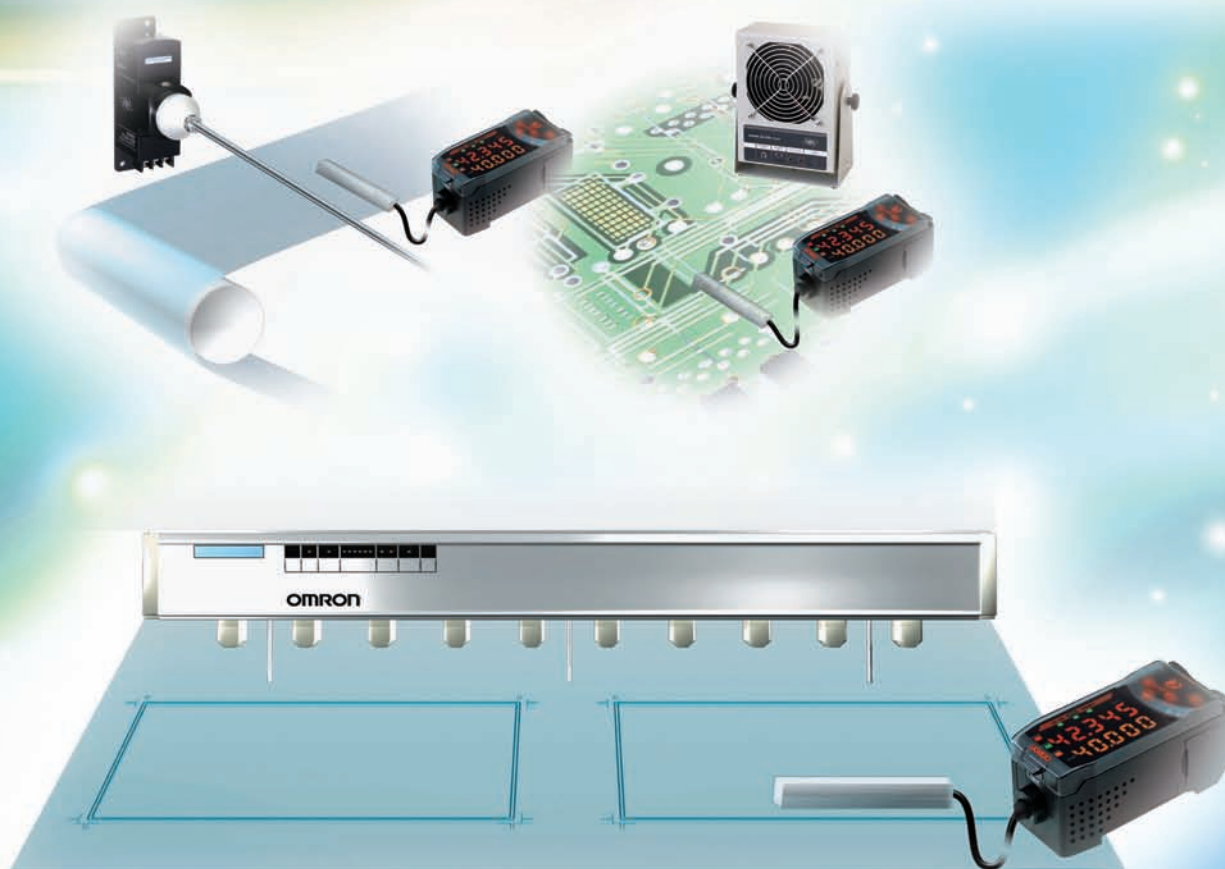


Countermeasures against Static Electricity

Application Examples

Fan Type	ZJ-FA/-FA10
Air Push Type	KS1
Bar Type	ZJ-BA
Smart Electrostatic Sensor	ZJ-SDA11

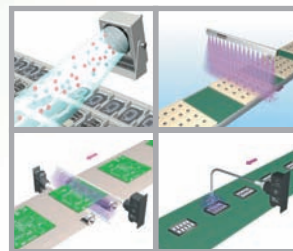


Countermeasures against Static Electricity

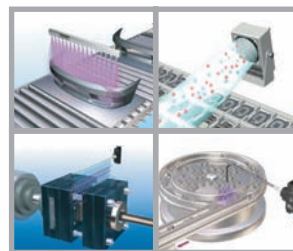
Application Examples

**Electronic
Components
Application**

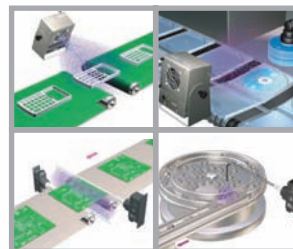
2

**Automobiles**

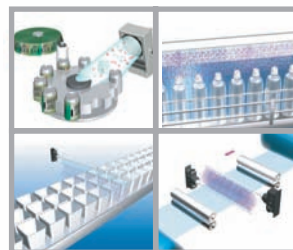
3

**Digital
Home
Appliances**

4

**Food,
Beverages,
and
Medicines**

5

**Lineup of
Anti-static
Products**

6



Have you implemented countermeasures against static electricity?

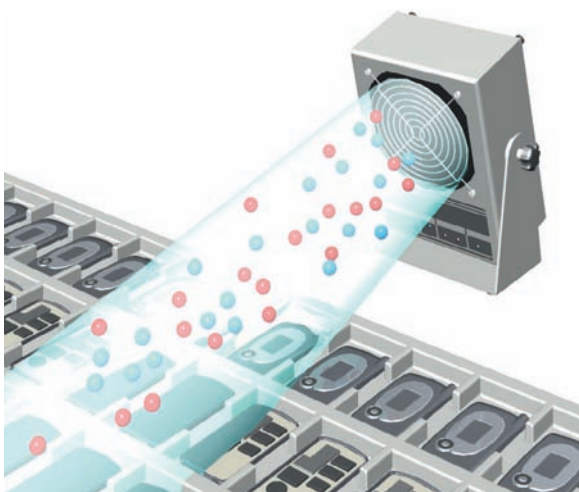
Static electricity can destroy circuit insulation, attract foreign matter, and cause a variety of other problems. Shouldn't you use Ionizers to implement countermeasures against static electricity to improve both quality and yield?

1 Ionizing components on cell production lines



Fan Type
ZJ-FA Series

- Prevents damage to circuits from static electricity on cell production lines.

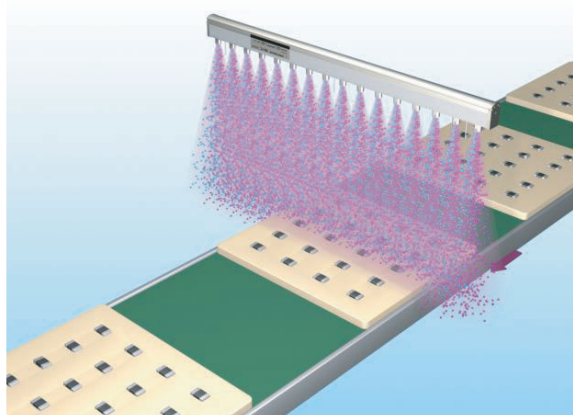


2 Ionizing chip components



Bar Type
ZJ-BA Series

- Prevents adherence of foreign matter and damage to circuits from static electricity. The full width of the line is ionized by an Air Purge Ionizer.

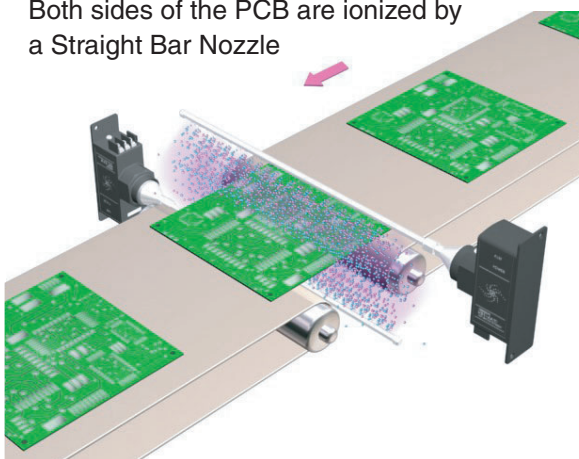


3 Ionizing PCBs



Air Push Type
KS1 Series

- Prevents adherence of foreign matter and damage to circuits from static electricity generated when conveying PCBs. Both sides of the PCB are ionized by a Straight Bar Nozzle

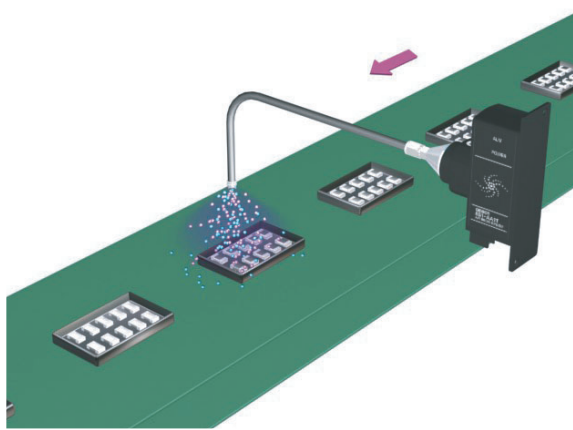


4 Ionizing elements



Air Push Type
KS1 Series

- Prevents adherence of foreign matter and damage to circuits from static electricity on elements. Ionization is localized by a Flexible Tube.

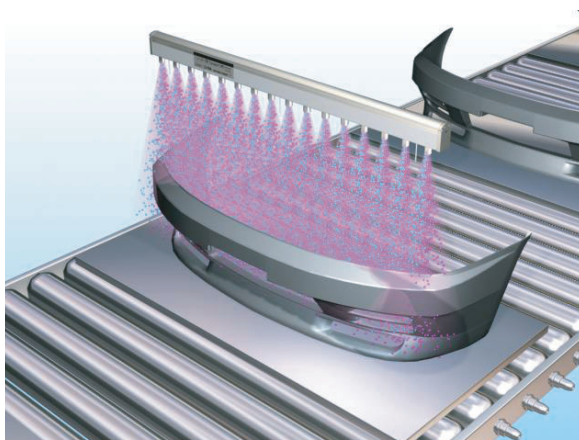


1 Ionizing bumpers



Bar Type
ZJ-BA Series

- Prevents adherence of foreign matter to bumpers on car body production lines.

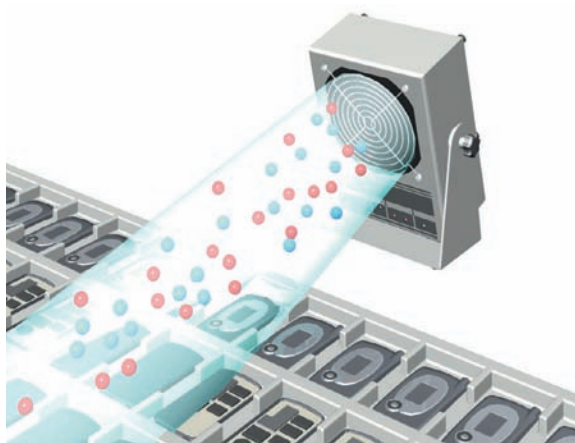


2 Ionizing electronic components



Fan Type
ZJ-FA Series

- Prevents adherence of foreign matter and damage to circuits from static electricity on electrical components.

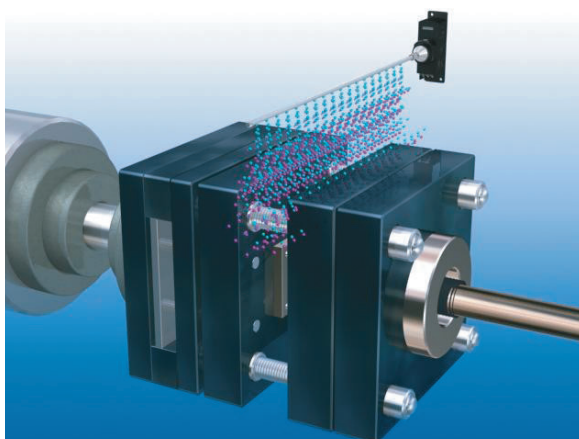


3 Ionizing injection molding



Air Push Type
KS1 Series

- Prevents adherence of resin parts to the die (holdovers) because of static electricity.

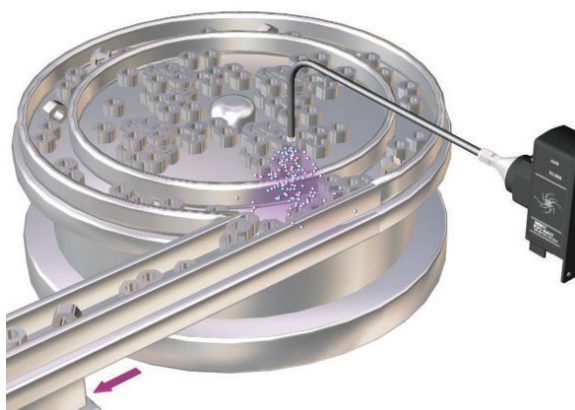


4 Ionizing parts in parts feeders



Air Push Type
KS1 Series

- Prevents adherence of foreign matter and keeps parts from sticking together due to static electricity in the parts feeder.

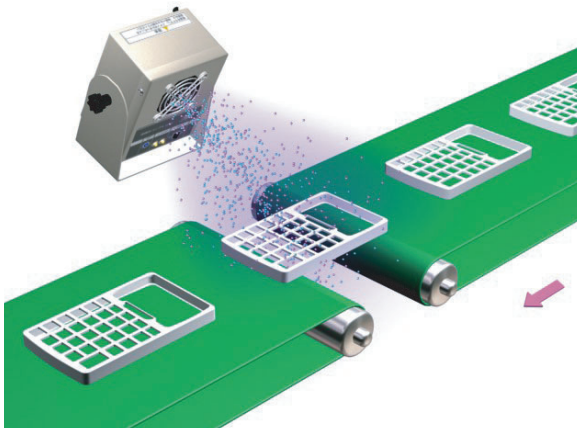


1 Ionizing resin parts



Fan Type
ZJ-FA Series

- Prevents adherence of foreign matter from static electricity on resin parts.



2 Ionizing when conveying DVDs



Fan Type
ZJ-FA Series

- Prevents adherence of foreign matter when conveying DVDs.

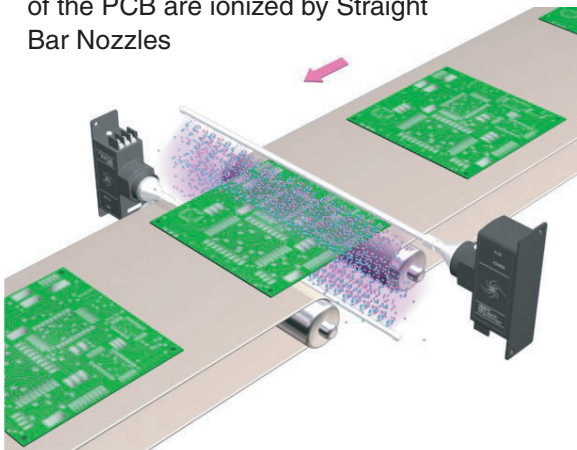


3 Ionizing PCBs



Air Push Type
KS1 Series

- Prevents adherence of foreign matter and damage to circuits from static electricity generated when conveying PCBs. Both sides of the PCB are ionized by Straight Bar Nozzles

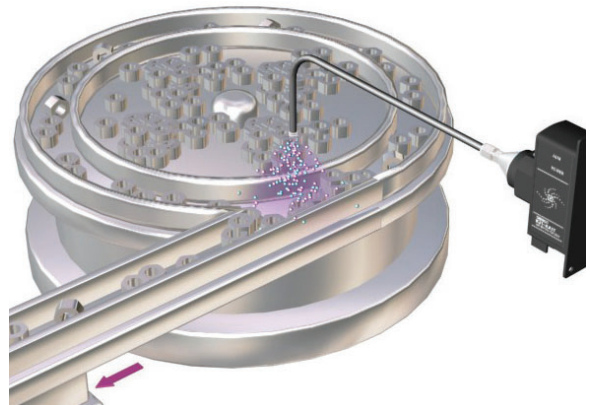


4 Ionizing parts in a parts feeder



Air Push Type
KS1 Series

- Prevents adherence of foreign matter and keeps parts from sticking together due to static electricity in the parts feeder.



1 Ionizing labels



Fan Type
ZJ-FA Series

- Prevents adherence of dust and other foreign matter when labeling.

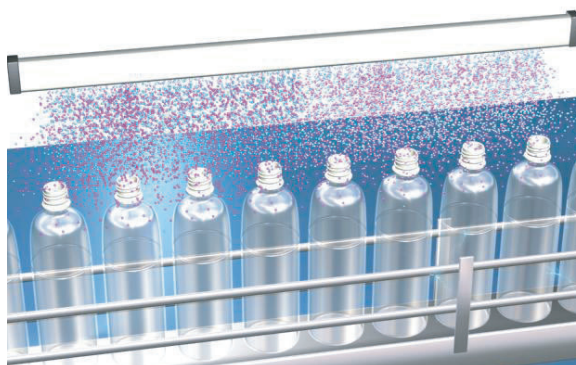


2 Ionizing PET bottles on conveyors



Bar Type
ZJ-BA Series

- Prevents adherence of foreign matter when conveying PET bottles.

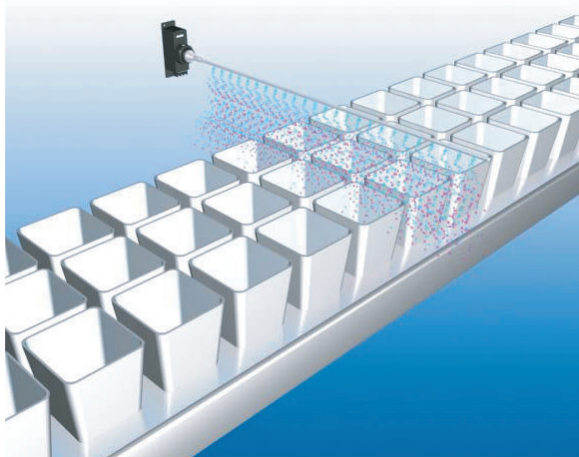


3 Ionizing containers



Air Push Type
KS1 Series

- Prevents foreign matter from adhering to and contaminating containers before they are packed with food.

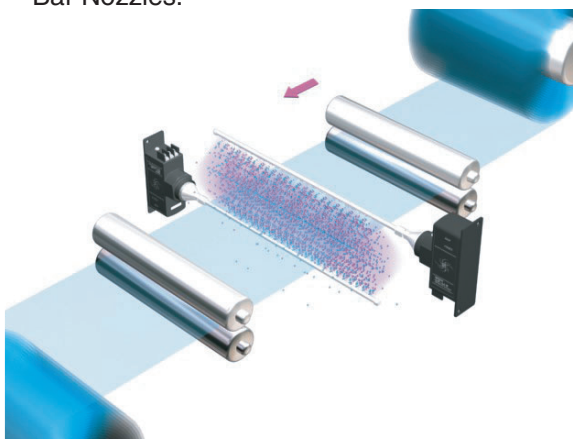


4 Ionizing packing films



Air Push Type
KS1 Series

- Prevents adherence of foreign matter and keeps the film from sticking to itself. Both sides of the film are ionized by Straight Bar Nozzles.



OMRON provides the following types of Ionizers.

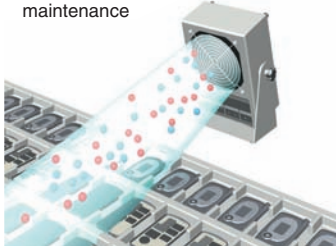
For easy introduction

Thin, Advanced Fan Type

ZJ-FA10 **Best buy!**
ZJ-FA01, ZJ-FA02, ZJ-FA03

Product Features

- Excellent ion balance and high-speed ionization
- Easy-to-read operating status display
- Simple installation and reliable maintenance



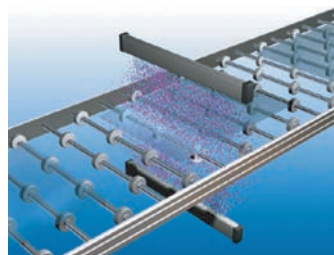
For wide-area ionization

Bar Type

ZJ-BA

Product Features

- Superior ion balance
- High-speed ionization in three modes
- Useful and reliable onsite functions



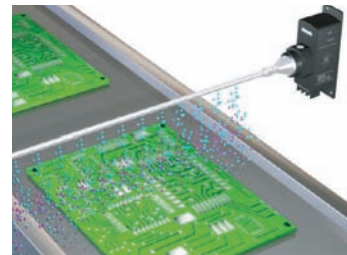
For wide-ranging applications

Air Push Type

KS1

Product Features

- Superior ion balance
- Many nozzle variations for a variety of applications



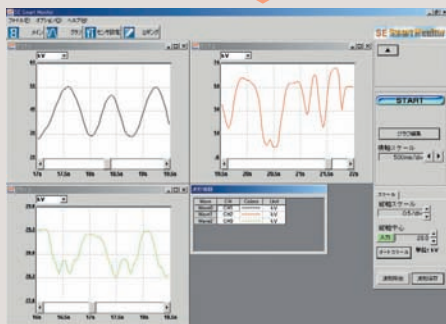
OMRON makes static electricity visible with an Electrostatic Sensor.

ZJ-SDA11



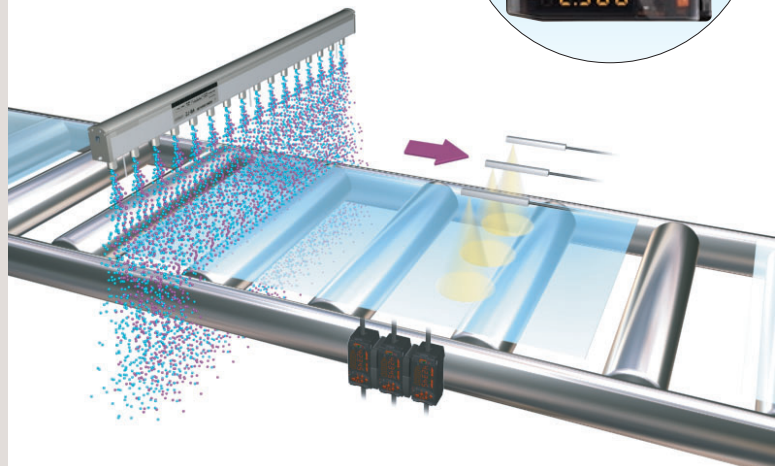
Super-compact Amplifier for direct digital display of static charges.

And..



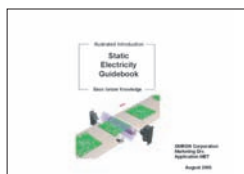
PC software for displaying and logging electrostatic amounts over time.

Electrostatic Sensor
ZJ-SD100/SDA11



Related Materials

OMRON also has many other pamphlets available on static electricity countermeasures.



Static Electricity Guidebook
SACC-001



Static Sensors and
Ionizers Series Catalog
E374

APPLICATION GUIDE

Countermeasures against Static Electricity

Application Examples

- The application examples provided in this catalog are for reference only. Check functions and safety of the equipment before use.
- Never use the products for any application requiring special safety requirements, such as nuclear energy control systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, or other application involving serious risk to life or property, without ensuring that the system as a whole has been designed to address the risks, and that the OMRON products are properly rated and installed for the intended use within the overall equipment or system.

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