

**Rexroth  
Corporation**

**Trion FRED™ Dust  
Collectors Clean  
Work Environments  
And Enhance  
Productivity.**



***Carbon No Longer Coats The Walls At Rexroth.***

A film of black carbon coated the once-white walls in Rexroth Corporation's old machine shop. You can imagine what that did for the breathing air in the facility. When the company built its new facility in 1996, they saw an opportunity to clean up the problem.

Also, Rexroth planned to house its two Cincinnati Milacron Vercil Power milling machines in an open area that included other machines. The heavy dust produced in the milling operations would have presented a problem for the other systems.

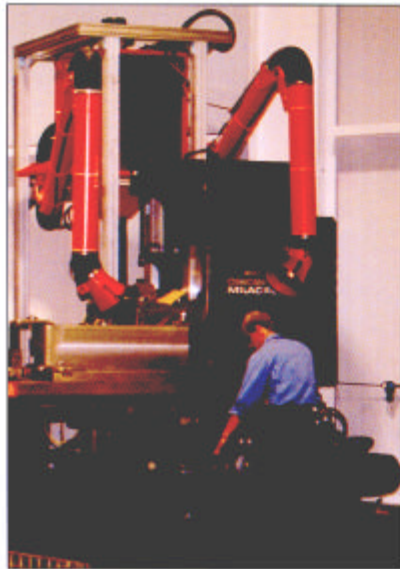
***Catch Dust Before It's A Problem.***

Working with Effective Controls, Inc., of New Ringgold, Pennsylvania, Rexroth found its solution with Trion's FRED™ dust collectors. The company specified two systems with 15-foot source-capture arms.

"The FRED systems were implemented very quickly...I estimate within a week," says Jim Vermilya, Rexroth supervisor of manifold machining. The project was unique in that one of Rexroth's products, Star Linear equipment stands, were vital to the final installation.



# Rexroth Corporation



## An Innovative Installation.

It was impossible to hang the FRED units from the ceiling, as they often are, due to an overhead crane. Rexroth manufactures stands for industrial power units and for stand-alone hydraulic units and the FRED application fit perfectly. The company worked closely with Effective Controls to custom build the stands that now support the dust collectors mounted next to both milling machines.

## Source Capture Just When You Need It.

Trion's FRED dust collectors work like large industrial vacuum cleaners and employ sophisticated self-cleaning cartridge filters. The two collecting arms on each FRED unit stay out of the operators' way when not in use. They deploy easily during the grinding operation to prevent the ductile dust from escaping into the work environment.

"There's definitely an improvement in the air, because the walls are still as clean as when we moved in," explains Vermilya. "The employees like it and have noticed a real improvement in the air quality." Vermilya attributes enhanced productivity to the use of the Trion FRED units.

## No More Exhaust Costs.

The filtering system yields an additional benefit: lower HVAC costs. By capturing and containing the dirty air in the cartridges, there is no need to exhaust costly heated or cooled indoor air. Vermilya estimates a savings of 10%.

## Cleaner Shops With FRED.

FRED demonstrates superior capabilities in machining applications like Rexroth Corporation. In a wide variety of applications FRED provides a new level of clean air, making a safer and more pleasant work environment and offering practical function with retractable source capture that doesn't inhibit work. And at Rexroth, the walls are still white.

Through its dedicated distributor network, Trion maintains a partnering relationship with Rexroth Corporation and other forward thinking plants to assure continuing quality in the air cleaning process.

### TECHNICAL DATA

|                            |  |
|----------------------------|--|
| Trion Equipment:           | (2) Trion FRED<br>.01-IASC-C Cartridge<br>Air Cleaners |
| Total Air Volume:          | 3,600 cfm  |
| Hood Type:                 | 15 ft. Source<br>Capture Arm                           |
| Slot Velocity:             | 3,500 fpm  |
| Type of Cartridge:         | 100% Cellulose   |
| Cartridge Cleaning System: | Injection<br>Cleaning                                  |
| Cartridge Life:            | 12 months  |
| Type of Material:          | Milling Metal<br>Creating Black<br>Carbon Dust         |
| Contaminate Loading:       | 10 lbs./week   |

**1-800-421-3956**

This application study was made possible with the assistance of Effective Controls, Inc. New Ringold, PA

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Years of Indoor Air Quality

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