

PETKUS Solutions

Reduce dust abrasion *(Heubach-value)*
Increase germination capacity





MultiCoater CM 100

Setting new coating technology standards

Member of the PETKUS Group

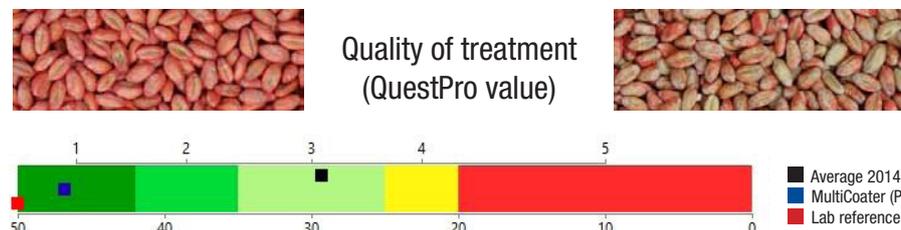
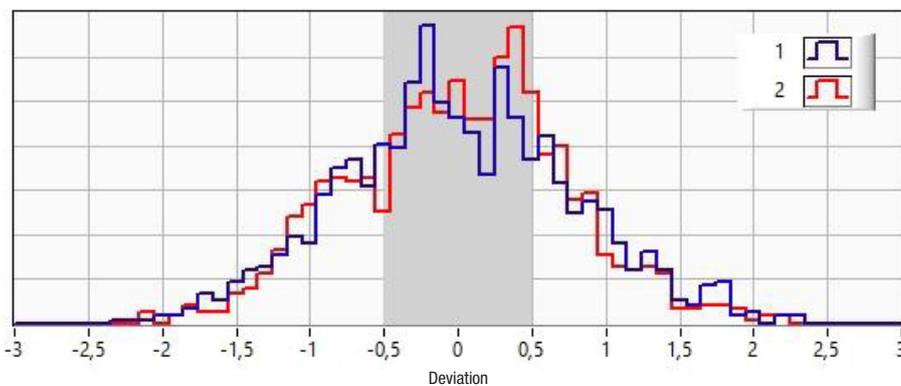
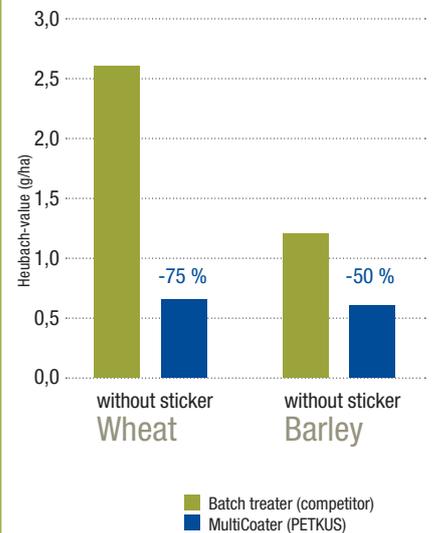
The advanced design ROEBER MultiCoater CM 100 offers highest application quality for coating, encrustation and pelleting operations. Innovative air cushion technology reduces dust abrasion and thus, improves Heubach-values. In addition, it improves flow properties and guarantees a very gentle seed handling. The cushion of air significantly reduces friction between seed and the stator

while the inflowing air enhances the mixing process by ensuring optimum grain movement inside the mixing chamber. After the coating process, additional air is added and the applied chemicals are dried while also improving surface adhesion. As a result, the coated seed appearance is of high quality. Test series certify best grain-to-grain distribution.



Dust-abrasion – first rate results without additives

The PETKUS MultiCoater reduces dust abrasion sharply. When tested, the Heubach-values were 50 to 75 % lower compared to a customary in commerce batch treater. The dust abrasion target value of 1 g/ha could only be reliably matched by the MultiCoater. Otherwise, to match the target values, additional stickers have to be used.



Most homogenous grain-to-grain distribution

QuestPro is a photometric analysis of individual grains, which determines the homogeneity of the grain wetting by means of colour analysis. Depending on the deviation from the optimum value, scores between 1 (green) and 5 (red) were awarded. 1 represents an optimal, 5 a poor wetting. As a reference, a laboratory determined optimum value is taken. On average, the 2014 from commercial treaters evaluated samples scored in the range of 3. In contrast, the PETKUS MultiCoater showed the most convincing results with regard to grain wetting as the grain wetting was almost at the optimal laboratory value. The grain wetting of the MultiCoater is much more homogenous than other commercial treater.



OptoSelector OS 900

Sorting precision increases germinability

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Use the ROEBER OptoSelector to create the purest products. Supreme sorting accuracy is achieved by the use of both full color and near infrared cameras as well as shape recognition technology in a single high capacity platform. Energy efficient, highly uniform lighting combines with easy to use software and a large touch screen interface to sort with highest precision and simplify operation.

The highly developed software of the OptoSelector processes images of each single corn. As a standard feature it is equipped with size and shape detection technology. Defects having nearly the same color as the good material can be detected and additionally distinguished by means of various shape features in order to remove them.

Excellent germinability

The cleaning of the seeds and thus the removal of foreign material and foreign seeds is a task which is expected to be done by default by optical sorters. This task is fulfilled in an extraordinary good way by the OptoSelector OS 900. Going beyond that, it has been shown in studies that the germinability can be increased by the excellent detection and separation of defective seeds by the OptoSelector OS 900. The analysis and certification was performed by an external, independent laboratory.

Areas of Application:

- Precision Seed Sorting
- Cereal Milling
- Pulse and Bean Processing
- Nuts
- Spices



Input Corn



Accept Corn



Final Reject Corn

Seeds now usable

The quite difficult seeds which are presented here are corn. Its original material only had a germinability of only 60 %. Hence, the seeds would not have been usable and therefore would not have been sold as certified seeds. Because of the specific settings in the program of the OS 900 to remove defects which also have a negative impact on the germinability, the germinability had been increased by 50 % to 90 %. The heavy contamination of more than 30 % could be decreased down to only 5 %.

