

# CASE HISTORY

## **Acrison Equipment standardizes the flour fortification process in Colombia**

Our client, a federal governing agency in Colombia, mandated by a decision by the Ministry of Health, was to prepare and implement a program to standardize on equipment to fortify and enrich the quality of the country's flour by adding vitamins. This program by law was to be implemented at the latest by June 28, 1997. Approximately 95% of Colombia's flourmills are affiliated with FEDEMOL and were bound by the same law. The flourmills had to participate in the immediate standardization process and individually prepare for the purchase of a low cost, robust and precise feeder that could be easily installed into their process and delivered rapidly.

### **Problem**

In accordance with the mandate issued by the Ministry of Health, law number 1944 issued on the 28th of October, 1996, the following are the micronutrients to be added for the fortification and enrichment of the country's flour as of June 28th, 1997:

<b>Micronutrients</b>	<b>Minimum Quantity</b>
Vitamin B1	6 Mg
Vitamin B2	4 Mg
Niacin	55 Mg
Folic Acid	1.54 Mg
Iron	44 Mg
Calcium (optional)	1.28 Mg

The requirements specified by the Ministry of Health to fortify and enrich the quality of the flour process were to standardize on feeders capable of metering flour additives with an approximate bulk density of 0.58 grams/cubic centimeter and feedrate ranges of 0.06 to 1.52 Kilograms/hour.

### **Solution**

After an intense and time consuming search, a manufacturer with ample experience in fabrication of feeders who met all of the requirements was contacted. The Volumetric Feeder Model 105 from Acrison was the perfect model to accomplish the standardization program due to its extreme versatility and its universal double concentric auger metering mechanism which provides a high precision metering with low maintenance requirements and unsurpassable longevity.

Since the characteristics of the Acrison Feeder as well as the delivery time offered met with the requirements, the Ministry of Health government agency decided on the purchase of thirty-two (32) of the Model 105 Acrison feeders for their affiliated flour mills and the start-up of their standardization program.

Since the implementation of Acrison's volumetric feeders Model 105 the majority (95%) of the flour mills in Colombia have standardized the process for producing fortified enriched flour through the addition of vitamins. The uniformity and product quality sought have been accomplished beyond the preset expectations. The feeders have exceeded the precision requirements, working constantly and with near zero maintenance producing a high quality flour. For all of



the reasons stated in this article the flour mill association of Colombia (FEDEMOL) has made Acrison's volumetric feeder Model 105 the standard for their flour fortification process and their feeder of choice!

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