HAUG Ionization for the application of electrostatic charges

HAUG charging systems

to be attached to each other electrostatically.

· one or more connected charging triodes.

HAUG charging systems are intended for contact-free

application of electrostatic charges. They are used wherever

HAUG charging systems include the following components:

different materials (at least one of which must be insulating) are

· a charging generator with adjustable direct high voltage and







<u>(</u>3)

ill. 2

mm ₹ 1 Positive or negative voltage Positive or negative voltage 2 Electric field 3 Isolator (e.g. foil) Electric field ③ Isolator (e.g. foil) ã ۹ Counter electrode Counter electrode (e.g. earthed metal plate) Intake electrodes (e.g. earthed metal plate) 6 Industries Plastic processing: packaging machines, foil extruders, foil processing equipment Graphics: advanced print processing Glas making: flat glass production Electronics: data carrier production

ill. 3 20 ۲ |earthed counter electrode ristat product triode

HAUG Tristat TR 15 / TR 25

The HAUG charging generators Tristat TR 15 / TR 25 are high-voltage generators developed specifically for the supply of HAUG charging triodes type ALT, ALM and ANT. The charging triode is placed at a distance of approx. 10 - 20 mm above the material to be charged, directly opposite the counter electrode. The eathed counter electrode must be in contact with the material to be charged.

In order to achieve a continuous, operationally reliable "adhesion" of the two materials, it is important to discharge the materials to be pinned to each other before charging using a suitable HAUG ionization system (ill. 3).

Charging triode ALT



Particular characteristics TR 15/TR 25

The charging generators Tristat TR 15 / TR 25 suply an adjustable high-voltage of approx. 22 kVpc. The units are available in either positive or negative polarity. In case of the TR 25, the voltage set is displayed on the integrated measuring instrument. The high-voltage can be steplessly adjusted on a potentiometer. The Tristat TR 15 / TR 25 charging generators can be pulsed using an external control.

Particular characteristics charging triode (types ALT, ALM, ANT)

HAUG charging electrodes are characterized by a very homogenous field at the charging pins. As a result of the special geometric design of the charging electrode, spark-overs to the counter electrode are impossible. The charging electrode can therefore be mounted at a distance of as little as approx. 10 mm from the material to be charged. The charging electrode provides a very high charge even at low voltages and thus ensures very good adhesion.

Due to their simple design using magnetic clamps, worn charging pins can be easily exchanged. The charging triode is connected using a shielded high-voltage cable.

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Characteristics	TR 15	TR 25
Fixed pulse cable	٠	_
Pulse socket	-	•
Pulse operation via floating normally open contact	•	•
High-voltage display	-	•

Comparison TR 15 / TR 25

Types	TR	15	/ TR	25
IJPCS			/ • •	20

TR 15 TR 15 TR 15 TR 15 TR 15	(230 V), positive (115 V), positive (230 V), negative (115 V), negative	Order-No.: 09.7640.000 Order-No.: 09.7641.000 Order-No.: 09.7642.000 Order-No.: 09.7643.000
TR 25 TR 25 TR 25 TR 25 TR 25	(230 V), positive (115 V), positive (230 V), negative (115 V), negative	Order-No.: 09.7650.000 Order-No.: 09.7651.000 Order-No.: 09.7652.000 Order-No.: 09.7653.000

Accessories TR 25

 150 ± 2

Signalling cable K1, shielded	
5 m, incl. round plug	Order-No.: 06.8941.000
10 m, incl. round plug	Order-No.: 06.8941.001
20 m, incl. round plug	Order-No.: 06.8941.002
Round plug	Order-No.: X-0616
Anglea plug	Urder-INO.: X-5/18



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Tristat TR

25

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Tristat

Technical data Tristat TR 15

Type of protection:	IP 54	
Protection class:	1	
Supply voltage:	115 V _ / 230 V _ (50 - 60 Hz)	
Rated output voltag	e: approx. 22 kV _{pc}	
Short circuit output	current: $I_{k} = 3 \text{ mA}$	
HV-terminals:	1	
Power input:	approx. 15 VA	
Pulse frequency:	1 Hz, pulse via floating normally open contact	
Operating temperation	ture: +5 °C to +45 °C	
Storage/transport temperature: -15 °C to +60 °C		
Weight:	7 kg	
Mains cable:	2,6 m, fixed to the device	
	Subject to technical changes!	

Technical data Tristat TR 25

Type of protection: IP 54 Protection class: I Supply voltage: 115 V / 230 V (50 - 60 Hz) approx. 22 kV_{DC} Rated output voltage: Short circuit output current: $I_{k} = 3 \text{ mA}$ HV-terminals: 1 Power input: approx. 15 VA Pulse frequency: 1 Hz, pulse via floating normally open contact Operating temperature: +5 °C to +45 °C Storage/transport temperature: -15 °C to +60 °C Weight: 7 kg Mains cable: 2,6 m, fixed to the device Subject to technical changes!

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Tristat TR

Tristat TR 25



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