

ORBIS

MACHINERY, LLC



CONE TUMBLE DRYER

Tumble drying of materials is accomplished by heating the walls of a jacketed, slow rotating double cone shaped vessel while applying vacuum. By applying Vacuum, the boiling point of the liquid component(s) is lowered, while constant particle contact with the vessel walls provides uniform drying action. Revolving Dryers rotate at low speeds (3 to 12 RPM, depending on the capacity of the Dryer).

The heating jackets can be supplied for operation at 100° to 500° F. As a standard, all our hot oil or steam jackets include high temperature insulation covered by a watertight insulation shroud. Heating of the jacket is commonly accomplished using hot oil, but other heating sources such as steam or electric blankets, may also be used. Using oil as the heating medium, allows for faster cooling of the product after the material has been dried, for faster and safer unloading and handling.

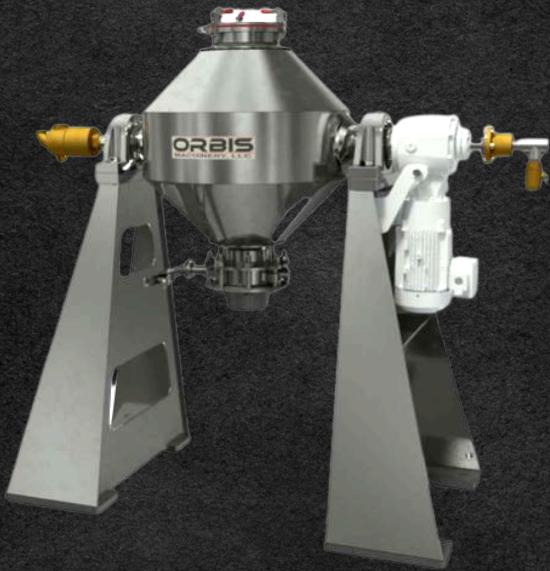
With a smooth internal finish, complete discharge and elimination of cross batch contamination are realized. Orbis Machinery Cone Tumble Dryers (CTD) can be designed for up to 500° F jacket temperatures and high vacuum. For superior drying, mixing and ease of cleaning the Orbis Machinery CTD is the dryer of choice.

Design

Two cones are welded to a cylindrical center section providing a gentle, low shear, tumble action of the product. Orbis's Cone Tumbling Dryer (CTD) design results in a high degree of particle mobility without the use of internal baffles. 45° and 60° cones are available. Cone Tumbling Dryers have been proven in a wide variety of industries, offering greater overall volume and high efficiency.

Options

Orbis offers a wide variety of options. Each machine is tailored to your specifications and applications. Orbis dryers handle a variety of material densities and are easily adaptable to meet standard material handling systems. Whichever your dryer requirements are, Orbis has a solution to fit your process.



Standard Features

Standard Designs for Material Densities up to 250 lbs.
0.5 to 500 Cubic Foot Working Capacities.
304 or 316 stainless steel or Carbon Steel construction.

Phone: 262-522-1939

Email: info@orbismachinery.com

2001 South Prairie Avenue

Waukesha, Wisconsin 53189