HAUG Ionization for the application of electrostatic charges



HAUG charging systems

Charging systems are designed to apply electrostatic charges without physical contact. These systems can be used for any application where different materials are to be pinned together electrostatically. At least one of these materials must be nonconductive. The electrostatic pinning serves to enhance subsequent processes, such as film/foil overlapping in packaging machines.

Applications

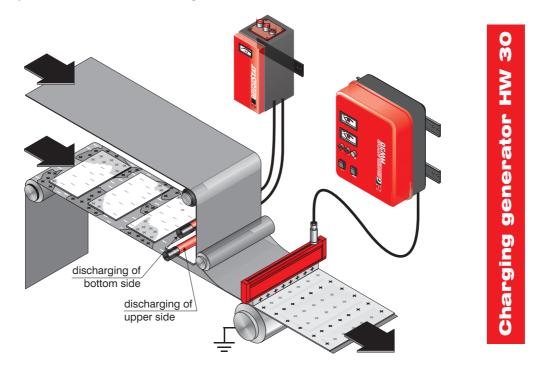
HAUG charging systems can be used for

- the pinning and positioning of film/foil, paper, and cardboard on different materials such as sheet steel, glass panes, wood sheets, and similar;
- the pinning of film/foil in packaging machines or in film/foil sealing machines;
- the pinning of film/foil in reversing winding systems, the pinning of film/foil reels in order to prevent the telescope effect, and the pinning of film/foil onto the cardboard tube, without any adhesive, at the start of film winding.



HW 30





HW 30 charging generator

The **HW 30** charging generator is a high-voltage unit that is used together with the resistance-coupled HAUG charging electrode **ALW** and a suitable counter-electrode. The charging electrode must be mounted at 10 to 30 mm above the material to be charged, exactly opposite the counter-electrode. When an earthed counter-electrode is used, it must be in contact with the material to be charged.

In order to obtain a constant and reliable charging, we strongly recommend that the materials, which are to be pinned together, be neutralized by means of an appropriate HAUG ionizing system before the charging process (ill. 1).

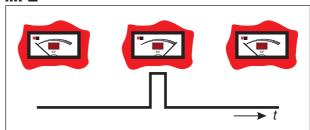
Special features and advantages

The **HW 30** charging generator generates an adjustable high voltage up to 40 kV $_{\rm pc}$. The device is available with either positive or negative polarity. Integrated measuring instruments show the voltage and the actual flowing current. High voltage and current threshold can be set with two different potentiometers. In the event that the flowing current exceeds the preset limit, an error signal is received and the high voltage is switched off. The **HW 30** charging generator can be set up for intermittent

The **HW 30** charging generator can be set up for intermittent service by means of an external control (ill. 2).

An external signalling unit can be activated through the integrated signal connection.

ill. 2



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30

generator HW

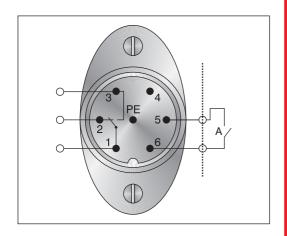
Charging

Accessories

Signalling cable K1, shielded

Order-No.: 06.8941.000 5 m, incl. round plug 10 m, incl. round plug Order-No.: 06.8941.001 20 m, incl. round plug Order-No.: 06.8941.002 Order-No.: X-0616 Round plug Angle plug Order-No.: X-5718

Please refer to the special leaflet for the choice of the appropriate resistance-coupled charging electrode ALW.



	operating status		contacts closed
normal	mains voltage	high voltage	1 and 3
mode	ok	ok	
internal	mains voltage	high voltage	1 and 2
failure	ok	failure	
external failure	mains voltage failure	not defined	1 and 2

Technical data HW 30

HW 30 (230 V), positive Order-No.: 09.7910.000 Types: Order-No.: 09.7911.000 HW 30 (115 V), positive HW 30 (230 V), negative Order-No.: 09.7912.000 HW 30 (115 V), negative Order-No.: 09.7913.000

with analog display

HW 30 (230 V), positive Order-No.: 09.7920.000 **HW 30** (115 V), positive Order-No.: 09.7921.000 HW 30 (230 V), negative Order-No.: 09.7922.000 **HW 30** (115 V), negative Order-No.: 09.7923.000

with anlog/digital display

Type of protection: IP 54 Protection class:

Supply voltage: $115 \, V_{AC} / 230 \, V_{AC} (50 - 60 \, Hz)$ Power consumption: approx. 60 VA Rated output voltage: approx. 40 kV_{DC}

Output short-circuit current: $I_k \le 4.5 \text{ mA}$

HV-terminals:

1 Hz, via floating normally open contact Pulse frequency:

Operating temperature: +5 °C to +45 °C

Storage/transport temperature: -15 °C to +60 °C

Weight: 13 kg

Mains cable: 2.6 m, fixed to the device

Subject to technical changes!



