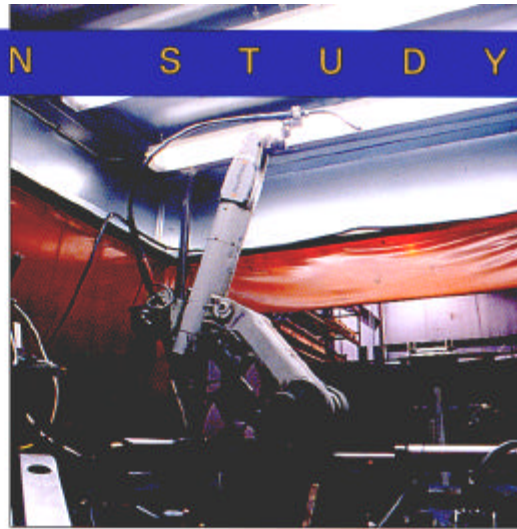


**Basic American
Metal Products**

**Trion CA 6000C
Solution Helps
Realign
Manufacturing
Strategy.**



Continuous Flow Manufacturing

Welding is dirty work, even with advanced robotics systems. It's a task in the manufacturing process often shunted off to a far corner of a facility to contain the smoke, sparks, and fumes. However, keeping the welding shop so detached from the total production process is often a handicap when trying to implement today's manufacturing methodologies that require closer proximity of all functions.

Basic American Metal Products in Fond du Lac, Wisconsin has found a way to bring welding out of its "corner" and put it right where it needs to be within the company's plan for "Continuous Flow Manufacturing."

The 130,000-square-foot facility is a complete metal fabrication plant, producing a wide range of hospital beds and a variety of exercise cycles, including the well-known Life Fitness Cycle. Basic American also accepts contract manufacturing projects.



Source Capture For Large Robotics Systems Works Well.

Four Trion CA 6000C units installed with hoods above Basic American's welding robots clean the air so well that it has allowed the enterprise to put the welding stations in close proximity with other work stations. This is vital to making Continuous Flow Manufacturing work for Basic American.

"The halogen lights in the welding shop had a hard time shining through the thick blue haze our welding shop use to produce," says Basic American vice president of engineering Keith Cramer. "Removing most of the welding smoke enables us to move the robotics welding systems in our street to create a true Focus Factory facility."

"The filtration is so effective we can even put the welders adjacent to the paint department, which used to be impossible."

The Focus Factory alignment allows teams of six or seven people to work solely on one product from beginning to end, rather than having individuals make single parts and components to go into inventory. It's proving to be very cost-effective compared to traditional methods.



Basic American Metal Products

A 40% Reduction In Exhaust CFM Earns Energy Rebates.

Basic American originally implemented the Trion solution as an important step in reducing the plant's energy consumption. Before installing the CA 6000C units, huge amounts of welding smoke mixed with heated or air conditioned air were being released outside the factory.

The state of Wisconsin awards energy credits and rebates to companies that reduce their energy costs. Reclaiming indoor air means much lower costs in heating and cooling. The air returned to the plant floor through the Trion units is clean enough to exceed stringent OSHA guidelines. The process has reduced the amount of air being heated in the Wisconsin winters from 50,000 CFM to 20,000 CFM.



Trion Designs To Suit Unique Requirements.

Cramer says Basic American selected a Trion solution because of the company's engineering expertise.

"I've always considered air movement a little bit of a black magic," says Cramer. "It's like pushing a rope. Trion assured us that we could have not only an effective cartridge air cleaning system, but also a reasonably portable, modular system, since we need to be able to occasionally move the welding robots to accommodate our manufacturing practices."

Mounted overhead, each of the CA 6000C units connect to a plenum that draws air from an exhaust hood above the welding robots and a manual welding station.

Not only do the CA 6000C units help the plant exceed OSHA testing standards, they also keep maintenance time to a minimum. Periodically, the Trion units send a pulse of air to the filter cartridge that knocks the accumulated contaminants off the filter and into a collection hopper for easy removal about once a month.

The filters can be cleaned for about 40% of their original cost.

New Business Strategy Is Good For Workers.

"Removing most of the welding smoke is definitely a morale booster," says Cramer. "It's by nature a hot, greasy job, so the more comfortable we can keep our people the better. And with the Trion system, we're constantly flushing more comfortable, cleaner air into the work environment."

What began as an energy-saving measure is now proving to be an important aspect of Basic American's competitive strategy. The solution allows welding to come out of its traditional smoky back room status and into the mainstream of the manufacturing process.

Through its dedicated distributor network, Trion maintains a partnering relationship with Basic American Metal Products and other forward-thinking plants to assure continuing quality in the air cleaning process.

TECHNICAL DATA

Trion Equipment:	(4) CA 6000C Cartridge Air Cleaners
Total Air Flow Volume:	18,000 cfm
Hood Type:	Canopy Hood with Slots
Slot Velocity:	750 fpm
Type of Cartridge:	100% Cellulose
Cartridge Cleaning System:	Reverse Pulse, One Valve per Cartridge
Cartridge Life:	12-18 months
Type of Material:	Hot Rolled Steel
Type of Welding:	Robotic
Wire Consumption:	(4) Robots at 125 lbs/robot/week
Contaminate Loading:	10 lbs/week

1-800-421-3956

This application study was made possible with the assistance of Hastings Air Energy Control, Milwaukee, WI.

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