

Product Catalogue

Solution to Static Electricity problems

Together we make better Products



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STATIC CHARGE ELIMINATOR

The Static Charge Eliminator is an instrument that eliminates the Static Electricity or Static Charge. Static Charge Eliminator are working on Corona principle and used for removing Static Electricity to protect valuable Electronic equipments, protect Operators from Static shock, from fire hazards from Static and many other process problems in Industries occurred due to Static Electricity. In our Static Charge Eliminators, high voltage (upto 5 kV) is supplied to sharp edged pins. Air Molecules in the near vicinity of sharp edge are broken in positive & negative charged particles called IONS. These Ions help neutralising Static Electricity from the substrate. These are called as Active Static Charge Eliminators. This eliminates the Static Electricity from the surface, temporarily, till another friction takes place.

Static Charge Eliminator complete unit consist of **Drive Unit** and **Ioniser**.

Drive Unit: consists of step down, step up Transformer and Control Circuitary. Step down Transformer reduces line voltage (230 V, 50 Hz) to the voltage suitable for control PCB. Step up Transformer produces high voltage (approx. 5000 V, 10 mA) required for



Ionisation. And Control Circuitary consist of Voltage Regulator, Squarewave Generator (Smitz Trigger), Current Sensor and Tripping Circuitary. This Tripping Circuitary is the safety device added in the PCB so that no one gets fatal shock even by touching the pin of the Ioniser. That means, even if anyone touch the pin of the Ioniser it tries to draw more Current which is prevented by tripping the Circuitary. Operator gets the video indication of tripping. Squarewave Generator improves the elimination efficiency because of more Ions generation.

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Tiny Tool
to kill big
Giant

**DRIVE UNIT IS AVAILABLE IN DIFFERENT MODELS
SUITABLE TO YOUR APPLICATIONS.**

Compressed Drive Unit:

Physical dimensions: L x B x H

This is mainly used in Control Panel of Straight Film Wrapping Machine. This can be enclosed in the Control Panel and Ioniser can be taken out near Cutter.



Tower Drive Unit:

Physical dimensions: L x B x H.

This goes with Adhesive Tape Manufacturing Plant, Laminating Plants, Plastic Tapes, Plastic Woven Sack, Manufacturing Plants, as this Unit can be mounted on the Frame itself.

VDO Drive Unit:

Physical dimensions: L x B x H.

This is used in the Smaller Machines where this can be mounted on the top. Viz. Film Cutting Machines.



Ioniser: This is having main body made of Aluminium, Filament on which the pins are mounted and H.V. shielded Cable. Pins are made up of 316 L stainless Steel flashed with very hard Metal. This keeps the pin sharpness shining years together. Moreover, this limits the ozone generation upto 3 PPM. H.V. Cable is having the 10 kV insulation.

Channel type Ionisers:

are used in straight Film Wrapping Machines. In this Wrapping process Film is cut and falls freely under gravitation overwraps the cartoon. However, due to Static Electricity / Static Charge this cut Film piece sticks to Rubber roller or come out of the Rollers. to avoid this process problem, Channel type Ioniser is used in between Rollers and the Cutter.



Pipe type Ionisers: are used in Textile, Rubber, Adhesive types, Plastic

Film, Printing, Laminations manufacturing Units / Machines. Being the width of the substrate is comparatively high [more than 500 mm] Pipe type Ionisers are quite useful due to its strength.

Ring type Ionisers: are specially manufactured for Form - Fill - Seal [FFS] Machines where the plastic tube in which the material is filled is surrounded by this eliminates Static Charge / Static Electricity.

Blower type Ionisers: is used where ordinary hand cannot be reached viz. to eliminate Static Charge / Static Electricity from inner line of the plastic pipe.

Cost of our Eliminators gets recovered within 6 months by saving on material, power and man hours wastage

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