Fluid Engineering, Inc.

Pumps
Fans
Air Pollution Control
Pneumatic Conveying
Engineering & repair Services

Engineered Solutions to Industry’s Most Demanding Air and Liquid Applications
Fluid Engineering provides pumps and custom pump packages for:
• Automotive,
• Chemical,
• Food Processing,
• Iron & Steel
• Minerals,
• Pharmaceuticals,
• Power,
• Pulp & Paper, and
• General Manufacturing Processes
From centrifugal to positive displacement, from batch transfer to precise metering, Fluid Engineering will size, select and build the best pump unit for your application.

Batch metering system for a chemical additive.

Four jacketed rotary gear pump units bound for rosin service.

An air-operated double-diaphragm chemical batch metering system for a specialty chemical supplier.

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Fans

Fluid Engineering provides industrial ventilation for any size facility from small warehouses to large casting floors.

Fluid Engineering fans move:
• Hot air,
• Toxic and corrosive fumes,
• Dust-laden air, and
• Fresh, conditioned make-up air.
Industrial centrifugal exhaust in a wood dust collection system.

Heavy duty mancooler fan for foundry casting floor.
Air Pollution Control

Fluid Engineering supplies turn-key solutions to dust and fume problems. From preliminary design to installed equipment, Fluid Engineering can clean your air to exceed OSHA and EPA standards.

Fluid Engineering provides air pollution control systems for various industries, including: Automotive, Chemical, Foundry, Minerals, Pharmaceutical, Rubber, Iron & Steel, and Woodworking.

Complete wood dust collection system with hoods, duct, collectors, fans, return air systems, airlocks, and material relay conveyor to hopper.

Design drawing for the wood dust collection system shown above.

Custom hoods collecting foundry met-fumes.

Dust collection and conveying system for abrasive grindings at an automotive facility.
Fluid Engineering offers expertise and equipment to optimize your existing pollution control system. For example:

- Better hoods collect efficiently.
- Airlocks reduce leaks.
- Filtration technology lowers costs.
- Efficient fans save energy.
- Silencers quiet the noise.

Cutting and grinding dust collection system in an aerospace facility.

Machine-mounted coolant mist collector on a CNC machining center.

Packed fume scrubber system in a plating facility.
Fluid Engineering can design a reliable and efficient material system or select the best components to optimize a system.

From “Ash to Zinc,” Fluid Engineering can design a system to convey almost any product.

Blower package conveying hydrated lime.

Rotary airlocks with wear-back elbows conveying lime kiln dust at 450 degrees Fahrenheit.

Petro-chemical powder transfer and storage system.
Fluid Engineering engineering services include:

- Pumping system packages,
- Dust collection system design,
- Exhaust system evaluation,
- Pneumatic conveying system design,
- Ventilation system design,
- Air system testing and balancing.

Contact Fluid Engineering today for solutions to your liquid, air and material handling needs.
Fluid Engineering offers factory-certified repairs of a many pump types including:

- Centrifugal (including end-suction, vertical inline and split-case)
- Rotary gear and lobe
- Mechanically- (diaphragm and plunger) and hydraulically-actuated metering
- Air-operated diaphragm (AOD)
- Progressive-cavity
- Peristaltic hose
- Rotary gear and lobe
- Canned-motor
- Vertical turbine
- Drum
- Submersible
- Piston
- Screw

Fluid Engineering also offers service and repair of valves, meters, airlocks, blowers and a variety of fan types.

Fluid Engineering technicians can also provide onsite start-up, inspection, troubleshooting, and repair services for these types of equipment.

ANSI end-suction centrifugal pump, pre-repair at left and post-repair at right.

ANSI centrifugal repair parts inventory at Fluid Engineering Birmingham warehouse.

Split-case centrifugal pump repaired and ready for delivery.
Contact your Fluid Engineering sales engineer for additional information about any of the products or services we offer.