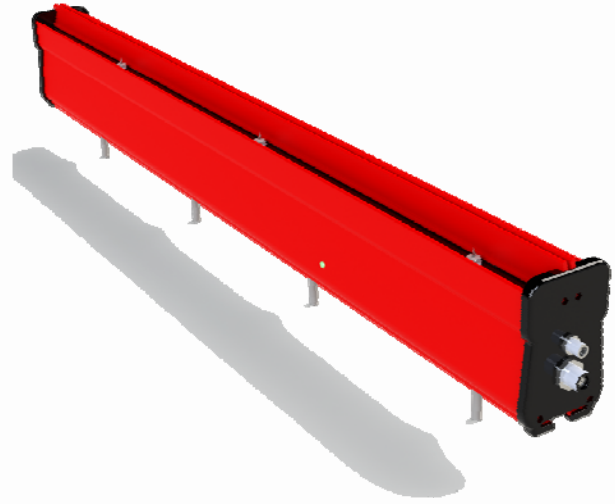


## 3100 Jupiter

*Advanced long range static control system.*

*Using intelligent ionisation technology to provide unrivalled static neutralisation performance in a safe and reliable way at distances up to 1.5m.*



### Benefits and Advantages

- Very fast static decay performance - up to 5 times more powerful than leading competitors.
- All control and high voltage parts in-bar and encapsulated for reliability and safety.
- Intelligent ionisation - the emitter current is monitored and a feedback control system is employed to compensate for varying operational conditions and optimise performance accordingly.
- Constant monitoring of condition provides a potential free signal to power a remote lamp or alarm.
- Titanium emitters maintain optimal performance. Replaceable if worn or broken.
- Emitters resistively coupled to the high voltage for shockless operation.
- Unique double wall separation of positive and negative emitters to avoid recombination of ions and reduce maintenance.
- Robust, rigid construction available from 500mm up to 3m in length, in 250mm steps. Effective length is generally 150mm longer than overall length - so a 750mm Bar will cover a 900mm wide product at a distance of 500mm.
- 24V power supply provided with each Jupiter.
- Easy mounting.

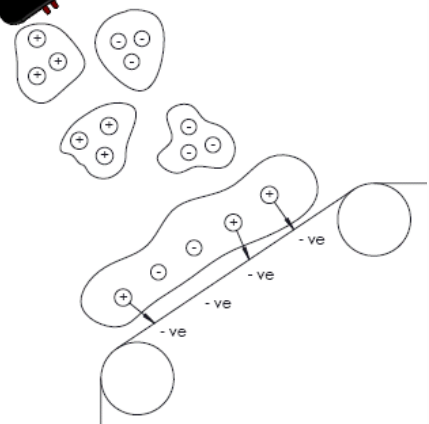
### How it works

Jupiter uses advanced pulsed DC technology whereby dedicated positive and negative emitters produce pulses of ions which propel previous ions away from the bar. See sketch

A microcomputer system controls and regulates two compact high voltage sources, each source generates high voltages of over 30kV. This power is delivered to the emitters through an impedance network to assure safe and shockless operation.



Ions are propelled outwards until the static charge attracts the ions needed to neutralise itself.



## Operation cont.

A variable frequency drive allows optimization for operation at a range of distances. The operator can adjust the frequency from 0.5Hz (for 1m + distances to 10Hz for a 200mm distance)

The on-board computer constantly monitors the operation of the system. Should the unit be powered down, or fail to operate for any reason, a remote signal is generated in the form of potential free relay contacts that can be used to trigger an alarm or warning or control another system.

## Technical

<b>Construction Size</b>	Fire retardant ABS extrusion, GRP re-inforced for Rigidity. For dimensions see sketch below. Lengths from 500mm to 3m in 250mm steps. All high voltage parts encapsulated in epoxy resin. Electrodes: titanium.
<b>Supply Voltage</b>	24V PSU supplied for 115/230V. For own 24V supply use Powercraft 761S connector.
<b>Output voltage</b>	Typically in excess of 30kV, regulated by microprocessor.
<b>Safety</b>	300MOhm resistance to each emitter. Double earthing of electrical supply. We recommend that the Jupiter is interlocked with the running of the machine and so turns off when it is not needed.
<b>Remote Indication</b>	No-volt signal to show correct operation.
<b>Max Temperature</b>	50°C, 70% rH non-condensing.
<b>Mounting</b>	M6 x 25mm T brackets in slot - see sketch below.
<b>Weight:</b>	500mm: 2.3kg. For every extra 250mm add 0.8kg.
<b>Standards:</b>	EMC and Low Voltage Directives.

