

VAC-U-MAX

69 William Street Belleville, NJ 07109

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SOURCE CAPTURE SYSTEMS



Kiln Car Cleaning:

A VAC-U-MAX 48" (1,220mm) wide vacuum head with 10" (250mm) diameter rotating brush to clean brick debris from kiln cars. Brush rotation is reversible to allow cleaning in both directions to reduce cleaning time by 50%.

What is a Source-Capture System?

A source-capture vacuum system is simply defined as a vacuum system that collects dust *where and when* it is generated, before it becomes airborne. It can also be defined as a vacuum system that captures "fugitive" dust before it "escapes". A source-capture vacuum system typically operates on a high-vacuum, low-airflow principle with vacuum line sizes no larger than 4" (100mm) ID. VAC-U-MAX utilizes vacuum technology on most source-capture systems, but due to the nature of some applications, it may be necessary to add other techniques such as push-pull or static bar / air ionizer or mechanical agitation to accomplish the project goals.

Why VAC-U-MAX?

VAC-U-MAX is uniquely qualified to work on source-capture vacuum systems:

- ✓ The combined resources of our pneumatic conveying division and our vacuum cleaning division give us a professional understanding of what drives process system operations.
- ✓ VAC-U-MAX performs 100% of its own engineering and we fabricate all of our products in our 70,000 square-foot facility in Belleville, NJ, so we can create the vacuum systems to fit in available spaces.
- ✓ Your controls or ours: our UL- and CE-approved controls department allows us to integrate with your production management systems.
- ✓ We design our source-capture vacuum systems for maximized uptime and simplified maintenance—the same thing that you expect from your basic production system.
- ✓ Our food-grade and pharma-grade manufacturing skills allow us to meet the most demanding standards for finish, sanitation and cleanability.
- ✓ We don't play favorites: VAC-U-MAX can choose from four different types of vacuum producers to select the best one for your application.
- ✓ VAC-U-MAX is responsible **now**: our system will perform as promised or we'll fix it at our expense...and **later**: a 5-year warrantee confirms it.

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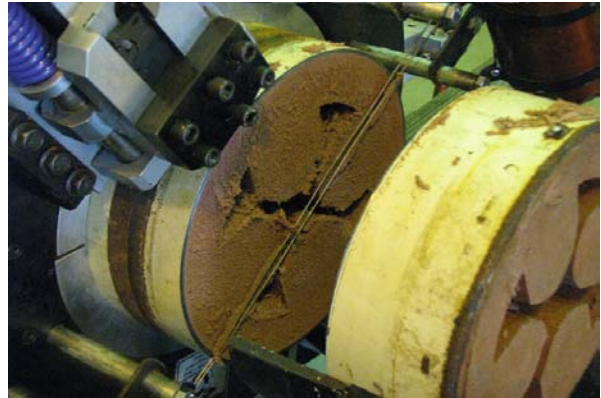
SOURCE CAPTURE SYSTEMS

Other Considerations:

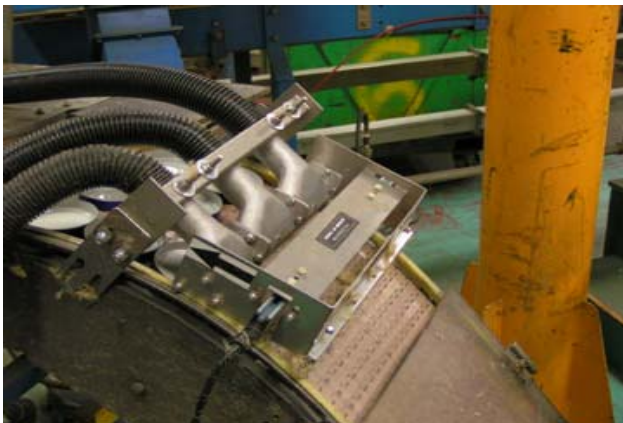
- How often will the source-capture vacuum system be shut-down either for maintenance or emptying of a collection container?
- What are the cleaning standards for the vacuum system when it is off-line?
- Are there any chemical compatibility concerns for vacuum hose or the vacuum equipment?
- What are the noise level standards in the operating area?
- What are the electrical classifications in the operating area?
- Is the dust combustible?



Custom tool capturing aluminum chips from machining of a 14' (4.3m) diameter spinning.



A VAC-U-MAX submerged recovery vacuum system safely captures dust from a wire saw used to cut rocket motor sections for decommissioning. VAC-U-MAX controls divert the airflow to various pickup points on the saw as operation proceeds.



A VAC-U-MAX tool with static bar / air ionizer was needed to capture hair-like varnish fibers from metal caps as they exit a punch press.



Source capture of dust generated by an un-manned circular saw used to cut rocket motor sections. Dust is collected in a VAC-U-MAX submerged recovery intercept to render the debris inert.

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A VAC-U-MAX source capture system collects Super-Absorbent Polymer (SAP) from a continuous wire drawing operation and returns the collected dust to the process. Duplex system insures clean filters for a nonstop process without interruption of vacuum.



VAC-U-MAX system continuously collects frangible ammunition in a shooting range from (25) collection hoppers. VAC-U-MAX custom controls and collection hoppers allow sequential pickup of high-density dust and oddly shaped slugs of lead and plastic.



VAC-U-MAX source capture vacuum system in an automated test lab in a cement plant. Lab has (12) dust generating points and de-dusting occurs variably at (5) locations at one time.



VAC-U-MAX is a UL-Listed builder. Shown above is a sub-panel for a rotating brush with VFD to integrate with customer's main control system in a brick manufacturing plant.

Other completed source capture systems by VAC-U-MAX:

- * Flour reclaim systems for bakery lines
- * Nut topping reclaim systems

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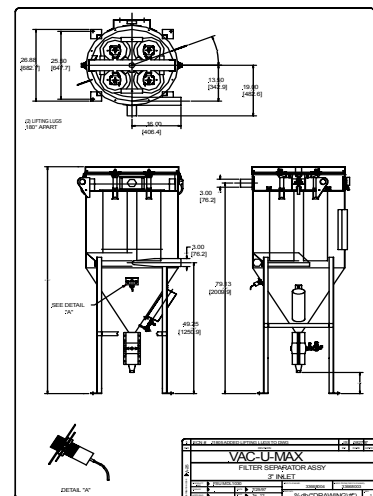
RECLAIMING POWDER COATING FROM FLAT LINE FINISHING SYSTEMS



Closed-loop color-specific reclaim system provides re-use of 100% of overspray powder coatings. Features quick changeover between colors, eliminates operator dust handling and improves product quality.



Continuous-duty vacuum producer and filter separator can operate 24/7 without operator intervention.



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Custom Rotating Brushes





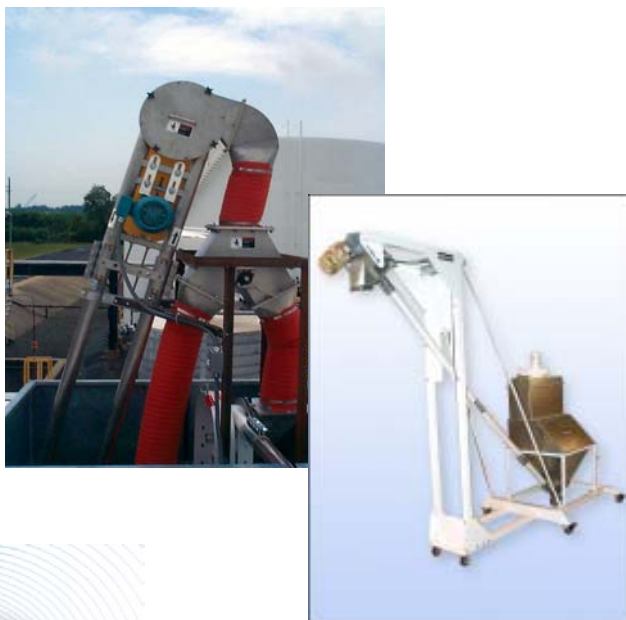
Pneumatic Conveying Systems

Pneumatic Conveying Systems from VAC-U-MAX. VAC-U-MAX is a premier manufacturer of custom pneumatic systems and support equipment for conveying, batching, and weighing materials. With a VAC-U-MAX system on site, your company's product can move gently and quickly from point to point, with nothing in the way to impede the efficiency of its movement.



Industrial Vacuum Cleaning Systems & Equipment

Industrial Cleaning Systems from VAC-U-MAX. VAC-U-MAX is a premier manufacturer of industrial vacuum cleaning systems for production lines and other dust-intensive areas. With a VAC-U-MAX heavy-duty vacuum cleaning system on site, both your capital equipment and your employees will be safer and cleaner. So put our field-proven equipment to work for you, and watch dust and other particulate contamination simply disappear.



Aerocon Aero-Mechanical Conveyors & Aero-Flex Flexible Screw Conveyors

Aero-Conveying is best defined as the movement of material using the desirable features of both pneumatic and mechanical conveying, and eliminating most of the disadvantages. The result is high volume, controlled transfer of dry materials (such as foods, pharmaceuticals, and chemical products), efficiently and economically, with little, if any, effect on the material, however friable and degradable.



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Represented By: