

Air Quality Control Systems

> Particulate Removal System

- Dry Electrostatic Precipitator
- Wet Electrostatic Precipitator
- Bag Filter
- Ash Handling System
- Tunnel ESP
- Hybrid Module Type Precipitator

> Gas Treatment System

- Wet Flue Gas Desulfurization
- Semi Dry/GSA
- SCR/SNCR
- VOCs Control System
- Exhaust Gas Cleaning System (For Marine)

Retrofit & Maintenance

- Air Quality Control System Retrofit
- Technical Service
- Feasibility Study

Manufacturing Services

- Dampers
- Steel Work

New & Renewable Energy

- Solar Power System
- Biomass & Waste to Energy

KC Cottrell Head Office
12th floor, Digital cube, 34, Sangamsan-ro, Mapo-gu, Seoul, Korea
TEL +82-2-320-6114 FAX +82-320-6100

KC Cottrell Factory
16-180, Seunsiing-gil, Seoun-myeon, Anseong-si, Gyeonggi-do, Korea
TEL +82-31-678-7700 FAX +82-31-674-9679



Particulate
Removal
Systems

Bag Filter

Global Leader in Green Technology

- People & Technology keeping our planet sustainable...

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Reverse Air Fabric Filter

- Suitable for large facilities
- Low air to cloth ratios
- Simple design with few moving parts
- Easy maintenance
- Compartment ventilation during maintenance

Pulse Jet Fabric Filter

- Wide variety of applications
- Bags are kept on the clean side, eliminating the need for ventilation during maintenance
- High air to cloth ratios
- 15m Long Bag test completed and 9.4m long bag in operation in Steel Plant

Cone Bag

A filter bag designed to increase the filtration area and to equalize the air pressure dispersion during exhausting by forming one conical bag in the empty space in the middle of the cylindrical filter bag.

As a result, it is possible to reduce the number of filter bags required, reducing the required area of the facility.

- Reduction of investment cost by reducing the body size
- Reduction of maintenance cost and investment cost by reducing pulsing air amount due to structure of cone bag
- Reduce installation area by reducing body size
- Installation of the additional bag filter for existing bag filter casing, maximum volume increasing the capacity by more than 60%, ex) 100m³/min → 164m³/min
- Improvement of filter area and clogging of existing BF without modification



Cone bag



Round bag



POSCO Gwangyang - 5 Coke

Pleated Bag Filter

- Large filtration area
- Maximum dust collection efficiency
- Compact design
- Operation of compressed air pressure less than 4.0 kg / cm²(The filtration speed is less than 1m / min.)



Pleated bag filter

References

- POSCO Gwangyang No.1~5 Flu Gas Cleaning Systems in Sinter Plant, Korea (2010)
- Krakatau POSCO Sinter Plant No.1, Indonesia (2014)
- Formosa Heavy Industries Corp., Hatinh Steel Plant Steel Making Plant No.6, Vietnam (2014)
- Asia Cement, Jecheon Plant, Korea (2015)
- POSCO E&C CSP Steel Plant Coke Plant No.1, Brazil (2016)
- POSCO Chemtech Gwangyang Lime Plant, Korea (2017)
- POSCO Pohang Cast House, Korea (2017)
- POSCO Pohang PCI, Korea (2017)
- Hyundai Steel No.1~3 Flu Gas Cleaning Systems in Sinter Plant, Korea (2020)



Krakatau POSCO Sinter Plant



POSCO E&C CSP Steel Plant Coke Plant

R&D

Bag filter test tower

Test tower installation and operation for improvement and optimization of bag filter.

- Filter Cloth Length, Type, Fabric Material
- Pulsing Valve Type
- Injector
- Interval with Blow Tube and Tube Sheet
- Pulse Jet Cleaning & Reverse Air Pulsing



Bag filter test tower