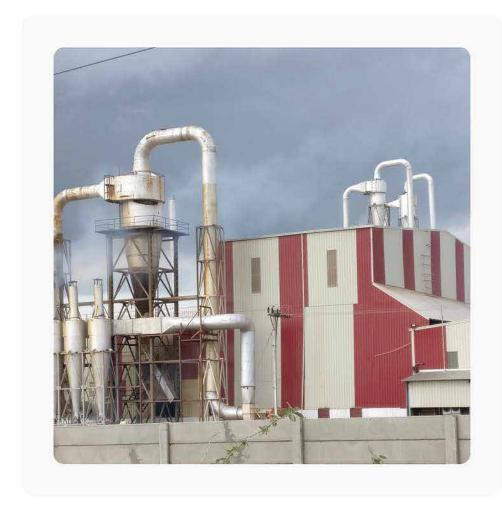




# **Cyclone Separator**





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.

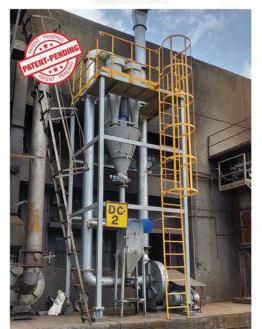




### OTHER PRODUCT LINE



Classifier



**Bag Filter** 



Scrubber



Centrifugal Blower



# TNBi Industries Pvt. Ltd.

#### **Head Office Address**

Office No. 306 & 307, MCC Tower, Next to Lokmat Building, Vadgaon Kh., Sinhgad Road, Pune - 411041, Maharashtra, Bharat (India)

#### **Work Address**

Gat No. 586, 587, Pune Satara Road, Nr. Maan weigh Bridge, Kelawade, Taluka - Bhor, Dist: Pune - 412206, Maharashtra, Bharat (India)



