

Cleaner Aero Dynamic

Unicity of separators CAD

Separators CAD are the machines for the preparation of the qualitative high-yielding sowing material. The separators CAD are functioning in four regimes:

- previous cleaning of the seeds;
- primary cleaning of the seeds;
- secondary cleaning of the seeds;
- calibration of the seeds according to specific gravity.

Getting CAD, you receive an increasing of the harvest to 40%.

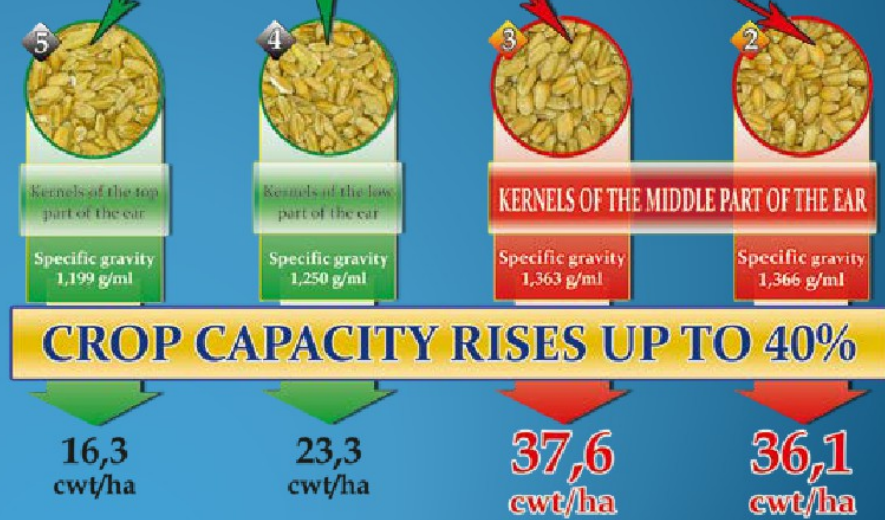


Processing of getting of high-yielding seeds

Separator CAD is a technology which allows trashing the seeds with biological value formed in the middle part of the spike (ear, head and so on). An annual selection of these seeds increases an average productivity up to 40%.

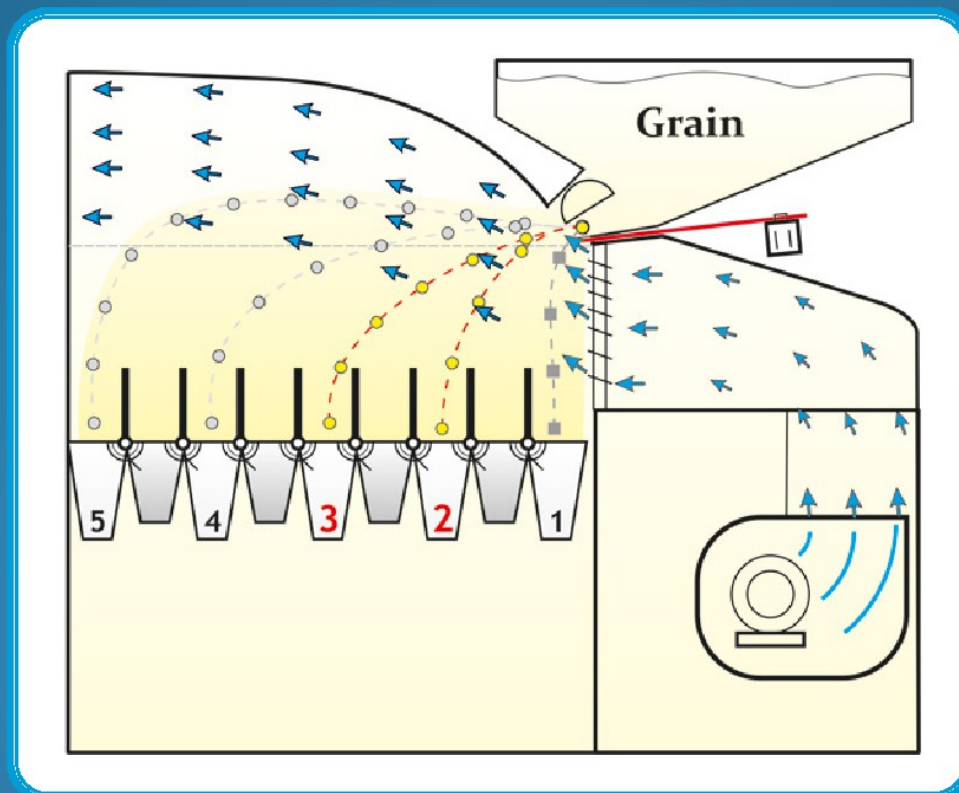


FRACTIONS OF SEEDS



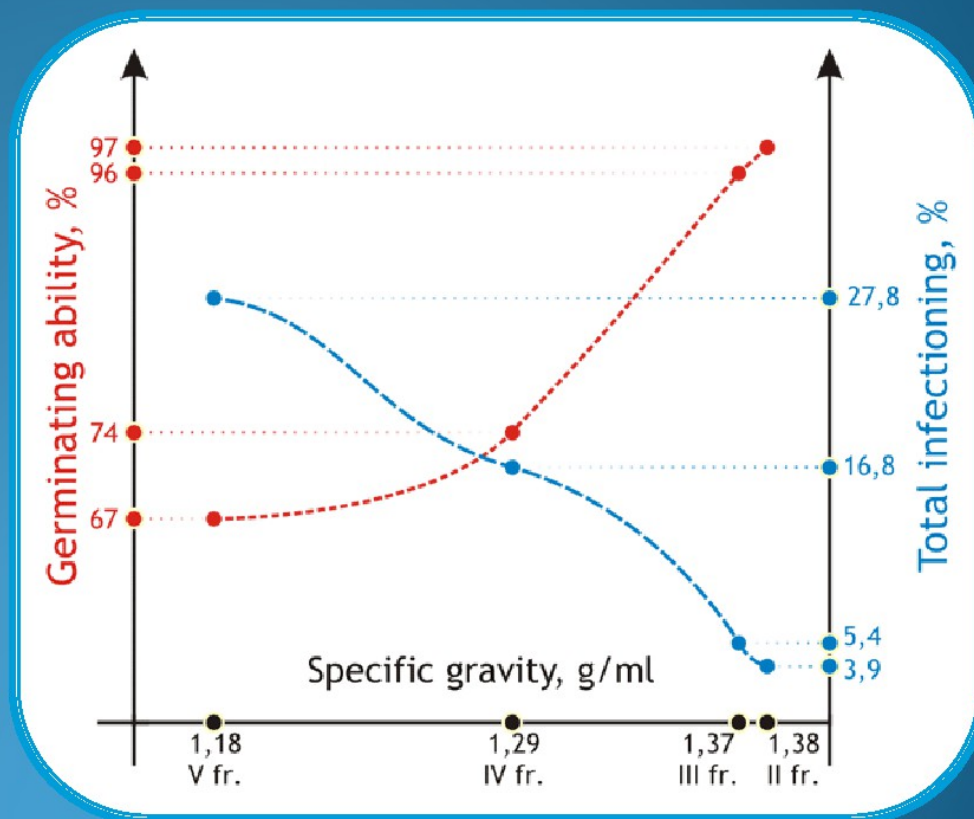
Processing scheme of separators CAD

The machine without grids separates with high accuracy any friable material according to specific gravity $\pm 3\%$. Heavyweight seeds are entering into the 2-3 fractions, hollow and cracked seeds are entering into the 4-5 fractions.



HEALTHY SEEDS

Separators CAD are used in pre-sowing processing of the seeds and also in order to reduce a level of infection of sowing material.



Calibration of wheat



Fractions of seeds	Initial material	2nd fraction	3rd fraction	4th fraction	5th fraction
Germination, %	92,5	99,1	95,8	88,4	83,1
Mass of 1000 seeds, g	43,9	48,4	45,2	41,3	37,9

Barley cleaning



Fractions of seeds	Initial material	2nd fraction	3rd fraction	4th fraction	5th fraction
Purity, %	88,70	99,33	98,14	95,65	90,76
Mass of 1000 seeds, g	32,04	49,75	44,43	37,65	30,13

Corn cleaning



Fractions of seeds	Initial material	2nd fraction	3rd fraction	4th fraction	5th fraction
Germination, %	84	92	89	75	74
Mass of 1000 seeds, g	136,0	176,0	156,2	111,8	105,8

Pea cleaning



Fractions of seeds	Initial material	1st fraction	2nd fraction	3rd fraction	4th fraction
Purity, %	88,1	99,8	98,6	60,2	46,4
Mass of 1000 seeds, g	312,0	377,1	355,6	265,2	254,1

Calibration of soya



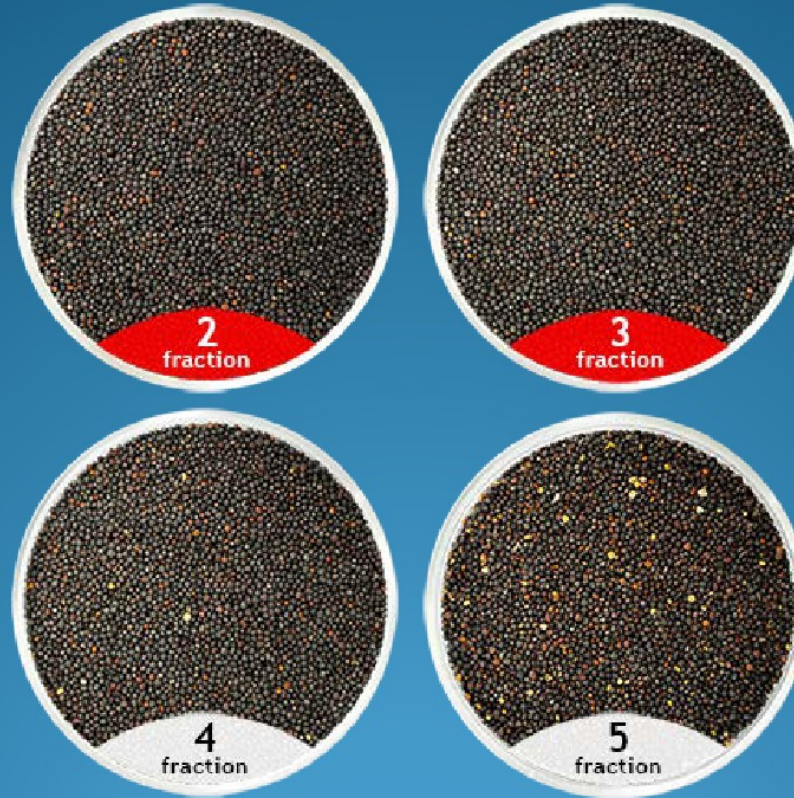
Fractions of seeds	Initial material	2nd fraction	3rd fraction	4th fraction	5th fraction
Purity, %	84,2	99,9	99,1	79,3	-
Share of fraction, %	100	60	21	6	9

Sunflower calibration



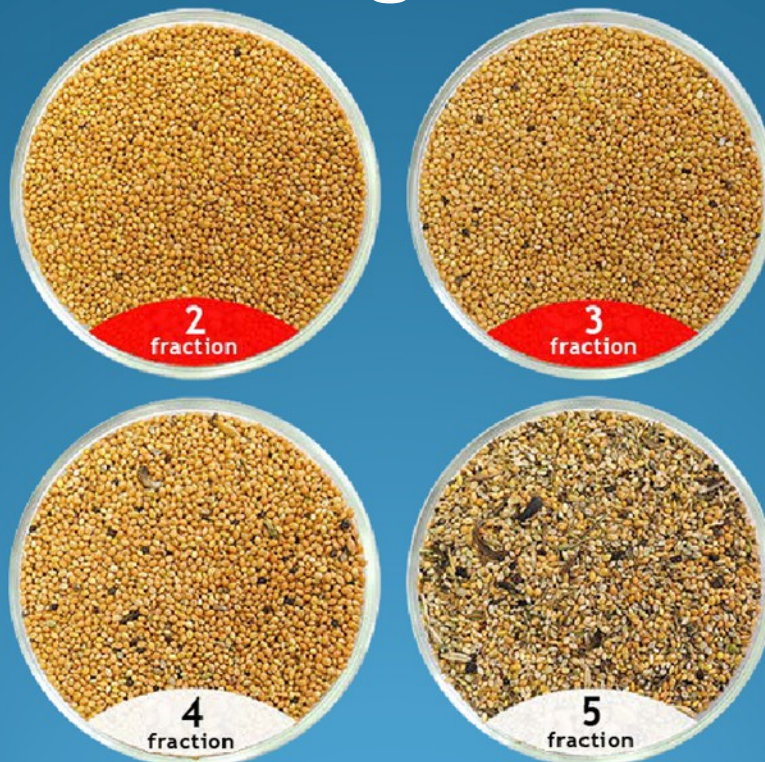
Fractions of seeds	Initial material	2nd fraction	3rd fraction	4th fraction	5th fraction
Germination, %	88	93	92	85	83
Mass of 1000 seeds, g	74,3	77,4	71,58	68,36	65,6

Rapeseed calibration



Fractions of seeds	Initial material	2nd fraction	3rd fraction	4th fraction	5th fraction
Purity, %	99,2	99,9	99,8	99,7	91,1
Mass of 1000 seeds, g	3,7	4,8	4,6	3,8	3,1

Millet cleaning



Fractions of seeds	Initial material	2nd fraction	3rd fraction	4th fraction	5th fraction
Purity, %	95,35	99,60	98,23	87,38	32,90
Mass of 1000 seeds, g	8,04	9,05	8,67	5,90	3,18

Calibration of rice



Fractions of seeds	Initial material	2nd fraction	3rd fraction	4th fraction	5th fraction
Germination, %	91,0	98	97	96	87
Mass of 1000 seeds, g	30,45	30,98	31,26	31,02	28,26

Technological aspects of cereal production

CAD separators:

cleaning of incoming material;
separation of cereals into fractions.

Also the CAD separator with high precision separates impurities with different specific weight from the main cereals, removes husking bran and by-products, husk, substandard crushed grain.



Calibration of corn grits

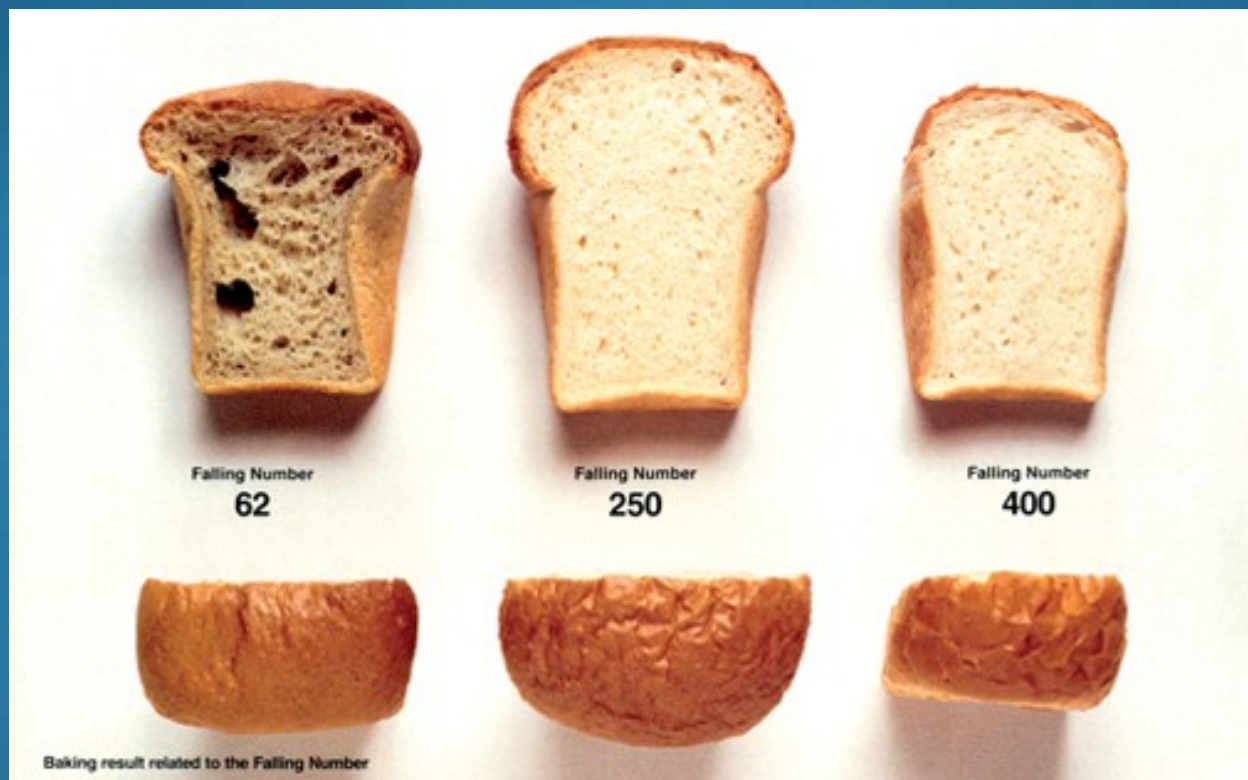


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Separation with CAD machine - is simple and effective method of improving the baking qualities of grain!

Improve Hagberg number (falling number) to normal.

CAD separators are recommended for use in flour-production lines, including the low quality of the source grain.

PROVEN: Research, Cambridge, UK, 2012



Today ecological (organic) agriculture is in the stage of rising. High ecological standards are achieved due to refusal from the use of pesticides, herbicides and fertilizers, genetic engineering, hormones, growth regulators and antibiotics. On the contrary, everywhere are used only organic fertilizers, mechanical methods of soil cultivation and crop rotation. The yield increase is achieved through selection of the most biologically active seeds of plant varieties, the most relevant for each particular area.



Our clients who are specialized on organics are:

- “Hennig`s Biogärtnerei & Glasatelier” (Germany);
- “Biodiversity Development” (Norway) and many others.

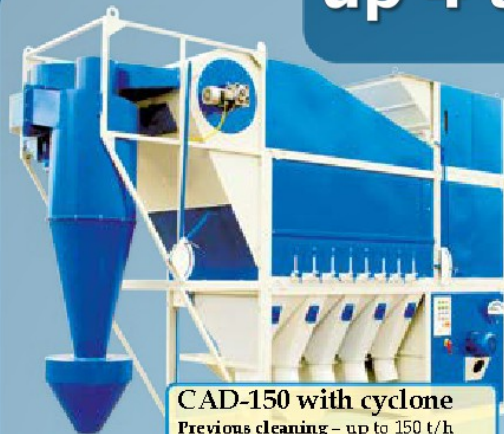
We invite to cooperation farmers whose aim is to obtain ecologically clean and safe agricultural products!



&

**Hennig's Biogärtnerei
& Glasatelier**

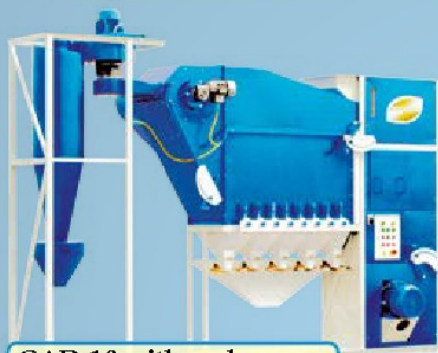
Wide model range of separators CAD up 4 to 150 t/per hour (23 models)



CAD-150 with cyclone
Previous cleaning – up to 150 t/h
Calibration – up to 50 t/h



CAD-50 with cyclone
Previous cleaning – up to 50 t/h
Calibration – up to 25 t/h



CAD-10 with cyclone
Previous cleaning – up to 10 t/h
Calibration – up to 5 t/h



CAD-30
Previous cleaning – up to 30 t/h
Calibration – up to 15 t/h

Sales territory



41 countries



Algeria



Armenia



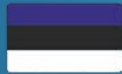
Azerbaijan



Belarus



Bulgaria



Estonia



Ethiopia



Finland



Gambia



Georgia



Germany



Ghana



Greece



India



Israel



Italy



Kazakhstan



Kenya



Kyrgyzstan



Latvia



Lithuania



Moldova



Mongolia



Norway



Poland



Romania



Russia



Sudan



Switzerland



Tajikistan



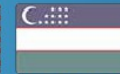
Ukraine



United Kingdom



USA



Uzbekistan



Zambia



Canada



China



“AEROMEH Plus” LLC

350031, Russia, Krasnodar region,
Krasnodar, Berezoviy settlement, Sculptora Kolomiytseva St., 61

Tel: 8(861)2384791; Viber: +79676677375

Skype: aeromehplus; e-mail: aeromehplus@gmail.com

Website: www.aeromeh.ru