

# IONIZATION MODULAR DEVICE

**The device is useful to neutralize electrostatic charges which develop in particular environmental conditions on some plastic processed materials.**

**The pad when in contact with the part to be printed can accumulate static electricity attracting dust and dirt thus compromising repetitiveness and print quality.**

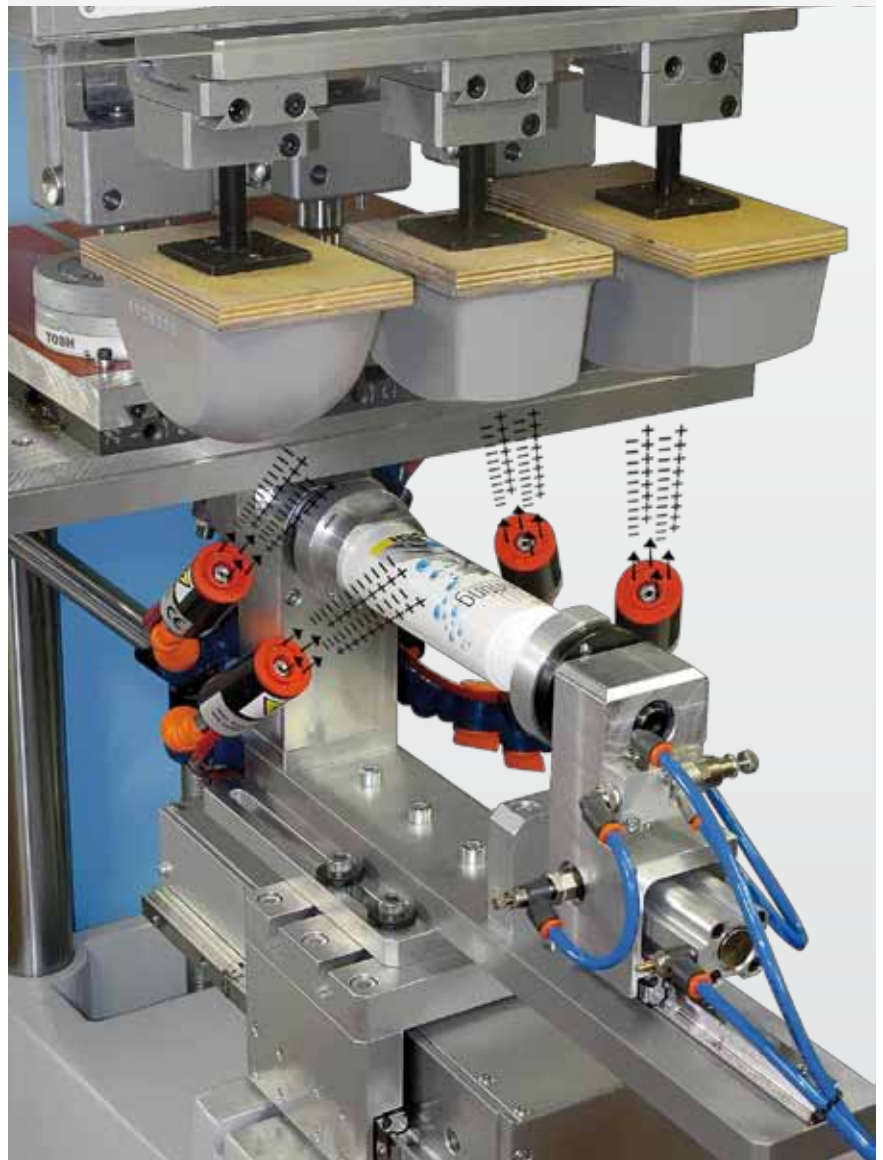
In order to solve the problem **Tosh** has created a device to air ionizing, to neutralize any problem caused by the presence of static electricity.

The ionizing nozzles can be oriented to the pad or to the part to be printed. They are connected to compressed air or turbo-blower. In the last case they can be also used for the pre-drying of the ink on the pad.

The device, being modular, can best be combined according to the specific needs.

**The main components are:**

- Feeder Mod. CND/A
- Safe touch Ionizing nozzles CFN/AC with protection sheath
- Modular element for nozzles support (3 nozzles for single element)
- Junction box Mod. CND/SD (from 4 nozzles up)
- Turbo-blower (different power) with air flow regulator and hose N90



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## THE STATIC ELECTRICITY

All materials have positive charges (protons) and negative charges (electrons) that, if they are present in the same amount do not determine any phenomenon of electrostatic charges. If two non-conductive materials are rubbed together (for example when the pad is in contact with the object), when they are separated, it happens that one transfers the other a certain amount of electrons; this addition results in an increase of negative charges; viceversa, on the surface of the material that has released electrons, the positive charges will be higher. Electrostatic charges are the result of this imbalance between protons and electrons.

### Main components:

#### Feeder Mod. CND/A

Designed for ionizing nozzles type CNF/AC  
 Dimension: 190x100x320 (h) mm  
 Output voltage : 7/8 Kv  
 Power : 60 VA  
 Power supply : 230 V -single phase 50-60 Hz



Mod. CND/A

#### KIT FOR IONIZING NOZZLE

- n. 1 ionizing nozzle type CNF/AC, safe touch supplied with AT cable (2 mt.)
- n. 1 threaded connection 1/8 "
- n. 1 coupling
- n. 1 reduction
- n. 12 segments
- n. 1 air flow regulator
- n. 1 threaded connection 3/8 "
- total length: 460 mm



#### SUPPORT FOR IONIZING NOZZLES

- n. 1 support for 3 nozzles
- n. 1 end cap
- n. 1 connection with seal ring
- n. 1 fixing unit
- total length: 210 mm



#### JUNCTION BOX Mod. CND/SD

With more than 4 nozzles it is necessary the junction box (up to 10 outlets).

#### TURBOBLOWER TYPE K3 (0,37 Kw)

complete with hose N90 (4mt),  
 filter, manifold, control box  
 and air control valve.  
 Power supply:  
 230 V - 50Hz - single phase



#### TURBOBLOWER TYPE K4 (1,1 Kw)

complete with hose N90 (4mt),  
 filter, manifold, control box  
 and air control valve.  
 Power supply:  
 230 V - 50Hz - single phase



#### TWO-WAY CONNECTOR (for K3 & K4)

Complete with hose N90 (4mt.)  
 and air control valve.



#### SOUNDPROOF CABIN

For turboblower mod. K3 and K4  
 equipped with air suction fan.



BECAUSE OF CONTINUOUS IMPROVEMENT, WE RESERVE THE RIGHT TO CHANGE SPECIFICATION, DESIGN MATERIALS WITHOUT NOTICE.

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