GRAIN & FEED

milling technology

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Increased demand for coarser particle sizes in feeds

Magi-Mill - a flexible way of producing different particle sizes in animal feeds

The ability to produce different particle sizes in animal feeds is currently of great interest to feed manufacturers all over the world.

While a growing number of stock farmers demand specific animal feed consistency and structure for their businesses, more and more animal feed manufacturers have come to appreciate the advantages of being able to produce animal feeds to different particle sizes on their production lines.

Dinnissen Process Technology (based in Sevenum, The Netherlands) has developed a new and innovative solution that allows feed producers and their customers to react efficiently and quickly to the increasing demand for this type of product.

Correct feed particle sizing leads to optimum digestibility

Sharply increased demand for animal feeds with different, coarser particle sizes is a recent market trend.

This development has been fuelled by efforts to improve the digestibility of animal feeds.

Animals require different food particle sizes at different phases in their lifecycle in order to absorb nutrients with maximum efficiency. Stock farmers can boost profits by applying this principle effectively. This has led to increased demand for feed with specific particle sizes and encouraged animal feed producers to look for ways of satisfying this new requirement.

As a result, the ability to produce feed quickly and efficiently to the right particle size in existing production lines has become an item of major interest.

Energy saving and waste reduction

In addition to optimising feed digestibility by milling to the right particle size, more and more producers want to save energy and reduce process waste by being able to vary the particle size.

After all, why mill animal feed ingredients down to an unnecessarily small particle size if that has no added value for the animal?

Fine-milling animal feeds requires more energy during the milling and production process and creates greater levels of feed dust contamination during transportation in bulk tankers and feed delivery systems.

Moreover, animals create less spillage when eating coarser feed and are able to absorb coarser types of feed better than finely ground feedstuffs. So milling animal feeds to the correct particle size not only improves digestibility, it also achieves cost savings and reduces waste.

The Magi-Mill

Magi-Mill is a new and unique milling concept from Dinnissen that allows manufacturers to mill and mix animal feed ingredients

with enormous flexibility - while allowing them to switch between, combine and vary existing milling techniques.

The concept combines existing, well-proven milling technology with a whole range of innovative process solutions so that feed producers can switch between, combine and vary their milling processes. This solution is capable of producing and combining an almost unlimited number of particle sizes, meaning that producers can now satisfy any demand for a given feed particle size and mix consistency.

It is possible to mill different feed ingredients to an individually specified particle size and subsequently mix them together at a later stage in the production process to create a balanced animal feed that satisfies highly specific customer requirements.

The opposite is also true

When used to produce existing feed types to proven quality standards, the Magi-Mill's highly efficient milling action saves energy and keeps waste and contamination to a minimum. Even when processing small quantities.

Fast, totally homogeneous mixing with the Pegasus Rapid Mixer

In addition to the ability to switch between, combine and vary milling techniques, Dinnissen Process Technology's Magi-Mill milling concept incorporates the company's Pegasus Rapid Mixer as standard.

This allows rapid mixing of solids and fluids (20 to 30 batches of five to seven tonnes per hour) to produce a totally homogeneous final product (less than four percent variation coefficient).

The Magi-Mill is the result of Dinnissen's longstanding experience in the area of process technology for the food and animal feed industry. The company's expertise in dosing, feeding, transporting, purifying, cleaning, sieving, milling and mixing dry and fluid ingredients has contributed to the successful development of the truly unique Magi-Mill concept.

MORE INFORMATION:

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