



New Longer Super Ion Air Knife

EXAIR has expanded Long Super Ion Air Knives to include a maximum length of 108" (2743mm) and is now manufacturing all knives 60" (1524mm) and longer in one piece construction. New one piece construction ensures seamless airflow and eliminates coupling multiple short length air knives together. One piece construction decreases overall height by ½" making it better for tight spaces. EXAIR offers an unmatched selection of materials and sizes within our Super Air Knife product line from 3" to 108" in aluminum, 303 and 316 stainless steel.

EXAIR's Longer Super Ion Air Knives neutralize static electricity while blowing away dust and particulates from wide webs and printed surfaces, paper, plastics, wood, acrylic and three dimensional shapes. The wide laminar airstream full of static eliminating ions is effective at high speeds and provides superior cleaning up to 20 feet away. Poor print quality, dust attraction, tearing, jamming, and related equipment downtime can be eliminated from processes such as laminating, printing, routing and thermoforming.

The Long Super Ion Air Knife is highly efficient, using only a minimal amount of compressed air at 5 PSIG to entrain high volumes of surrounding room air. An electrically powered static control bar fills the uniform sheet of air with a high concentration of positive and negative ions. The laminar airstream increases the surface exposure to the ions, making it effective for high speed processes and over long distances. Force can be adjusted from a "blast" to a "breeze" by utilizing a pressure regulator. The shockless design is UL Component Recognized to US and Canadian safety standards. There are no moving parts to wear out. A factory installed plumbing kit is also available that makes it easy to connect Long Super Ion Air Knives to any plant's compressed air system and obtain the best performance.

EXAIR manufactures a complete line of static eliminators to remedy common static problems. Many use our engineered airflow products to minimize air use and noise while delivering maximum results by moving more static eliminating ions to the product surface, including our Super Ion Air Knife, Ion Air Cannon, Ion Air Gun, Ion Air Jet, Ionizing Bar, Ionizing Point and Super Ion Air Wipe. Plus, if you purchase one of our Static Eliminators by March 31, 2015, you will receive a complimentary AC Sensor. See www.exair.com/05/sepromo.htm for details.

Bravo to EXAIR Again!



EXAIR's products have once again been chosen as finalists in the *Plant Engineering* 2014 Product of the Year contest. Our Long Ion Bars, 1104-PEEK Super Air Nozzles, Long Super Air Knives and PEEK Pico Super Air Nozzle are all finalists in the Compressed Air Category. It's an honor that our innovative products were once again chosen for this competition. Winners are chosen by the readers of *Plant Engineering* and will be announced on April 1st of 2015. EXAIR is the only company to offer Super Air Knives and Super Ion Air Knives in one piece construction up to 108" (2743mm) and this fact helps to make our innovative products winners at Plant Engineering and in plants all over!

GOLDEN MOUSETRAP AWARDS 2015 FINALIST

EXAIR's PEEK Atto Super Air Nozzle has been chosen as a finalist in *Design News'* 2014 Golden Mousetrap Competition.

This tiny Super Air Nozzle delivers the smallest, most precise blowoff with an efficient, high volume, high velocity airflow. Its PEEK plastic construction provides non-marring protection to production items as well as resistance to damage from harsh chemicals.

These are just the tip of the iceberg. EXAIR offers the largest selection of the best products available to help you solve your industrial problems. We can help you to conserve energy and compressed air while keeping employees OSHA safe, and that will help you save on your bottom line. Talk to one of our Application Engineers to see what we have to help your plant be more efficient and solve your production problems.

Award Winning SUPER AIR KNIVES

Blowoff, Clean, Dry and Cool
with Less Noise and Air Consumption



www.exair.com/05/423.htm

Application Spotlight:

Static Charge Removed, Print Head Life Extended

Application Goal:

To eliminate static, thus extending print head life.

The Problem:

This customer manufactures and fills individual condiment packets. After changing suppliers for the film that the packets are made from, they noted a marked decrease in the lifespan of their print heads. Their print head supplier suggested that it could be related to static charge, so they contacted EXAIR.

They receive the film on 18" wide rolls. A high static charge develops on the film as it unwinds. This meter is measuring a static charge of 16.9kV on their film stock unwind station (*pic 1*).

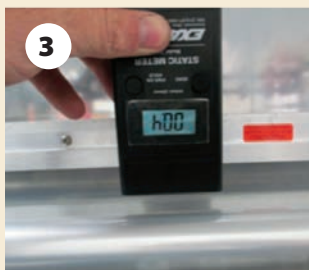
The Solution:

When the film's path is turned horizontal, this was an ideal location to install a **Model 7018 18" (457mm) Ionizing Bar**, connected to a **Model 7901 2-Outlet, 115VAC Power Supply**. Since the static charge only presents a problem on the side to be printed, only one side of the film needs to pass under the Ion Bar (*pic 2*).

Once the film has passed beneath the Ionizing Bar, the static charge has been dramatically reduced. They are using EXAIR's **Model 7905 Digital Static Meter** to quickly, conveniently, and reliably monitor for proper operation. As you can see, the Ionizing Bar is reducing the static charge from 16.9kV to 00.4kV (*pic 3*).

Editor's Comment:

Since installing the Ionizing Bars on (10) labeling machines at two plants, they have almost tripled the life of their print heads – they were replacing (5) print heads per month on each machine; now they're replacing only (2) per month. Additionally, this is an improvement over what they were getting before the change in film caused the shortened print head life, when they were replacing (3) print heads per month.



New Application Checklist

For decades, EXAIR's products have solved many common industrial problems. Call our Application Engineering Department at (800) 903-9247 or email them at techhelp@exair.com for help with yours.



A crankshaft manufacturer is using a **Model 1110SS Nano Super Air Nozzle** to blow off a 1/2" (13mm) square area on the end of one of their crankshafts. After the crankshaft is machined, they are removing all of the residual cutting fluid from this area in order to provide a clean area for laser marking.



Fabricator uses ten spray nozzles to coat parts with a solvent after machining. The parts are processed on a conveyor and come through a doorway where five **Model AF1010SS Internal Mix Flat Fan Atomizing Spray Nozzles** are mounted on each side of the conveyor and spray the part. The excess solvent is blown off by two **Model 110012 12" (305mm) Aluminum Super Air Knives** to prevent dripping.



A braking system manufacturer is making an "X" seal for the brake line assemblies used in the system. On an assembly machine, these seals move into a small vibratory bowl and are sent single file down a chute. The seals were sticking to the sides of the bowl and also were not traveling down the chute in the proper orientation. This resulted in damaged seals and reject brake line assemblies. They have installed a **Model 7192 Ion Air Cannon** and a **Model 7194 Ion Air Jet** to blow on the bowl and the chute. This has eliminated the problem.

Static Eliminator PROMOTION!

**FREE
AC
SENSOR**

With
purchase
\$50 Value



When the temperature outside drops and humidity plummets, static electricity problems are sure to make bad things happen, leaving you to deal with the associated production headaches. Order any Static Eliminator by March 31, 2015, and we'll include a **FREE Model 7929 AC Sensor**.



To learn more go to:

www.exair.com/05/sepromo.htm



EXAIR unconditionally guarantees its cataloged products for 30 days.

If you are not satisfied for any reason within that time, you may return the product for full credit with no restocking charge.

EXAIR Corporation

Manufacturing Intelligent Compressed Air® Products Since 1983

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