



# RBT36-F Robotic Blasting Cell

- **Advanced Automation**
- **High-Efficiency Blast and Reclaim**
- **Intelligent Blasting, Smartly Priced**

## Cartridge Dust Collector

captures 99.999% of particles one-half micron or larger, normally permitting recirculation of air to the work place.

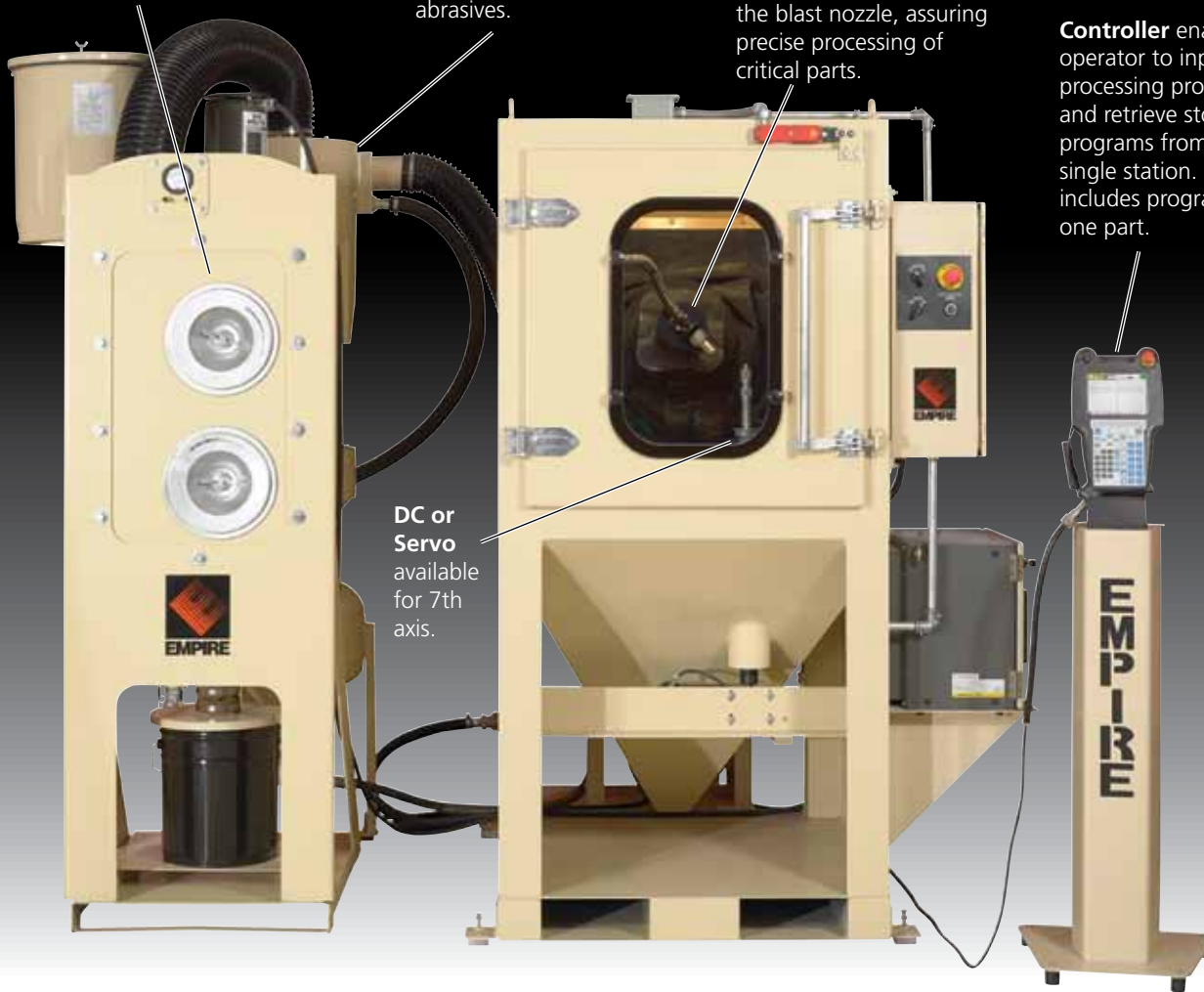
## Tunable Media Reclaimer

can be adjusted to clean and recycle a wide range of abrasives.

**Six-Axis Robot** controls the speed and path of the blast nozzle, assuring precise processing of critical parts.

**Controller** enables operator to input new processing programs and retrieve stored programs from a single station. System includes program for one part.

**DC or Servo** available for 7th axis.



Empire's new RBT36-F robotic pressure-blast system opens the door for many firms to cash in on the benefits of high precision air blasting. Capable of processing parts up to 12 inches in diameter by 12 inches tall, the RBT36-F employs a Fanuc 6-axis robot to control nozzle movement plus a DC or Servo drive to control part movement, enabling users to assure the quality control and deliver the process validation so often required by today's aerospace, automotive and medical-equipment sectors.

In addition to helping customers control quality, the RBT36-F reduces the consumption of blast media, energy, floor space and raw materials while boosting the speed, flexibility and yield of manufacturing processes. In short, the system does more with less, contributing to a better bottom line.

The RBT36-F includes dust collection, media reclamation, controls — all the hardware and software required for robotic blasting at standard automation pricing.

In addition to the RBT36-F, Empire produces a larger version of this standard system for parts up to 24" x 24", as well as engineered robotic systems tailored to specific applications. For more information about our RBT36-F, go to the next page, contact Empire or your local Empire distributor, and visit our web site at [www.empire-airblast.com](http://www.empire-airblast.com)



Dawson-Macdonald Co., Inc.  
845 Woburn Street - Wilmington, MA 01887  
Tel: (800) 556-4456 (toll free) / Fax: (978) 657-8740  
E-mail: [info@dawson-macdonald.com](mailto:info@dawson-macdonald.com)  
Website: [www.dawson-macdonald.com](http://www.dawson-macdonald.com)

RBT36-06121M



*One machine, hundreds of programs*

## Standard Components

- 36" wide x 36" deep blast enclosure, 11-gauge steel
- Side-hinged front loading door
- Powered part rotation station, 90° positioning
- Media storage hopper, 1 cubic foot capacity
- Pressure vessel, 1 cubic foot capacity
- 1" inlet piping with regulator
- 5-micron general purpose filter
- Tungsten carbide pressure nozzle, ¼"
- Fanuc LRMate 200iC six-axis robot
- Hypalon protective robot boot
- Fanuc R-30iA mate controller
- Programming for 1 part
- Skid with forklift slots for blast enclosure and robot
- Cartridge dust collector, 600 cfm, SEM-2
- Cyclonic media reclaimer, 600 cfm, unlined
- Media conveying hose, 4" ID
- NEMA-12 electrical enclosure with controls (230/60/1)

## Factory Upgrades

- Peening package including screener and shot flow controller
- CDC-6 dust collector with photohelic cartridge cleaning
- Sound attenuator for CDC-6 dust collector
- Rigid urethane ducting, 4"
- Electronic blast pressure controller
- Servo-driven part station functions as a seventh robotic axis
- Boron carbide blast nozzle
- Ultrawear reclaimer lining
- Manual loading cart
- Sound attenuator for air inlet
- HEPA filter for SEM-2 dust collector
- Sight plugs for checking media level in pressure vessel

## Popular Options

**Automatic media replenishing system** promotes improved results by maintaining the consistency of the abrasive mix.

**Pneumatically powered, vertically sliding door with infrared light curtain** speeds production, conserves floor space and adds safety.

**Automatic dust cartridge cleaning (photohelic reverse pulse)** contributes to smooth performance and frees operator for other tasks.

**14" perforated turntable** adapts to inherent part station, often reducing costs for 7th axis fixtures.

**FaStrip® package** improves system performance with light media such as plastics.

**Boron restrictor**, recommended in harsh-media applications, extends exhaust valve and reclaimer life.

**Rubber curtains** protect interior of blast enclosure.

**Sound attenuator** (85 dBA) on dust collector reduces noise.

**Non-slip rubber floor matting** improves safety.

**BEST WARRANTY IN THE INDUSTRY**  
One-year limited on parts

## Empire Air-Blast Products

- A complete range of cabinets
- Robotic, turntable and in-line automation
- Blast rooms and blast booths
- Portable blasters
- A full line of parts and accessories

**NEVER USE SILICA SAND IN ANY  
EMPIRE EQUIPMENT**

Information subject to change without notice.



**EMPIRE**  
ABRASIVE EQUIPMENT

**Empire Abrasive Equipment, 2101 W. Cabot Blvd., Langhorne, PA 19047-1893**

**Call: 215.752.8800 • Fax: 215.752.9373 • Email: [Airblast@empire-airblast.com](mailto:Airblast@empire-airblast.com)  
Search: [www.empire-airblast.com](http://www.empire-airblast.com)**