



*Promoting Seed
Business in
the Americas*

*September 9 - 11, 2019
Buenos Aires, Argentina*

Tecnología de aplicación en tratamientos de semillas

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Technical Assistance Bayer Equipment Argentina&Uruguay





Agenda del día

- // **Los 4 Pilares de Seedgrowth**
- // **Tendencia del mercado**
 - // **La importancia de la pre limpieza**
 - // **Optimizando tiempo de mezclado**
- // **Nuevo Panel**
- // **Innovación hace a la mejora continua**



Los 4 pilares de Seedgrowth



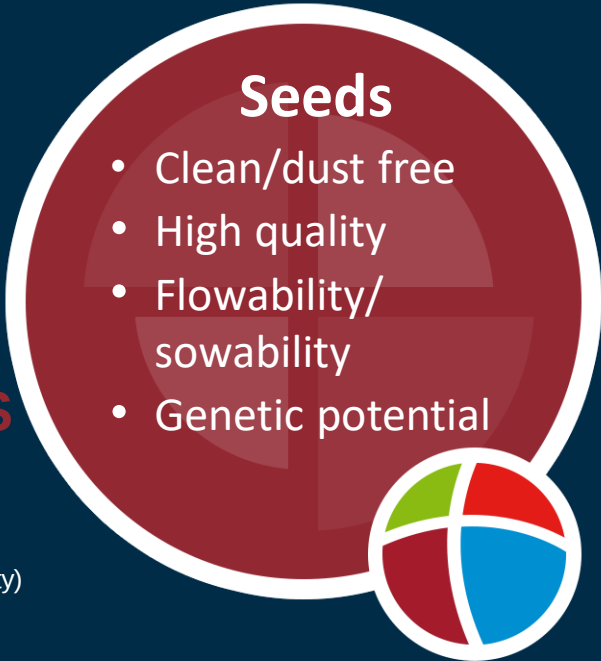
SeedGrowth SERVICES

- SeedGrowth Centers
- Stewardship/QHSE
- Training & customer support – know how transfer

SeedGrowth PRODUCTS

- Safe to seed
 - Easy to apply
 - Right features(viscosity/density)
- 

Seeds

- Clean/dust free
 - High quality
 - Flowability/sowability
 - Genetic potential
- 



SeedGrowth COATINGS

- Film coatings technology for on seed application
- Coatings & drying/fluency powders

SeedGrowth EQUIPMENT

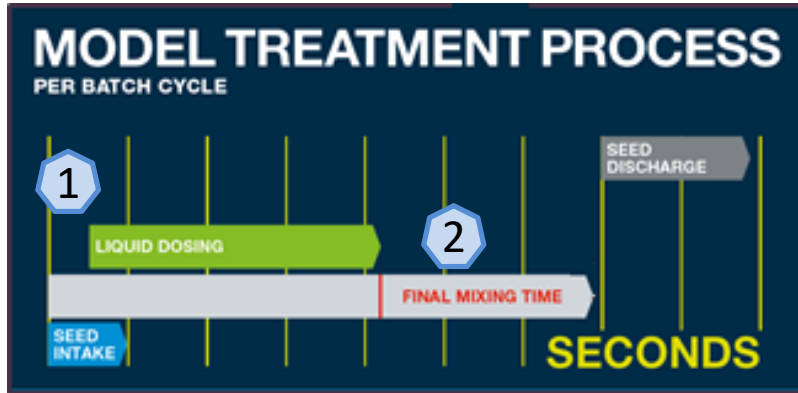
- Type (batch/continuous)
 - Training and customer service
 - Operator safety
 - Easy to operate
 - Accuracy
- 



Tendencia del mercado

- La industria cada vez se profesionaliza más
 - Registro de productos Mg IA/1000 semilla
 - Garantizar al cliente un buen tratamiento

“Tu proceso de trabajo determina el éxito de la semilla”



1. La importancia de la pre-limpieza
2. Optimizando tiempo de mezclado

1-La importancia de la pre-limpieza

¿Qué pasa cuando tu proceso no acompaña?



1-La importancia de la pre-limpieza

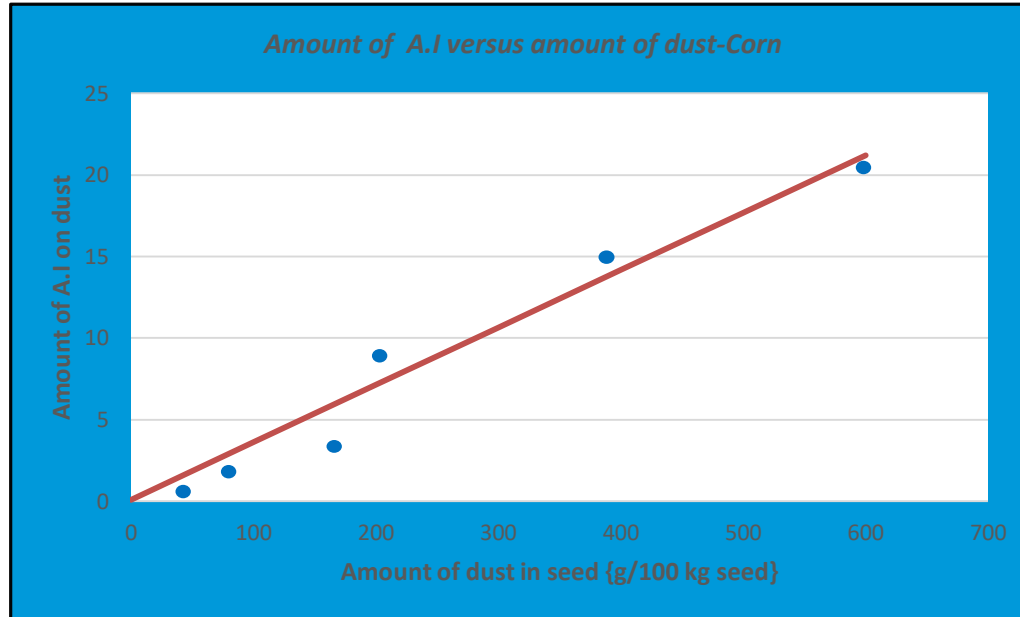
¿Qué pasa cuando tu proceso no acompaña?





1-La importancia de la pre-limpieza

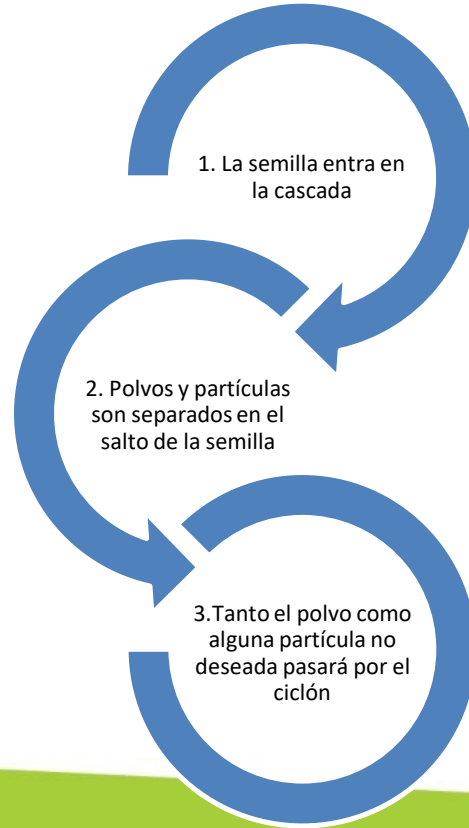
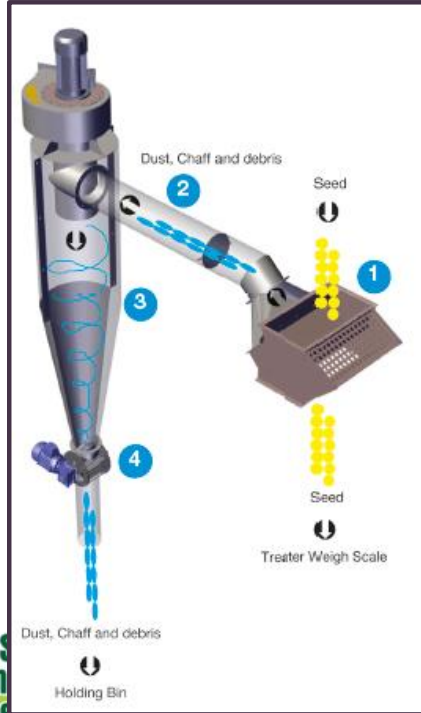
¿Qué pasa cuando tu proceso no acompaña?



$$Y = 0,0812 + 0,0352X$$
$$r = 0,99$$

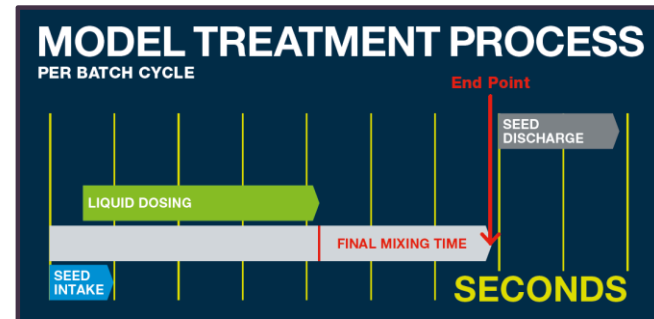
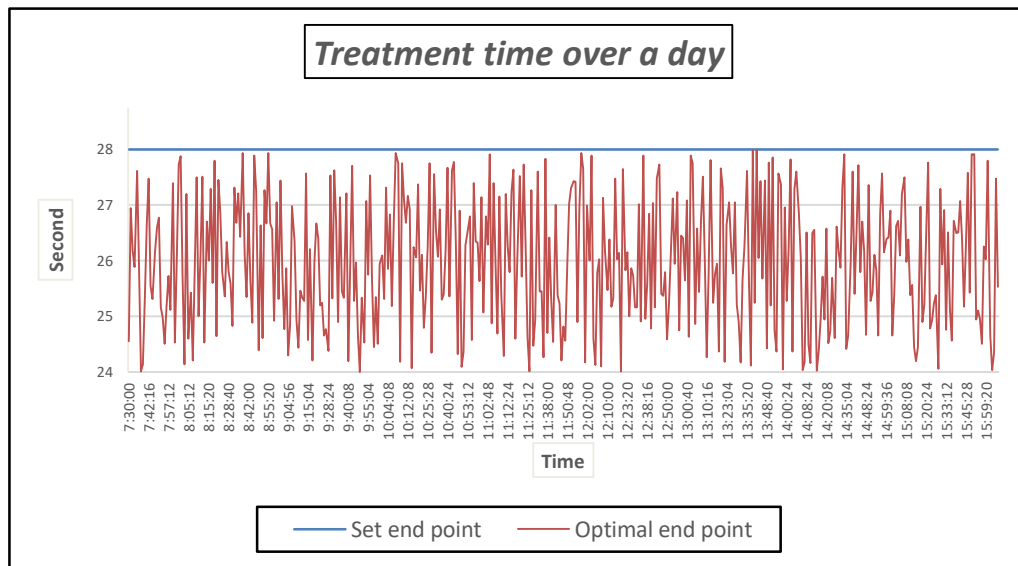
1-La importancia de la pre-limpieza

Cascada & Ciclón



2-Optimizando tiempo de mezclado

Proceso ideal vs proceso real



- Factores que influyen Tiempo de mezclado :
 - Rendimiento.
 - Cálida de tratamiento.

2-Optimizando tiempo de mezclado

Bay STEP



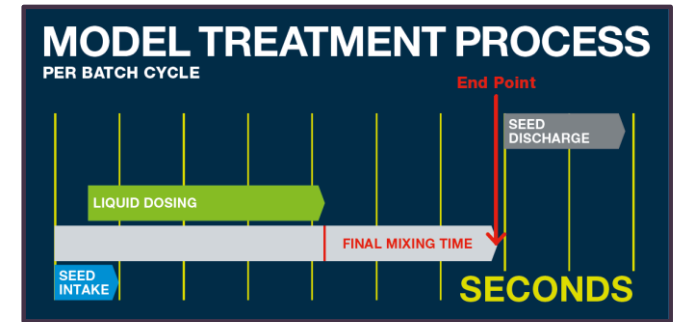
In bowl drying





2-Optimizando tiempo de mezclado

Bay STEP: funcionamiento





Nuevo Tablero CBT LIW

Log on [] 08:30:45 PM 1/1/1971

Recipes - Create & Edit

Recipe Name [Text Input] Comments [Text Input]

Recipe Selection

Recipe Menu

Copy Paste

Clear Save

Validation

Discharge Pumps

	Product Name	Start Time	Stop Time	UOM	Recipe Rate	Density	AI/L	Recipe WT
1	Text Input	###	###		###.##	###.##	###.##	###.##
2	Text Input	###	###		###.##	###.##	###.##	###.##
3	Text Input	###	###		###.##	###.##	###.##	###.##
4	Text Input	###	###		###.##	###.##	###.##	###.##
5	Text Input	###	###		###.##	###.##	###.##	###.##
6	Text Input	###	###		###.##	###.##	###.##	###.##
7	Text Input	###	###		###.##	###.##	###.##	###.##
8	Text Input	###	###		###.##	###.##	###.##	###.##

Machine Parameters

Recipe Batch Size / Kg [####]

Discharge Start Time (sec) [##]

Discharge Duration (sec) [##]

Batch Time Estimated (sec) [####]

Label Seed Count / Kg [####]

Batch Fill Duration (sec) [##]

Rotor Speed (0-100%) [##]

Powder Feeders

	Product Name	Start Time	Stop Time	UOM	Recipe Rate	Vibrator (sec)	Recipe WT
L	Text Input	###	###		###.##	###	###.##
R	Text Input	###	###		###.##	###	###.##

In-Bowl Dryer

Air Flow (0-100%) [##]

BaySTEP

Rotor Temp (DegF) [##]

Log on [] 08:30:45 PM 1/1/1971

Operation

Controller Plant System

Current Recipe Name Display

Recipe Name [Text Input]

Seed Variety [Text Input]

Process Amt / UOM / Kg [####]

Select a Recipe [] View Batch Totals []

1 2 3 4 5 6 7 8

Previous Batch Time [##]

Batch Time [##]

Remaining Kg [####]

Processed Kg [####]

Batches [##]

Total Batch Run Progress

[Progress Bar]

Start **Hold Now** **Pause** **Restart** **Stop** **Discharge Start Time (sec)** [##]

Abort Batch **Abort Process** **Advance** **Recapture** **Cleanout** **Discharge Duration (sec)** [##]

Diagram:

Prox Surge Bin

Prox Hopper Fill Gate

Scale Hopper [####] Kg

Calibration Weight

Prox Rotor Fill Gate

Atomizer

Discharge Prox [####] g/sec

In Bowl Dryer

BaySTEP

Discharge Route

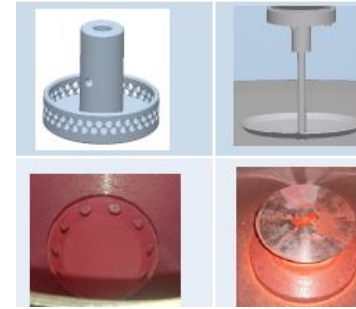
Gear Motor

Blower

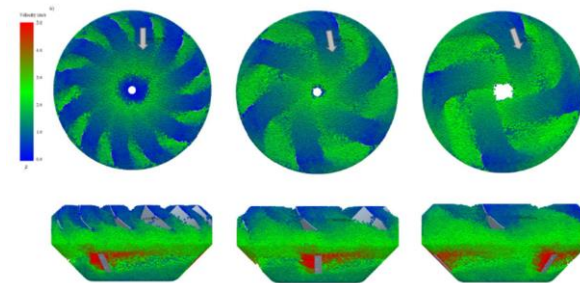
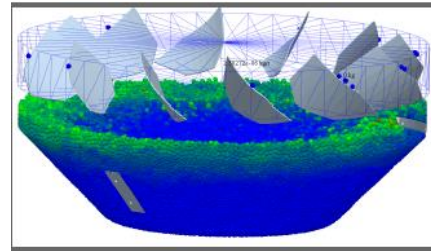
MPa

Innovación hace a la mejora continua

- Factores relevantes a ser considerados:
 - Velocidad / aceleración
 - Fuerza Centrifuga y centrípeta
 - Fins/spoilers
 - Atomizador
 - Coeficiente de fricción
 - Bowl/drum radio y forma



Source: Bayer Technology Services





“Que una semilla sea una semilla tratada y que no se transforme en un grano tratado”



Muchas gracias

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