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Unity Scientific, LLC Introduces New BoMill Tri-Q Grain Sorting System to North American Market

Columbia, MD, September, 2010 – Unity Scientific, LLC announces that it has been named as the North American distributor for BoMill AB (A Swedish Company) for their TriQ grain sorting system. This patent technology can sort kernels of grain into quality fractions to maximize product yield.

Monitoring quality control in the food production industry is one if not the most important job to ensure the highest quality products are manufactured. Unity is proud to represent the BoMill product line for the sorting of grain. BoMill has developed the world's first technology for precision quality sorting of grain. "The grain market is extremely important to Unity Scientific and plays a large role in our future plans. The addition of a unique tool such as the TriQ adds great value to the grain industry and makes our product offering that much stronger for this market", comments Doug Evans, President of Unity Scientific.

The technology is called TriQ and is likely to change the way the world looks upon grain from this point forward. The TriQ system is fast, accurate and handles important quality parameters for a variety of applications within the food industry. BoMill's patented seed sorting technology, TriQ, makes it possible to analyze and identify each kernel of a batch and sort the grain into quality certified fractions at a speed fully compatible with the needs of industrial seed handling – i.e. with a sorting capacity of between 2 and 30 tons of grain per hour

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“Even on one single wheat plant, which produces about 100 kernels, there are significant qualitative differences between the individual kernels. It is hard to believe, but the differences between the kernels on one plant are often bigger than the quality variation within an entire wheat field!” Comments Bo Löfqvist, Ph. D. Inventor of the TriQ technology.

The TriQ Technology

Through laboratory test it is known that the grain quality in terms of e.g. gluten content and protein level varies substantially from kernel to kernel. However, up to now there has been no other way to determine the quality of a batch of grain than to analyze spot checks by randomly picking small portions of grain from every truck load as it arrives at the receiving site. This method only measures the mean value of the entire load. By using our TriQ technology, however, every single kernel of an entire lot is analyzed and Kernels of premium quality (usually as much as 50-75 per cent of a downgraded lot) are separated from the bulk.

In conclusion, the TriQ technology makes it possible to segregate high quality fractions out of batches that have an inferior average quality.

TriQ adds value to downgraded grain

Discount prices are paid for weather-damaged grain which can only be used for feed and even more discounts for fungi infected grains that will be used for energy production.

The premiums differ year from year depending on weather conditions and the general crop quality and it is not unusual that a premium quality can have a 20-50 per cent higher price than the general price. The TriQ technology can be used to analyze, sort and reclassify wheat and barley and, hence, increase the value of large quantities of down-graded grain. This makes the

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TriQ extremely profitable for businesses within i.e. grain handling. In fact, our present customers are calculating with a ROI of less than 12 months

Unity Scientific is a global leader in the manufacturing and sales on Near Infrared instrumentation and Wet Chemistry analyzers. Over 2,500 NIR spectrometers have been installed worldwide along with over \$6,000 wet chemistry analyzers. The corporate headquarters is located in Brookfield, CT and the NIR production facility is in Columbia, Maryland. The European headquarters is located in Rome, Italy with main offices in Paris and London. Unity's Asia Pacific operation is located in Sydney, Australia.

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