



ROBOTIC SANDBLAST CABINET

Kresco's Robotic Sandblast Cabinets are designed to achieve the highest standards in surface preparation and peening applications, as well as for high-throughput production of repetitive parts.



SYSTEM OVERVIEW

Kresco's Robotic Air-Blast Cabinets and computer-assisted sandblasting systems integrate the latest servo and CNC technologies to increase productivity, precision, performance, and quality, while also minimizing overall operation and maintenance costs.

The addition of robotic arms which can be used to blast and/or handle parts resulting in the most advanced surface treatment process that combines agility, efficiency, precision, and reproducibility.



ADVANTAGES OF OUR ROBOTIC SANDBLASTING EQUIPMENT

Robot-assisted sandblasting operations provide:

- Ideal stand-off distance and blasting angle, all the time.
- Robots never get tired and never miss a spot.
- Highest possible levels of quality and reliability.
- Intuitive interface for data collection and sequence programming.
- 3D modelling of parts for a precise surface treatment.
- CAM/CAD integration with most design softwares.

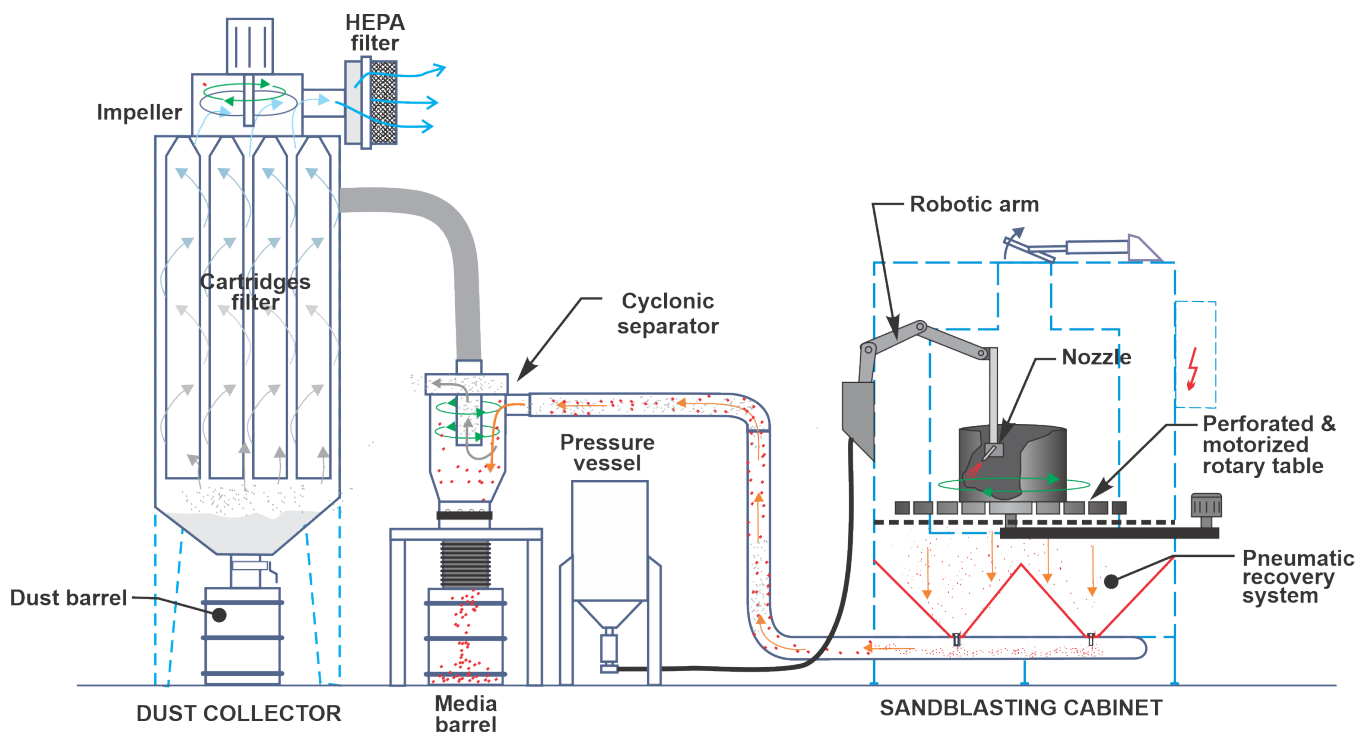


HOW IT WORKS

All robotic sandblast cabinets are tailored to customer requirements and specifications in order to deliver optimal quality and consistency.

Kresco partners with industry leaders in robotic and automation solutions to provide the ideal sandblast system for your application and to ensure a smooth integration with your production line.

The most common system combines a motorized turntable in synchronization with a 6-axis robotic arm blaster to provide the ideal stand-off distance and blasting angle. A broad range of CNC and servo systems can be incorporated to better address your application and process requirements.



3D MODELLING AND SEQUENCE PROGRAMMING

Basically, you have three options to train your robot into the right blasting sequences:

- **Import a CAD File** - The simplest way if you already own your CAD design is to import that design into the robot software interface and set the process parameters (stand-off distance from the workpiece, speed of action, etc.).
- **Use a 3D Scanner** - If a CAD import is not possible, a 3D scanner can be used to reproduce the part with a high level of accuracy for sequence programming.
- **Teach your Robot** - The longest way, but sometimes the easiest way, is to teach your robot the correct sequence by programming every movement manually.

In all cases, once the correct sequence is set, it can be saved to be used later with the exact same level of reproductivity and reliability.



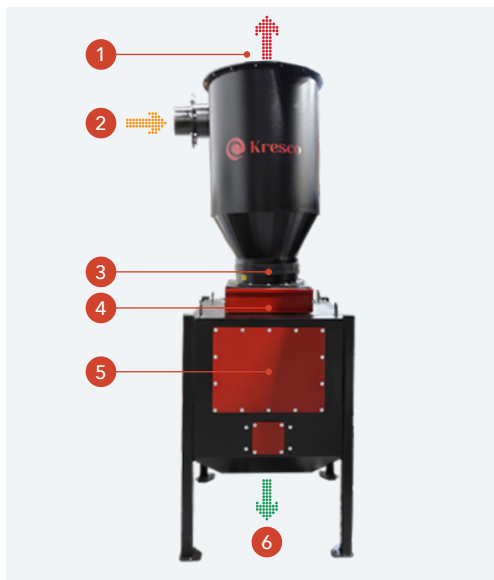
EFFICIENT MEDIA RECOVERY SYSTEM

To optimize your process and reduce your overall cost

Our automated systems are delivered with a **tunable cyclonic media separator** that uses the centrifugal force to separate dust and fine particles (paint chip, rust, scattered media, etc.) from abrasive media still in perfect working condition to be reuse again.

Our unique design can process angular and spherical **abrasive media of various materials, granulometries, and bulk densities**. Its stand-alone support can accommodate different floor layouts and arrangements.

Cyclonic Separator



- 1 Dust, dirt and debris drawn out by the dust collector
- 2 Contaminated media mix from the sandblast cabinet
- 3 Adjustable air inlet to accommodate various types of media
- 4 Large debris dust drawer
- 5 Storage hopper available in different capacities
- 6 Abrasive media in good condition returned to the sandblast cabinet

Media Recovery System Specifications

	RB16	RB24	RB30
Body Diameter	16"	24"	30"
Air Flow (CFM)	900 CFM	1,200 CFM	1,800 CFM
Inlet ID	5" / 6"	6" / 7"	7" / 8"
Outlet ID	7"	8"	8"
Storage Hopper	Custom to each order based on the application and the production target		

POWERFUL CARTRIDGE DUST COLLECTOR

For a dust-free operation and environment

All our automated systems are delivered with a **powerful, self-cleaning cartridge-type dust collector** available in different filtration capacities according to your process requirements and cabinet dimension.



Dust Collectors Line Overview

	CDC900	CDC1200	CDC1800
Motor (HP)	2 HP	3 HP	5 HP
Fan (CFM)	900 CFM	1,200 CFM	1,800 CFM
Filter Cartridges	2	4	4
Filter Capacity	636 sq.ft.	1,272 sq.ft.	1,272 sq.ft.
Overall Dimensions (L x W x H)	48" x 23" x 120"	48" x 45" x 124"	48" x 45" x 124"
Shipping Height*	90"	94"	94"
Fan Muffler (db)	Under 80		

* Adjustable legs to be assembled on site

About Kresco



Kresco designs, manufactures, and supports industrial equipment for the surface treatment industries. **Kresco** has standard equipment designed for most applications and can customize equipment to meet or exceed your production expectations.

Sandblasting

- Sandblast Booths
- Sandblast Cabinets
- Automated Sandblasting Systems
- Abrasive Reclaiming Systems
- Pressurized Sandblasters
- Dust Collectors

Solvent Recovery

- Batch Solvent Distillers
- Continuous Flow Solvent Distillers
- Oil Cooling Systems

Shotblasting

- Roller Conveyor Blaster
- Rotary Table Blaster/Swing Table Blaster
- Spinner Hanger (Batch)
- Continuous Flow with Monorail
- Rubber and Steel Flight Tumbler Blasters
- Flow Thru Barrel Blasters
- Mesh Belt Continuous Blasters
- Monorail System Blasters
- Rim Blasters
- Preservation Line

Parts & Consumables

- Blast Nozzles
- Blast Hoses
- Abrasive Media
- Air Valves
- Abrasive Metering Valves
- Cartridge Filters
- Sludge Bags
- Safety Equipment & PPE

Painting

- Paint Spray Booths
- Powder Coating Booths
- Drying Ovens
- Air Make-Up Units

Services

- Turnkey Project Design
- Custom Design
- Full Installation
- Start-up Supervision
- Training
- Maintenance
- Retrofit & Upgrade

All systems are designed to build and they are manufactured with the highest quality standards in our manufacturing shop in Quebec, Canada.





1404, avenue de la Gare, Mascouche, QC J7K 2Z2
(877) 757-3726 | info@krescosolutions.com | krescosolutions.com