

SATEC CONCEPT® MICRO **BATCH COATER**

Batch coater for very small quantities.
Ideal for breeding purposes or trial seeds.
Suitable for all kinds of seed.

Excellent distribution of the treatment, even for
small quantities and short mixing times.

Easy to disassemble and clean.

Batch size:

- 0.01 to 0.05 dm³ (up to 40 g*)

Technical features:

- Touchscreen
- Peristaltic dosing pump
- Foot switch for liquid dosing

Material:

- Stator made of stainless steel
- Rotor made of stainless steel (Ø 70 mm)
Upper side with HALAR coating
- Base frame made of stainless steel
- Discharge hopper made of stainless steel

Machine operation:

- Operated by self-explanatory touch control
- 99 memory locations for recipes

Discharging:

- Discharge by means of an upward moving rotor
- Treated seed released into a discharge hopper
- For manual operation

Power supply:

- 300 W
- 100 - 220/240 V
- 47 - 63 Hz

Dimensions:

- Base area: 530 x 410 mm
- Height: 780 mm
- Weight: approx. 29 kg



* Wheat with a bulk density of 0.80 kg/l

SATEC CONCEPT® MACRO **SMALL BATCH COATER**

Batch coater for very small quantities. Ideal for breeding purposes or trial seeds.
Suitable for all kinds of seed.

Excellent distribution of the treatment, even for small quantities and short mixing times.

Easy to disassemble and clean.

Batch size:

- 0.035 - 0.150 dm³ (= 120 g*)

Technical features:

- touch screen
- peristaltic dosing pump
- foot switch for liquid dosing

Material:

- stator made of stainless steel
- rotor made of stainless steel (ø 100 mm)
 - upper side with HALAR coating
 - lower side primed
- base frame made of stainless steel
- discharge hopper 3D printed (plastic)

Machine operation:

- operated by self-explanatory touch control
- 99 memory locations for recipes

Discharging:

- discharge by means of an upward moving rotor
- treated seed released into a discharge hopper
- for manual operation

Power supply:

- 300 W
- 100 - 220/240 V
- 47 - 63 Hz

Dimensions:

- base area: 530 x 410 mm
- height 780 mm
- weight: ca 33 kg



*Wheat with a bulk density of 0.80 kg/L

SATEC CONCEPT® ML 1000 **BATCH COATER**

Batch size:

- 0.125 to 1,25 dm³ (up to 1 kg*)

Material:

- Stator made of steel
 - inner side chrome-coated
 - outer side powder-coated
- Rotor made of cast iron
 - upper side chrome-coated
 - lower side primed
- Base frame and discharge hopper powder-coated

Discharging:

- Manually operated discharge door
 - No stress to the seed since the door opens completely outwards

Dosing of liquids:

- Speed-adjustable “Spinning Disc”, integrated in the stator cover
- Liquid supply pipe for pump hoses and manual dosing operations

Machine operation:

- Main power switch
- Start button
- Stop button
- Toggle switch for spinning disc (on/off)
- Speed control for spinning disc
- Speed control for rotor

Technical features:

- Pelleting device
- Dosing pump for treatment
- Mixing blades

Power supply:

- 650 W
- 220/240 V
- 50 Hz



*Wheat with a bulk density of 0.80 kg/L

SATEC CONCEPT® ML 2000 **BATCH COATER**

Batch size:

- 0.25 - 2.50 dm³ (= 2 kg*)

Material:

- stator made of steel
 - inner side chrome coated
 - outer side powder coated
- rotor (ø 310 mm) made of cast iron
 - upper side chrome coated
 - lower side primed
- base frame and discharge hopper powder coated

Discharging:

- manually operated discharge door
 - seed remains undisturbed, since the door opens completely outwards

Dosing of liquids:

- speed adjustable “spinning disc”, integrated in the stator cover
- liquid supply pipe for pump hoses and manual dosing operations

Machine operation:

- main power switch
- start button
- stop button
- toggle switch for spinning disc (on/off)
- speed control for spinning disc
- speed control for rotor

Technical features:

- pelleting device
- dosing pump for treatment
- mixing blades

Power supply:

- 650 W
- 220/240 V
- 50 Hz

Dimensions:

- base area: 480 x 600 mm
- height: 750 mm
- weight: ca 70 kg



*Wheat with a bulk density of 0.80 kg/L

SATEC CONCEPT® ML 2000 **PELLETING DEVICE**

The SATEC CONCEPT® ML 2000 can also be fitted with an additional liquid distribution device for optimum pelleting.

The pelleting device consists of:

- a tiltable machine arm
- an “atomizer” for distribution of liquids, with hose connection
- a height-adjustable holder for the “atomiser”
- a connecting cable for the control cabinet of the SATEC CONCEPT® ML 2000

The user can now choose between

- seed treatment with the standard “spinning disc”
- pelleting with the “atomizer”



SATEC CONCEPT® 1.25 BATCH COATER

Batch size:

- 3.25 - 32.50 dm³ (= 26 kg*)

Material:

- stator made of steel
 - outer side powder coated
 - PE inliner (antistatic, replaceable) for the inner lining of the stator
- rotor made of cast iron
 - upper side with PU coating
 - lower side primed
- rotor casing made of cast iron
 - outer side painted

Discharging:

- opened pneumatically by means of the corresponding switch at the control cabinet
- opens completely outwards
 - no mechanical disturbance of the seed
- discharge hopper with cleaning hatch

Distribution of treatment:

- by means of a "spinning disc"
 - a very rapidly rotating flat metal disc in the middle of the mixing chamber

Technical features:

- stator cover, one half hingeable
- exhaust air vents
- high pressure fan beneath the rotor
 - creates positive pressure to close the gap between rotor and stator
- halogen lamp for lighting in the mixing chamber
- 2 mixing rods for complete blending of the batch

Machine operation:

- toggle switch for rotor drive (on-off))
- toggle switch for high pressure fan (on-off)
- toggle switch for spinning disc drive (on-off)
- toggle switch for lighting in the mixing chamber (on-off)
- toggle switch for emptying the mixing chamber (open-closed)
- potentiometer for rotor speed
- emergency stop



*Wheat with a bulk density of 0.80 kg/l

Technical features:

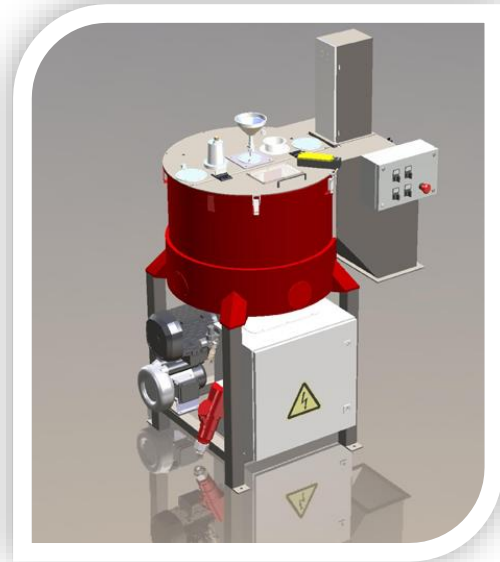
- dosing pump for treatments
- mixing blades
- powder dosing

Power supply:

- 16 A
- 380/400 V
- 50 Hz

Dimensions:

- base area: 1300 x 700 mm
- height: 1690 mm
- weight: ca 410 kg



SATEC CONCEPT® 1.50 BATCH COATER

Batch size:

- 6.50 - 65.00 dm³ (= 52 kg*)

Material:

- stator made of steel
 - outer side powder coated
 - PE inliner (antistatic, replaceable) for the inner lining of the stator
- rotor made of cast iron
 - upper side with PU coating
 - lower side primed
- rotor casing made of cast iron
 - outer side painted

Discharging:

- opened pneumatically by means of the corresponding switch at the control cabinet
- opens completely outwards
 - no mechanical disturbance of the seed
- discharge hopper with cleaning hatch

Distribution of treatment:

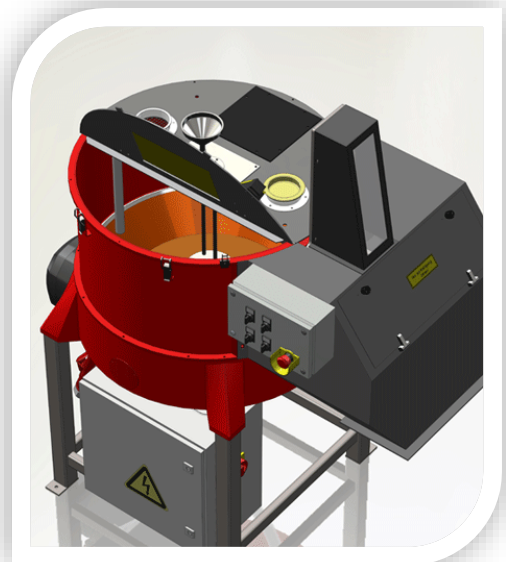
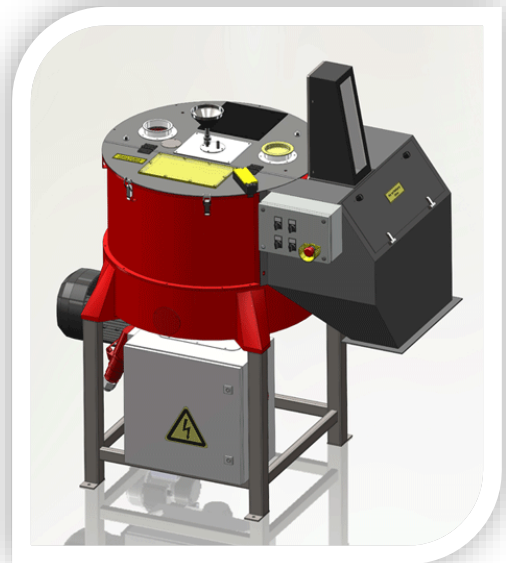
- by means of a "spinning disc"
 - a very rapidly rotating flat metal disc in the middle of the mixing chamber

Technical features:

- stator cover, one half hingeable
- exhaust air vents
- high pressure fan beneath the rotor
 - creates positive pressure to close the gap between rotor and stator
- halogen lamp for lighting in the mixing chamber
- 2 mixing rods for complete blending of the batch

Machine operation:

- toggle switch for rotor drive (on-off))
- toggle switch for high pressure fan (on-off)
- toggle switch for spinning disc drive (on-off)
- toggle switch for lighting in the mixing chamber (on-off)
- toggle switch for emptying the mixing chamber (on-off)
- potentiometer for rotor speed
- emergency stop



*What with a bulk density of 0.80 kg/L

Technical features:

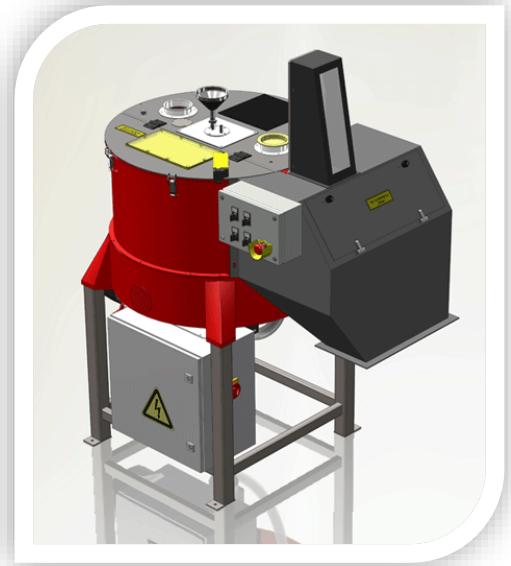
- dosing pump for treatments
- mixing blades
- powder dosing

Power supply:

- 32 A
- 380/400 V
- 50 Hz

Dimensions:

- base area: 1500 x 910 mm
- height: 1820 mm
- weight: ca 630 kg



SATEC CONCEPT® 2.10 **BATCH COATER**

Batch size:

- 1.25 - 12.50 dm³ (= 10 kg*)

Material:

- stator made of steel
 - outer side powder coated
 - PE inliner (antistatic, replaceable) for the inner lining of the stator
- rotor made of cast iron
 - upper side with PU coating
 - lower side primed
- rotor casing made of cast iron
 - outer side painted

Discharging:

- manually operated discharge door
- opens completely outwards
 - no mechanical disturbance of the seed
- discharge hopper with cleaning hatch

Distribution of treatment:

- by means of a "spinning disc"
 - a very rapidly rotating flat metal disc in the middle of the mixing chamber

Technical features:

- seed hopper above the mixing chamber (capacity ca 15 litres)
- stator cover, completely hingeable in two sections
- exhaust air vents
- high pressure fan beneath the rotor
 - creates positive pressure to close the gap between rotor and stator
- halogen lamp for lighting in the mixing chamber
- 2 mixing blades for complete blending of the batch

Machine operation:

- toggle switch for rotor drive (on-off)
- toggle switch for high pressure fan (on-off)
- toggle switch for spinning disc drive (on-off)
- toggle switch for lighting in the mixing chamber (on-off)
- potentiometer for rotor speed
- main power switch/emergency stop



*Wheat with a bulk density of 0.80 kg/l

Technical features:

- pelleting device
- dosing pump for treatments
- mixing blades

Power supply:

- 1.2 kW
- 380/400 V
- 50 Hz

Dimensions:

- base area: 1120 x 800 mm
- height: 1430 mm
- weight: ca. 240 kg



SATEC SLP dosing unit

A compact standby device facilitating precise work to present-day standards in seed pilot plants or at field testing stations. Can be used for encrusting, pelleting and coating with all SATEC CONCEPT laboratory coat-ers.

NEW since May 2021:

The dosing unit now also controls the entire coating process: precision product volume dosing, mixing time and discharging. All this means that our compact dosing unit can become the mobile brain behind your laboratory coating units! Dosing parameters can also be read in from a csv file.



Functions

Manual mode

- ✓ start, stop, pause, dosage displays
- ✓ velocity and flow rate manually adjustable

Automatic mode

- ✓ start, stop, pause, dosage displays, dosage time display
- ✓ time and set point selectable, pump adjusts velocity automatically
- ✓ online calculation

External mode

- ✓ pump direction selectable manually
- ✓ start/stop and velocity controllable via external devices

Features

- ✓ ✓ internal storage of formulations
- ✓ password protected
- ✓ detailed assist mode

User languages

- ✓ German
- ✓ English
- ✓ French

Possible flow rates

Internal tube diameter	0.5 mm	0.8 mm	1.6 mm	3.2 mm	4.8 mm	6.4 mm	8.0 mm
mL/rev	0.03	0.06	0.25	0.85	1.875	3	4
60 rev/min	1.8	3.6	15	51	112.5	180	240
100 rev/min	3	6	25	85	187.5	300	400
190 rev/min	5.7	11.4	47.5	161.5	356.25	570	760
220 rev/min	6.6	13.2	55	170	412.5	666	880