

Abrasive Blast Equipment Options

For nearly 75 years, Empire Abrasive Equipment has been a pioneer in developing and manufacturing groundbreaking air-blast machinery. We deliver quality products and systems with a competitive advantage in air-blast technology. Our team of experts is happy to provide turnkey installation, training, technical assistance, and lab testing for our equipment to ensure that we meet and exceed our customers' needs.

Empire's solid reputation as an innovator in the air-blast industry allows us to partner strategically with reputable companies and manufacturers. These collaborations enable us to offer a wide selection of high-quality abrasive blast equipment options.

Our vast array of trusted products and blasting equipment includes the following:

Robotic Blast Systems

Empire is a top-notch manufacturer and designer of air-blasting equipment. We begin with building the finest blast and recovery systems and integrating robots into them. For more than 30 years, we have fully assimilated commercially available robots into a wide range of blast cells, rooms, and systems. This integration is consistent with our primary goal of offering blasting equipment that allows quiet, efficient, and clean solutions for surface preparation and peening applications.

Working together with our strategic allies and partners, our company provides integrated robotic air blast solutions for a variety of industries, including aerospace, energy, transportation, oil and gas, military, high technology, medical, and industrial manufacturing.



Empire provides the following blast system and operation options:

Robotic Indexing Turntable

Robotic Peening Systems

HMI Control Systems

End of Arm Tools

Servo-Controlled Auxiliary Axis

Vision Systems

Off-line Programming

Coordinated Part Manipulation

Custom Part Fixturing

RFID/Barcode and Laser Scanners

Ethernet Communication

IoT Capable Remote Access Routers

End-effectors for Part Manipulation

Automated Blast Systems

Empire has developed numerous complex automated systems, from basic automation to enhanced robotic nozzle, part manipulation, and part handling, that can boost productivity between 100% and 700%. In addition, our customers can control all systems to the required degree with speed, air pressure, and media flow controls, media recovery, and classification systems, and process validation and reporting.



We offer the following automated blast systems:

Indexing Turntable Machines

Batch Processing Machines

Continuous Processing Machines

Single Piece Flow Cell Machines

Rotary Head

Shot Peening Systems

In-line Systems

Custom Automated Systems

Blast Rooms

Empire manufactures totally integrated Blast Rooms of any size. We custom-engineer enclosed blasting facilities to accommodate specific production and dimensional requirements, resulting in balanced blast room systems with no compatibility issues. Each room includes a full range of field-proven components for media recovery, reclamation, and other accessories to maximize productivity.

Customers can choose from Pre-engineered Blast Booths (PEB), Packaged Rooms, and Engineered Field-erected Blast Rooms.



Modified Blast Cabinets

Empire's Modified Pro-Finish® Cabinets are cost-effective re-engineered solutions for specialized finishing and surface preparation in applications that require partial automation to speed up production. In addition, we have successfully served various industries with our modified blast cabinets. From work envelope expansion cabinets to crane slots, to pass-through cabinets and more, you can count on Empire's robust and adaptable modified blast cabinet products to meet any customer's specifications.

Empire can economically tailor any blast cabinets to meet specific needs and process requirements while ensuring reduced lead times over custom-engineered purpose-built equipment.



Manual Blast Cabinets

The Pro-Finish® system delivers the ideal balance of equipment performance and modular design versatility to fit different configurations suitable for any blasting system requirements. It includes an integrated dust collector, tunable reclaimers, and a one-cubic-foot pressure vessel and suction hopper.



Empire manual blast cabinets are available in the following setups:

Pro-Finish® Blast Cabinets

Pro-Former™ Blast Cabinets

Ergo-Blast Cabinets

FaStrip®

Econo-Finish® Blast Cabinets

SafeStrip™ Blast Cabinets

IL-885 In-line Conveyor Cabinets

Basket Blasters

Continuous Belt Blasters

Portable Blast Systems

Empire produces a comprehensive range of portable blasters with high removal rates, ranging from DIY suction blasters to contractor-grade SuperBlast® pressure machines. We also offer high-quality safety gear that can be purchased separately or in conjunction with a blaster.



The following portable blast systems are available:

SuperBlast® Portables

Econ-O-Blast™ Portables

FaStrip™ Portables

SafeStrip™ Portables

PRS Pneumatic Blast & Recovery Systems

Blast N' Vac with Vacutrans

Dust Collectors/Reclamation

Empire designs and manufactures dust collection systems that collect and filter dust-laden air before releasing it as clean air to promote a more sterile atmosphere and environment. All filters are also integrated with nanotechnology to improve release properties, durability, quality, and efficiency.



Empire provides the following dust collection and reclamation systems:

Baghouses

SEM Free Standing Cartridge Dust Collectors

Cartridge Dust Collectors

Room Ventilation HDFT & BVS

Vacuum Recovery Systems

Media Reclaimers

Cartridge Collectors for High-Production Systems

Operator Safety Equipment

Empire supports our portable blaster systems and blast rooms with advanced safety equipment from RPB that guarantees operators' safety and protection and adheres to Occupational Safety And Health Administration (OSHA) standards. In addition, all devices affecting breathing-air quality are thoroughly



devices affecting breathing air quality are thoroughly checked and maintained regularly, especially when a multi-purpose compressor is used to supply breathing air.



Empire also offers Bullard Safety Equipment, a worldwide brand and a leading manufacturer of high-quality personal protective equipment and systems. We use the following operator safety gears:

Bullard Respirator Hood

Bullard AC1000 Air Conditioner

Bullard Air Pump & Kit

Bullard Frigatron

Bullard HC2400 Climate Controller

More safety equipment options available are:

RPB Nova 2000 Respirator

RPB Nova Talk Respirator

RPB Astro Respirator

RPB 4000-01 Cool Tube

RPB 4000-20 Hot Tube

RPB Radex Airline Filter

RPB NV2029 Breathing Airline Hose

RPB GX4 Gas (C.O.) Monitor

Nova 3 Ultra Performance, Heavy Industry Respirator

Gibson Wheel Blast

Gibson Abrasive Equipment Co. develops the best wheel blast equipment solutions and replacement parts, ensuring the long-term efficiency of machines and reducing equipment downtime. They also provide objective and impartial processing recommendations and a trained team to help with



recommendations and a trained team to help with every stage of the process — from design to the final product.

Choose Empire For The Best Abrasive Blast Equipment!

Empire Abrasive Equipment is always at the forefront of air-blasting equipment innovation, and we provide high-quality technology and solutions. Apart from having a knowledgeable and skilled team of engineers that work on design and blast technology, we also have dedicated regional sales and product managers that offer exceptional customer service. Our Empire team will work with you to provide the best products and services possible.

Get in touch with us today for your abrasive blast equipment needs!



www.empire-airblast.com

