

# HAUG Ionization - for the application of electrostatic charges



## HAUG charging systems

HAUG charging systems are intended for the contact-free application of electrostatic charges. These systems are used wherever different materials need to be fixed to one another electrostatically.

At least one of these materials must be insulating. This electrostatic fixation is intended to support downstream processes such as the film overlap in packaging machines.

## Applications

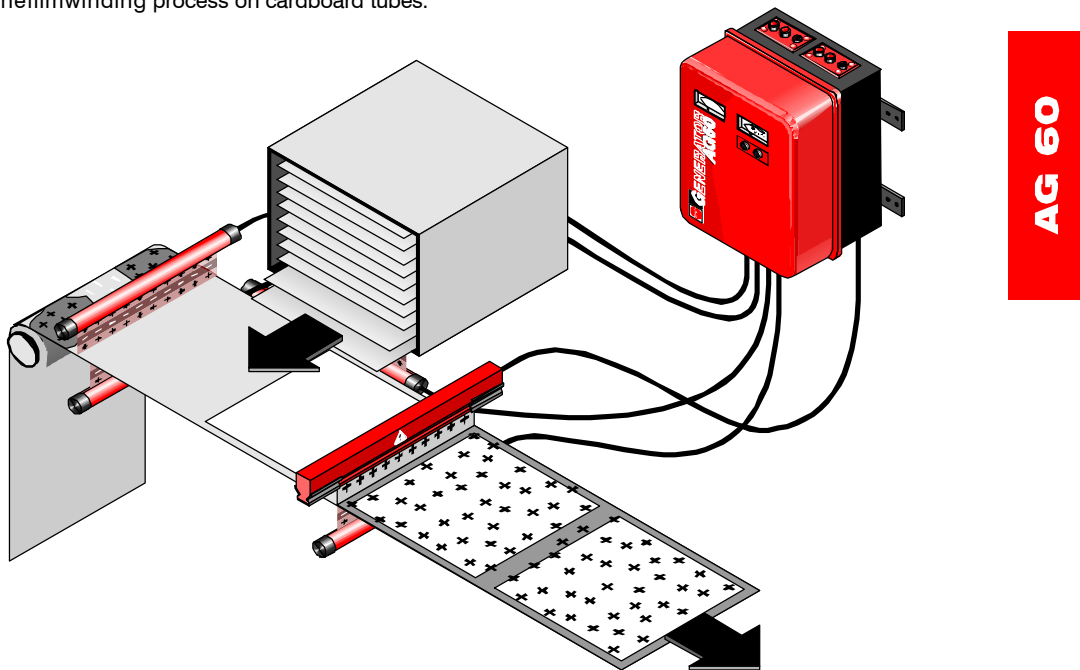
HAUG charging systems can be used, among others, in the following applications:

- for fixing and positioning films and foils, paper and cardboard, e.g. on steel sheets, glass panels, wood panels or similar;
- for fixing films and foils on packaging machines/film welding machines;
- for fixing films and foils on turret film winders, for fixing the wound film against telescoping and glue-less commencement of the film winding process on cardboard tubes.



AG 60

iii. 1



## Charing generator AG 60

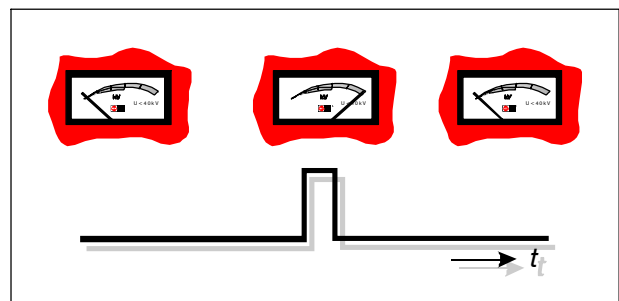
The charging generator AG 60 is a high-voltage generator which is used in combination with HAUG charging electrodes and a suitable counter-electrode. The charging electrode must be attached at a distance of 10–20 mm above the material to be charged, exactly opposite the counter-electrode. Where a grounded counter-electrode is used, this counter-electrode must make contact with the material to be charged.

In order to achieve a continuous, controlled charge, we strongly recommend that before charging the materials to be fixed to one another be discharged using a suitable HAUG ionization system.

## Special properties and benefits

The charging generator AG 60 generates an adjustable high voltage of up to 40 kV<sub>DC</sub>. The unit is available with positive and negative polarity. The voltage and the actual current are indicated on the integrated measuring instruments. The high voltage and the current threshold can be set using two separate potentiometers. If the actual current exceeds the set value, an error message is triggered and the high voltage is switched off. The charging section of the charging generator AG 60 can be pulsed externally. The discharging section allows a signalling device to be controlled using the integrated signalling socket.

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Charge Line - Charging generator AG 60





## Accessories

### 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

### Angled plug

Order-No.: X-5718

## Technical data AG 60

Types:	<b>AG60</b> (230 V), positiv	Order-No.:09.7660.300
	<b>AG60</b> (115 V), positiv	Order-No.:09.7661.300
	<b>AG60</b> (230 V), negativ	Order-No.:09.7662.300
	<b>AG60</b> (115 V), negativ	Order-No.:09.7663.300

Dimensions(LxWxH): 390x280x210 mm

Protection type: IP54

Protection class: I

Supply voltage: 115V<sub>~</sub> / 230 V<sub>~</sub> (50 – 60Hz)

HV-terminals charging: 2

HV-terminals discharging: 4

Power consumption: approx. 140VA

Output voltage

Charging: approx. 40 kV<sub>DC</sub>  
Discharging: approx. 7 – 8 kV<sub>AC</sub>

Output short-circuit current

Charging:  $I_k \leq 4.5 \text{ mA}$   
Discharging:  $I_k \leq 5 \text{ mA}$

Signallingcontacts Loadrating  
monitoring: 24 V<sub>AC</sub> / 35 V<sub>DC</sub>; max. 50mA

Connectablelength 18 m  
(Discharging): (ionizingunitincl.HV-cable)

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

Storage/transporttemperature: -15 °C to +60 °C

Weight: 16 kg

Mains cable: 2.6 m;fixedtothedevic

Subjecttotechnicalchanges!

## Charging generator AG 60

