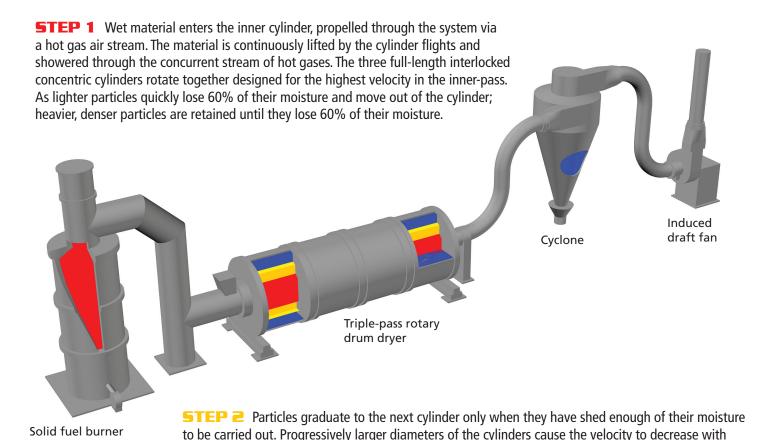
DEHYDRATION SYSTEMS

ROTARY DRUM DRYERS

TRIPLE-PASS TECHNOLOGY

Baker-Rullman Triple-Pass Technology remains the superior dehydration system by optimizing operating costs, efficiency, and end-product consistency.



STEP 3 Because of the earlier retention time in the first two passes, material is relatively uniform by the time it makes it into the gentle third pass. This means the product is guarded against over-drying or under-drying and ensures the optimum use of heat while producing a consistently high quality end-product.

Baker-Rullman Manufacturing, Inc.

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each subsequent pass. In this section, the partially evaporated particles are handled more gently, again

only graduating to the next pass when they have shed the proper amount of moisture.

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DEHYDRATION SYSTEMS

DEHYDRATION ADVANTAGES







EQUIPMENT ADVANTAGES

Baker-Rullman's energy efficient, high-performance rotary dryers have developed a global reputation in ultimate reliability. Here are some key factors that have contributed to this unequaled record of dependable equipment:

Full Length Cylinders - All three cylinders in the Baker-Rullman triple-pass dryer system are full-length giving the customer the maximum effective length and residence time in the smallest possible package.



Drive Components - The drum dryer drive arrangement uses engineering class bushed roller chain and sprockets, specifically designed for this type of drive application.

Trunnion Rollers - Our trunnion rollers are made from Class 50 cast iron with a minimum roller face hardness of 270 BHN. The inboard tapered roller bearings, which have a 'B-1-' life of 15 years, allow the roller to rotate around our stationary roller shaft supported by our hold-down pillow blocks. Baker-Rullman has proven this to be more reliable than the smaller diameter roller with an integral cast shaft system that is offered by our competition.

Drum Tires - Baker-Rullman drum tires are designed and manufactured significantly different from those used by other vendors. Each tire is hot forged from a single billet of AISI 1025 steel, then finish machined. There is no weld seam on it, and the steel grain structure is oriented for greater wear resistance and strength. It is forged into a "T" cross-section instead of the usual rectangular bar cross-section other vendors generally supply using rolled and welded bar stock.

PRODUCT ADVANTAGES

Baker-Rullman's triple-pass dryer design remains the most trusted dehydration technology for optimizing operating costs, efficiency, and product consistency.

Lower operating costs - Baker-Rullman rotary drum dryers use less fuel per ton of product than many other drum dryers and do so in significantly less space. The triple-pass design provides approximately three feet of horizontal material travel for every foot of drum length. Precise electronic controls eliminate heat surges and fuel waste.

High BTU efficiency - Better heat utilization created by longer residence times, robust temperature control, and drum insulation allows the Baker-Rullman triple-pass rotary drum dryer to achieve efficiencies better than 1,500 BTUs per pound of water evaporated.

Consistent evaporation - Baker-Rullman's triple-pass dryer design protects your product from under or over drying. Heavier, wetter product moves slower than fine particles, giving uniform drying to all particles. That's why our rotary dryers have long been known for protecting the protein value of food by-products and the integrity of all types of material.

Reduced Volatile Organic Compounds (V.O.C.) emissions
- V.O.C. emissions can cause pollution problems and restrict your production rates. Heat utilization in a Baker-Rullman system is superior to that of the other rotary drum dryers by virtue of the triple-pass rotary dryer design, eliminating unnecessary V.O.C. emissions. A properly sized and tuned system suited to your input volume is the key to planning an efficient system, and Baker-Rullman engineers are dedicated to accomplishing these goals with each and every installation.



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