

Electrostatic charging / pinning system

iONtacker REMOTE

20/30/40kV

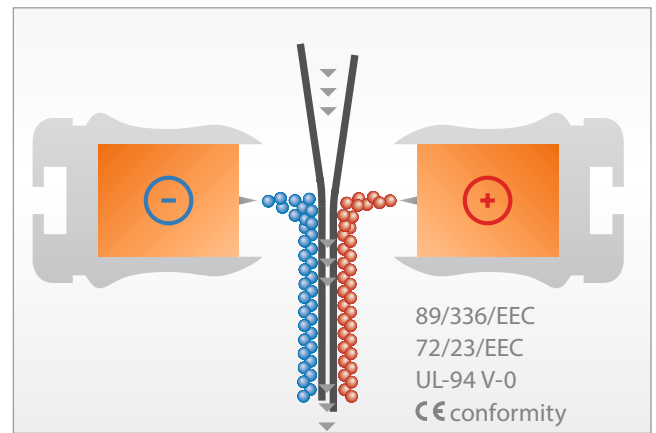


Electrostatic charging system

System description

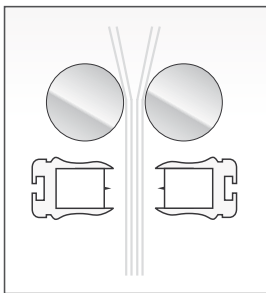
The **iONtacker REMOTE** is a heavy duty, industrial quality, high performance electrostatic charging system. It provides efficient static charge at a very cost effective price. Its main features are the 24V DC power supply and the smallest possible charging bar dimensions which will allow easy integration even in the narrowest space and difficult applications. The system utilises the latest high voltage decoupling technology with resistors located in front of each high voltage emitter point. A 5mm pin pitch makes **iONtacker REMOTE** a class leading system. Our unique Tungsten Steel "Long Life" emitter pins increase the life time of the emitter points and guarantees a constant high performance during its full life cycle. These emitter pins generate ions to produce a contactless charge on the substrate surface and as a result generate the so called "**electrostatic gluing effect**". The charging bars are connected by a flexible high voltage cable to the high voltage

power units are available with different power outputs and high voltage classes in order to meet the exact applications requirements. System parameters and settings can be adjusted either locally or remotely.

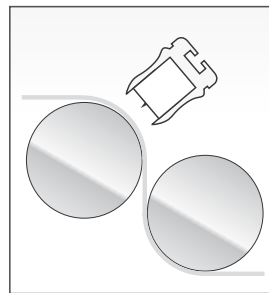


Charging system principle of operation

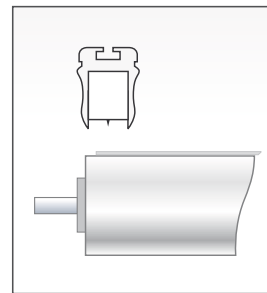
Typical applications:



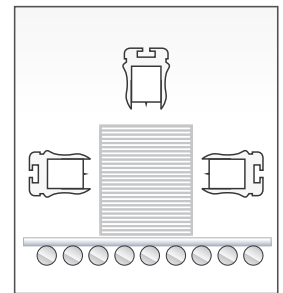
Ribbon tacking



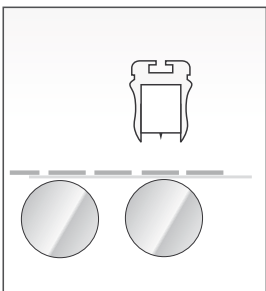
Chill-Roll tacking



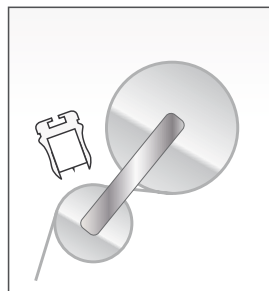
Edge pinning



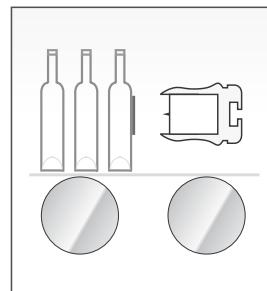
Stack tacking



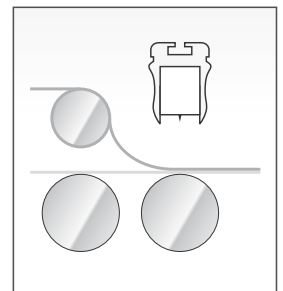
Bonding



Reel change



In mould labeling

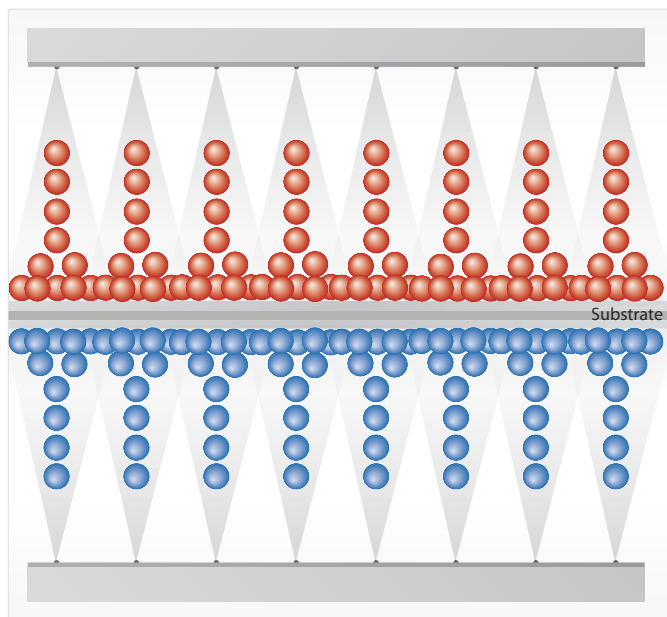


Laminating

Technology

The **iONtacker REMOTE** charging system is designed to apply electrostatic charges to an insulating substrate surface. In order to charge the substrate a suitable opposite field polarity is essential. If this opposite polarity cannot be ensured via a machine metal/ground an opposite polarity charging electrode must be installed. The charging bar itself needs to be installed at a defined distance to the substrate surface depending on its use and application. The substrate will pass in between the two electrode polarities. Due to the high voltage generated at the emitter pins, the ions generated settle on the insulating substrate surface. They try to recombine with the opposite charge ion on the other substrate side and therefore generate, due to the insulation of the substrate in between, an electrostatic bonding.

The pin material and shape are optimized to achieve the longest possible life time and the most efficient ion emission for the complete life cycle of the electrode.



Ion flow

Options:

- 0~20kV / 0~30kV / 0~40kV
- Positive or negative output voltage
- Voltage or current regulated
- Short circuit proof electrode design

Our experienced application engineers can assess your machine and advise on how to effectively install the **iONtacker REMOTE** into your production process to achieve the best possible electrostatic bonding.

iONtacker REMOTE System advantages

Application:

- Smallest possible electrode profile dimensions
- 5 mm pin pitch for maximum ion emission / bonding force
- Tungsten „Longlife“ pin material
- 24V DC supply voltage, local and remote parameter settings

Economical:

- Increased productivity and quality
- Extended electrode life time

Safety:

- External Enable / Disable to control high the voltage output
- „Touch proof“ due to current limitation

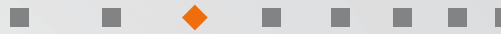
Ecological:

- Used power according application
- Lowest energy consumption in its class





Gema Switzerland GmbH
Mövenstrasse 17
CH-9015 St.Gallen



hildebrand
TECHNOLOGY
a Gema division

Fon +41 71 313 83 00
Fax +41 71 313 83 83

info@hildebrand-technology.com
www.hildebrand-technology.com

Surface Dust Removal • Electrostatic Neutralising • Electrostatic Charging • Measurement Systems

