

**Semco
Fastener**

**Trion Air Boss®
Cleans Air -
Saves On
Maintenance Costs**

Air Contaminants Cause Maintenance Problems

"From a visual standpoint, there were times you couldn't see the back of the shop," explained Paul Purdy, plant manager for Semco Fastener. Semco Fastener is an 80,000 square foot facility located in Holly, Michigan, one hour north of Detroit. They manufacture bolts for the automotive industry using a cold-heading procedure. The intense heat resulting from the process causes excessive smoke, oil mist and other air contaminants, which if not source captured in some way, will escape from the machines and infiltrate the shop causing building maintenance problems.

Trion® Offers An Effective Solution

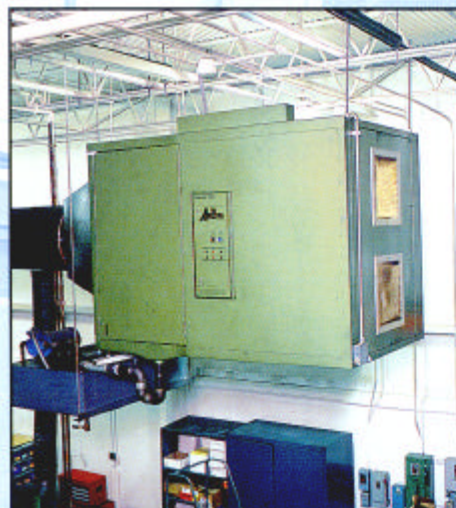
In 1995, Semco was faced with replacing their existing precipitators. With the help of Trion® representative, Ballantyne Associates of Troy, Michigan, Semco chose the newly developed Trion Air Boss® Electronic Air Cleaning System rated at 6000 CFM. The Air Boss is a stand alone, water tight, self cleaning equipment package designed to remove smoke and contaminants from multiple machines.

The equipment may be installed as a free standing unit or mounted into a ducted system, and either base mounted or suspended from the top. Semco chose to suspend their equipment from trusses within their building's main ducting headers.

According to Purdy, "For machines emitting large quantities of smoke, one unit per machine is used, while machines which emit lower volumes of smoke, six machines are hooked to one Air Boss unit. With its special engineering, the Air Boss equipment at Semco can clean the air and return it to the plant up to 95% cleaner.

Closed Loop Cleaning System Sets Air Boss Apart

It is the Air Boss' unique closed loop cleaning system that sets it apart from the competition. This optional system automatically cleans the primary collecting elements of the unit, the ionizing-collecting cells, using an innovative process fluid that can be reused for up to one year, eliminating the need to drain hazardous waste down the sewage system like traditional waste systems. Semco chose to build and install a dedicated pump, filter and reservoir tank for each Air Boss unit. Not only does this type of recycling provide a tangible return on investment of the Air Boss, with this system, disposal costs are lowered and environmental issues with the EPA and other local agencies are prevented as well. In addition, the closed loop system requires fewer agency permits. Currently, Trion is the only company offering this revolutionary new cleaning system.



Semco Fastener



A System That Practically Takes Care Of Itself

"One of the reasons we chose the Air Boss was the hope of lowering our maintenance because of its self-cleaning feature," said Purdy. In the past, Semco relied on a service contract, supplied by the manufacturer of their system, to change the cells out each month. But because Semco has some machines with a higher accumulation than others, contamination was occurring before the end of the month, resulting in the plant experiencing excessive smoke up to two weeks before the maintenance service would arrive. "Installation of the Air Boss helped us go from one to two weeks of life on a cell with the old units, before they started smoking, to having some units we haven't touched in two years, others once a year. Instead of a service contract, we have one of our own men push the wash cycle button every other night. This keeps the cells clean making the units easier to maintain," Purdy explains. "The wash cycle runs itself. It definitely solves some problems and saves on maintenance costs. We're happy we have it."

Improved Ionizer Wires Distinguish Air Boss

In the past, ionizing wires were subject to breakage due to their required small diameter. "A feature in its design that also distinguishes this unit from the competition is that the Air Boss no longer uses ionizer wires that are thin and break easily," said Purdy. "They are now made with sheet metal stamping, which is unbreakable." The more rugged, spiked stainless steel ionizer blades of the Air Boss increase collecting efficiency and also help reduce maintenance.

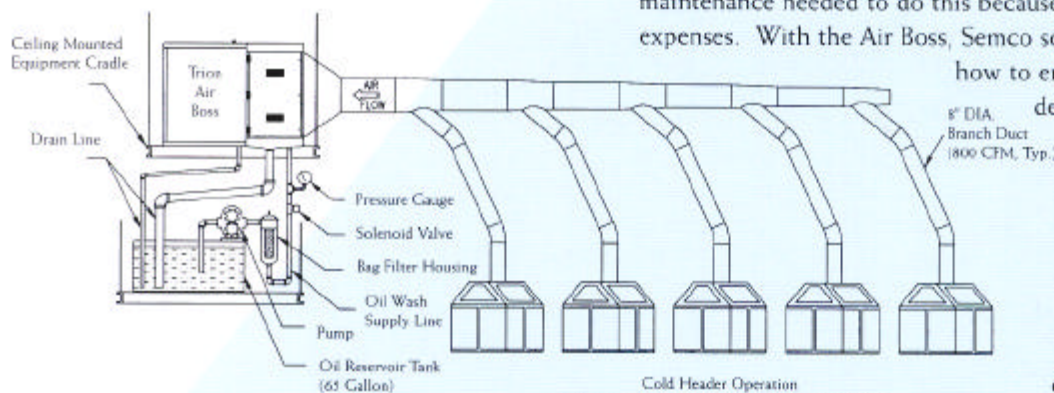
TECHNICAL DATA

CONTAMINATE: SMOKE AND OIL MIST FROM COLD HEADER OPERATION
 TRION EQUIPMENT: (6) AIR BOSSSES RATED AT 4800 CFM EACH, NOMINAL
 NUMBER OF MACHINES: 30 COLD HEADERS
 TOTAL AIR VOLUME: 18,800 CFM
 WASH SYSTEM: AUTOMATIC, CLOSED LOOP OIL WASH
 WASH FREQUENCY: EVERY OTHER DAY

Trion® - Your Partner In Air Quality Control

The key to maintaining the efficiency of a precipitator unit is to keep the cells clean. But few facilities are able to practice the preventive maintenance needed to do this because it means additional overhead expenses. With the Air Boss, Semco solved two important problems:

how to ensure good air quality and decrease cleaning costs.



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

1-800-227-3917

This application study was made possible with the assistance of Ballantyne Associates, Troy, Michigan.

Corporate Office • PO Box 760, 101 McNeill Rd. • Sanford, NC 27331-0760 • Phone: (919) 775-2201 • Fax: 1-800-458-2379 • www.trioninc.com

