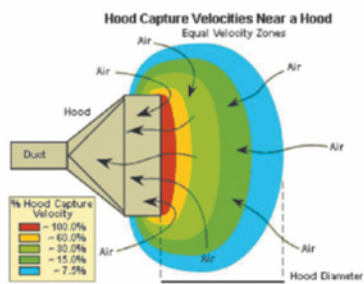




INDUSTRIAL DUST COLLECTORS

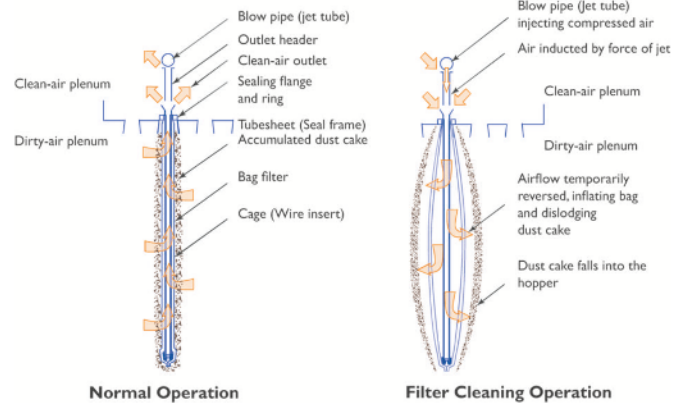
Principles of Hood Placement

Proximity of Dust Source Affects Hood Velocity

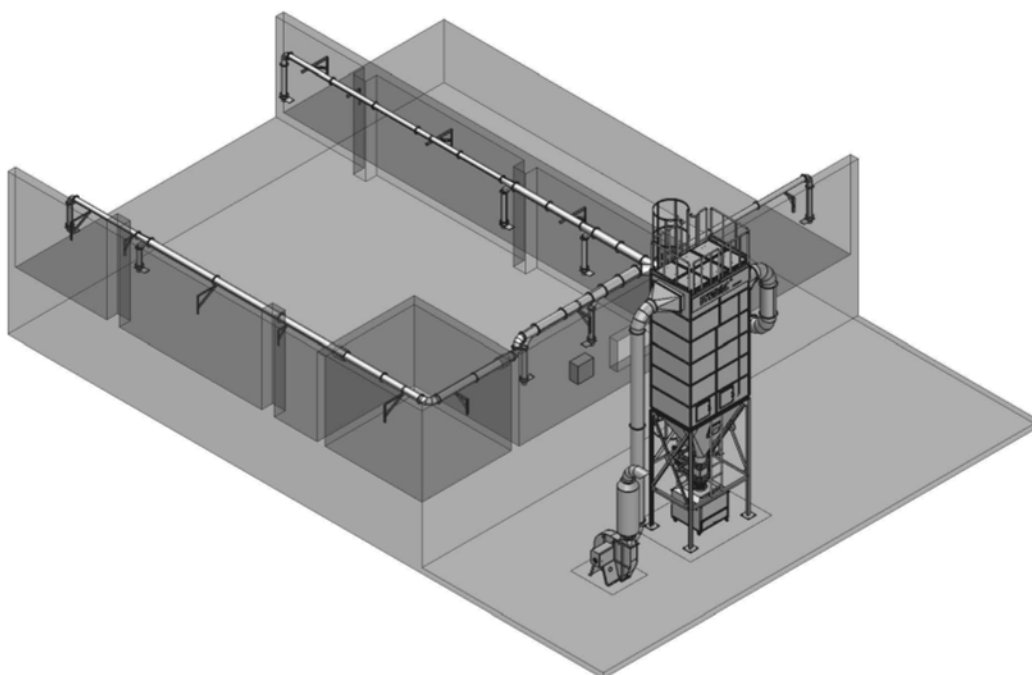


In order to ensure adequate capture of dust laden air, the hood must be close to the emission source

Principles of Filtration



Layout Design



Operating Principle

- This is a continuous duty dust collector.
- In this unit, filters are cleaned online during operation.
- During normal operation dust-laden air enters the unit through the air & dust inlet.
- The velocity is reduced when dust particles enter and natural pre-separation is caused by gravity. Heavier particles will fall directly into the collection tank through the hopper and fine particles will accumulate on the outer surface of the filter bags. The clean, filtered air passes through the center of the filter bags and discharges through the clean air outlet.
- The fine dust particles that are accumulated in the outer surface of the filter bags are cleaned by the reverse pulsejet cleaning system using compressed air at regular time intervals. This dust will be cleaned in the collection tank.



BAGHOUSE DUST COLLECTOR



Range of Industries

 **Food Industry**

 **Engineering Industry**

 **Paper Industry**

 **Carbon Industry**

 **Rubber Industry**

 **Automotive Industry**

 **Glass Industry**

 **Abrasive Industry**

 **Wood Industry**

 **Cement Industry**

 **Pharmaceutical Industry**

 **Ceramic Industry**

CARTRIDGE DUST COLLECTOR



Features

- Optimized online pulsejet filter cleaning
- Tough steel construction for long life in harsh Industrial environments
- Small footprint when compared to baghouse dust Collectors
- Quick and easy maintenance
- Customized solution for your specific requirement
- Food grade, Explosion proof and anti-static options are available
- Maintenance free blower
- 1 Year warranty

How It Works

Dynavac bag filter dust collectors use tubular bag filters that are cylindrical shaped non-woven fabric as the filter media. In bag filter dust collectors, similar to baghouse dust collectors, the dirty air is forced through the outside of the bag filter to the inside. Dust particles are captured on the outside of the bag filters. Bag filter dust collectors also use pulse clean technology. A periodic pulse of compressed air is sent across the bag filter to dislodge the dust cake, which forms on the outside of the bag filter. This is an online cleaning process. Bag filter dust collectors are ideally suited to capture material that is easily released from the media during the cleaning cycle

WET SCRUBBER



Area of Usage

- To capture and filter the emissions from Furnaces.
- For effective filtration of Acid fume processes.
- To filter and nullify dusts with spark and high temperature.
- To control dust which are reactive to solid filter media.
- To control dust which are sticky.

How It Works

Dynavac Standalone Wet Scrubber can be used to enhance the quality of air inside your factory by collecting dust and other impurities.

Wet scrubber is a combination of centrifugal and water separator with a downstream ventilator which works on the water swirl principle. The pollutant laden air is introduced at a tangent and settles on the surface of the water. The special routing of the air flow generates an intensive swirl of the water through which the pollutant laden gas stream is led. Intensive mixing with scrubbing fluid causes the pollutants to bond and precipitate. The radial mount spiral separates the liquid through centrifugal force from the pollutants bound up in the gas stream. The cleansed air is sucked in by the downstream ventilator and then blown out.



If the gas stream contains both particulate matter and gases, wet scrubbers are generally the only single air pollution control device that can remove both pollutants. Wet scrubbers can achieve high removal efficiencies for either particles or gases and, in some instances, can achieve a high removal efficiency for both pollutants in the same system.

WOOD DUST COLLECTOR



Features

- Tangential inlet for better cyclone effect
- Cost effective dust collectors
- Innovative, sleek in construction
- 24x7 continuous operation
- Maintenance free blower
- 1 Year Warranty

Technical Specification

Indoor Dust Collectors with Manual Filter Cleaning

Model	Power (hp)	Airflow (m ³ /Hr)	Collection Capacity (litres)	Dimension LxBxH(m)
DCW1F1	1	1400	60	1.0x0.5x1.7
DCW2F2	2	1850	80	1.0x0.5x1.8
DCW2F2	2	1850	130	1.5x0.5x1.8
DCW3F2	2	1950	170	1.5x0.5x1.8
DCW5F2	5	2850	560	2.0x0.6x2.5
DCW7F2	7.5	3500	750	2.0x0.6x2.6

How It Works

Wood dust collectors are made specifically for the wood working industry. In this model, a centrifugal blower is directly connected to the suction port via ducting or flexible hose. The filter and the collection unit are connected to the blower exhaust, where a cyclone effect is created with a tangential inlet. The dust falls due to gravitational force into the collection bag and the air passes through the dust bag.



FUME EXTRACTOR



Area of Usage

- To capture Welding fume
- To capture fumes generated from PCB printing machines.
- To capture soldering smokes
- To control dust which are reactive to solid filter media.
- To control dust which are sticky

How It Works

Fume extraction systems work very similarly to a typical Dust collector, except these systems are made specifically to suck up air rather than solid matter. They create vacuum pressure with a motor, and a turbine inside spins in order to generate power for collecting fumes.

Fume capturing can be done using either of the following tools like,

- ▶ **hood,**
- ▶ **hose,**
- ▶ **articulated arm** as per the Customer requirement.

LIQUID MIST COLLECTOR



DOWNDRAFT TABLE

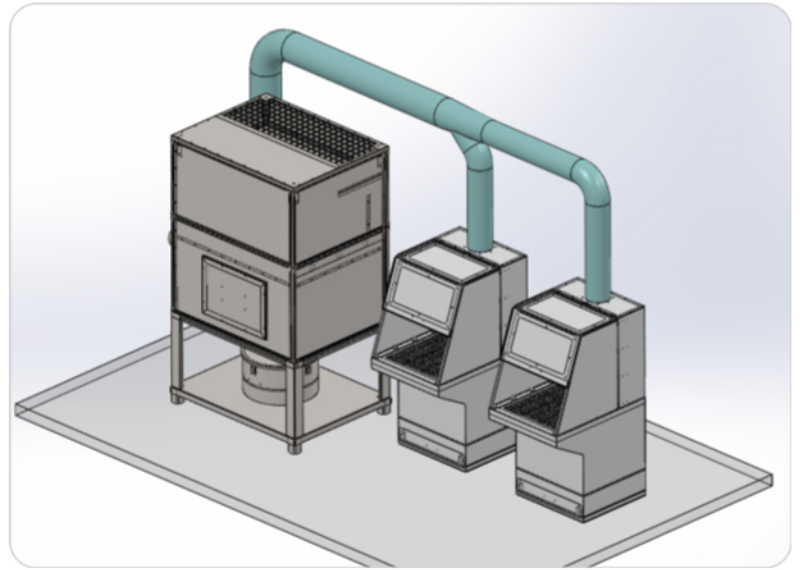


How It Works

Dynavac downdraft tables are all in one combined workbench where source capture and collection of dust is done. The downdraft table draws contaminants away from the worker's breathing zone with limiting his productivity. The tabletop is slotted to allow dust filled air into the filtration chamber where the dust is captured using cartridge filters. Fine dust and particulate is drawn down through suction provided by the centrifugal blower fan. If online cleaning is required, downdraft tables can be fitted with compressed air pulse jet cleaning . If not, the cartridge filters will need to be cleaned off-line on a periodic basis between shifts or as required. Cartridge life is usually shorter when cleaning is not done in a routine manner and may need to be replaced.

CENTRALIZED DOWNDRAFT

Layout Design



Technical Specification

Indoor Dust Collectors with Automatic Filter Cleaning

Model	Power (hp)	Airflow (m ³ /Hr)	Filter Surface (m ²)	Dimension LxBxH(m)	Worktable LxB(m)
DDT10PJC2	1	1400	42	1.3x1.2x1.45	0.95x0.64
DDT20PJC2	2	1850	42	1.3x1.2x1.45	0.95x0.64
DDT30PJC2	3	1950	42	1.3x1.2x1.45	0.95x0.64
DDT50PJC2	5	2850	42	1.3x1.2x1.45	1.64x0.64
DDT70PJC2	7.5	3500	42	2.1x1.2x1.25	1.64x0.11
DDT100PJC2	10	5000	84	2.9x1.7x1.50	2.40x1.20
DDT150PJC2	15	8000	126	4.15x1.7x2.8	3.00x1.20

** Downdraft tables are manufactured according to customer requirements; the table listed above has few customized models*

Features

- Heavy-duty work surface
- Large capacity dust drawers
- Quick-release filter access drawers
- Powder coated, scratch-resistant
- Stainless steel option available
- Integral blower fan
- Motor starter (start/stop/cleaning) panel
- Spark proof, anti static options available
- Maintenance free blower
- Automatic filter cleaning system
- 1 year warranty

CYCLONE SEPARATOR



Features

- Tangential inlet for better cyclone effect
- Cost effective dust collectors
- Innovative, sleek in construction
- 24x7 continuous operation
- Maintenance free blower
- 1 year warranty

Model	Power (hp)	Airflow (m ³ /Hr)	Filter Surface (m ²)	Dimension LxBxH(m)
CS30	3	1950	1.9	0.9x1.0x2.4
CS50	5	2850	2.0	2.0x1.1x2.7
CS70	7.5	3500	2.5	2.1x1.2x3.1
CS100	10	4500	2.7	2.1x1.3x3.3

How It Works

Cyclone dust collector creates a dual air flow to separate coarse from fine dust. The main air flow goes downward and carries most of the coarser dust. The inner air flow created around the bottom of the cyclone, goes upward and carries the finer dust particles. The fine dust is captured by the filter attached to the outlet via a centrifugal fan, followed by filter bags, a collection tank may be provided to collect the fine dust.

PORTABLE DUST COLLECTOR

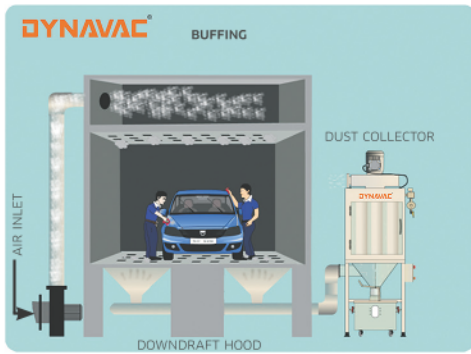


Technical Specification

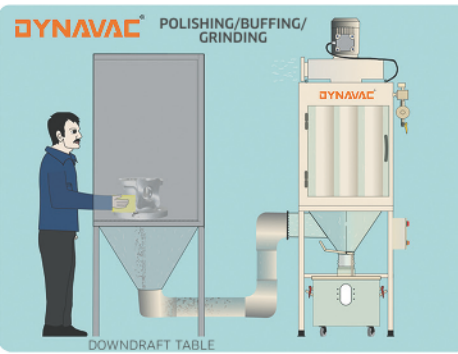
Indoor Dust Collectors with Manual Filter Cleaning

Model	Power (hp)	Airflow (m ³ /Hr)	Filter Surface (m ²)	Dimension LxBxH(m)
DC1	1	1400	0.18	0.5x0.5x1.1
DC2	2	1850	0.18	0.5x0.5x1.1
DC3	3	1950	0.25	0.6x0.6x1.2
DC5	5	2850	0.81	0.8x0.8x1.3

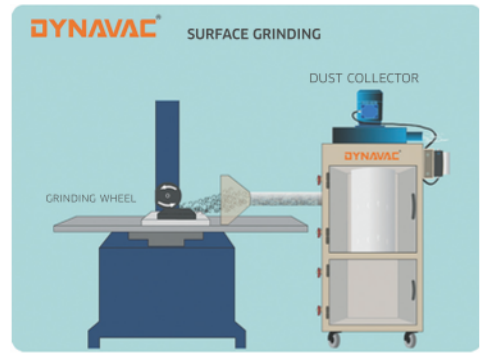
APPLICATIONS



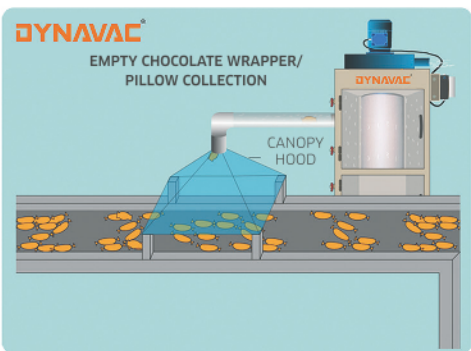
Dust Collection via down draft hoods during automobile buffing operation while fresh air is continuously fed into the grinding area



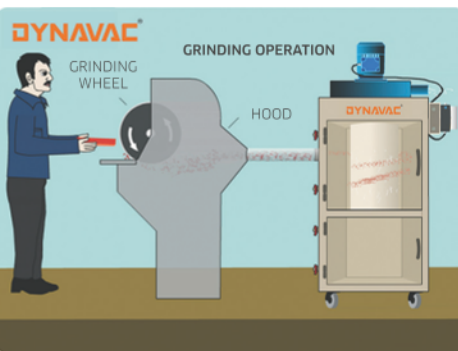
Dust Extraction using downdraft table connected to dust collector



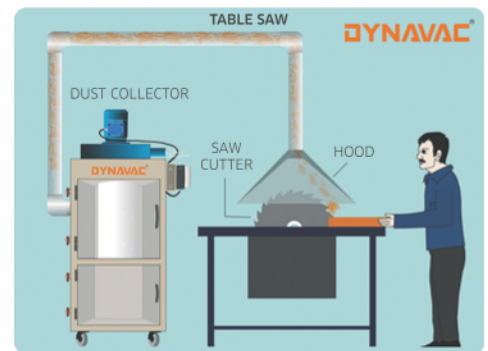
Dust Collection from surface grinding Operation



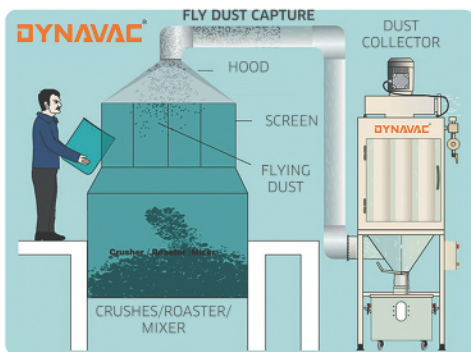
Empty Wrappers collection on a conveyor belt with adjustable canopy hood



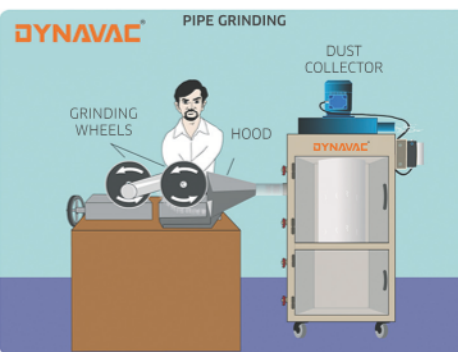
Dust Extraction through exhaust hood fitted around grinding wheel



Dust extraction from sawing operation with canopy hood



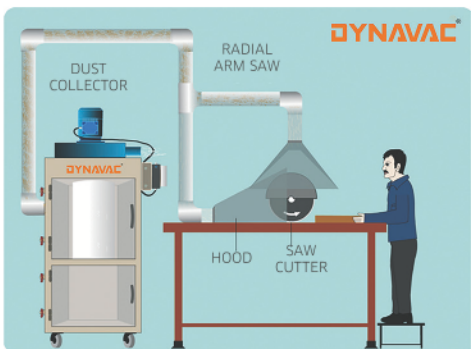
Fly dust captured during material feeding operation with canopy hood



Dust extraction from pipe grinding operation



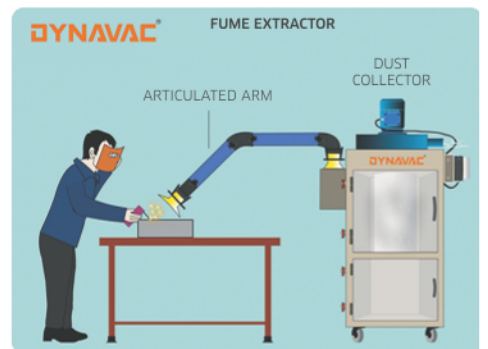
Fly dust collection during product weighing with fixed canopy hood



Dust collection from sawing operation with customized exhaust hood fitted around grinding wheel



Dust particles collection from sifter during sieving operation



Fumes are sucked-out with the help of articulated arm, during welding operation

SOME OF OUR INSTALLED MACHINES

Fume & Smoke Extraction



Fume Extractor

NDT & Fettling Booth



Wet Scrubber

Carbon Industry



Engineering Industry

Downdraft Tables



Multi-bag Dust Collector



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OUR PRODUCTS

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Vacuum Loaders



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