

# BaySTEP



## ALWAYS GUESSING THE OPTIMAL SEED TREATMENT PROCESS ENDPOINT? YOU DON'T HAVE TO ANYMORE.

### INACCURATE MIXING TIMES ARE A PROBLEM

Seeds come in a multitude of sizes and determining the perfect treatment time is almost impossible. Too often seed processors choose mixing times that are far too long. When this happens, the seed dressing becomes too dry, causing excessive abrasion of the treatment product. This results in insufficient active ingredient remaining on the seed, potential for dust emission increases, and the biological effectiveness in the field is impaired.

### CAPTURING SEED TREATMENT OPTIMALLY

Less than 21 seconds – that is the time corn seeds need during each batch cycle. If you calculate this short timespan only based on experience and feeling, more often than not, it goes wrong. BaySTEP professionalizes this process using structure-borne noise measurement. As it reaches the optimal point, BaySTEP tells the treatment machine that the mixing procedure is finished and the seeds are discharged.

In addition, BaySTEP collects and records various measurement data, which provides operators with important insights into how their treatment process works under different conditions such as heat or humidity that can lead to business-critical conclusions that make future treatment cycles much more predictable and successful.

### BETTER QUALITY AND MORE DIVERSITY

The value of BaySTEP lies in its ability to ensure higher treatment quality. The abrasion of the seed treatment product is reduced, dust generation and emission is minimized, thus increasing operator safety and reduces environmental impact near fields where seeds are sown. Most importantly, BaySTEP leads to optimum seed treatment quality in a minimum process time.

### BAYSTEP SPECIALLY DESIGNED

- For treating corn crop
- As an add-on hardware installed into existing batch seed treating systems
- For visualizing treatment curves on external monitor (optional, monitors not included)



Bayer SeedGrowth®

# TECHNOLOGY & APPLICATION

## HOW BAYSTEP BENEFITS YOUR BUSINESS



### EFFICIENCY IMPROVEMENT THROUGH AUTOMATION

Manual operations rely very much on operator experience and actual results show a tendency to over mix (blue curve). The optimal endpoint for each batch is represented by the red curve. BaySTEP automates the manual seed treatment process requiring subjective human intervention and transforms it from an 'art' form to a 'scientific' process.

**BAYSTEP ALLOWS PROCESS TO ACHIEVE OPTIMUM SEED TREATMENT QUALITY IN A MINIMUM PROCESSING TIME.**

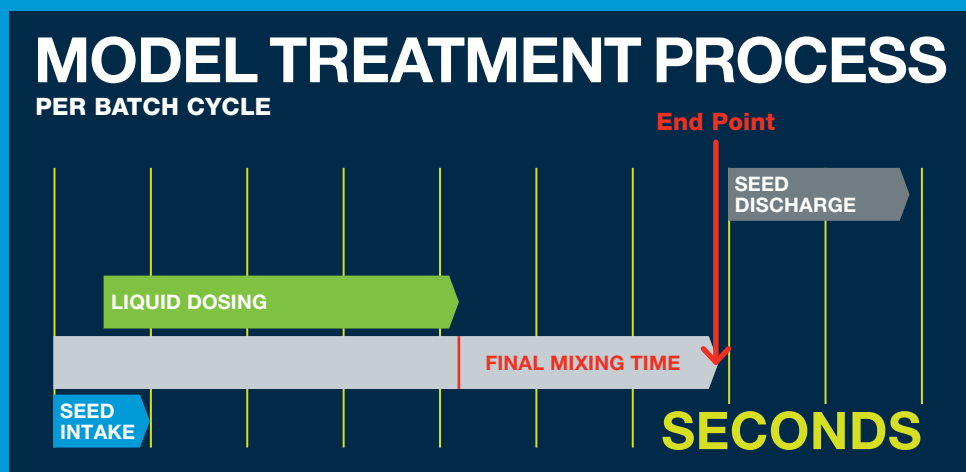


### MONITORING COMPLETE SEED TREATMENT PROCESS

The entire seed treatment process can be visualized in process curves to show the health of the system and provide transparency that can be used to optimize timings of pumps, powder feeders, etc.

**OPTIMIZED PROCESS RESULTS IN LESS PRODUCT BUILD-UP IN TREATER, REDUCING DOWN TIME ASSOCIATED WITH MIXING BOWL CLEANING.**

## CAPTURING SEED TREATMENT PERFECTLY



### FURTHER BENEFITS

- REDUCED CONTAMINATED DUST EMISSIONS**  
 BaySTEP supports seed treatment by complying with ESTA requirements
- OPTIMAL USE OF CHEMICALS**  
 Better seed loading is enabled, via avoiding abrasion of the seed coat, supports biological efficacy in the field
- STEWARDSHIP**  
 Reduce contaminated dust emissions from the seed treatment process, thereby protecting the environment and safeguarding operator working conditions

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Before using any crop protection product you should read and carefully follow directions, cautionary statements, and other information appearing on the product label. Our technical information is based on extensive testing and is, to the best of our current knowledge, true and accurate but given without warranty as the conditions of use and storage are beyond our control. Descriptions and property data of the product do not contain any statement as to liability for possible damage.

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