manual

Meech

MODEL 995R

Pinning Head

4p2r
8p2r
12p2r

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995R Pinning Head

Content:

Introduction

The 995R range of Pinning Heads has been designed for use with all Meech static generators. All can be operated at upto 50kV and being resistively coupled are near shockless in normal operation.

Unpacking and Inspection

Your Pinning Head was carefully packed at the factory in a container designed to protect it from accidental damage. Nevertheless, we recommend careful examination of the carton and contents for any damage. If damage is evident, do not destroy the carton or packing material and immediately notify the carrier of a possible damage claim. Shipping claims must be made by the consignee to the delivering carrier.

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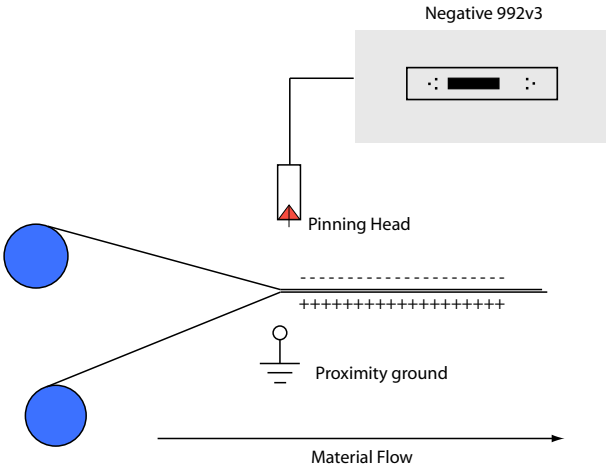
Operation

A typical charging system comprises one or more Pinning Heads connected to a Meech static generator (Model 990/992v3).

The static generator converts the primary electricity supply into a high voltage DC output. The Pinning Heads are connected to this output by means of a 50kV rated EHT cable.

The resistively coupled electrodes of the Pinning Head are energised by the high voltage DC supplied by the generator. The electrodes emit this energy in the form of a corona discharge. This electrical discharge creates an ion stream of a single polarity (defined by the type of static generator from which it is operating). Non-conductive materials passing through the ion stream, between the emitters of the head and a grounded plate, take on the same electrical charge and adhere to the ground plate (see below).



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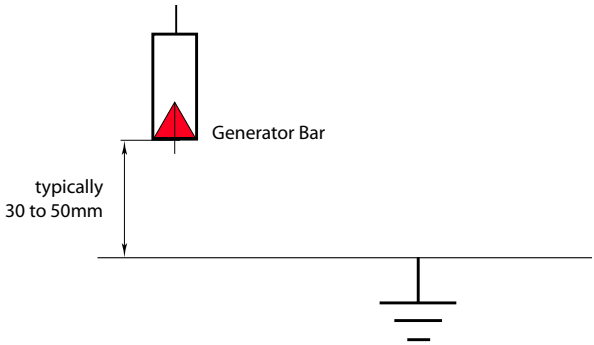
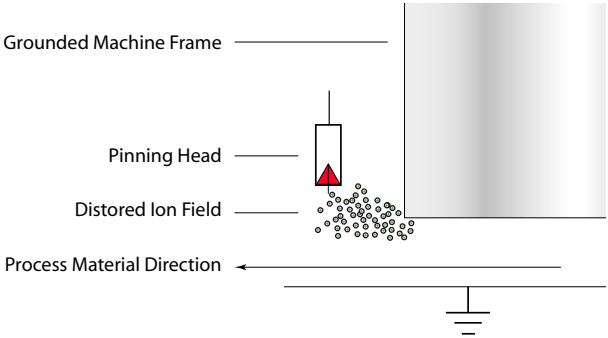
Installation

Correct positioning of the Pinning Head is vital for efficient operation.

The Pinning Head should be positioned directly opposite an earthed point/ plate. Non-conductive materials passing between the Pinning Head and earth will be pinned together. The Pinning Head should typically be positioned 30 to 50mm away from the nearest earthed object but this is subject to set up conditions. If the generator 'trips' the Pinning Head has been positioned too close to ground reference.



The Pinning Head should be positioned away from any other ground reference point. These may disrupt the ion stream and reduce the effectiveness of the Pinning Head and the degree of pinning achieved on the process material.



Installation " Caution" Notes

Whilst no danger to personnel exists, it is essential that any high voltage ionising equipment makes no contact with water or water based fluids. High voltage electrical equipment should not make contact with water.

Should such an event occur, disconnect immediately and return equipment to the manufacturer for inspection.

If the Pinning Head is positioned too close to the earth point, an intense blue haze will be seen between the emitter pin of the Pinning Head and the earth point. This will cause the static generator to trip and switch off. The Pinning Head should be repositioned further away from any earth point and the static generator reset (depress and release the reset button).

! The High voltage system must be disconnected from the mains electrical supply before any adjustments to the position of the Pinning Head are made.

If the unit continues to trip then consult with the manufacturer.

As this equipment may give an electrical shock if the pins are touched, the following procedure must be followed:

The supply voltage of the static generator must be interlocked with the ON/OFF control of the machine to which the equipment is fitted.
This will ensure that whilst the machine is switched off and operatives may gain access to the machine and our equipment there will be no danger of operatives receiving shocks.

It is assumed that normal safety barriers are in place on the machine to ensure that operatives are unable to access the machine and hence our equipment whilst the machine is switched ON.

For permanently connected equipment a readily accessible disconnect device shall be incorporated in the fixed wiring. This disconnect device must have a minimum 3mm contact separation with appropriate current rating. For equipment fitted with a plag, the socket outlet shall be installed near the equipment and shall be easily accessible.

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Technical

	4P2R	8P2R	12P2R
Operating Voltage	50kV D.C.		
Operating Current	0.25mA (stabilised)		
Operating Polarity	Either +VE or -VE		
Max Temperature	60°C		
Weight	410 gms	460 gms	510 gms
Cable	2 metres of EHT cable in flexible plastic conduit as standard, longer lengths can be specified when ordering.		
Construction	PTFE extrusion, titanium emitter pins		
Dimensions (mm)	30x50x70	30x50x106	30x50x140
Suitable Power Supply	Meech Model 990 or 992v3		

Maintenance

The only maintenance required is that the Pinning Head should be cleaned regularly to keep it free from dust and other contaminants.

The Pinning Head will tend, over time, to carbonise dust in the air. To ensure maximum life and effectiveness of the unit we strongly recommend that the Pinning Heads are brushed clean on a weekly basis. A firm tooth brush, or similar, is adequate for this purpose.

! The Pinning Head Should not be Washed Down.

Repairs And Warranty

Your Pinning Head is warranted by Meech Static Eliminators Ltd to the original purchaser against defects in material and workmanship for one year after purchase. Should any malfunction occur, please return the bar directly to Meech Static Eliminators or your local agent. All products returned to the factory MUST be accompanied by a return authorisation number and must be shipped prepaid. For prompt service, ship the unit to the factory with the return authorisation number shown clearly on the label. Be sure it is well packed in a sturdy carton with shock absorbing material.

Include a note stating the nature of the problem as specifically as possible, and also include instructions for returning the bar to you. We will pay one-way return surface shipping costs on any repairs covered under the warranty.

Field repairs should not be undertaken during the warranty period. Repair attempts by unqualified personnel will invalidate the warranty.

CE Approval

An EC declaration of conformity for this product exists in respect of the Low Voltage Directive: 72/23/EEC (“LVD”) & Electromagnetic Compatibility Directive: 89/336/EEC (“EMCD”)

CE

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