

Featuring source capture, containment, & removal of harmful and combustible dusts while meeting all applicable NFPA, OSHA, and ATEX guidelines and regulations.

Powerful • Dependable • Guaranteed

Continuous Duty Vacuum Systems Designed For:
**COMPOSITE and ADVANCED
MATERIALS MANUFACTURING
APPLICATIONS**

THE CASE FOR VACUUM

Polymer-matrix composites manufacturing is a multibillion dollar industry in the United States. Composite products range from sporting goods to components used on space exploration vehicles. The industry can be generally divided into two basic segments, reinforced plastics and advanced composites. Several of the composites manufacturing processes are common to both of these segments.

Products from either class of composites often times require grinding, sanding, cutting, or drilling. During these processes, harmful dusts, vapors, or foreign object debris (FOD) are generated and can create a health issue for employees. In addition, dusts from carbon fibers are conductive and can wreak havoc with electronics, disrupting manufacturing processes or, in the case of aircraft repair, affecting avionics. By collecting these dusts at the source, utilizing shrouded tools connected to vacuum systems, the potential for these types of issues is greatly reduced.

An additional concern for manufacturers and customers of each of the composite products is the combustibility of composite dusts. The latest NFPA guidelines set limits on the amount of dust permissible and cautions against collecting this dust in a manner that will allow it to become suspended in air resulting in increased combustibility. The most efficient method for collection and containment of combustible dust is accomplished at its source. For collecting fugitive dusts that build up on equipment and structures, general housekeeping hoses and tools can be plumbed to the same system.



Reinforced Plastics:

This industry utilizes various resin systems including polyester, epoxy, and other specialty resins. These materials, along with a catalyst or curing agent and some type of fiber reinforcement (typically glass fibers), are used in the production of a wide spectrum of industrial components and consumer goods such as: boats, piping, auto bodies, and a variety of other parts and components.

Advanced Composites

This sector of the composites industry is often characterized by the use of expensive, high-performance resin systems and high-strength, high-stiffness fiber reinforcement. The aerospace industry, including military and commercial aircraft of all types, is the major customer for advanced composites. These materials have also been adopted for use by sporting goods suppliers who sell high-performance equipment to the golf, tennis, fishing, and archery markets.



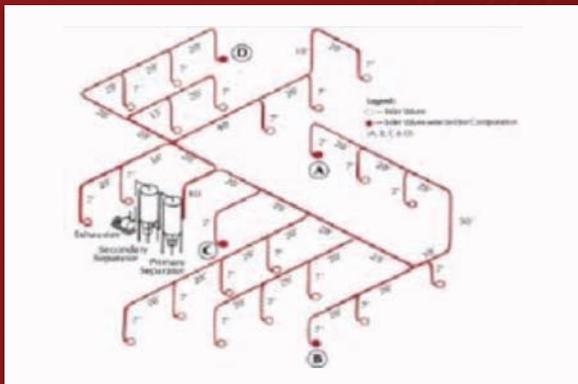
**START YOUR CUSTOM SYSTEM
AND SOLUTION DESIGN TODAY**

Contact Vacutech At:

(800) 917-9444 | info@vacutechllc.com | vacutechllc.com

CUSTOMIZED SOLUTIONS

Vacutech designs, manufactures and installs custom vacuum systems scaled to meet your unique requirements—from portable systems designed for 2-3 operators to full central systems to service entire production facilities. With over 20 years in the industry, we've been involved in solving a wide variety of complex dust and debris collection problems.



Industrial housekeeping & regulatory compliance



Vacutech's engineers are experts in the control of harmful and combustible dusts. Our team stands ready to assist you with solutions designed specifically for your application.

POWERFUL VACUUM SYSTEMS



At the heart of each of our central vacuum systems are our powerful, continuous duty, multi-stage, centrifugal fans. Offered on 3 different platforms and with up to 9 stages, these fans pro-

duce variable volume with constant vacuum resulting in the most energy-efficient systems on the market. Our standard products deliver from 1,000 to 3,500 SCFM at 2" - 8" HG of Static Vacuum Pressure, while our custom built units deliver 4500 SCFM and 14.5" HG of Static Vacuum Pressure and beyond.

For 2-4 operator applications and spot cleaning needs, our Mighty Vac self-contained portable units are available in both 5 and 10 HP models and are capable of delivering up to 5" HG of static pressure and 900 SCFM.



For specific applications where peak vacuum pressure but minimal airflow is the optimal solution, our regenerative vacuum units are available in 2 or 3 user systems delivering up to 375 SCFM at 10" HG of static pressure.



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