

STATICBOND

SBCB3 / SBCB5 CHARGING BARS

The new StaticBond 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 (0.4") 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(157.5").
- > Easy installation - plastic mountings which slide in the "T" slot at the base of the Bar are supplied.
- > Flexible cable in protective nylon conduit.
- > Optional 5mm (.20") emitter spacing available



Specification

Construction:	Extruded FR-ABS with ABS end caps, epoxy resin. Tungsten emitters at 10mm(0.4") pitch.
Length:	Available from 60mm(2.36") to 4000mm(157.5") overall length. Cross section: 69mm(2.71") high x 20mm(0.78") wide. Effective length is 70mm(2.75") less than overall length.
Cable:	2m(78") HT cable is standard. Cable rated at 60kV. Longer lengths available. Cable terminates in HV plug suitable for SB-30A or similar 30kV Charging Power Supply. Flexible protective nylon conduit over cable.
Conditions:	60°C (140°F) maximum temperature. Maximum humidity 70%rH non-condensing. Must be kept dry and clean.
Safety:	Model SBCB3/SBCB5 -170MΩ 50kV resistors for safe operation.



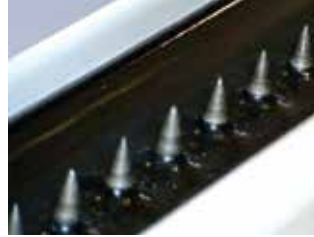
Two Versions

Standard Models:

- > Model SBCB3 - with connectors for SB-30A or similar Charging Power Supply, 30kV output .
- > Model SBCB5 - with connectors for Charging Power Supply, 50kV output.

Optional Models:

- > Model SBCB3-T5 and SBCB5-T5 - with emitters spaced at 5mm(0.20") pitch and connections as standard model.



T5 Electrodes

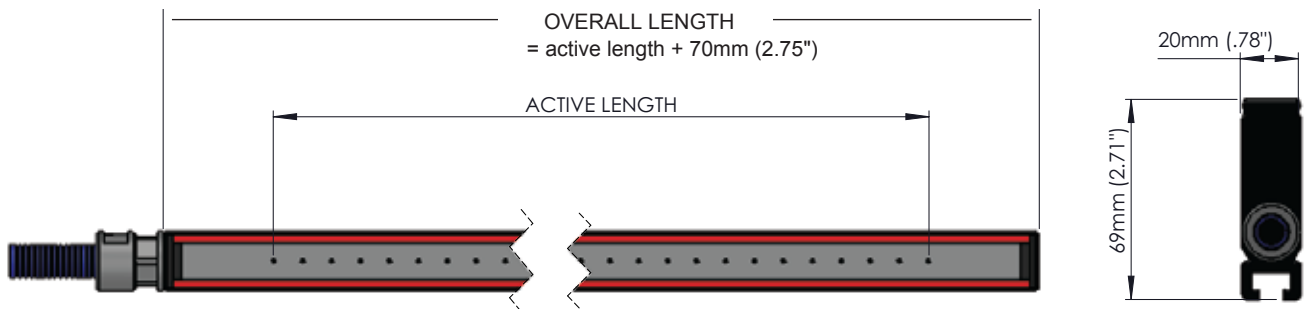
How it works

The system consists of a Static Generator and one or more Charging Bars. The Generator produces direct current at up to 30kV. 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



StaticBond Charging Power Supply & Additional Charging Applicators



SB-30A (30kV) Charging Power Supply

Please see separate datasheets for charging equipment specifications etc.



FastTack Charging Applicator

Talon Charging Applicator

