



**Technology &
Business Intellectual**



Cyclone

Cyclone Separator



A cyclone separator is process of removing particulates from an air / gas stream through vortex separation. Rotational effects and Centrifugal force are used to separate solids from gas.

Working Principle

- Air flows enter in tangential inlet from the top and ending at bottom end before exiting the cyclone in a straight stream through the centre of the cyclone and out the top.
- Particle in the rotating stream have too much inertia to follow the tight curve of the stream and strike the wall and then particles falling down at discharge end.
- In conical system, as the rotating flow moves towards the narrow end of the cyclone the rotational radius of the stream is reduced, then separating smaller and small particle.

Advantages of TNBi Cyclone

- Effective & automatic process to separate gas and solid particle with maximum efficiency.
- Capacity designed up to 500000 m³/hr
- Temperature up to 1100 deg C can be handled.
- Pressure from full vacuum to 33 bar
- Extreme efficient when known the operating parameters and right design.
- Cross contamination issue can be resolved.
- Design as per application and sizes differ with space and application.
- Handle various type of dust in a single unit.
- Easy maintenance with less man power.
- Guaranteed performance.
- Wide experience to handle multiple type of dust.
- Provide quick services.
- ATEX Compliance can be offered

Industries Served

- Steel
- Cement
- Drugs and Pharmaceuticals
- Power
- Agro Based / Sugar / Rice / Tobacco
- Breweries and Distilleries
- Food Processing
- Paper and pulp
- Solvent Extraction
- Textiles
- Soaps, Detergents & Waxes
- Non-Ferrous Metallurgy
- Paints, pigments and Dyes
- Tyres
- Wood Processing
- Etc.



OTHER PRODUCT LINE

Classifier



Bag Filter



Scrubber



Centrifugal Blower



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