

FLEXIBILITY TEAMED WITH BALANCED & ECONOMICAL NUTRITION

FEED MILLER AND MANUFACTURER WORKING IN TANDEM, INCREASING CAPACITY & REDUCING ENERGY CONSUMPTION

by Özlem Tarım Ürünleri AŞ, Turkey

Ö

özlem Tarım Ürünleri A.Ş. (Özlem Agricultural Products Corporation) started its activities in 1980 with its first feed mill established in Salihli-Manisa, Turkey. When it launched over 30 years ago, it was the very first privately owned feed company in the entire region.

Following its motto 'Balanced

and Economic Nutrition', Özlem Agriculture Company produces feeds under its Özlem Feed and Pakış Feed brand names, as well as supplying feed additives and performance enhancers under its Verimix brand. Although the company always puts poultry feed production first.

With an hourly capacity of 50 tonnes, the compound feed mill can produce feed for both ruminant and poultry, established by Yemmak process engineering solutions located in Söğütlü / Adapazarı, in the Marmara Region in Turkey.



The mill's mantra is flexibility

That is, there's always a plan A, a plan B and a plan C in place – meaning it can adapt easily to changes in production demand.

The partnership with Yemmak is evident in the facility's ability to operate according to all alternative raw material options; with it able to receive a wide variety of raw materials, grind them and pass them on to its production lines.

Yemmak also enables a quick and assured response from the moment of finding the problem to its solution. There are many control points throughout the manufacturing process, with weighing facilities prioritised both before and after each process.

There is also a system in which ensures that automatic weighing systems are kept under constant control, with the aim is to first know what is entering the process, where it goes within it and then finally, what comes out as a result.

This is enabled through the connections between these processes which possess the ability to communicate this information to one another, thus creating an effective factory with traceable control points.

Producing high capacity whilst consuming less energy

Since it is a flexible and effective factory, this flexibility provides energy savings in this feed variety. Making the recipe properly with the automation system means that the factory only

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produces feed to a 99.9% degree of accuracy, thus reducing loss through wastage.

This level of accuracy is maintained as there are many weighing points in the facility on the raw material side. These including main dosage, micro dosing, mineral dosage, and liquid-liquid weighing. Since there are many different weighing points, the risks per unit of these is also minimised.



“We could have built a factory of this tonnage with a single dosing scale, but we divided the raw material variety into three dosing scales,” states a company spokesperson. “Weighing of mineral separately, weighing of oil separately, weighing of molasses probe separately with flow meters, whilst it also minimises the risks.”

With the integration of reporting, separate and independent weighing points are verified in continuous cross-examination.

In 99% feed factories, stock tracking is done by numbers, although knowing how much bran is in the horizontal warehouse is simply impossible. In order to prevent this, Özlem has a scale at every point of the factory, from the entrance of the factory where it is emptied and through to the warehouse, where there is another scale.

There is also a weigh bridge when the raw material is transferred from the warehouse to the dosing silo. This way Özlem can instantly detect how much of which raw material and how much feed at which point of the factory.

Personalised report interfaces

With the personalised report system specially designed for the needs, the desired data can be obtained at any time.

By slowing down the speed of Yemmak GHM series hammer mill, the product to be grinded can remain coarser, while Yemmak RMD series roller mill provides finer grinding of the product. In this way, the product with the desired particle size is grinded without the need for any additional equipment.

Pellet mills with automatic roller adjustment are used in the facility, which is enriched with equipment and facilitates the flexibility of production. Everything is focused on flexible production.