

Hemp & Cannabis Drying

Carrier

Vibrating Equipment, Inc.

Vibrating Fluid Bed Dryers

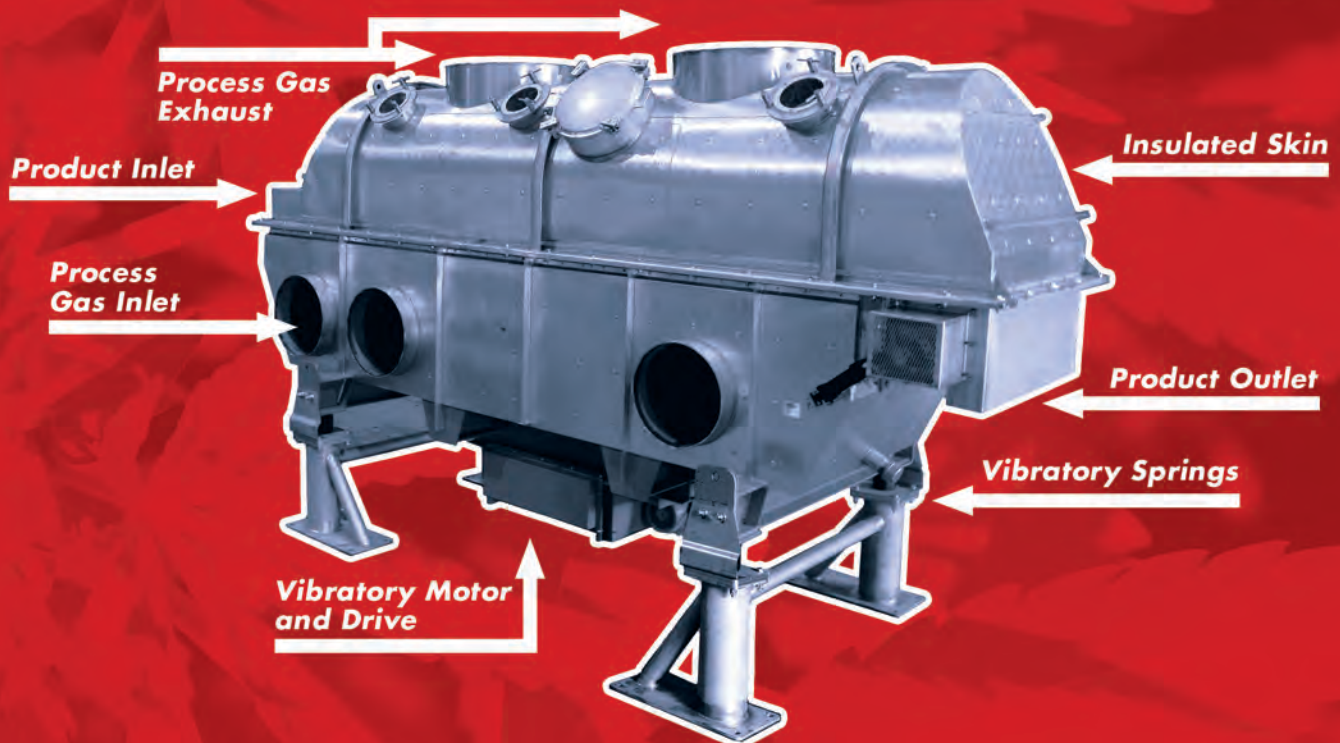
Efficient All-In-One Drying Solution, No Pre-Drying Required

Carrier Fluid Bed Dryers have been specially engineered for the hemp and cannabis industry. Our drying systems are custom designed to handle anything from drying large amounts of agricultural hemp biomass to gently dehumidifying cannabis harvests. Our extensive lab testing has shown no loss in CBD oil content during the drying process.

The vibration aids in moving wet and sticky raw materials while the airflow causes it to fluidize. This combination ensures even and consistent drying with no burnt hot spots or wet clumps. Large pieces of material will continue to flow through without clogging or plugging.

Fluid bed dryers can process biomass material from $\approx 70\%$ inlet moisture content down to $\leq 10\%$ moisture with no need to use a pre-drying system. This system eliminates extra steps and material handling in the processing line. Process rates as high as 10 tons per hour are possible on a single machine.

Contact surfaces can be constructed out of 304L stainless steel and meet food grade requirements for products meant for consumption, with options for clean-in-place nozzle fittings and removable hoods for easier cleaning between batches.



CPEG

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HEYL PATTERSON
THERMAL PROCESSING

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Rotary Dryers

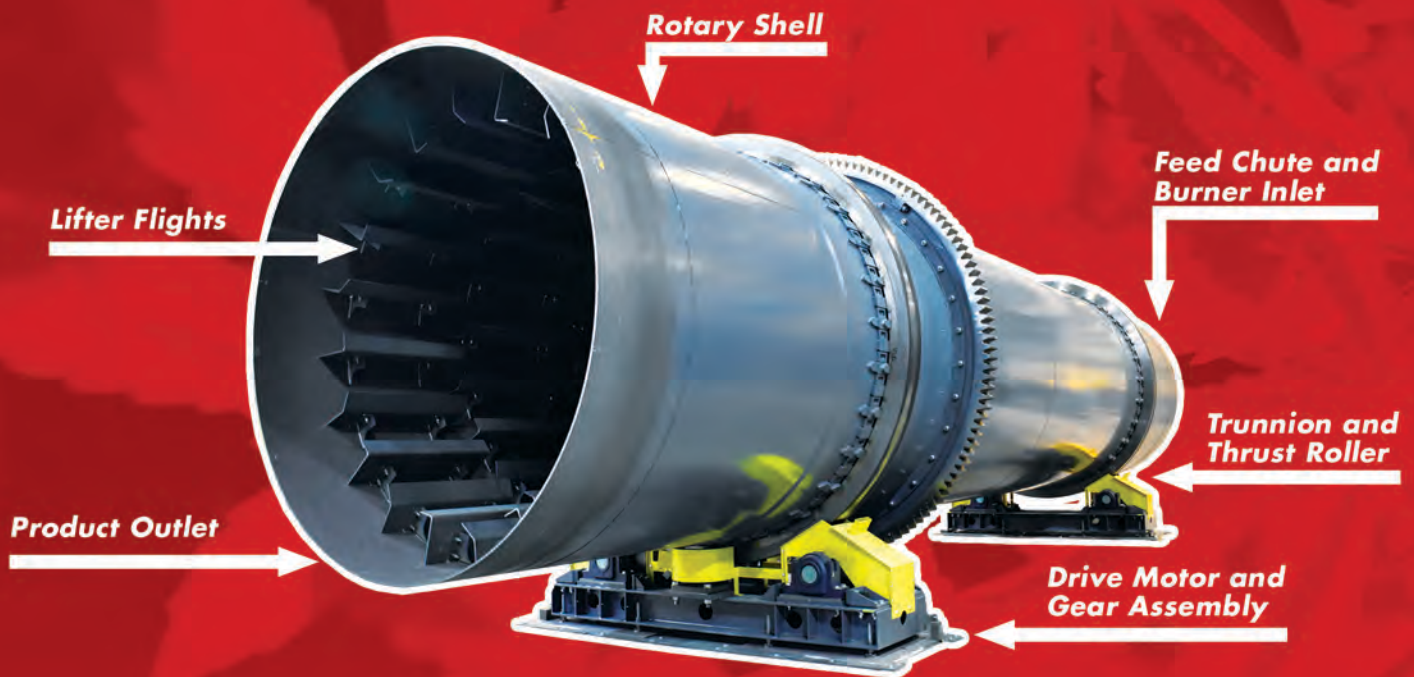
Trouble-Free Operation, Reliable Low-Maintenance Drive

Rotary dryers are able to process a wide variety of biomass material sizes including large flowers and stems. This eliminates the need to fine chop or sort the product first. The size and heat requirements of the rotary dryer are determined based on specific product requirements.

Custom designed internal lifting flights ensure even drying and prevent sticking or clumping. Product is separated and moved along the dryer, even if it entered as a solid wet mass.

A co-current gas flow puts the wettest material in contact with the hottest area of the dryer. This design prevents the material from exposure to high temperatures once dry, keeping quality high and avoiding burning oils and plant material.

Wet material of all sizes can be dried down to 10% moisture without the need for pre-drying, screening, or separating. The option to construct product contact areas from 304L stainless steel to meet product safety requirements is available.



CPEG's state-of-the-art 20,000 sq ft test lab allows customers to test their process on samples of their material, ensuring equipment is sized correctly and the operation will provide a quality end product.

Testing can simulate different operating conditions, chart material behavior throughout the process, increase efficiencies of the product line, and ensures material meets required specifications.

Equipment built after testing also qualifies for a performance warranty.