



# TUNNEL & MINING DE-DUSTERS

Improving the environmental operating conditions of our customers



- Englo dust control devices not only clear the air, but also improve:
- Employee efficiency & retention
  - OSHA, MSHA & EPA compliancy
  - A safe working environment
  - Air quality

**Englo has a full line of De-Dusters that can be Wet or Dry. The Wet system offers the advantages of being self-cleaning, safe, compact, extremely mobile, low in water pressure and consumption, and low in static loss through the scrubber box.**

To address the needs of its customers when a Wet System is not appropriate, Englo has a line of DRY De-Dusters that use simple insertable filters through an access door on the De-Duster Unit. These filter cartridges offer the advantage of high collection efficiency, are easily removable to clean or replace, allow quick access to speed up serviceability, are extremely mobile, reliable, and are a cost-effective solution. Lower capital and operating cost compared to the standard Dry De-Dusters on the market.

All these systems, Wet or Dry can be customized to fit the air volume requirement and the space requirements of the customer's application.

## ENGLO DE-DUSTER DESIGN

- We design and supply Turnkey Wet and Dry De-Duster units for mining and tunneling applications.
- Our team has been designing complex dust control systems for over 20-years.
- Our Systems are fabricated, assembled, and tested at our facilities in Bluefield, West Virginia and are 100% USA made.
- We offer a simple, compact, and rugged alternative for mining or tunneling operations where fugitive dust is generated.
- Our systems improve employee health safety and protect plant equipment.

## WET DE-DUSTER - Compact - Rugged - Ease of Maintenance

### MULTIPLE SIZE RANGES

1,000 cfm to 75,000 cfm  
0.47m<sup>3</sup>/sec to 35.4m<sup>3</sup>/sec



### WET DE-DUSTER JUSTIFICATION

- High Collection Efficiency – Up To 99.9%
- Better solution for hazardous or combustible dust
- Low water pressure needed for wet system - 26psi or 1.8 bar
- Compact design for mining and heavy industrial applications
- Discharge of captured dust without re-handling
- Excellent option for size constraints
- Can be located on-board equipment, trailing, or fixed mounted outside.

### WET SYSTEM OPERATION

- Internal Nozzle System low pressure
- Spark Proof Shroud
- U/L XP MSHA Motors and Electrical
- Can locate device inside and exhaust inside
- Self-Cleaning Panels



# DRY DE-DUSTER

▪ Mobility ▪ Dust Capture Efficiency ▪ Ease of Maintenance

## MULTIPLE SIZE RANGES

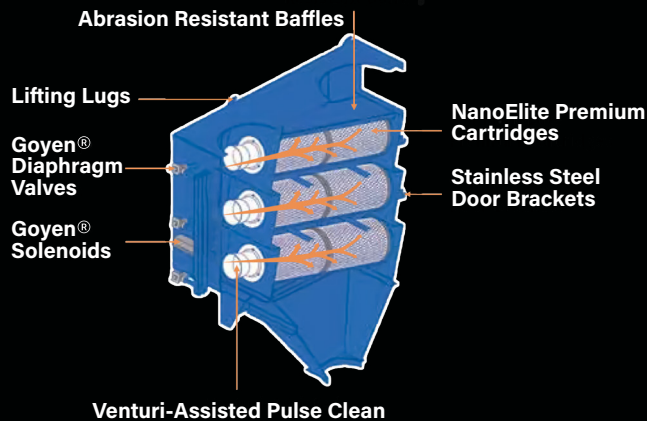
2,100 cfm to 100,000 cfm  
1m<sup>3</sup>/sec to 47m<sup>3</sup>/sec



### Easy-Change<sup>®</sup> -out filters from the front



### Venturi-assisted reverse-pulse filter cleaning

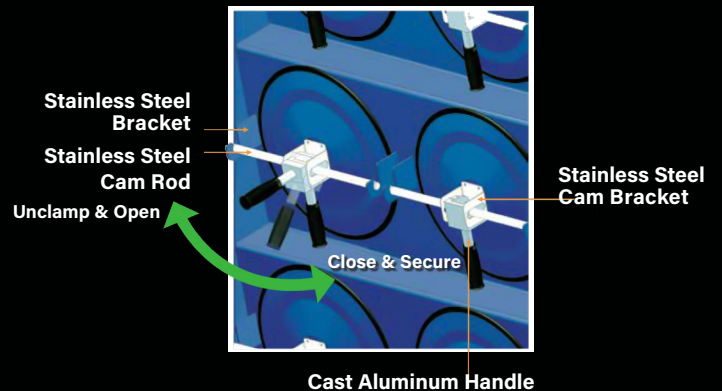


## DRY DE-DUSTER JUSTIFICATION

- High Collection Efficiency – Up to 99.99% Total Dust
- MERV 15 Filter Cartridges with HEPA option
- Modular construction for easy expandability
- Axial or centrifugal fan assembly options -50hz or 60hz Electrical
- Trailing or fixed mounted outside for tunnel and mining operations
- Diesel or electrically operated motor/fan combination
- Confined space entry permit NOT needed for filter changes
- Optional Filter Collars to avoid worker exposure to hazardous dust

### ENGLO DRY De-Duster Features Easy-Lock<sup>®</sup> Quick-Release filter door

- QUICK release doors save time on internal inspections and cleaning.



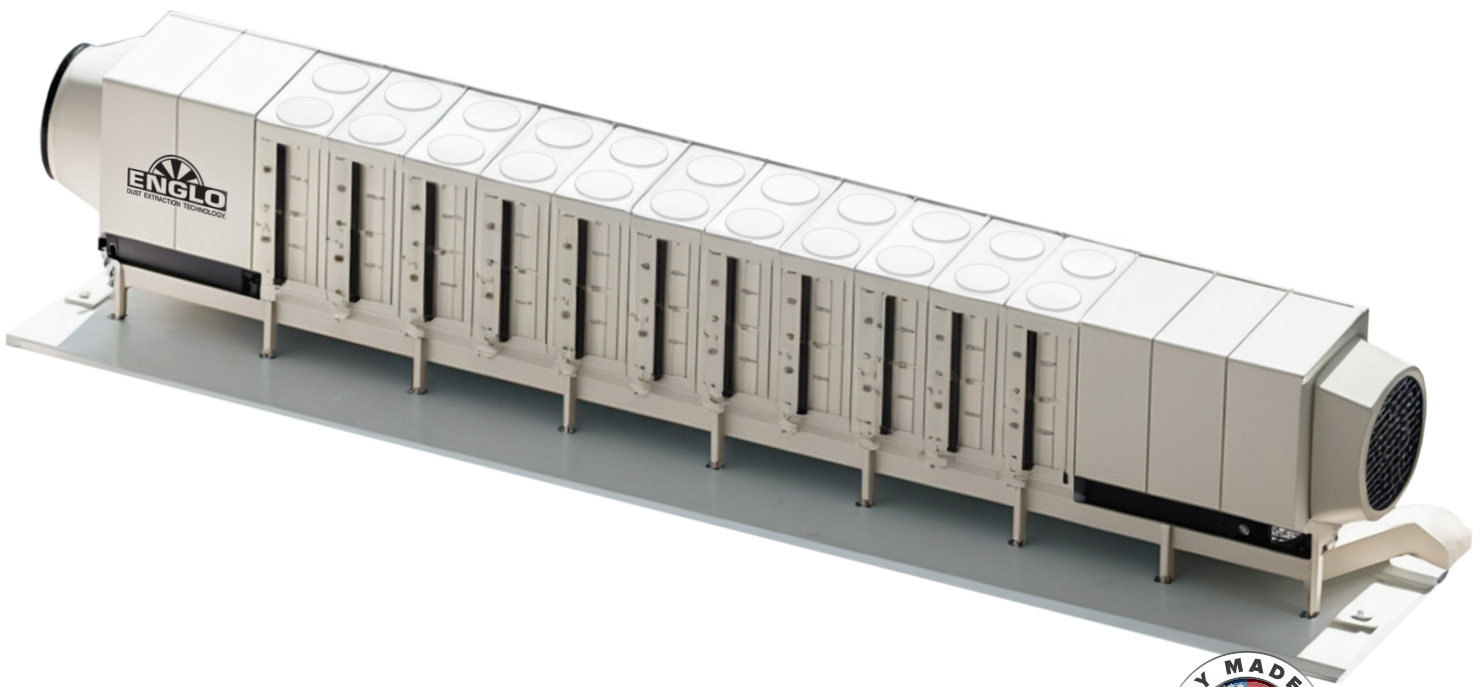
### ISSUES WITH CURRENT DE-DUSTER UNITS ON THE MARKET

- Expensive up-front cost
- Replacement filters and parts difficult to source
- Equipment availability and adaptability
- Older design criteria
- Filter replacement more difficult
- Long lead times
- Poor dirty air distribution
- Filter packing & plugging common problem
- Difficulty in changing filters
- Safety issue with workers
- Questionable clear air efficiency
- Poor fan efficiency

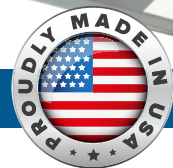
## Englo products have been used in a wide variety of dusty industries and applications worldwide.

- Coal Mining and Preparation Facilities
- Power Generation Plants
- Gypsum Industry
- Food Processing Facilities
- Wood Product Facilities and Sawmills
- Tunnel De-Dusting and Ventilation
- Heavy Processing Facilities
- Cement Plants
- Recycling Facilities
- Rail Car Dumper Applications
- Metal Non-Metal Underground and Surface Mining

## DRY DE-DUSTER



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