

LONG RANGE

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 from 200 mm up to 1.5 m.

Very fast static decay performance - up to 5 times more powerful than leading competitors.

- > All control and high voltage parts are in-bar and encapsulated for reliability and safety.
- > Constant monitoring of condition provides a potential free signal to power a remote lamp or alarm.
- > Tungsten 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 620 mm up to 5020 mm in length, increasing in 250 mm steps: 770 mm, 1020 mm, 1270 mm etc.
- > Effective length is generally 150 mm longer than overall length - so a 770 mm Bar will cover a 920 mm wide product at a distance of 500 mm.
- > 24 V power supply provided with each Jupiter.
- > Easy mounting.



Specification

Construction:	Fire retardant polymer body, reinforced for rigidity. Lengths from 600 mm to 4030 m. All high voltage parts encapsulated in epoxy resin. Electrodes: tungsten. 99.95% pure.
Supply Voltage:	24 V PSU supplied for 115/230 V. For own 24 V supply use Powercraft 760S connector.
Output voltage:	Typically in excess of 30 kV, regulated by microprocessor.
Safety:	300 MOhm 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.
Remote Indication:	No-volt signal to show correct operation.
Max Temperature:	50 °C, 70 % rH non-condensing.
Mounting:	M6 x 40mm T brackets in slot - see sketch on page 2.
Weight:	620 mm: 2.6 kg. For every extra 250 mm add 0.6 kg.
Standards:	EMC Directive 2004/108/EC Low Voltage Directive 2006/95/EC

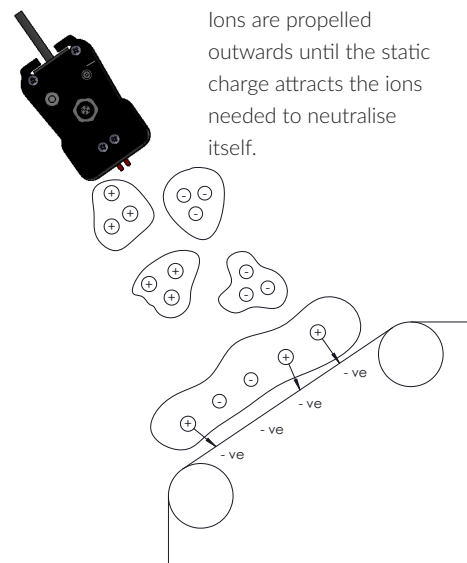
How it works

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 30 kV. This power is delivered to the emitters through an impedance network to assure safe and shockless operation.

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

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.



Dimensions

