Good2know that… … the difference between tribo and corona spraying systems. Understanding the differences between corona and tribo charging, assists in deciding which technology is best for an application.
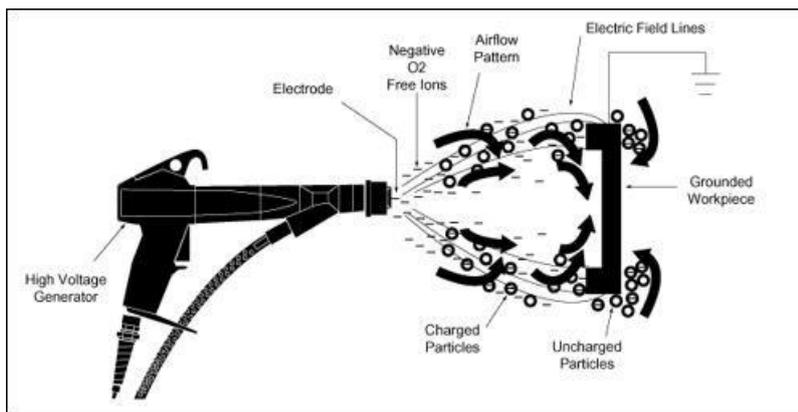

CORONA GUNS:

In corona charging, a high voltage potential is developed at an electrode located in or near the powder stream. The powder particles become negatively charged and are attracted to the grounded substrate.

Corona guns:

- are very successful in achieving a consistent film build especially with thin film thicknesses, thanks to consistent charging
- finishing problems such as orange peel & back ionization are possible because of the high electrostatic charge
- powder output per gun can easily be adapted
- ability to adapt to conveyor line speed (both low and high speeds) with the same amount of guns, as powder output per gun can easily be adapted
- compatible with most powder coating types

TRIBO:
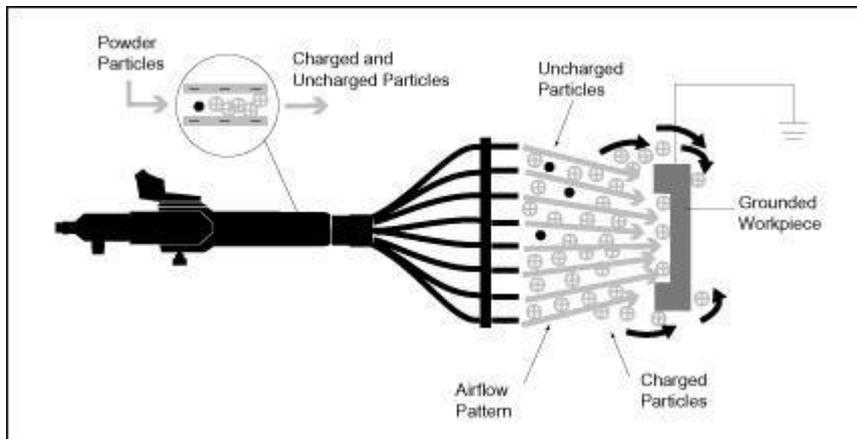
When tribo spraying, contact between the gun and the powder particles causes friction. The powder coating gun is internally covered with a negatively charged material (eg. Teflon) that positively charges the powder particles and has them release their positively charged energy.

Tribo guns:

- easier to use in case of higher layer thickness needed. No back ionization or orange peel (because there is no electrostatic field)
- operate at lower powder output
- more guns needed to obtain the same result of corona spraying at high speed conveyor lines, due to the gun operating only at a low(er) powder output
- only a limited range of powders can be used for tribo spraying
- specially designed for complicated part forms (edges, corners, …) (see: the effect of Faraday cage)
- advantage in gun cleaning

In every step of your search for the best way of spraying, we can assist. We are avaible for you at:

Direct help: **+32 9 326 79 30** (Europe)
               +1-800-361-9364 (North America)