

ATLAS

- Robust Construction
- Excellent mobility and specifically engineered either as a fixed installation or mobile unit
- High quality materials for maximum performance and durability
- High airflow and suction allow fine dust to be removed effectively
- Designed for 24-hrs continuous operation
- Complete with high efficiency filters and automatic filter cleaning system
- Easy disposal of collected materials
- Modular construction for ease of maintenance
- Well proven & tested in the industry



ATLAS

DUST COLLECTOR

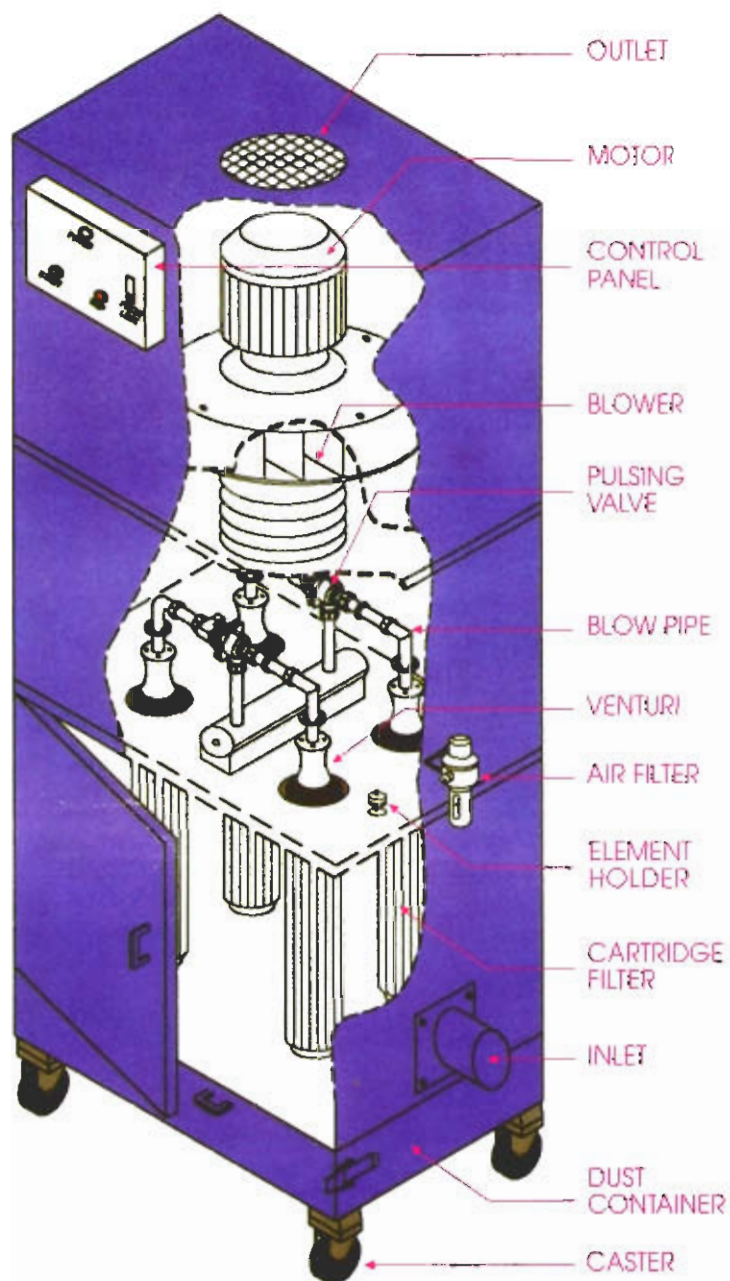
DC Series

Even the most efficient operations generate waste, but we can help you minimize the associates expenses.

ATLAS[®] Dust Collector (DC Series) units are specifically engineered for your plant. They help you reduce costs by recovering process wastes, increasing production efficiency and reducing labour.

Oriental Synergy manufactures a wide range of products to pick-up, convey, separate and recycle your plant's production and housekeeping waste.

More importantly, we have the engineering expertise to lay out a complete system to meet all your needs.



Main Components of ATLAS Dust Collector (DC Series)

1 Centrifugal Blower Fan

High efficiency and reliability, low energy consumption and low noise level are the characteristics of these blowers used in our ATLAS Dust Collectors.

The motor is directly coupled to the fan / blower impeller to give you a maintenance free operation and highly suitable for continuous duty focusing on reliability.

2 Reversed Pulse Jet System

Small, rapid pulses from a compressed air source to continuously clean its filters. Pulse frequency and duration can be controlled by a pressure sensor, timer or PLC. Continuously cleaning, combined with typical ATLAS rugged construction and easy-maintenance features, provides the user a trouble free dust separation solution.

3 Filter

Cartridge filters are easily replaced in minutes and no special tools are required. Our system utilizes a relatively low Air-To-Cloth ratio which provides large filtration area for an uninterrupted duty and therefore, very low maintenance and labour costs are ensured. The standard cartridge filters are the latest pleated design technology, strong, washable and reusable long life, spun bond polyester with a steel interior support frame and end caps.

Filtration efficiency of 99% down to 1 micron (μ) and near zero emissions that meet or exceed all emission standards.

Other options are: Antistatic type, HEPA type, PTFE membrane and Laminated type.

4 Venturi

Effective dust removal by use of venturi which prolongs the life of filter. It cleans evenly over the entire filter. In consequence, the use of venturi maintains a high efficiency of dust removal.

APPLICATIONS



Powder Packing



Cutting Job



PCB Processing



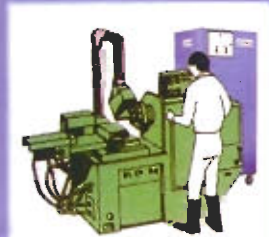
Mixing Job



Crushing Work



Powder Mixing



Milling Job



Press Job



Grinding Job



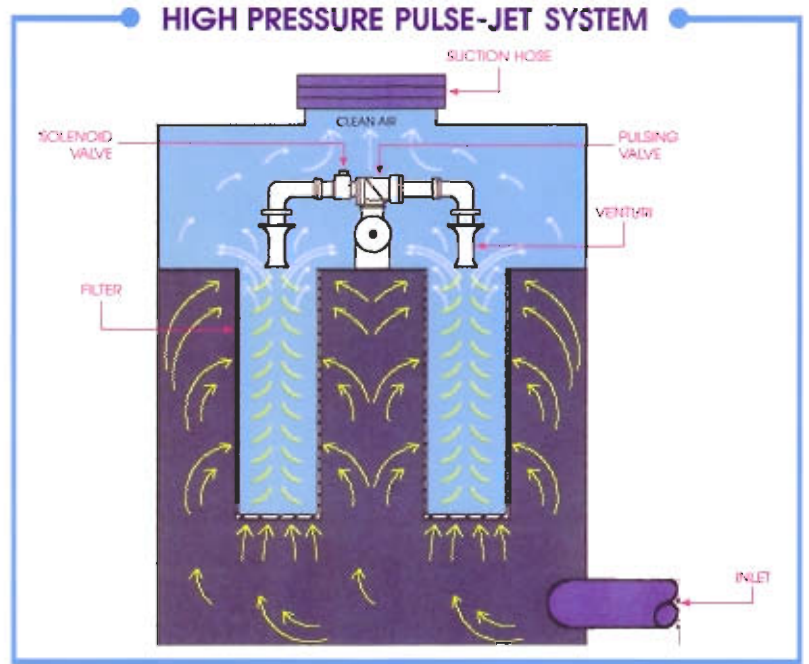
Surface Grinding



Crushing Work



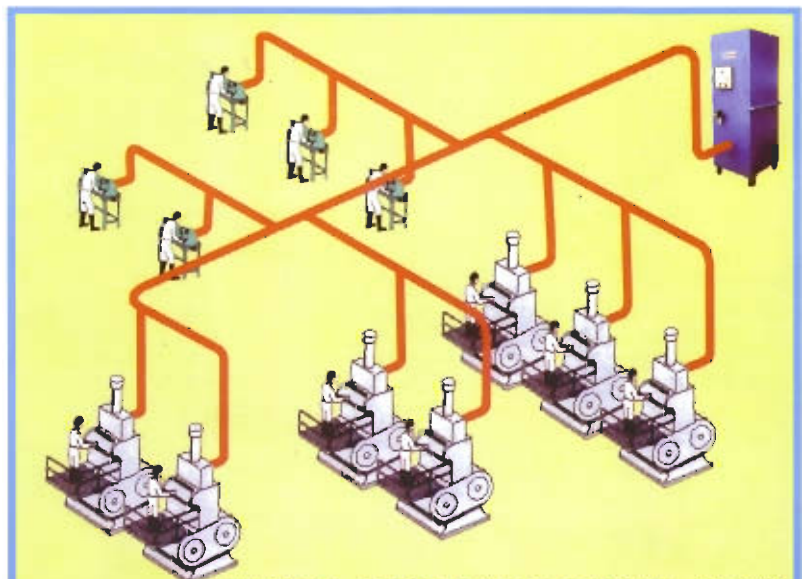
Sanding Job



DC + PRE-SEPARATOR



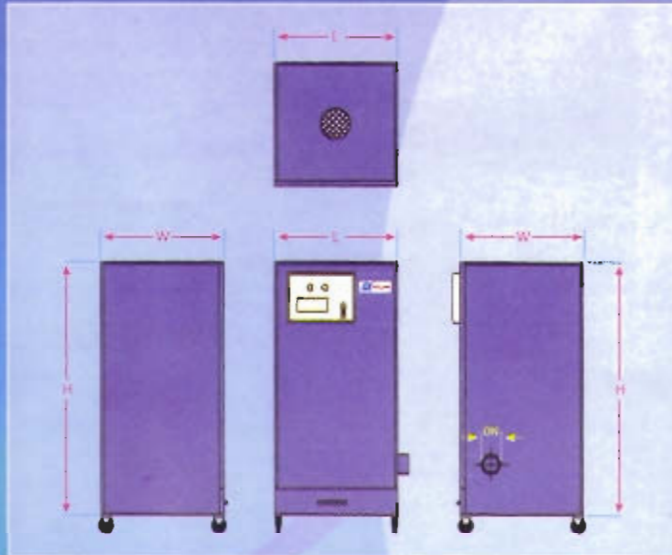
CAUTION: When working under spark or high temperature dust, use of ATLAS Pre-Separator is strongly recommended (as shown above). Please consult us for explosive dust.



CENTRAL COLLECTION SYSTEM LAYOUT

DC SERIES SPECIFICATIONS

| Model | Motor (KW) | Voltage | Air Flow* (m3/hr) | Vacuum** (mmH2O) | Filter | | | Container (Litre)**** | Weight (kg) | Dimension | | | | Noise Level dB(A) |
|----------|------------|--|-------------------|------------------|-----------|-----|---|-----------------------|-------------|-----------|-------|--------|--------|-------------------|
| | | | | | Area (m2) | Qty | Material*** | | | Length | Width | Height | Inlet | |
| DC-1500 | 1.1 | 3 P H A S E 415V 50Hz | 1,700 | 170 | 12 | 3 | P O L Y E S T E R | 35 | 235 | 650 | 650 | 1850 | DN 150 | 70 |
| DC-3000 | 2.2 | | 2,700 | 215 | 16 | 4 | | 50 | 330 | 750 | 750 | 1950 | DN 200 | 71 |
| DC-5500 | 4 | | 4,000 | 250 | 24 | 6 | | 90 | 390 | 950 | 950 | 2060 | DN 250 | 73 |
| DC-7500 | 5.5 | | 5,500 | 310 | 32 | 8 | | 120 | 510 | 1,100 | 1,100 | 2150 | DN 300 | 74 |
| DC-10000 | 7.5 | | 6,800 | 310 | 40 | 10 | | 170 | 610 | 1,300 | 1,300 | 2150 | DN 350 | 75 |
| DC-15000 | 11 | | 9,000 | 380 | 48 | 12 | | 170 | 750 | 1,300 | 1,300 | 2250 | DN 400 | 78 |
| DC-20000 | 15 | | 13,500 | 420 | 64 | 16 | | 225 | 900 | 1,500 | 1,500 | 2500 | DN 450 | 79 |



Notes:

- * : Denotes max. air flow
- ** : Denotes max. static pressure
- *** : Antistatic, HEPA filter available upon request
- **** : Larger capacity, Hopper type rotary valve discharge, slide gate valve, butterfly valve available upon request.

ALL BLOWERS / FAN ARE DIRECT-DRIVEN TO MINIMIZE TRANSMISSION LOSS.

The above specification can be changed without prior notice due to on going research and development. The specification is correct at the time of printing.

OPTIONAL DUST REMOVAL METHOD

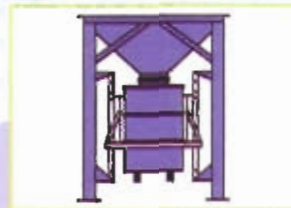
Various types of waste removal mechanism can be easily and readily adapted to the ATLAS® Dust Collector unit



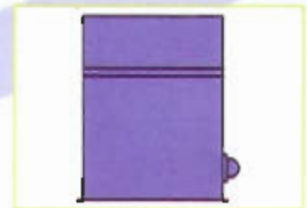
Slide Gate/Butterfly Valve Type



Rotary Valve Type



Quick Release Dust Container Type



Bin Mount Type



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