

PROCESSING

CENTRICOATER CC150

GENERAL

Brand	Cimbria
Designation	Centricoater
Model	CC150
Use	Industry



The CC150 is a fully automatized Centricoater 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 Centricoater, 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. This 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 CC150, 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 Centricoater-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.
 - rotor drive operated by frequency inverter
 - 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) sampletaker
 - GSM LAN modem for remote maintenance

Technical data

Mixing drum	
Mixing drum size (referred to wheat)	150 kg
Recipes: (values can differ depending on type of seed and quantity of slurry)	
Capacity (referred to wheat)	max. 15 t/h
Dosing of slurries within	10 .. 20 s
Mixing after dosing within	10 .. 15 s
Discharging seed within	5 .. 10 s
Power supply: (standard)	
Main power supply appr. 25 kW	3/N/PE 400V 50 Hz min. 63A
Air volume	
Air requirement	500 m ³ /h @ΔP 1.5 kPa
Pneumatic	
Requirements	4 Nm ³ /h, 6 bar nom.
Equipment	
Beltfeeder for scale	optinal
Sideable scale	optinal
Glass cylinder	1.5 l
Pump D25	60 .. 500 l/h
Power feeder	ø60 mm
Dimensions	
Length	2 200 mm
Width (without PD)	1 900 mm
Height (standard)	3 000 mm
Total weight	
Net	3 000 kg

Technical data can vary for certain of the above due to continued development or a different machine composition.