

When the dust settles



the choice is clear

Dustex

Product Recovery & Air Pollution Control for Industry

Contents

1	Welcome from the President
2	Mission
3	The Dustex Advantage
4	Our History
6	Markets
7	Products
8	Power/Steam Generation
10	Cement
12	Steel & Iron
14	Other Markets & Applications
16	Aftermarket
17	In-House Engineering Disciplines
18	Acid Gas Scrubbing & Mercury Sorbent Injection
19	Advanced Inlet Design & Custom Design
20	Proprietary Pulse-Jet Cleaning Technologies



WELCOME FROM THE PRESIDENT

As a full-service designer & manufacturer of product recovery, air pollution control equipment & systems, Dustex's number one priority for its more than 60 years in business continues to be its customers.

Dustex is committed to providing our customers with solutions for their air pollution control needs by taking advantage of our advanced design technologies, a fully staffed in-house engineering department & our own fabrication facilities.

Our company maintains a reputation based on stability, longevity & reliability. Our people are competent, responsive & creative. Our products & services are advanced & efficient.

While we cherish the tradition & history of Dustex within this highly competitive industry, we strive to continue to look to the future by pioneering the development of the most highly efficient & cost effective products to be found anywhere in the world. You will always find us to be prompt, courteous, technically proficient & competitively priced.

*I thank you for being interested in Dustex & I invite you to experience **The Dustex Advantage.***

*Patrick M. Paul
President & Owner*

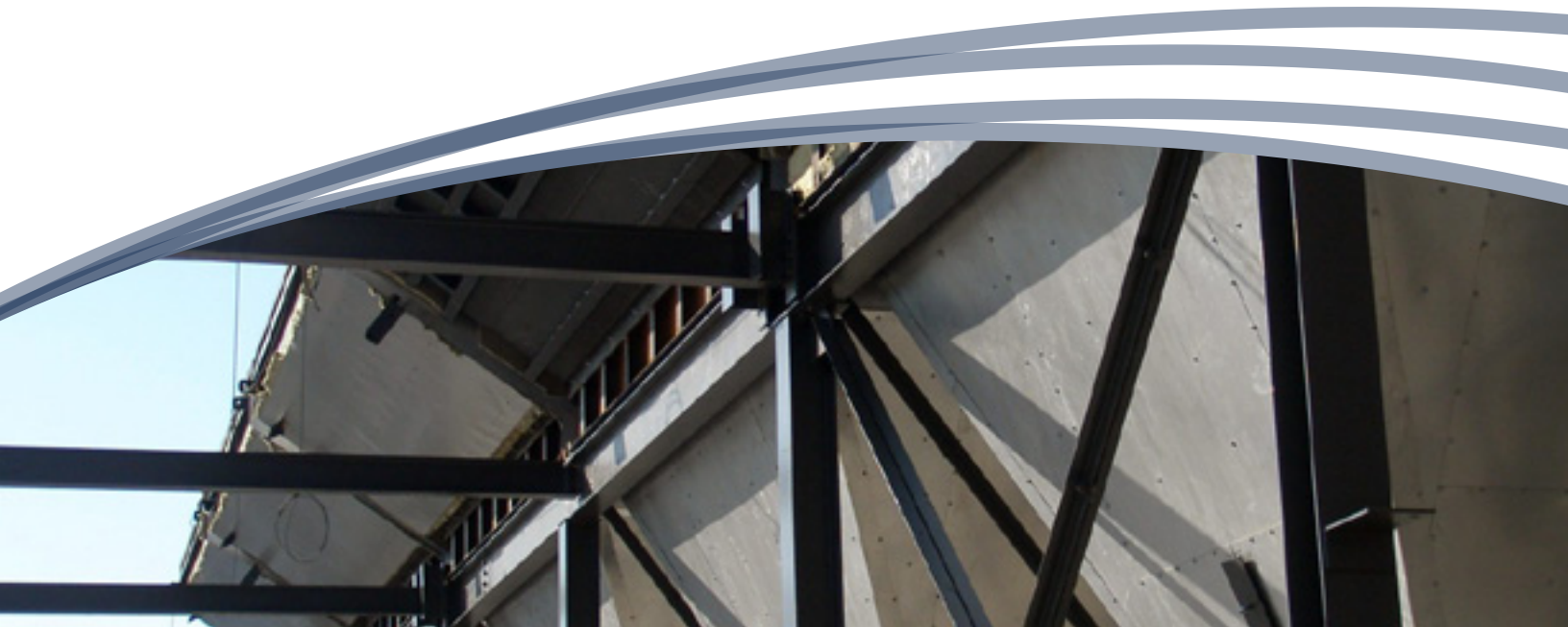


INNOVATION. TECHNOLOGY.

MISSION

Dustex Corporation *strives to provide our customers with highly efficient, cost effective & innovative air pollution control technology & equipment through the advantages of pioneered applications & decades of competent, responsive & creative service.*

2




CREATIVITY. TIMELINESS.

THE DUSTEX ADVANTAGE

After over 60 years in the industry, Dustex continues to supply its customers with innovative air pollution control through a wide range of disciplines. Operating as a fully functional design, fabrication, installation & commissioning able corporation, Dustex focuses on remaining highly efficient & cost effective through the use of pioneered applications by means of access to vast technical archives regarding air filtration, gas cooling & gas scrubbing systems. Concentrating on stability, longevity & reliability, Dustex offers unique technical advantages making us a front runner in the industry. *This is a reputation we enjoy.*

Experience *the Dustex Advantage.*

3



Richmond, Indiana
10-Module Pulse-Jet Dust Collector,
Model (10) 6134-16-19 #DS20080916

OUR HISTORY

- 1947 Founded in Buffalo, New York, as a designer & manufacturer of cyclonic separators for the food processing industry
-
- 1950's Developed & marketed a line of dry fabric filters throughout North America
-
- 1960's Introduced the "Inductaire" - a compartmented reverse-air collector with a compressed air actuated pulse system to agitate each bag during the cleaning cycle
- Acquired by American Precision Industries
- Established as the industry leader in the design & manufacture of fully portable reverse-air dust collection equipment for the asphalt & related aggregate industries
-
- 1984 Purchased from American Precision Industries by a group of key employees
- Incorporated in Charlotte, North Carolina
-
- 1998 Opened Systems Division to serve the utility & industrial boiler, steel & iron, cement & aggregate mining industries as well as other major market segments
-
- 2006 Relocated to Kennesaw, Georgia, a suburb northwest of Atlanta

4



*Today,
Dustex has evolved
into a full-service
designer & manufacturer
of product recovery,
air pollution control equipment
& systems with unparalleled
in-house engineering
expertise working both
nationally & internationally.*



MARKETS

Power/Steam Generation

Cement

Steel

Iron

Mining

Aggregates

Petro-Chemical Industry

Glass Industry

Miscellaneous

6



PRODUCTS

Fabric Filters

Unit Dust Collectors

Pulse-Jet Filters

Reverse-Air Filters

Mechanical Collectors

Cartridge Collectors

Activated Carbon Injection systems
for Mercury control

Trona/sodium Bicarbonate injection
for HCL, SO_3 & limited SO_2 control

Force-Convective Heat Exchangers

Dust Valves: double dump & vacuum valves

Turn-Key Capabilities

7



*Columbus, Nebraska
Modular Pulse-Jet Baghouse, Model (2)
8-Module 6136-16-19 #DS20070243*

POWER/STEAM GENERATION

Industrial Coal Fired Boilers

Spreader Stoker

Circulating Bed

PC Fired Boiler Emission

8

Controls & Dry/Semi-Dry SO₂ Control

Coal Handling

Coal Car Unloading Stations

Waste to Energy Incinerators



RECENT PROJECTS



Morehead, Kentucky

*3-Module Pulse Jet Baghouse with fans, ductwork, & ash conveying system,
Model (3) 6136-16-19 #DS20080297*



Richmond, Indiana

10-Module Pulse-Jet Dust Collector, Model (10) 6134-16-19 #DS20070267



Halifax, Nova Scotia

8-Module Pulse-Jet Dust Collector, Model (8) 6136-17-29 #DS20070266



Holyoke, Massachusetts

(12) Split Module Baghouse Pulse-Jet #DS20070269

CEMENT

Raw & Finish Mills

Material Handling

Kilns

Alkali By-Pass

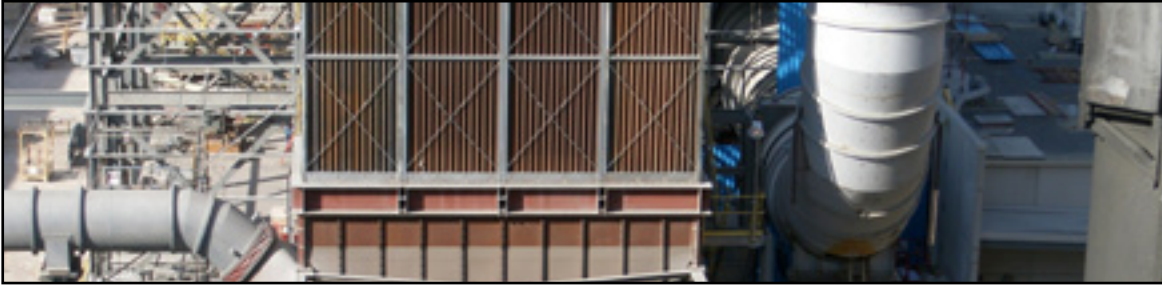
Clinker Cooler

Separators & Finish Mills

Ready Mix/Sand Dryers

Stockhouse

RECENT PROJECTS



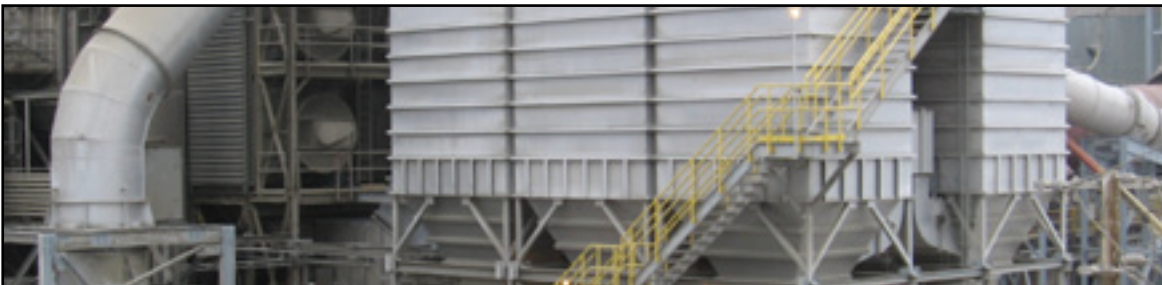
Festus, Missouri

(14) Nuisance collectors and fans, various sizes and volumes @ 275°F #DS20060205



Richmond, Indiana

10-Module Pulse-Jet Dust Collector, Model (10) 6134-16-19 #DS20070267



Halifax, Nova Scotia

8-Module Pulse-Jet Dust Collector, Model (8) 6136-17-29 #DS20070266



Holyoke, Massachusetts

(12) Split Module Baghouse Pulse-Jet #DS20070269

STEEL

Electric Arc Furnaces

Ladle Furnaces

Casthouse

Blast Furnace

B.O.F. Charging Isle

Ladle Transfer Stations

Desulfurization Stations

Casters

LMF Applications

Stockhouse

IRON

Cupola

Mold Line

Pouring Line

Shake-out

Mixers/Mullers

Sand Reclaim/Handling

Induction Furnace

Inoculation Station/Ladle

Shot Blast Machines

RECENT PROJECTS



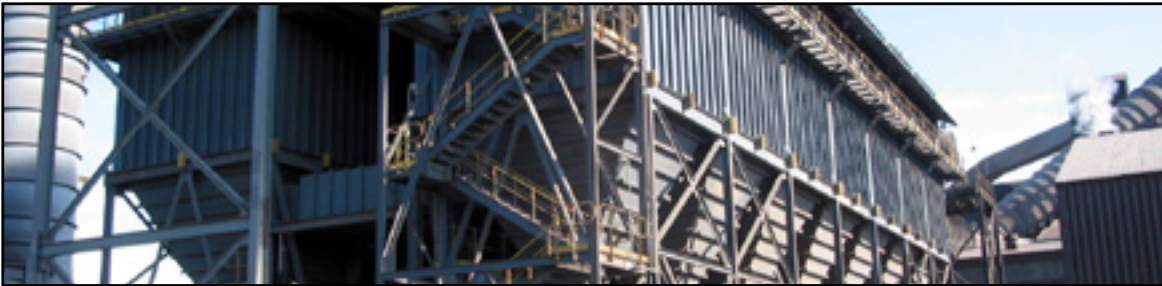
Sparrows Point, Maryland

Ladle Treatment Station, 5-module pulse-jet baghouse Model (5) 6134-15-17 #DS20060197



Hollsopple, Pennsylvania

10-Module reverse-air suction dust collector, Model (10) RA-6136-20-21 including baghouse, ductwork, stack, and ash handling #DS20050127



Burns Harbor, Indiana

14-Module high pressure pulse-jet dust collector, Model (14) 6134-34-28 including baghouse & spark box plus controls #DS20050130



New Madrid, Missouri

(1) 6-Compartment Collector & (1) 3-Compartment Collector #DS20060201

OTHER MARKETS & APPLICATIONS

MINING

Crushers
Dryers
Smelters
Concentrator Plants
Material Handling

AGGREGATES

Spray Dryers
Mills
Calciners
Rail & Truck Loading

PETRO-CHEMICAL INDUSTRY

Spray Dryers
RTO Pre-cleaners
Pneumatic Receivers
Silo/Bin Ventilation
Mixing, Blending, Bagging

GLASS INDUSTRY

Raw Materials/Cullet Handling
Furnaces

MISCELLANEOUS

Medical Waste Incinerators
Pulp & Paper Applications
Woodworking Applications
Paper Handling, Binder Applications
Welding, Cutting, Machining Centers
Gas Cooling & Conditioning

RECENT PROJECTS



Green Bay, Wisconsin

Dry Fluid Bed Scrubber with Pulse-Jet Baghouse Model (4) 6134-15-16 #DS20080308



Rhineland, Wisconsin

4-Module Pulse jet Baghouse on stoker fired boiler #DS20060215



Columbus, Nebraska

Modular Pulse-Jet Baghouse Model (2) 8-Module 6136-16-19 # DS20070243



Middletown, Iowa

(2) 4-Module Pulse Jet Baghouses, Model 6138-15-16 # DS20070234

AFTERMARKET

Our Aftermarket department offers a complete supply of competitively priced replacement parts including bags, cages, diaphragm & solenoid valves. These are not only for Dustex collectors, but also many other dust collector manufacturers.

Whether it is timer boards, PLC systems components, conversion from cloth filter bags to top or bottom load pleated bags for increased air to cloth ratio, cartridge filters, envelope bags, pulse valves & repair kits, we can replace it all.

16

We also offer our popular vacuum valve for hopper discharges, bins, cyclones or any type of dust collector operating under negative pressure.

Dustex has its own in-house controls division which can upgrade your air pollution control equipments' PLC &/or MCC.

Spare Parts & Customer Service

322 Northpoint Parkway, Suite K, Acworth, Georgia 30102
(T): 800-647-6167 | (F): 678-574-4980 | parts@dustex.com

*Check out Dustex.com for complete details
regarding our Aftermarket capabilities*



IN-HOUSE ENGINEERING DISCIPLINE

Our innovative engineers are active in research & development, bringing numerous patented collector design features to the industry throughout Dustex's history.

With that in mind, we provide the following:

- Access to our in-house engineering disciplines
 - Mechanical
 - Environmental
 - Civil/Structural
 - Electrical
 - Chemical
 - Welding
- Process analysis & application evaluation
- Economic justification & ROI implications of the technology
- System design & conceptual engineering
- 3D computational fluid dynamics & modeling
- Complete equipment design & fabrication
- Ancillary ductwork, fan packages, dampers & material handling
- In-house automated control system design & manufacturing
- Complete integration of system utility requirements
- Equipment installation & commissioning
- Comprehensive operating training
- Finite element analysis

17



ACID GAS SCRUBBING (ACI) & MERCURY SORBENT INJECTION

- Continuous ACI systems utilizing a proprietary Dustex injection grid to maximize distribution
- Loss in weight feeding technology is utilized for maximizing injection accuracy
- Volumetric feeding technology for applications where capital cost is paramount to the client
- Dustex has integrated Computational Fluid Dynamic (CFD) modeling for maximizing distribution & minimizing high velocity streamlining
- Dustex provides Sulfur based compound scrubbing & HCL scrubbing systems for coal fired industries. These injections systems offer both a “once through” approach for low efficiency systems as well as a medium & high rate “recycle system” with a fluidized column reaction chamber for high efficiency systems
- Additional equipment may be provided for the optimization of scrubbing efficiency which may involve dilution of the gas stream, heat exchanger technologies & spray cooling of the gas stream
- Boric acid control systems have also been designed to minimize boric acid emissions & maximizing the life of air pollution control equipment in Borosilica furnaces



ADVANCED INLET DESIGNS

We provide several manifold & inlet design configurations. These designs generally encompass the following:

- Hopper entry
- Standard entry, medium velocity
- Pre-cleaner, inertial separator
- Dropout, low velocity chute
- Housing entry
- Low housing entry with impingement plate, cross-flow
- Manifold to module connection
- Direct horizontal off-take or self-cleaning chute

All process collector inlet designs are modeled using CFD software to assure that system performance requirements are satisfied in the final design.

CUSTOM DESIGNS

We design each process collector individually based on your specific application, layout & installation requirements. This approach provides for a cost-effective design without sacrificing performance. We offer systems in module, compartmented, or panelized designs to meet site erection & application requirements.

PROPRIETARY PULSE-JET CLEANING TECHNOLOGIES

One of Dustex's two cleaning technologies is the advanced pulse pipe technology. This is used for multi-module systems due to increased flexibility for manifold layouts & clean air plenum types. It can be used with intermediate (40-60 psig) & high-pressure (90-100 psig) compressed air.

This technology is based on Dustex patents that were developed for the remote venturi cleaning system & high volume cartridge cleaning systems. The system has been designed for long filter bags & for systems utilizing high air-to-cloth ratios (>8 cfm/sf).

Dustex also employs an advanced-cleaning algorithm which changes header pressure based on pressure drop & cleaning frequency. Soft-landing technology is implemented through valve on time, header pressure & blow-pipe/venturi arrangements.

Chicago, Illinois

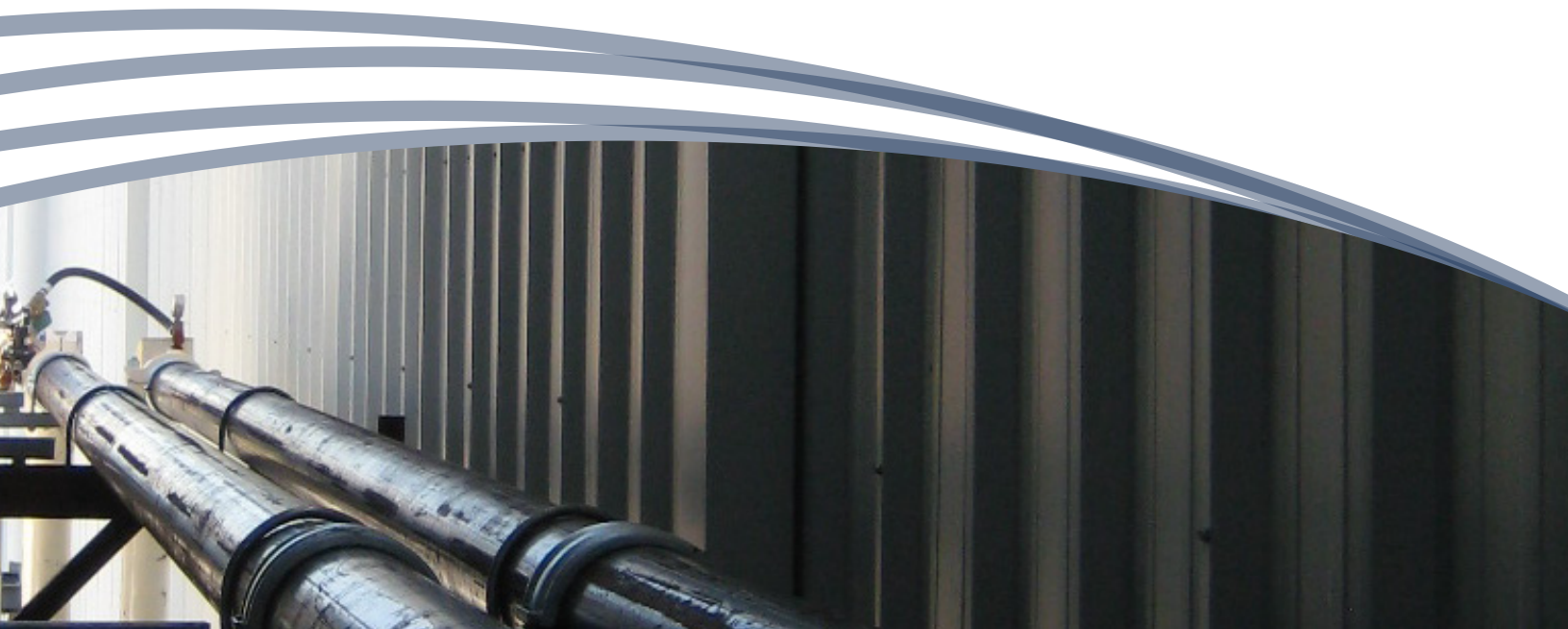
Vertical up-flow tower, carbon steel construction with castable refractory & 5 operating lances #DS20100350



When the dust settles

.....

the choice is clear





*Dustex Corporation, headquarters
100 Chastain Center Blvd
Suite 195
Kennesaw, Georgia 30144
(T): 770.429.5575 / 800-647-6167
(F): 770.429.5556
dustex.com
mail@dustex.com*

Dustex

Product Recovery & Air Pollution Control for Industry