

# GENERATORS

## 7130 / 7150 CHARGING ELECTRODES

The new 7130/7150 Charging Electrodes are static generation Bars which provide a safe, controllable, reliable and cost-effective method of applying static charge for temporary adhesion in industry.

**Robust charging electrodes to meet the temporary adhesion requirements of high performance machinery.**

- > Tungsten emitters for a long, trouble-free life. Up to 4 x the life of non-tungsten emitters.
- > The emitters are spaced at 10mm pitch for an even application of static charge, without the striping effect common with wider spaced emitters.
- > The emitters are resistively coupled to the HV for safe, non-sparking performance. Each emitter has an individual HV resistance to the high voltage.
- > Compact size with rigid construction. Available in lengths up to 4000mm.
- > Easy installation - plastic mountings which slide in the "T" slot at the base of the Bar are supplied.
- > Flexible cable in protective nylon conduit.
- > Standard and optional models available - please see over.



### Specification

<b>Construction:</b>	Extruded FR-ABS with ABS end caps, epoxy resin. Tungsten emitters at 10mm pitch.
<b>Length:</b>	Available from 60mm to 4000mm overall length. Cross section: 69mm high x 20mm wide. Effective length is 70mm less than overall length.
<b>Cable:</b>	2m HT cable is standard. Cable rated at 60kV. Longer lengths available. Cable terminates in HV plug suitable for 30kV (7130) or 50kV Generator (7150), to be specified by customer. Flexible protective nylon conduit over cable.
<b>Conditions:</b>	60°C maximum temperature. Maximum humidity 70%rH non-dewing. Must be kept dry and clean.
<b>Safety:</b>	Model 7130/7150 -170MΩ 50kV resistors for safe operation.

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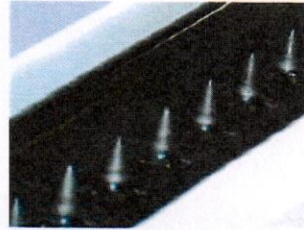
## Two Versions

### Standard Models:

- > Model 7130 - with connections for Models 7333 and 7360 Generators, 30kV output.
- > Model 7150 - with connectors for Model 7560 Generators, 50kV output.

### Optional Models:

- > Model 7130-T5 and 7150-T5 - with emitters spaced at 5mm pitch and connections as standard model.



T5 Electrodes

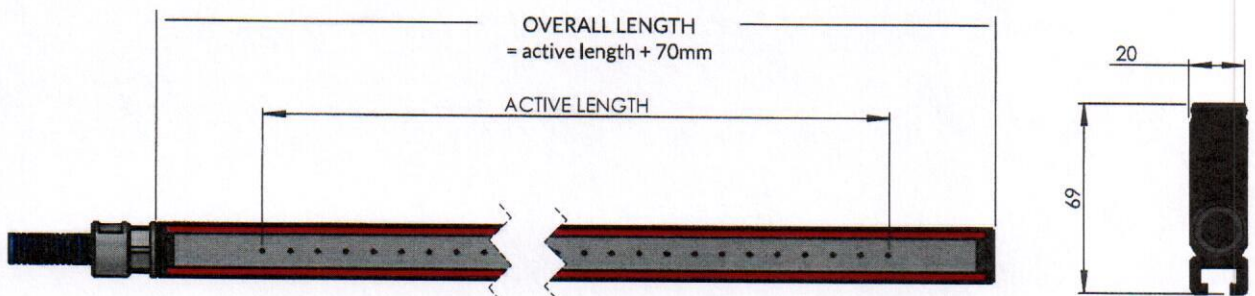
## How it works

The system consists of a Static Generator and one or more Charging Bar. The Generator produces direct current at up to 50kV. The Bar emits this current in the form of an ion cloud.

Materials passing through this ion cloud become charged at the same polarity as the Generator on the side of the Bar, with a mirror image charge on the opposite side, produced by the earth.

The non-conductive barrier (i.e. the material) prevents these two charges coming together - this is what causes the adhesion.

## Dimensions



## Generators



7333 (30kV) Generator



7360 (30kV) and 7560 (50kV) Generator

Please see separate datasheets for generator specifications etc.

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