

35

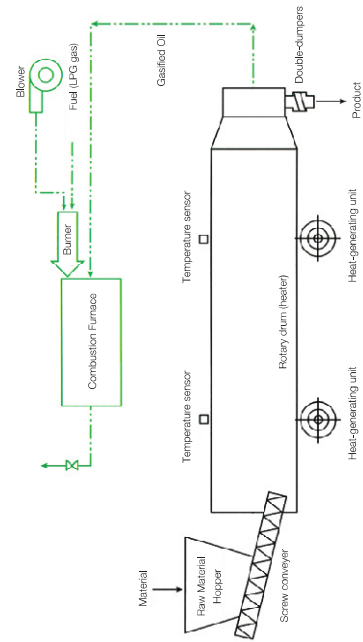
Rotary Kiln Dryer (Heater) Model: ECDD

The rotary kiln dryer combines an age-old theory with the most advanced technology and materials, based on NMI's state-of-the-art expertise. The result is an innovative thermal-energy generator for the 21st century.

Features

1. The unit does not generate CO₂, a contributor to global warming.
2. The magnetic force permeates the insulation material and causes the metal drum to generate heat, thus producing an exceptionally high thermal efficiency.
3. The drum generates heat on its own, so no noise or dust is released into the environment.

4. The temperatures can easily be controlled at specific levels.
5. A simple and maintenance-free structure
6. No burning process is involved, thus easy to pass the city regulation.



36

Electrostatic Corona Separator Model: ESC

Dry Material

Electrostatic corona separators are mainly used for the separation of metals and non-metals. For example, they are used to separate copper wires and shredding from cable scraps, or separate electronic component scraps into metals and non-metals.

Usage

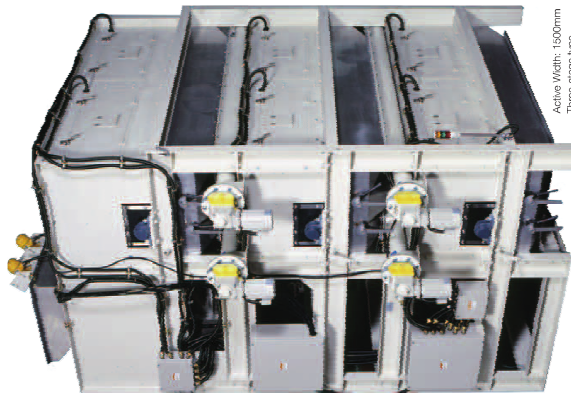
1. Recovery of copper and aluminum from shredded materials.
2. Recovery of aluminum and copper from minerals.
3. Separation of zirconium, rutile, limonite, tungsten, etc., from minerals.
4. Separation of resins and laminate metals.

Condition of use

1. Applicable grain size of 0.1 to 5 mm.
2. Since humidity affects the separation efficiency to a considerable degree, generally the ESCI should be used on dry materials at an ambient humidity of 50% or less.

Principle of Separator Operation

Raw materials are fed evenly to the rotating drum connected to the earth ground. The raw materials then pass the electrostatic corona electrode to electric field to be charged. After electro charged, loose their charge based on their conductivity. Good conductive material separate from the drum quickly, while poor conductive materials remain attached to the drum's surface until rubber scrapers peel it off. Multiple stacks of separators will increase the effectiveness.



Active Width: 1500mm
Three-stage Type

Made it possible to separate the fine-grained metals and non-metals!

Principle of Separator Operation

