# © <u>PROCESSING</u> GRAVITY SEPARATOR GA 210

## GENERAL

Brand Designation Model Use Cimbria Gravity separator GA 210 Industry



## Application

Grains or particles of almost identical size are fed continuously on the separating deck surface of the separator, providing a uniform bed of material over the deck surface.

### Design

The deck is fluidised by a completely uniform pressurised air system stratifying the light material to the top of the product bed and allowing the heavy material to contact the deck surface. The deck is inclined from side to side and inlet end to discharge end at adjustable angles.

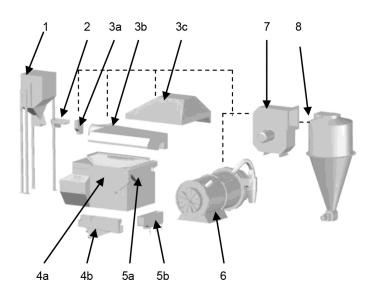
### Working mode

The deck itself is powered by a well-balanced eccentric drive which moves the deck at low amplitude and high frequency up hill. The heavy material contacting a specially designed square wire deck surface moves up hill, while the light material fluidised by the air system moves down hill due to gravitational pull. A typically separation pattern is depicted below.

- Intake pre-storage hopper For intake adjustment between feeder-elevator and electro-magnetic feeder SP 18 incl. three level indicator switches. Delivery with or without supporting legs.
- 2. Electro-magnetic feeder type SP 18 For a trouble-free, continuous feeding of the machines.
- Ja. Intake dust-aspiration hopper
  Light dust and fine removals from the product to be cleaned. Connection to central dust exhaust unit.
  Air requirement: 12 m<sup>3</sup>/min, 300 Pa.
- 3b. Partial dust hood
- In case of heavy dust formation, for the removal of dust from the incoming material and the light produce area. Connection to central dust exhaust or individual cyclone and ventilator. Incl. Intake dustaspiration hopper and frame. Air requirement: 210 m<sup>3</sup>/min, 300 Pa.
- 3c. Full dust hood complete closed; suction over the whole table area. With frame.
  - Air requirement: 550 m<sup>3</sup>/min, 300 Pa.
- 4a. Discharge hopper for heavy product.
- 4b. Vibrating discharge trough for heavy product with stone trap.
- 5a. Vibrating discharge trough for light product.

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- 5b. Bagging-off type hopper for design with base structure (required, if bagging-off type hoppers instead of discharge hopper will be supplied).
- 6. Cyclofan
- 7. Exhaust fan
- With motor, without support structure.
- 8. Dust separating cyclone with rotary valve.



Technical data	
Capacity	
Corn, wheat soybeans	10.0 t/h
Beans	4.8 t/h
Clover	3.0 t/h
Coffee (green)	6.7 t/h
Screen area	3.4 m <sup>2</sup>
Motors: (standard)	
Fan drive	11.0 kW
Reciprocating drive	1.1 kW
Air volume:	
Air requirements	470 m³/min.
Dimensions	
Length	3 288 mm
Width	1 850 mm
Height	1 440 mm
Total weight of separator	
Net	1 830 kg
Dynamic loading at 7–12 Hz:	
PH=+/- 450 N PV=+/- 160 N (10N = 1 kg)	

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

