



ALLOY HARDFACING
Evolving to meet YOUR Needs...

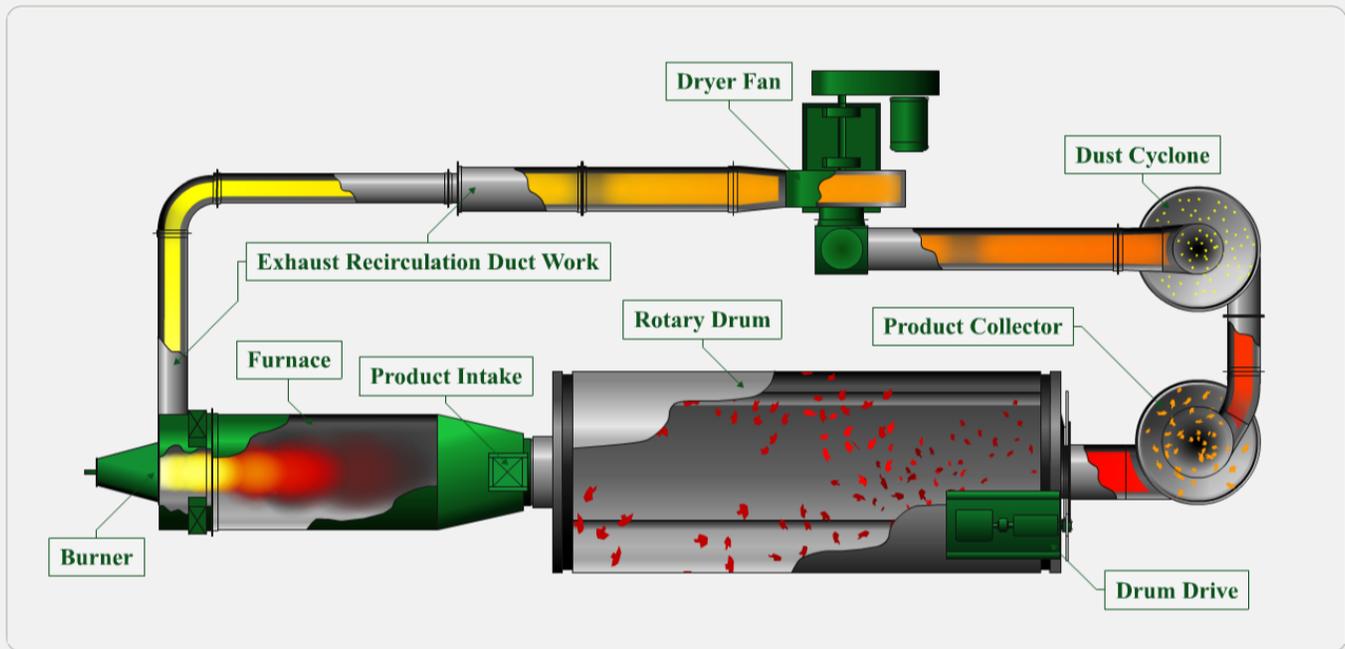
Direct Fired Dryer



This is the heart of the Feather System; one of the most advanced drum dryers available, it will produce a superior quality meal at a minimum cost. There are several reasons for this:

1. **Advanced control system:** The furnace is fired to a required level controlled by the dryer evaporative load. This maintains a discharge temperature at the set-point for optimum fuel efficiency. Once set, the operator has nothing to do but watch the dryer run...
2. **The Drum is engineered** to provide uniform material drying and is insulated where normal "hot spots" can burn material. The result is an efficient use of heat, lower fuel consumption and a lower material discharge temperature for better quality,
3. **The Heliclone Blower** is the air flow system which cleans the drum discharge air returns materials to the finished meal stream, saving product and reducing discharge to the air.
4. **Recycled Stack Air:** Up to 40% of the stack air can be recycled back to the furnace air inlet, reducing burner load for additional fuel savings and lowered odor emissions.
5. **Fuel Usage:** The dryer will use no more than 1,650 BTU's of gas to evaporate one pound of water.
6. All contact surfaces are fabricated from 304 stainless steel for long trouble free service.

Rotary Dryer Diagram



A rotary dryer is a horizontal cylinder in which heated gas and a moist material are blown through the rotating drum.

The drum has internal flights or vanes which deflect particles of the material back into the gas flow as the drum rotates. An angled flight is oriented perpendicular to the longitudinal axis of the drum in order to create an ascending ramp for incoming material.

There is a core oriented longitudinally in the drum. This core is hollow and perforated with holes through which particles of material may pass. This core may also have flights and a narrowing closed end facing the incoming material depending on the materials being dried.

Alloy helps bring you the U.S. "industry standard technology" as part of a complete drying solution with capacities from 500kg per hour evaporation to 5,000kg.

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