

PRA Rotary Cleaner

Concept - Design - Manufacture



As well as separating good quality grain from splits and trash, this rotary drum removes them completely. The rotary drum cleaner with aspiration is essential for cleaning cereals that have to be stocked for a long time (avoiding overheating, which can be caused by chaff, husks, split grains etc.). The final product will be healthier and have a pleasant aspect.

Output t/h**	20	30	50	70	80	125	170	140	180	290
Screen Area - m ²	3.75	5	7.5	10	10.5	13.5	16.75	13.5	18	22.5
N°. of Screens	3	4	3	4	3	4	5	3	4	5
Drum Motor Power - kW	1.1	1.1	2.2	3	3	4	5.5	4	5.5	7.5
Aspiration Power - kW	2.2	2.2	4	4	5.5	5.5	5.5	9.2	9.2	9.2
Motor Decanting Screw - kW	0.55	0.55	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Length - mm*	2935	3590	3930	4780	4370	5280	6175	4480	5390	6300
Width - mm*	1256	1256	1610	1610	2110	2100	2100	2620	2620	2620
Height - mm*	3170	3170	3850	3850	4600	4600	4600	5400	5400	5400
Weight Empty - kg	800	900	1250	1350	1000	2150	2350	2900	3400	3900
Volume - m ³	11.7	14.3	24.4	29.6	42.4	51	59.7	58.7	70.7	82.6

*Overall dimensions

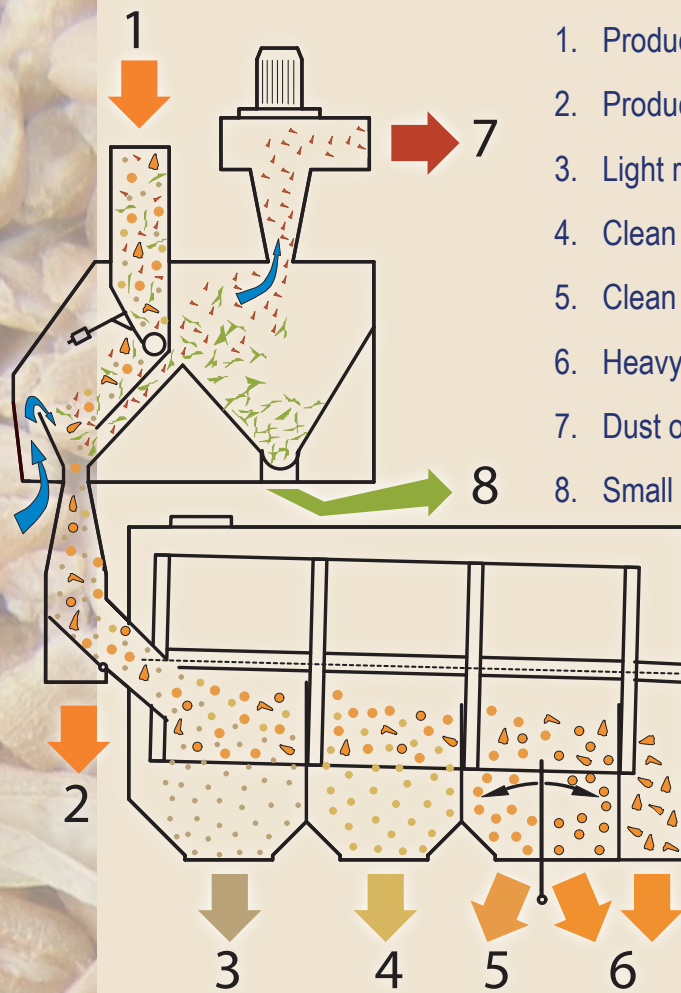
**Pre-cleaning output with wheat, specific weight 0.78 t/m³ - 20% RH - Impurities 2%



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1. Product with impurities inlet.
2. Product outlet (bypass).
3. Light rejects outlet.
4. Clean product outlet.
5. Clean product outlet.
6. Heavy rejects outlet.
7. Dust outlet.
8. Small impurities outlet.

The product enters by gravity into a motorised roller distributor and is evenly distributed over its whole width; the subsequent curtain descent of cereal encounters across airflow, which carries away light impurities (decanted by a cyclone or filter) and deposits a part of the heavier particles in a decanting hopper, equipped with a screw for reject expulsion. The dust free grain enters a cylindrical rotating drum with interchangeable perforated screens. The first screen removes light impurities (sand, splits etc.), while the following screens allow the good grain to pass through pre-sized holes and the large impurities come out at the end of the drum. The choice of screen perforation size depends upon the cereal and the type of reject to separate out.

Construction

- Aspiration cowling with pressed galvanised panels.
- Product inlet hopper.
- Aspiration intake with vertical or horizontal positioning.
- Airflow dampers.
- Rotary drum connecting hopper.
- Cowling and drum support uprights in pressed galvanised sheet.
- Mobile lateral doors fitted with handle and lock.
- Perforated carbon steel plate screens.
- Manual drum inclination.

- Nylon brushes for screen cleaning.

- Fixed rotation speed.

- Manually regulated conveyor for discharge of large impurities.

Optional

- Variable drum rotation speed.
- Wooden rollers for screen cleaning.
- Motorised drum inclination.
- Wear proof polyethylene sheet.
- Motorised conveyor.



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