the manufacturer, Supplier & Exporter of Sector Gates and offers a wide quality of this product.
- Curved blade valves are designed to shut off the flow of product from outlets of dry bulk; storage bins, silos, conveyors, gravity flow chutes and other discharge points. These Sector Gate are available with options motorized and pneumatic operated.

Our Production Capacity

| | |
|-------------|-----------------------------|
| Temperature | 50 - 200°C |
| Body | As per material applicable. |
| Gate | As per material applicable. |



Size: 300mm² to 800mm²

Rack and Pinion Gate

- A rack and pinion gate consists of a gate frame, blade, rack(s), pinion gear(s), pinion shaft, shaft bearings and a manual or powered shaft drive.
- Some larger manual drives may incorporate v-belts and/or gear boxes for mechanical advantage.

Our Production Capacity

| | |
|--------------------------|-------------------|
| Leak tightness | 98 to 99.5% ACA |
| Material of Construction | CS Fabricated. |
| Duty | Heavy. |
| Drive | Electric / Manual |



Size: 300mm² to 800mm²

Needle Gate

- Needle Valve are a type of valve that features a slender, tapered needle-like point on the end of a valve stem that precisely controls the flow of fluid or gas through a pipeline.
- Additionally, needle valves are often manufactured from materials that can withstand high pressures and extreme temperatures, making them suitable for use in a wide range of industries and applications.

Our Production Capacity

| | |
|--------------------------|----------------|
| Leak tightness | 95 to 99% ACA |
| Material of Construction | CS Fabricated. |
| Duty | Heavy. |
| Drive | Manual |



Size: 300 to 800mm²

Flap/ Diverter Gate

- The diverter gate offers high operating efficiency and long life. Body, end plates, and gate are fabricated, fully ribbed to ensure dimensional stability.
- The diverter gate and shaft are machined to close tolerances to prevent leakage and ensure smooth operation.

Our Production Capacity

| | |
|--------------------------|----------------------------|
| Temperature | 50°C |
| Material of Construction | CS Fabricated |
| Operation | Pneumatic/Motorised/Manual |



Size: 80NB to 200NB

RAV (Rotary Airlock Valve)

- Rotary Airlock is an ideal choice for handling many dry, free-flowing powders where a pressure differential exists, such as when feeding pneumatic conveying lines. Our organization is extremely engaged in the work of manufacturing a high range of Rotary Airlock Valve which is widely used for dust discharge device.

Our Production Capacity

| | |
|--------------------------|----------------------------|
| Temperature | 50°C |
| Material of Construction | As per material applicable |
| Operation | Motorised |



Size: 200mm to 600mm

Dome Valve

- Dome Valve is unique in its ability to open and close with a tight pressure seal in pneumatic conveying systems for abrasive materials.
- No other valve can achieve as long of a life in harsh environments like the Dome Valve. We Macon are keen in developing dome valve as per the customer's requirements.

Our Production Capacity

| | |
|-------------|-------------------------------------|
| Pressure | Up to 4 barg |
| Material | Iron, Carbon Steel, Stainless Steel |
| Design Code | ASME sect. VIII Div. 1; PED; GB150 |
| Temperature | Up to 50°C |



Size: 200mm

Air slides

- Air slides are basically involved in the transfers of bulk powder and grains, understanding how air slide conveyor systems work will be of help as it is the best-fit solution for many industrial circumstances.
- Air slides are used extensively in many industries, including mining. They convey homogenous dry powder, including minerals, for use in cement, lime and fly ash, Alumina & fluidizable material.

Our Production Capacity

| | |
|--------------------------|----------------|
| Temperature | 50°C |
| Capacity | 40 to 3000 TPH |
| Material of construction | CS Fabricated |
| Operation | Compressed Air |



Distribution Box

- Modular Construction for Easy Expansion.
- Because MACON Bulk Distribution Boxes are modular material outlets may be added as your needs grow. Any module may be directed towards your material destination to assure the easiest possible lone routing.
- Distribution Box modular layers may be independently specified and oriented in any direction.

Our Production Capacity

| | |
|--------------------------|----------------|
| Temperature | 50°C |
| Capacity | 50 to 3000 TPH |
| Material of construction | CS Fabricated |
| Operation | Compressed Air |



Air lift vessel

- The Airlift is a pneumatic conveying system designed for vertical transport of these kinds of dusty, dry bulk materials.
- With hundreds of applications worldwide in cement, lime, gypsum, power and aluminium plants, among others, the Airlift is a proven low-maintenance solution with zero dust when connected to a dust collection system.

Our Production Capacity

| | |
|------------------|---------------|
| Temperature | 50°C |
| Throughput | 10 to 100 TPH |
| Conveying Height | Up to 30 m |



Loading spout

- Telescopic Spouts also named as Telescopic Chutes are an efficient solution for wear-resistant loading of clinker or other bulk material handling into trucks, trains or ships with integrated de-dusting and optional automatic operation. Telescopic loading spouts are typically utilized for gravity dust free feeding of a wide range of diverse products from storage silo to static or movable tanks.



Our Production Capacity

| | |
|---------------------------------|-------------------------------------------|
| Designation | Telescopic type bulk loading spout. |
| System Capacity/ Unloading rate | 50 to 200 TPH |
| Material to be loaded | Alumina/Ash/Cement/Other powder material. |
| Type of loading | Enclosed Trucks / Bulklers |
| Loading Control Method | Rotary Feeder/Auto Valves |

Size: 1.5 to 6 Mtr Expansion

De compression box/ Target box

- De -Compression boxes are very much useful for Pneumatic conveying systems.
- This is specially designed equipment to separate air from the air material homogeneous flow.



Capacity : 50 – 200 TPH

Silo extraction equipments

- We at MACON has full range of equipment required for efficient & trouble free Silo feeding, Storage & extraction for flat bottom as well as inverted cone silos.
- The extraction cone is a most efficient design for continuous flow of material from silo bottom by help of compressed air.



Blow Vessel

- Macon blow vessels are efficient for use in pneumatic conveying systems. Macon also manufactures dense/lean phase conveying vessels & systems.



Capacity: 0.5 to 50 TPH

LR Bend

- Macon designed LR bends are very much efficient and possess long operating life.
- Macon design bends do not have any inner lining and are made up of total CS material only.
- Fixing of Macon bends is very much convenient as it uses standard flanges to fit lining.
- We can manufacture LR bend in any size as suitable.



Belt conveyor

- Belt conveyors can be used to transport products in a straight line or through changes in elevation or direction.
- For conveying Bulk Materials like Grains, Ore, Coal, Sand etc over gentle slopes or gentle curvatures, a troughed belt conveyor is used.

Application

| | |
|-------------------------|--------------------|
| Belt Width | 600 to 1200 |
| Belt Length | As per requirement |
| Maximum operating speed | as per requirement |
| Minimum pulley size | 300 to 600 mm |



Bucket elevator

- A bucket elevator can elevate a variety of bulk materials from light to heavy and from fine to large lumps.

Technical Parameters

| | |
|----------------------------|-----------|
| Capacity m ³ /h | 10 to 100 |
| Max. Height at max | 30 Mtr |



Screw feeder

- Screw feeders and rotary valves are positive-displacement devices and so the feed rate is unlikely to change.
- A simple type of screw feeder is a Rotation of the screw moves a continuous plug of material into the pipeline, where it is dispersed and entrained with the conveying air.



Capacity: 10 to 100 TPH

Vibro feeder

- Vibratory feeder, also called vibrating feeder, vibration feeder. It can uniformly and timely feed block or granular materials from storing tanks into various kinds of devices, such as belt conveyor, bucket elevator, crusher, etc. Vibrating feeder can be applied to automatic proportioning, portion pack, and the automatic control system, good for achieving automation of the production process.
- Vibrating feeder is widely used in crushing and sieving equipment in metallurgy, coal mine, mineral processing, and building materials, chemical, abrasive and other industries.



| | |
|----------|-------------|
| Capacity | 5 to 50 TPH |
| TPH Type | Trugh |

Bag filters/Dust collector

- A baghouse, also known as a baghouse filter, bag filter or fabric filter is an air pollution control device and dust collector that removes particulates or gas released from commercial processes out of the air.
- Power plants, steel mills, pharmaceutical producers, food manufacturers, chemical producers and other industrial companies often use baghouses to control emission of air pollutants.



Our Manufacturing Capacity

| | |
|---------------|------------------------------------------------|
| Air Flow | Upto 3 Lakhs m ³ /hr |
| Filtration | Upto 10 mg/m ³ |
| MOC | Mild Steel |
| Customization | Yes, Customization available suits your needs. |

OUR VALUED CUSTOMERS

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and growing...

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