



And see the gain
Ionizers

[Quick overview](#)



Ionizers

And see the gain

“The invisible enemy”. “The unseen”. These are just a few ways to call and define static electricity.

Unfortunately, static is not like an air leakage that you can hear. Static is indeed invisible, but its effects can certainly be seen. In our visits to customers premises, no matter if they are big, medium or small production plants, we often encounter many locations suffering from the effects of static. Plastic tubes actually levitating, plastic wraps all twisted, or very unstable packaging processes due to clinging bottles.

Unfortunately in many occasions, unseen means untackled. Luckily, static can be solved in a very quick, easy and efficient way: with an ionizer.

Implementing an ionizer does not imply complicated installation or maintenance. Basically, you must simply find the right one, plug it in, and forget about annoying unplanned stops, messy products or jolts. Simplicity & effectiveness: that is the motto of our product range.

With SMC's Ionizers you will:

- **Forget about product rejections, futile maintenance hours and machine downtime provoked by static electricity** – plug it in and see the benefits right away

- **Optimise the quality of your process** – the installation of the appropriate solution will increase production speed and improve output quality in a simple way.

- **Create a safe environment for your workers** – eliminate jolts produced by static.

- **Guarantee getting the proper anti-static solution** – a wide range for measurement, removal and control of static electricity is at your disposal.

“If only all problems could be solved so easily.

Simplicity & effectiveness: that is the motto of our product range.”

General specifications

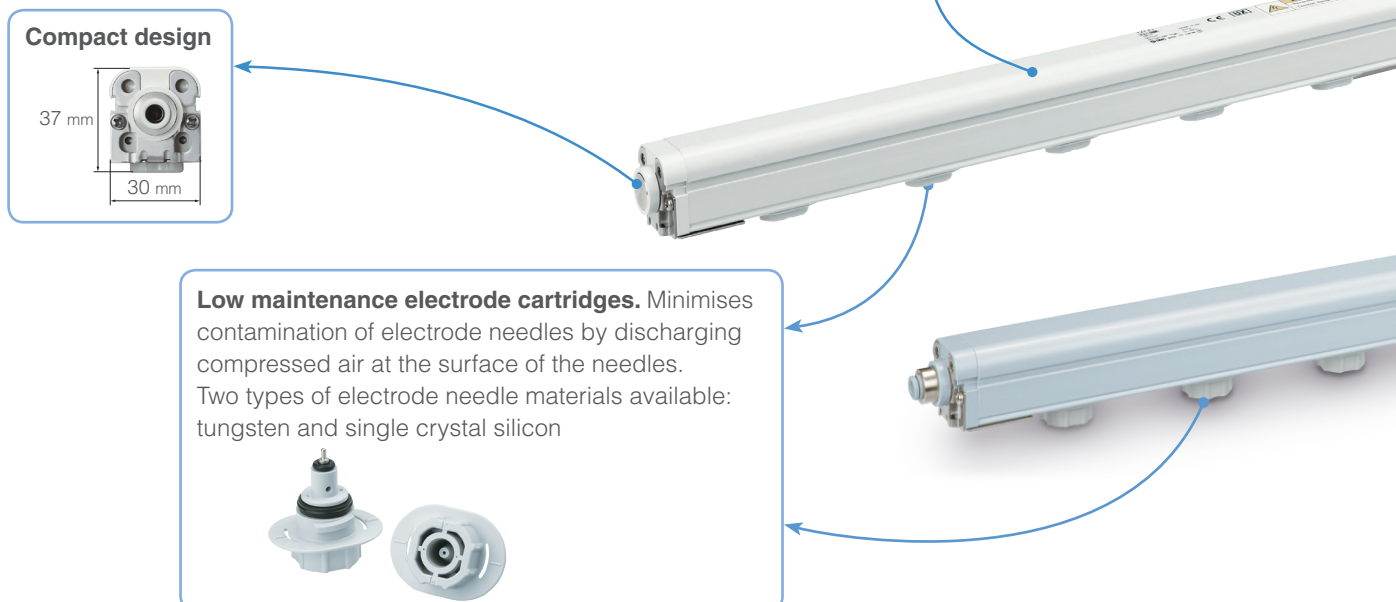
IZF Series

- **Ion balance:** ± 5 V (IZF21/31) or ± 13 V (IZF10/10R).
- **Minimal elimination distance:** 100 mm.



IZS40/41/42 & IZT40/41/42 Series

- **Ion balance:** ± 30 V.
- **Potential amplitude:** 25 V or less (IZS42/IZT42 Series)
- **Effective electricity elimination distance:** 50 to 2000 mm.



IZN10E Series

- ▶ **Ion balance:** ± 10 (Energy saving) or ± 15 (Large flow).
- ▶ **Effective electricity elimination distance:** 20 to 500 mm.

Electrode needle
contamination detector

Built-in power supply
substrate

Easy maintenance

- Can be disassembled into 3 parts
- Tools are unnecessary for the installation or removal of the assembly.

Multiple alarms, functions and LED display (IZT41/42)

Ion balance display

High-voltage abnormality
detection

Maintenance detection



IZT40/41/42

Transition wiring and remote control

Up to 8 ionizers can be connected reducing the labour time required to connect power supply.
Up to 16 ionizers can be adjust and set with remote control through address setting.









IZS40/41/42

Electrode needle
contamination detector

Incorrect high voltage ion
discharge detection



Static electricity elimination equipment portfolio

		Features	Ion generation method	Ion balance [V]	Flow rate [l/min]
Separate controller bar type ionizer, IZT series					
IZT40		- Effective and efficient in the rapid elimination of static	Corona discharge	±30	300 (High-speed) ¹⁾ 156 (Energy saving) ¹⁾
IZT41		- Energy saving and high speed de-ionizing cartridges			
IZT42		- Low maintenance electrode cartridges - Easy monitorisation and adjustment of bars installed in a place which cannot be accessed - Electrostatic removal from flat surfaces and remote surfaces with limited space - Suitable for applications in all industries			
Bar type ionizer, IZS series					
IZS40		- Effective and efficient in the rapid elimination of static	Corona discharge	±30	300 (High-speed) ¹⁾ 156 (Energy saving) ¹⁾
IZS41		- Built-in, high accuracy and feedback sensors			
IZS42		- Energy saving and high speed de-ionizing cartridges - Low maintenance electrode cartridges - Electrostatic removal from flat surfaces and remote surfaces - Suitable for applications in all industries		±25	
Fan type ionizer, IZF series					
IZF10		- Compact and lightweight - Flow rate adjustment function - Electrostatic removal in the atmosphere around a work piece - Operates without the need of a compressed air supply - Suitable for applications in all industries	Corona discharge	±13	IZF10: 660 IZF10L: 460
IZF10R				±13	190 to 800
IZF21/31				±5	IZF21: 400 to 1800 IZF31: 1300 to 4400
Nozzle type ionizer, IZN series					
IZN10E		- Slim design - Built-in power supply substrate - Energy saving and large flow nozzles - Removal from a small work piece or total electrostatic removal in confined spaces. Suitable for dust removal. - Suitable for applications in all industries	Corona discharge	±10 (Energy saving) ±15 (Large flow)	10 to 80 (0.3 MPa)

1) These values have been calculated with a bar length of 1120 mm and an inlet pressure of 0.3 MPa (relative pressure).

Effective electricity elimination distance [mm]	Discharge output [kV]	Power supply voltage	Temperature range [°C]	Electrode material	Others
50 to 2000	±7	24 VDC ±10 %	0 to 40 (Controller, High-voltage power supply module)	Tungsten Silicon	<ul style="list-style-type: none"> - Concentrated remote control - Bar error detector - Electrode needle contamination detector - Ion balance adjustment - I/O signals (PNP/NPN) - LED indicators - Electrode cartridge drop prevention function - Drop prevention cover - Electrode needle cleaning kit - Air supply port is selectable: Right side/left side/both sides - Non-standard bar length
	±6		0 to 50 (Bar)		
50 to 2000	±7	24 VDC ±10 %	0 to 40	Tungsten Silicon	<ul style="list-style-type: none"> - Transition wiring (up to 8 units) - Remote control - High charge error - Electrode needle contamination detector - Ion balance adjustment - I/O signals (PNP/NPN) - LED indicators - Electrode cartridge drop prevention function - Drop prevention cover - Electrode needle cleaning kit - Non-standard bar length
	±6				
Min. 100	±5	24 VDC ±10 %	0 to 50 (Operation) -10 to 60 (Storage)	Tungsten	<ul style="list-style-type: none"> - Built-in emitter cleaner (Option) - Fan air filter (Optional) - Power supply failure alarm - Incorrect high voltage alarm - Fan motor failure alarm - CPU failure alarm - Maintenance alarm - Emitter cartridge mounting failure alarm - Automatic cleaning failure alarm - Electrode needle cleaning kit
20 to 500	±2.5	24 VDC ±10 %	0 to 55	Tungsten	<ul style="list-style-type: none"> - 360° turnable nozzle (With right angles -X367) - External switch input function (2 inputs): <ul style="list-style-type: none"> · Detection of pressure drop of compressed air · Energy saving with electrostatic sensor - Electrode needle cleaning kit - LED indicators - Maintenance alarm - Can be disassembled into 3 parts: <ul style="list-style-type: none"> · Emitter assembly · Body assembly · Cartridge assembly

Separate controller bar type ionizer

IZT40/41/42 Series



Fast & Efficient static removal wherever you want



Main features

► Standard type IZT40 Series

Simple operation: Only power ON/OFF required.

► AC type IZT41Series

Auto balance function

- The sensor is installed within the ionizer body
- The ion balance in the static neutralisation area is controlled so that the voltage is maintained at a constant value.

► Dual AC type IZT42 Series

Reduced potential amplitude: 25 V or less
Deionisation does not affect semiconductors.

► Ion balance: ± 30 V

► Compact design

Height 37 mm x Width 30 mm

► Low maintenance electrode cartridges

► Up to 4 bars can be connected to one controller

► The controller and high-voltage power supply module can be mounted separate or integrated

Maximum installation distance between controller and bars:

- 6 m when there is one bar
- 15 m when there are 4 bars.

Selected part numbers

● Stocked items

Part number	Characteristics	Bar Length [mm]	Input Signal	Output Signal	Operating Range [mm]
IZT40-16D36HR-3	Plug & Play	160	—	—	50 ~ 2000
IZT40-22D36HR-3		220			
IZT40-34D36HR-3		340			
IZT40-40D36HR-3		400			
IZT40-46D36HR-3		460			
IZT40-58D36HR-3		580			
IZT40-64D38HR-3		640			
IZT40-82D38HR-3		820			
IZT40-112D38H-3		1120			
IZT40-130D38H-3		1300			
IZT40-160D38H-3		1600			
IZT40-190D3AH-3		1900			
IZT40-232D3AH-3		2320			
IZT40-250D3AH-3		2500			

● Stocked items



Part number	Characteristics	Bar Length [mm]	Input Signal	Output Signal	Operating Range [mm]
IZT41-16D36HRP-3	Auto balance function	160	2 x PNP	2 x PNP	50 ~ 2000
IZT41-22D36HRP-3		220			
IZT41-34D36HRP-3		340			
IZT41-40D36HRP-3		400			
IZT41-46D36HRP-3		460			
IZT41-58D36HRP-3		580			
IZT41-64D38HRP-3		640			
IZT41-82D38HRP-3		820			
IZT41-112D38HP-3		1120			
IZT41-130D38HP-3		1300			
IZT41-160D38HP-3		1600			
IZT41-190D3AHP-3		1900			
IZT41-232D3AHP-3		2320			
IZT41-250D3AHP-3		2500			
IZT42-16D36HRP-3	Potential amplitude reduction specification	160			
IZT42-22D36HRP-3		220			
IZT42-34D36HRP-3		340			
IZT42-40D36HRP-3		400			
IZT42-46D36HRP-3		460			
IZT42-58D36HRP-3		580			
IZT42-64D38HRP-3		640			
IZT42-82D38HRP-3		820			
IZT42-112D38HP-3		1120			
IZT42-130D38HP-3		1300			
IZT42-160D38HP-3		1600			
IZT42-190D3AHP-3		1900			
IZT42-232D3AHP-3		2320			
IZT42-250D3AHP-3		2500			

1) Incl. 3 m high-voltage cable and power supply cable.

2) Non-standard bar length available upon request, with -X10 option.

Accessories

● Stocked items

Part number	Description	
IZS30-M2 ●	Electrode needle cleaning kit	
IZT40-ND	High speed de-ionizing cartridge (tungsten)	
IZT40-NL	Energy saving type de-ionizing cartridge (tungsten)	
IZS40-E2	Electrode cartridge drop prevention cover for 2 electrodes	
IZS40-E3 ●	Electrode cartridge drop prevention cover for 3 electrodes	
IZS40-E4 ●	Electrode cartridge drop prevention cover for 4 electrodes	
IZS40-E5 ●	Electrode cartridge drop prevention cover for 5 electrodes	
IZT40-BE1	End bracket 1	
IZT40-BE2	End bracket 2	
IZT40-BM1	Intermediate bracket 1	
IZT40-BM2	Intermediate bracket 2	
IZT40-B1	DIN rail mounting bracket for controller	
IZT40-B2	DIN rail mounting bracket for high-voltage power supply module (IZT40/IZT41)	
IZT40-B3	DIN rail mounting bracket for high-voltage power supply module (IZT42)	
IZT40-E1	High-voltage cable holder (Straight)	
IZT40-E2	High-voltage cable holder (Elbow)	
IZT40-CP3	Power supply cable (3 m)	
IZT40-CG2EU	AC adapter with AC cord	
IZT40-CF3	Separate cable (3 m)	

Bar type ionizer

IZS40/41/42 Series



3 solutions for fast and effective static removal






















Main features

- ▶ **Standard type Series IZS40**
Simple operation: Only power ON/OFF required.
- ▶ **Feedback sensor type Series IZS41**
Feedback sensor enables the rapid elimination of static electricity.
 - Energy saving run mode
 - Continuous neutralisation run mode.
- ▶ **Dual AC type Series IZS42**
Reduced potential amplitude: 25 V or less
Deionisation does not affect semiconductors.
- ▶ **Ion balance: ± 30 V**
- ▶ **Reduction of adjustment and maintenance time using an auto balance sensor:**
 - Built-in type (standard): The sensor is installed within the ionizer body and may be mounted anywhere
 - High accuracy type (option): "Ion balance adjustment at external signal input" or "Ion balance adjustment at any time" can be selected.
- ▶ **Setting ionizer with remote control: can recognize and control up to 16 ionizers through address setting**
- ▶ **Low maintenance electrode cartridges**
- ▶ **Transition wiring may be used**

Selected part numbers

● Stocked items

Part number	Characteristics	Bar Length [mm]	Input Signal	Output Signal	Operating Range [mm]
IZS40-340-06B 	Plug & Play	340	—	—	50 ~ 2000
IZS40-400-06B 		400			
IZS40-460-06B 		460			
IZS40-580-06B 		580			
IZS40-640-06B 		640			
IZS40-820-06B 		820			
IZS40-1120-06B 		1120			
IZS40-1300-06B 		1300			
IZS40-1600-08B 		1600			
IZS40-1900-08B 		1900			
IZS40-2320-08B		2320			
IZS40-2500-08B		2500			
IZS41-340P-06B 	Applicable for feedback sensor	340	2 x PNP	2 x PNP	
IZS41-400P-06B 		400			
IZS41-460P-06B 		460			
IZS41-580P-06B 		580			
IZS41-640P-06B 		640			
IZS41-820P-06B 		820			
IZS41-1120P-06B 		1120			
IZS41-1300P-06B 		1300			
IZS41-1600P-08B 		1600			
IZS41-1900P-08B 		1900			
IZS41-2320P-08B		2320			
IZS41-2500P-08B		2500			

● Stocked items

Part number	Characteristics	Bar Length [mm]	Input Signal	Output Signal	Operating Range [mm]
IZS42-340P-06B ●	Potential amplitude reduction specification	340	2 x PNP	2 x PNP	50 ~ 2000
IZS42-400P-06B ●		400			
IZS42-460P-06B ●		460			
IZS42-580P-06B ●		580			
IZS42-640P-06B ●		640			
IZS42-820P-06B ●		820			
IZS42-1120P-06B ●		1120			
IZS42-1300P-06B ●		1300			
IZS42-1600P-08B ●		1600			
IZS42-1900P-08B ●		1900			
IZS42-2320P-08B		2320			
IZS42-2500P-08B		2500			

1) Incl. 3 m power supply cable and bracket.

2) Non-standard bar length available upon request, with -X10 option.

Accessories

● Stocked items

Part number	Description
IZS30-M2 ●	Electrode needle cleaning kit
IZS41-RC ●	Remote control
IZS41-CF02 ●	Transition wiring cable (2 m)
IZS40-NT ●	High speed de-ionizing cartridge (tungsten)
IZS40-NJ ●	Energy saving type de-ionizing cartridge (tungsten)
IZS40-E3 ●	Electrode cartridge drop prevention cover for 3 electrodes
IZS40-E4 ●	Electrode cartridge drop prevention cover for 4 electrodes
IZS40-E5 ●	Electrode cartridge drop prevention cover for 5 electrodes
IZF10-CG2EU	AC Adapter for IZS40
IZS41-CG2EU	AC Adapter for IZS41/42
IZS40-BE ●	End bracket
IZS40-BM ●	Intermediate bracket
IZS31-DF ●	Feedback sensor
IZS31-DG ●	Auto balance sensor

Fan type ionizer

IZF Series



Fast static removal in your hands



IZF21/31 Series main features



- ▶ **Extensive and rapid static neutralisation**
- ▶ **Ion balance: ± 5 V**
- ▶ **Optional adjustable louver to adjust the static neutralisation area**
- ▶ **Improved performance and easier maintenance through several functions and features:**
 - Functions: averaging function, automatic balance adjustment function, optional automatic cleaning function, flow rate adjustment function
 - Tool-less replaceable emitter cartridge
 - Optional filter to prevent the entry of foreign matter to the motor and to avoid short-circuit between emitters.
- ▶ **Modular, compact and slim design**

Selected part numbers

● Stocked items

Part number	Flow rate [l/min]	Input/Output
IZF21-P ●	400 to 1800	PNP
IZF31-P ●	1300 to 4400	

1) Included 3 m power supply. AC adapter, bracket, automatic cleaning unit, louver and filter not included.

2) NPN option available upon request.

Accessories

● Stocked items

Part number		Description
IZF21	IZF31	
IZF21-NT ●	IZF31-NT ●	Emitter cartridge
IZS41-CP ●		Power supply cable (3 m)
IZS41-CPZ ●		Power supply cable (10 m)
IZF21-CG2EU		AC adapter (with AC cord)
IZF21-CG2 ●		AC adapter (without AC cord)
IZF21-HW ●	IZF31-HW ●	Adjustable louver
IZF21-B1 ●	IZF31-B1 ●	Bracket
IZF21-HS ●	IZF31-HS ●	Automatic cleaning unit
IZF21-FL	IZF31-FL	Air suction side filter: filter
IZF21-FU ●	IZF31-FU ●	Air suction side filter: filter + filter holder
IZF21-M3	IZF31-M3	Cleaning arm (for automatic cleaning unit)
IZS30-M2 ●		Cleaning kit
IZS30-M1 ●		Adjustment screwdriver

IZF10/10R Series main features



- ▶ **Rapid static neutralisation**
- ▶ **Two types available (IZF10):**
Fast elimination of static electricity type: 1.5 seconds deionising time.
Low noise fan type: 48 dB(A).
- ▶ **Flow rate adjustment function (IZF10R)**
- ▶ **Ion balance: ± 13 V**
- ▶ **Alarm functions: high-voltage error, electrode needle contamination detector**

Selected part numbers

● Stocked items

Part number	Nozzle type	Flow rate [l/min]	Output
IZF10-P ●	Rapid deionising type	660	PNP
IZF10-LP ●	Low noise type	460	
IZF10R-P	—	190 to 800	

1) Power supply cable (3 m) included. AC adapter, bracket and e-connector not included.

2) NPN option available upon request.

Accessories

● Stocked items

Part number		Description
IZF10	IZF10R	
IZF10-CP ●	IZF10R-CP	Power supply cable (3 m)
IZF10-CPZ ●	IZF10R-CPZ	Power supply cable (10 m)
IZF10-CG2EU	IZF10R-CG2EU	AC adapter (with AC cord)
IZF10-CG2 ●	IZF10R-CG2	AC adapter (without AC cord)
IZF10-B1 ●		Bracket
IZF10-A1 ●	IZF10R-A1	Cartridge case
ZS-28-C ●	—	E-con connector
IZS30-M2 ●		Cleaning kit
IZS30-M1 ●		Adjustment screwdriver

Nozzle type ionizer

IZN10E Series



Efficient local static removal



Main features

► Different nozzles to adapt several applications

Available either as IZN10E (standard type) and IZN10E-X367 (with right angles and 360° rotation):

- Energy saving static electricity elimination nozzle
- High flow static electricity elimination nozzle.

► Ion balance: ± 10 V (Energy saving), ± 15 V (Large flow)

► Compact and slim design

Thickness x Width x Height: 16 mm x 100 mm x 46 mm.

► With built-in power supply substrate

► Easy maintenance: electrode needle contamination detector with easy replacement of the cartridge

► Mounting variations: direct mount, bracket mount

► External switch input function (2 inputs). Switch output: PNP/NPN.

Selected part numbers

● Stocked items

Part number	Nozzle type	Port size	Input/Output specification
IZN10E-01P06 ●	Energy saving static neutralisation nozzle	Ø 6 (metric size)	PNP
IZN10E-02P06 ●	High flow rate nozzle		
IZN10E-11P06 ●	Rc1/8 female threads for piping		
IZN10E-01P06-X367	Energy saving static neutralisation nozzle		
IZN10E-02P06-X367	High flow rate nozzle		

1) Included 3 m power supply cable.

2) NPN option available upon request.

Nozzle variations

● Stocked items

Part number	Description	Supply pressure specifications [MPa]
IZN10-G-X198 ●	Circular diffusion nozzle	0.05 to 0.1
IZN10-G-X199 ●	Flat diffusion nozzle	
IZN10-G-□-X216	Bar nozzle (straight type)	
IZN10-G-X278	Circumferential jet bar nozzle (straight type)	0.05 to 0.15
IZN10-G-□-X205	Bender tube nozzle	
IZN10-G-□-X226	Long nozzle	

□: For bar length [mm]: 100, 200, 300, 400, 500 and 600.

Accessories

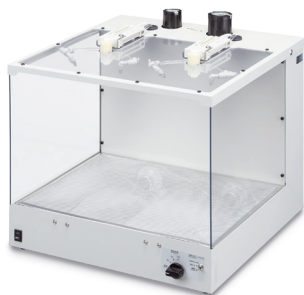
● Stocked items

Part number	Description
IZN10-B1 ●	L Bracket
IZN10-B2 ●	Pivoting bracket
IZN10-B3 ●	Din rail mounting bracket
IZN10E-CP	Power supply cable (3 m)
IZN10E-CPZ ●	Power supply cable (10 m)
IZN10E-CG2EU-P	AC adapter with AC cord (PNP input/output specification)
IZS30-M2 ●	Electrode needle cleaning kit

Other static electricity equipment



Desktop duster box – ZVB Series



- ▶ Integration of three processes – static neutralisation, dust removal and dust collection – in a single box by using nozzle type ionizers
 - Efficient static neutralisation with a diffusion-type nozzle
 - Dust removal with dedicated nozzles for the air blow
 - Dust collection with a maintenance-free pneumatic dust collector.
- ▶ Ion balance: ± 10 V
- ▶ Use of emitters that are easy to remove, replace and clean
- ▶ Optional photoelectric sensor reflecting plate for automatic workpiece detection.

Selected part numbers

Part number	Static neutralisation space [mm] (width x depth)	Dimensions [mm] (width x depth)	Dust collector: exhaust flow rate [l/min]	Air consumption [l/min]	Ionizer: no. of mounted units
ZVB20-B	202 x 212	210 x 297	410 to 1580	420	1
ZVB40-B	392 x 298	400 x 384	820 to 3160	800	2

Accessories

Part number	Description
ZVB-D3A	3 m exhaust duct hose
ZVB-D1A	1 m exhaust duct hose
ZVB-P1A	Dust collecting bag
ZVB-AC1EU	AC adapter
IZN10-NT-X325	Emitter
AS2001F-06D-X678	Air blow adjustment needle valve

Electrostatic sensor – IZD10 Series



- ▶ Potential measurement: ± 20 kV (detected at a 50 mm distance), ± 0.4 kV (detected at a 25 mm distance)
- ▶ Analogue output: the measured electrostatic potential is converted into a 1 to 5 V output that can be used with the electrostatic monitor IZE11
- ▶ Small and easy to mount.

Selected part numbers

● Stocked items

Part number	Potential measurement	Output voltage
IZD10-110 ●	± 0.4 kV	1 to 5 V
IZD10-510 ●	± 20 kV	1 to 5 V

Electrostatic monitor – IZE11 Series



- ▶ Electrostatic sensor IZD10 monitor
- ▶ Output: switch output x 2 + analogue output (1 to 5 V, 4 to 20 mA)
- ▶ Supports two types of sensors: ± 0.4 kV and ± 20 kV
- ▶ Two colour display (red and green)
- ▶ Minimum unit setting: 0.001 kV (at ± 0.4 kV), 0.1 kV (at ± 20 kV)
- ▶ Display accuracy: ± 0.5 %
- ▶ Connection by connector:
 - Connector for power supply / output
 - E-con connector: connector to sensor.

Selected part numbers

● Stocked items

Part number	Input / Output	Connector cable for power supply/output	Connector for sensor connection
IZE112-LC ●	2 PNP + (1-5 V)	Yes	Yes
IZE113-LC ●	2 PNP + (4-20 mA)	Yes	Yes

Accessories

● Stocked items

Part number	Description
ZS-28-A ●	Connector cable for power supply/output (2 m)
ZS-28-B ●	Bracket
ZS-28-C ●	Connector for sensor connection
ZS-27-C ●	Panel mount adapter
ZS-27-D ●	Panel mount adapter + Front protective cover

Handheld electrostatic meter – IZH10 Series



- ▶ Portable sensor
- ▶ Compact and lightweight
- ▶ Rated charge amount range: ± 20.0 kV
- ▶ Functions:
 - Peak & bottom display function
 - Zero clear function
 - Battery indicator
 - Backlight display

Selected part numbers

● Stocked items

Part number	Option
IZH10 ●	None
IZH10-H ●	High-voltage measuring handle

Accessories

● Stocked items

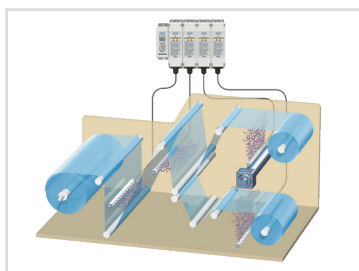
Part number	Description
IZH-A-01 ●	Ground wire, 1.5 m
IZH-B-01 ●	Soft case
IZH-C-01 ●	High-voltage measuring handle

1) IZH-B-01 and IZH-A-01 already attached to the IZH series.

Applications

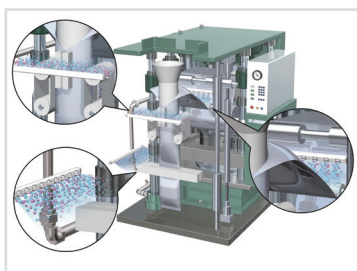
Rolls of films

Prevents dust adhesion and winding failure due to wrinkles



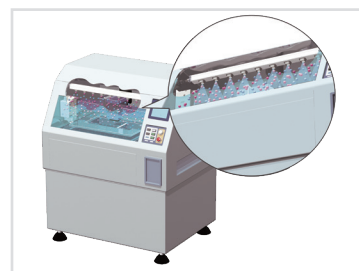
Packing films

Prevents the filled substance from adhering to the packing film and reduces packing mistakes



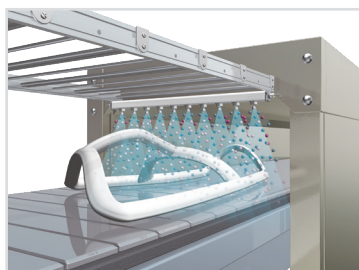
Substrate cutting machine

Eliminates static electricity from the substrate cutting machine



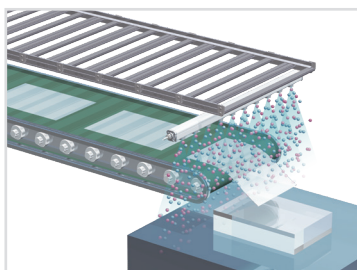
Resin frames

Eliminates static electricity from resin frames



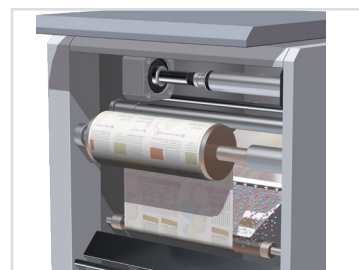
Film moulded goods

Prevents attaching to conveyer and dispersion of finished goods



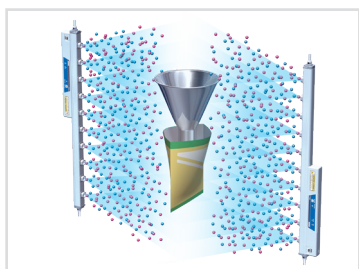
Rotary press

Eliminates static electricity from the rotary press



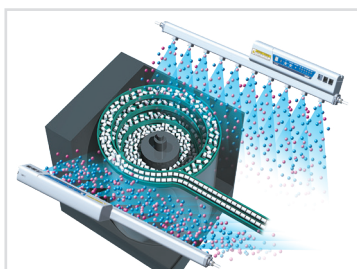
Packing films

Prevents static electricity from charging when opening bags and clinging on the inside of confectionary bags



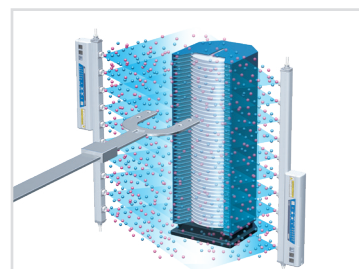
Parts feeder

Prevents clogging



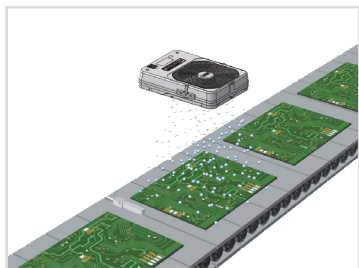
Wafer transfer

Prevents breakage due to discharge between wafers and hands



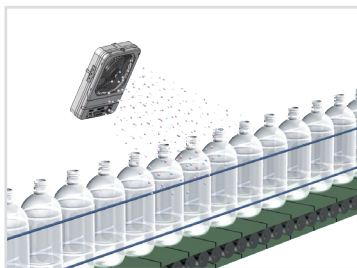
Large electric substrates

Prevents element disruption due to discharge and dust adhesion



PET bottles

Prevents trip-resistance during conveying and dust adhesion



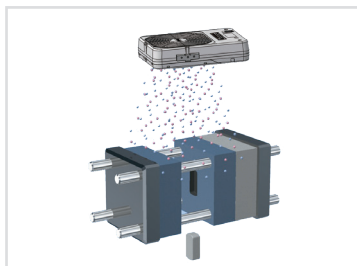
Films

Prevents dust from sticking



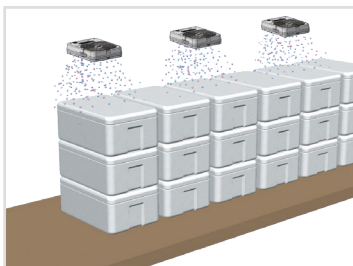
Resin molded goods

Improves detachability of moulded goods from a die



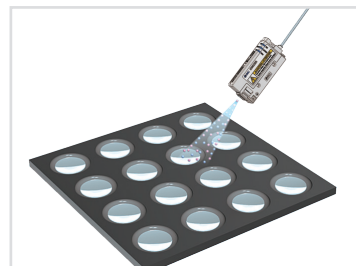
Packaging materials made from polystyrene foam

Prevents darkening due to dust adhesion



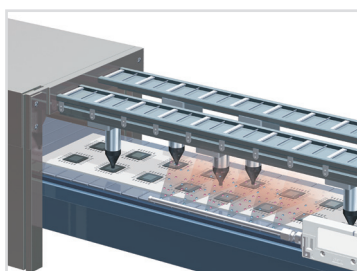
Lenses

Removes dust and prevents dust adhesion



IC chips

Prevents breakdown of electric parts and detachment failure



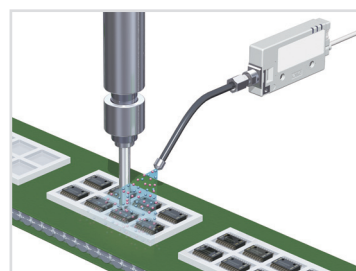
Plastic bottles

Eliminates static electricity and particles on plastic bottles



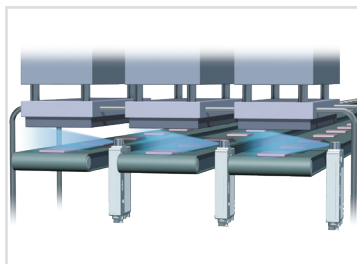
Small electric substrates

Prevents breakdown of electric parts



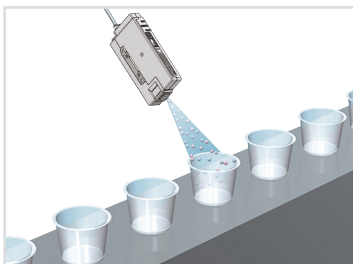
Conveyors

Eliminates static electricity in a narrow space



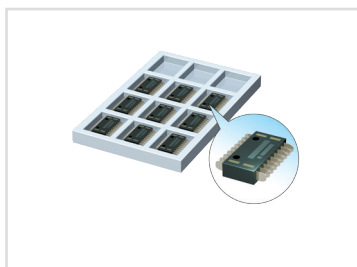
Plastic cups

Removes dust clinging to cup interiors



Desktop Duster Box Applications

Electronic components



Lens



Smartphone



Lamp cover



Cosmetic case



Parts for home appliances



Antistatic products

SMC has a lineup of products that prevent from charging static electricity.

Tubing



- ▶ TAS/TAU Series – Antistatic tubing
- ▶ TAU-X100 Series – Antistatic coloured tubing.

Fittings



- ▶ KA Series – Antistatic one-touch fittings

Antistatic speed controller



- ▶ AS-X260 Series – In-line type/elbow type

Conductive vacuum pads

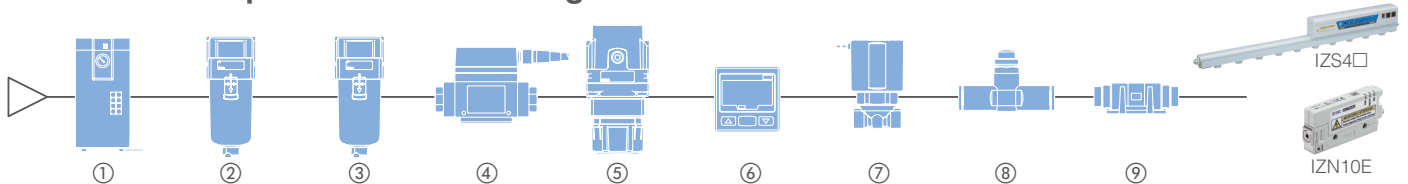


- ▶ ZP3 Series – Conductive NBR/conductive silicon rubber
- ▶ ZP2 Series – Conductive NBR/conductive silicon rubber
- ▶ ZP Series – Conductive NBR/conductive silicon rubber.

Related product

SMC can provide all the equipment required to supply air to the ionizer.
By using the equipment as shown below you can decrease maintenance, prevent damage and also enjoy energy saving.

Recommended pneumatic circuit diagram



① Air Dryer – IDFA Series

Decreases the dew point of compressed air.
Limits moisture generation which can lead to damage.



② Air Filter – AF Series

Eliminates solid foreign matter such as powder particles in the compressed air.



③ Mist Separator – AFM Series

Eliminates oil mist which is difficult to eliminate with an air filter.



④ Digital Flow Switch – PF3 Series 2/3-Colour Digital Flow Switch – PFM Series

Decreases air consumption with flow control.



PF3



PFM

⑤ Regulator – AR Series

Decreases air consumption by setting to an appropriate pressure.



⑥ Digital Pressure Switch – ISE20 Series

The pressure control prevents the ability of static electricity removal from being reduced in accordance with the reduction of air pressure.



⑦ Port Solenoid Valve – VX2 Series Pilot Operated 2 Port Solenoid Valve for Dry Air – VQ Series



⑧ Speed Controller – AS-FS Series

Regulates to the appropriate air volume depending upon the installation condition.
Decreases the air consumption.



⑨ Clean Air Filter – SFD Series

Built-in hollow fiber element.
Nominal filtration rating: 0.01 μm .
Adopted hollow fiber elements with over 99.99 % filtering efficiency do not contaminate workpieces.





Expertise – Passion – Automation

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