



Drying **ANIMAL FEED**

DRYING • COMPONENTS • PROCESSING • PRODUCTS • SOLUTIONS

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DRYING ANIMAL FEED

The animal feed industry uses a variety of products from other industries in order to create nutritional supplements for livestock, poultry, and even household pets. These ingredients must be processed prior to mixing and producing the final product.

BIOMASS COMPONENTS

Animal feed is made up of many materials from the agriculture and mineral industries. These materials include:

- Grains and cereals
- Vegetables and animal by-products
- Oils and fats
- Molasses
- Vitamins and minerals

PROCESSING ANIMAL FEED

Materials can also be used to produce a balanced formula for animals, covering all nutritional requirements.

All ingredients used in must be reduced in size in order to create a homogeneous product. Once ground, ingredients are stored separately before they are weighed, dosed, and mixed. These materials remain in the mixer until liquids are added.

The mash created by this process continues on to one of two different processes, depending on whether the mixture will be pelletized or used as extruded feed. Both involve starch gelatinization in order to create an effect of feed pre-digestion. If being pelletized, once the mixture is pelletized, the feed is dried, cooled, covered with liquids and then screened in order to remove fines prior to bagging and storage.

FINAL PRODUCTS

Finished products are often used to produce feed for poultry, swine, cattle, horses, household pets, fish, and shrimp.

VULCAN DRYING SYSTEMS SOLUTION

Vulcan Drying Systems supplies equipment to process, dry, and even convey animal feed. Our systems are specifically designed for the drying of animal feed, focusing on making the material easier to transport and handle.

Vulcan Drying Systems consist of a drum, burner, and a combustion chamber. After passing through the dryer, dried animal feed is discharged onto a transfer conveyor for further sorting and separation. The vapor removed during the process is pulled to a cyclone specifically designed to work with dust. The vapors are then moved on to a high-temperature baghouse, which removes all fine particulates from the vapor stream.

For more information on Vulcan Drying Systems email us at sales@vulcandryingsystems.com or call us at +1 (660) 263-7474.

