



Brunk Upgrades to Smaller and Smarter Torit® PowerCore® on Attrition Mills

INDUSTRY: Pulverized Plastic Powder

PROBLEM: Plugged filters, short filter life, reduced productivity

SOLUTION: The new Torit PowerCore dust collector with PowerCore filter packs



David Loeffler, Plant Manager at Brunk Corp commented "I used to have a FARR 8-D cartridge collector for my attrition mills but the filters would plug after a couple weeks, reducing air volumes and decreasing productivity. I considered replacing it with a larger, more expensive baghouse collector but then we tried Torit PowerCore and it gave us the right amount of filtration area in a much smaller unit."

Project Statistics

Airflow	6000 CFM*	10,190 CMH**
Contaminant	Pulverized Polyethylene. Size range: 45-635 microns diameter	
Pressure Drop after 6000 hours (same filters)	3.5 inches water gauge	87.18 dekapascals
Dust Loading	111 pounds per hour	50.3 kilograms per hour

* CFM: cubic feet per minute ** CMH: cubic meters per hour

When Brunk Corp, which pulverizes PE plastic into powder for the rotational molding industry, decided its cartridge dust collector wasn't doing the job, the company explored alternatives in traditional baghouse technology. Leery of the large size and hefty price tag of traditional baghouses, Brunk decided to beta test a smaller and smarter baghouse alternative in January 2007—Torit® PowerCore® with PowerCore filter packs.

"I'm very impressed with Torit PowerCore. It's a very small footprint for the amount of filter area you get in a unit," said David Loeffler, Plant Manager at Brunk Corp. "I used to have a FARR 8-D cartridge collector for my attrition mills but the filters would plug after a couple weeks, reducing air volumes and decreasing productivity. I considered replacing it with a larger, more expensive baghouse collector but then we tried Torit PowerCore and it gave us the right amount of filtration area in a much smaller unit."

Brunk has 4 attrition mills ducted to its Torit PowerCore collector. Torit PowerCore filter packs are only 7 inches tall compared to a typical 8- to 12-foot-long filter bag. Torit PowerCore filters are substantially smaller and handle more air volume per filter pack, which allows the height of the collector to be reduced up to 50 percent.

Typically, one PowerCore filter pack with proven and patented Ultra-Web® technology replaces six 8-ft. filter bags. This significantly smaller number of filters reduces the time and labor cost of filter maintenance. The small, lightweight PowerCore filter packs have handles for easy serviceability, are changed from the clean-air side of the collector and can be replaced without tools in minutes.

"We were replacing filters in our previous collector every few weeks," said Loeffler. "Now with Torit PowerCore, I don't expect to replace my filters for a long time."

Torit PowerCore with PowerCore filter packs are only available from Donaldson® Torit®. Proven in engine filtration for nearly a decade, Torit PowerCore technology has more than 100 pending and issued patents. ○

Donaldson
Torit®

Donaldson Company, Inc.
Industrial Air Filtration
P.O. Box 1299
Minneapolis, MN
55440-1299 U.S.A.

Tel 800.365.1331
donaldsontorit@donaldson.com
www.donaldsontorit.com
www.donaldson.com/ToritPowerCore

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