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**Strata Stone Dusting** – Preventing coal dust explosions in underground mines

**AUTOMATIC DISPERSAL SYSTEMS** – **PORTABLE DUSTERS**



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Underground Static POD

## AUTOMATIC DISPERSAL SYSTEM

### Automatic Stone Dust System

Fully integrated, automatic stone dusting system for the pneumatic transfer and storage of bulk stone dust. It is a surface-to-underground pipeline designed to transfer and distribute large quantities of stone dust, greatly simplifying the process and reducing the amount of man-power required to accomplish the task.

- **Single refill location at the surface – above ground silos**
- **Fully automatic, semi-automatic, or manual distribution underground**
- **Flexible options for manual hose dusting along pipeline**
- **Accessible underground storage for mobile stone dusters**
- **Considerable time and labour savings**



Surface Silo

## SYSTEM ▼

### Surface Silo

- Three capacity options. PLC controlled.
- Delivers bulk volumes of stone dust through a borehole to underground static PODs.
- One or two silo options per system

### Twin Blow Tanks

- Each 1 tonne capacity.
- Surface mounted to deliver stone dust underground via borehole.

### Underground Static PODs

- Two capacity options. PLC controlled.
- Deliver stone dust to development areas.
- Longwall tailgate dusting.
- Bulk transfer to other underground PODs.
- Bulk discharge, trickle dusting and manual dusting.

### Mobile POD Trailer-mounted

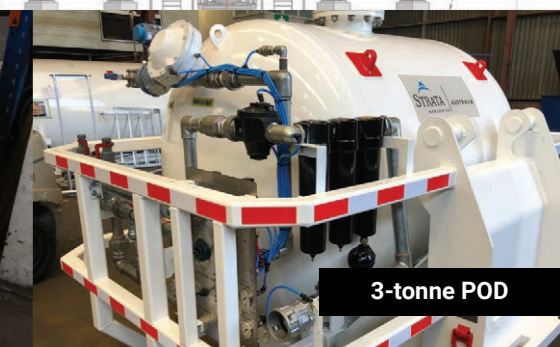
- 6 tonne capacity. Manually controlled
- Transport bulk stone dust underground
- Refill other PODs or Flingers
- Bulk discharge, trickle dusting and manual dusting



Twin Blow Tanks



1.2-tonne capacity hopper (flinger)



3-tonne POD



6-tonne POD Trailer-mounted



Maxi Duster



Spear Duster

## POD & PORTABLE STONE DUSTERS

### Strata Stone Dusters

High quality ruggedized and custom configured stone dusters.

#### POD DUSTERS

##### Multi-Functional: (applies to all sizes)

- Trickle dusting
- Manual/hose dusting
- Bulk dusting
- Bulk dust transfer

##### 3-tonne Capacity POD

- Compact and mobile - QDS attachment & skid mounted options
- Pneumatic dry powder duster, operates on compressed mine-air
- Fully manual operation with no electric or electronic interface

##### 6-tonne Capacity POD

- Heavy duty trailer mounted or skid mounted options
- Pneumatically controlled, fully manual operation and no electric or electronic interface
- Placed where needed for dusting and bulk material transfer to other equipment.
- Can be integrated into the Automatic Stone Dust System

##### 20-tonne Capacity POD

- Static POD underground
- Placed where needed for dusting and bulk material transfer to other equipment
- Can be integrated into the Automatic Stone Dust System

##### 1.2-tonne Capacity Hopper

- Compact and mobile –attachment and powering by LHD
- Twin rotating flingers centrifugally spray the stone dust outwards

##### Salter

- 1.2 tonne hopper with machine flingers modified to be used as a roadway salter.

#### PORTABLE DUSTERS

##### Spear Duster

- Delivers fast coverage using an engineered jet-pump
- No moving parts and no electrics
- Intrinsically safe and aluminium-free to meet mining regulations

##### Mini Duster

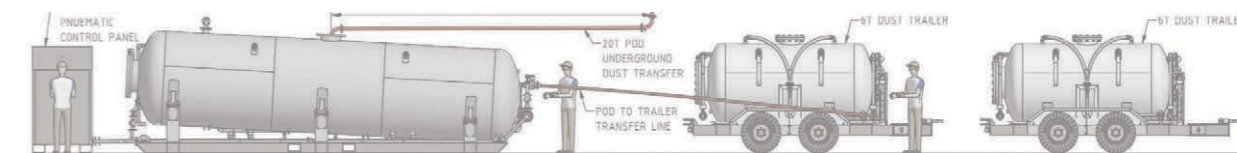
- Full bag capacity and delivers fast coverage using an engineered jet-pump
- No moving parts
- Intrinsically safe and aluminium-free to meet mining regulations

##### Maxi Duster

- Hopper design that holds 15 bags of stone dust
- Secure lid to seal against moisture
- Continuous discharge over 100 metres via a 50NB hose.
- No moving parts and no electrics
- Intrinsically safe and aluminium-free to meet mining regulations

##### Maxi Duster with Set & Forget

- Maxi Duster with factory set timer
- Steady discharge for 10-25 minutes. Automatic shutting down
- Dispersal into ventilation air stream achieves excellent coverage over long distance



## More than a Supplier...

Strata maintains a successful track record by working closely with customers and fully understanding individual project needs. On-site and remote service capabilities provide ongoing support and troubleshooting and help to ensure system integrity.

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