7130 / 7150 / 7160 GENERATOR BARS

The 7130/7150/7160 Generator Bars are charging electrodes which provide a safe, controllable, reliable and cost-effective method of applying static charge for temporary adhesion in industry.

Robust static generation bars to meet the temporary adhesion requirements of high performance machinery.

PERFORMANCE

- The 7160 is the most popular Fraser static generator bar. It is the standard bar for use with IONFIX™ generators and can be used at voltages up to 60 kV.
- The 7130 and 7150 bars have connectors for older 30 / 50 kV generators.

ESSENTIAL QUALITIES

- Robust. All parts completely encapsulated for reliability and safety.
- Individually resistively coupled tungsten emitters for a long, reliable life. 10 mm emitter pitch for even charge application. Also available at 5 mm pitch (T5).
- Cable protected with flexible nylon conduit. Cable exit 180° or 90°.

CONNECTIVITY AND CONTROL

- Used with Fraser IONFIX 30 kV and 60 kV Generators, the operator has full control and operational feedback.

APPLICATIONS

- Wide range of electrostatic adhesion applications – interleaving, pinning, laminate worktops, labelling, in-mould labelling, wrapping, chill rollers, bagmaking.



SPECIFICATION

Construction:
Extruded FR-ABS with ABS endcaps, epoxy resin encapsulant. Tungsten emitters at 10 mm pitch.

Cable:
2 m of 60 kV cable. Longer lengths can be specified at time of order.
Cable terminates in HV connector. Protective nylon conduit on cable.
Minimum bend diameter 100 mm.

Safety:
170 Mohm resistance for safe operation.

Environmental:
Clean, dry and oil-free location.
Temperature: 0 - 60 °C, 70 % rH non-condensing max.

Generator:
7130 for 30 kV generators.
7150 for 50 kV generators.
7160 for all IONFIX generators.
State generator model at time of order.

Certification:
CE.

Options:
7130-/50-/60-T5: Tungsten emitters at 5 mm pitch, 400 Mohm resistance.
Emitter Mask (Part No. 715003) to cover live emitter pins where they are not needed - see separate Datasheet. 1 m length to cut as required.
90° cable outlet.

FRASER Anti-Static Techniques

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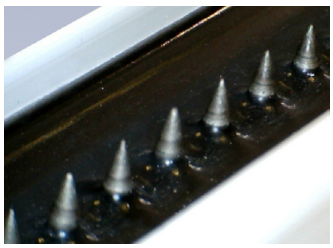
TWO TYPES

Standard Models (10 mm emitter pitch)

Cable terminates in HV Plug as follows:

- 7130 for 30 kV Generators (73150).
- 7150 for 50 kV Generators (75150).
- 7160 for all IONFIX Generators.

Customer should specify Generator type when ordering.



T5 Electrodes

Optional Models (5mm emitter pitch)

- Model 7130-T5, 7150-T5 and 7160-T5 - with emitters spaced at 5mm pitch and connections as standard model.

HOW IT WORKS

The system consists of a Static Generator and one or more Generator Bar. The Generator produces direct current at up to 60 kV. The bar emits this current in the form of an ion cloud to produce temporary adhesion or static charging. Contact factory to discuss particular application.

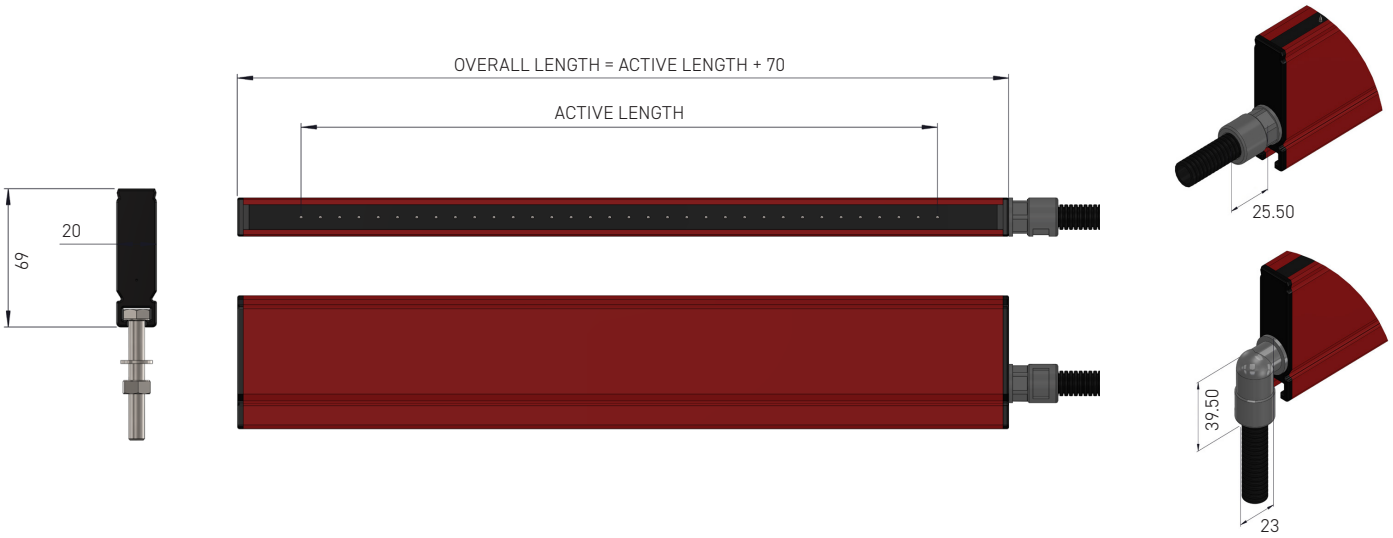
Materials passing through this ion cloud become charged at the same polarity as the Generator on the side of the bar.

Please see separate datasheets for Generator specifications.

DIMENSIONS AND CONSTRUCTION

Dimensions: 20 mm x 69 mm (WxH).

Available lengths: Minimum 200 mm, then in 100 mm steps to 4000 mm. Active length is 70 mm less than overall length. A 60 mm option is available for specialist applications.



MOUNTING

Bars up to 500 mm have 2 x M8 60 mm nylon setscrews and fixings, plus 1 extra set for every additional 500 mm.