

S A A T TECHNOLOGE

Science of Seed Processing

General

Brand	Saat Technologe
Designation	Batch Seed Treater
Model	BST 50
Application	A treating liquid or slurry application to the Seed.

The BST 50 is a fully automatized Batch Seed Treater for operating within a seed line. The operator sets all necessary parameters on the touch display, eg. weight, speed of drives, amount and timing of dosing the slurries, etc. After starting the Batch Seed Treater, the seed is measured by the built-in scale, using electronic load cells. Dumping the pre-scaled seed into the mixing drum is done automatically. The dosing of the different slurries is done according to the setup of the operator. A PLC controls the heart of the process, the coating of the seed. These guarantees reproduce-able conditions and quality for each batch. The whole machine is ready-prepared for operation, only the power supply must be wired to the local main electric panel, and connection of the pneumatic air supply. A spout for connecting the existing aspirating system is also prepared on the BST 50, the aspirating system must be provided locally. The slurry dosing lines will be connected with the pump by means of flexible hoses.

Standard components (for liquid coating):

- self-supporting all-steel construction, consisting of:
- scale with electronic loadcells, accuracy +/- 0.25 % referred to max. weight
- mixing drum using the Batch Seed Treater -principle
- with the dosing systems described below
- possible to add future upgrades
- electric switchboard on main frame, completed and ready, consisting of:
- the touch display for setting the parameters for weighing and coating process
- the PLC for operating the coating process
- the controller for the scale
- incl. fuses, circuit breakers, motor protection switches, etc.
- possibility for connecting external seed level sensor for the scale's pre-bin and silo below
- possibility for connecting external slurry level sensor
- possibility for operating an (optional) sample taker
- GSM LAN modem for remote maintenance



Technical data	
Mixing drum	
Mixing drum size (referred to wheat)	50 kg
Recipes: (Values can differ depending on type of seed and quantity of slurry)	
Capacity (referred to wheat)	max. 8.5 t/h
Dosing of slurries within	5 .. 15 s
Mixing after dosing within	5 .. 10 s
Discharging seed within	5 .. 10 s
Power supply: (standard)	
Main power supply appr. 10 kW	3/N/PE 400V 50 Hz min. 32A
Air volume	
Air requirement	300 m ³ /h @ΔP 1.5 kPa
Pneumatic	
Requirements	2 Nm ³ /h, 6 bar nom.
Equipment	
Belt feeder for scale	optional
Sideable scale	optional
Glass cylinder	1.0 l
Pump D15	55 .. 180 l/h
Power feeder	ø48 mm
Dimensions	
Length	1 490 mm
Width (without PD)	1 390 mm
Height (standard)	1 995 mm
Total weight	
Net	1 000 kg

