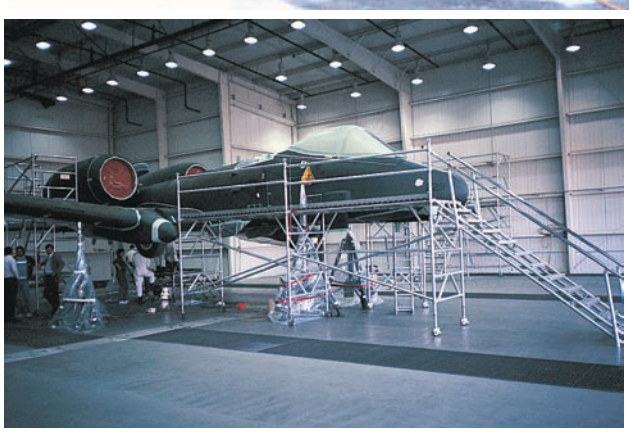
AEROLYTE® by Clemco Industries Corp.
Systems

BLASTING EQUIPMENT FOR USE WITH NON-AGGRESSIVE MEDIA



Cleaning, stripping, finishing with non-aggressive media

AEROLYTE Systems creates the technology, the equipment, and the controls to safely clean, strip or finish the most sensitive surfaces.

Each type of lightweight, non-aggressive blast media is formulated to have qualities–low density, high or low angularity, and a specific hardness–that allow it to cut through coatings or remove surface contaminants without affecting the substrate. These same qualities present special demands on the equipment used to recover, clean, convey, store, and blast non-aggressive, lightweight media.

Origins of Lightweight Media Blasting

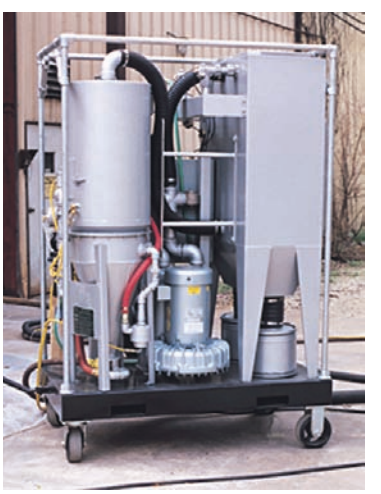
Clemco Industries Corp. has been involved in making specialized blast equipment for use with non-aggressive media since the early 1960s; first under the ZERO brand name for agricultural media such as crushed walnut shells, corn cobs, and fruit pits; and later under the AEROLYTE Systems brand name for plastic, wheat starch, corn starch, soda and sponge media.

These non-aggressive media are used for dry stripping, a process developed to gently remove coatings from delicate surfaces and carbon buildup from aluminum engine parts.

Over the years, AEROLYTE has developed a significant expertise building non-aggressive media blast and recovery systems, and marketing standard and custom products to military, aerospace, automotive, and industrial customers worldwide.

Safety is Job Number One

Safety is a top priority for aviation, aerospace, and other transportation manufacturers. As they continue to evolve their processes and products to achieve lighter-weight structural and surface materials, their need for inspection and safety monitoring becomes all the more critical. Dry stripping removes coatings that hide corrosion and microscopic cracks that can lead to catastrophic failures.



AEROLYTE designs and builds the equipment needed to remove coatings from delicate substrates without damaging them and without concealing surface defects. And dry stripping creates just a fraction of the toxic waste generated by chemical strippers and eliminates worker exposure to hazardous chemicals.

Addressing Challenges with Innovation

Our experience with plastic media blasting equipment has led to further equipment innovations, adapting the technology to non-aggressive media, such as wheat starch, corn starch and bicarbonate of soda, and to varying customer applications. Each customer brings special, frequently unique, part handling and application challenges. Built-in features such as pressure relief valves ensure the operator does not exceed the proper stripping pressure, safeguarding critical aerospace components.

AEROLYTE technology addresses unique media flow characteristics with steep-coned pressure vessels, pneumatic controls that pressurize the machines at low pressures, and special media metering valves. Material handling and media separation requirements differ for each type of media. Media recovery systems can include magnetic separators, heavy-particle separators and vibratory classifiers that protect the integrity of the media mix. Ionizers also can be incorporated to eliminate static and enhance media flow. Large stripping facilities with multiple operators frequently call for rotary airlocks on hoppers held under pressure and unique reclaiming systems that keep media flowing.

Products for Today

AEROLYTE engineers work continually to improve technologies for efficiency, productivity, and safety. From specialized pressure vessels, manual and automated cabinets of all sizes, and from small, preassembled dry strip rooms, to full-aircraft facilities—AEROLYTE is moving the technology forward to meet the ever-changing needs of the future.

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 • Washington, MO 63090 • 636 239-0300 • Fax 800 726-7559 • www.clemcoindustries.com

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