

ALMAZ™

GRAIN CLEANERS



NEW GENERATION GRAIN SEPARATING MACHINES

MAIN ADVANTAGES OF ALMAZ™ GRAIN CLEANERS:

Versatility | Multi-functionality

Due to high productivity and separation ability, the machine can simultaneously pre-clean, primary and secondary clean in just one process! Our multifunctional machine replaces 2 – 3 other machines in the production line and increases yield by up to 30%.

Cleaning | Absence of damaged grain

Already damaged grain has a lower density thus the Almaz™ machine is able to separate it effectively, not just based on size. Absence of sieves allows the machine to handle the separation carefully without damaging your grain.

Low | Energy | Consumption

Almaz™ machines consume between 2.2kW of electricity for 4t/hr capacity to 37.25kW for 100t/hr.

Reliability | Durability

The simplicity of design with the absence of kinematic schemes and lubrication points, ensures low maintenance and high robustness.

Low | Maintenance

The machine does not require expensive scheduled maintenance as there are no sieves to change or replace for each grain type. There is also no need for downtime for cleaning after each cultivar as this is accomplished with compressed air which takes only 5 – 10 minutes.

ALMAZ™ MACHINES CAN:

- Separate the grains of all heavy and light impurities that differ from the main grain.
- Select grains based on its relative density, selecting the most biological valuable grains which ensure optimum germination and result in improved yields.
- Divide the mixture of different grains and cultures.
- Separate different kinds of cereal thereby giving these products a decent marketable appearance.



OUR MISSION

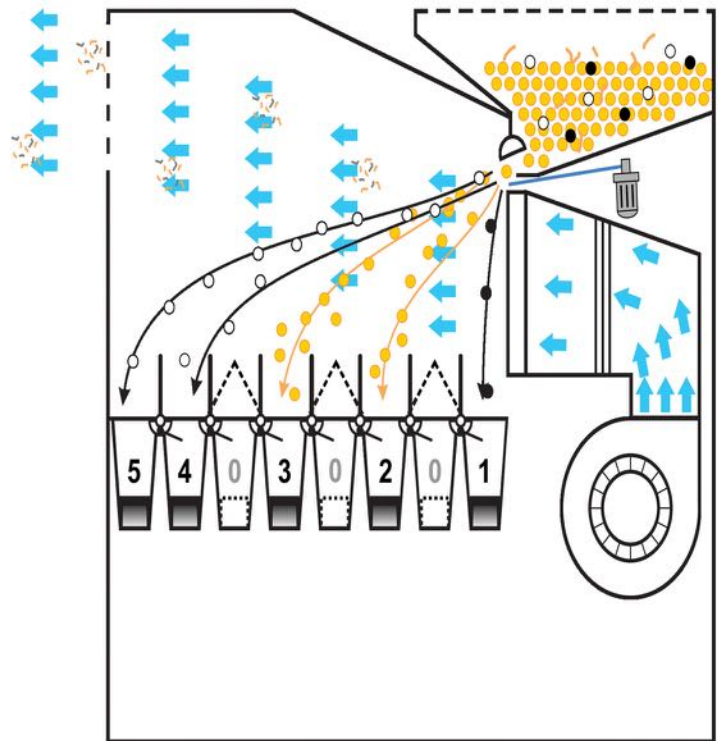
Almaz™ is determined to offer the best universal solution to grain cleaning, applying the most innovative technology to provide farmers worldwide with the best possible service and expertise in the business.

HOW IT WORKS

The power source of the machine is a high-frequency stream generator that is powered by a fan. Streams of air, produced by the generator and organized in a certain way, force the scanning of a grain flow, which falls from a bunker-feeder. As the result of this process, the separation of the grain takes place depending on the relative density of the grain and the state of its surface. The division of the particulate material into fractions is carried out thereby.

“Almaz” is the only separating machine, which separates mixtures based on specific gravity, size, and partly by aerodynamic characteristics. The machine is capable of purifying the seeds and separating them into independent fractions by their specific gravity in **one pass**; the first fraction includes heavy impurities (**stones, hard substances**), 2nd and 3rd ones – the seeds with the **highest specific density**, and 4th and 5th fractions – the seeds with the **lowest specific density**. The worked-out air flow (aspiration) carries out the dust and light impurities (husks, straw etc.). Therefore, the aspiration flow should be directed into the sedimentary chamber, cyclone, or straight to the atmosphere.

This method of separation provides a multiple flexible approach to each of the particles of the separating flow and ensures high-quality, precise multi-fractional separation of different cultures. The process affects grain of simple form and more complicated and distorted ones as well.



- - STONES, HARD IMPURITIES
- - FULL GRAIN
- - SHRIVELED GRAIN, LIGHTER IMPURITIES
- ☼ - DUST, HUSKS, STRAW
- ← - AIR
- 0 - RETURN FRACTION FOR REPROCESSING
- 1 - STONES, HEAVY IMPURITIES
- 2 - SEED GRAIN
- 3 - COMMERCIAL GRAIN
- 4, 5 - FEED GRAIN, FORAGE



The machine “Almaz” selects grain by its biological value (seeds with high protein, high gluten content)

ALMAZ MC-4/2

Preparation of bread grain	4 tons/hour
Preparation of seeds	2 tons/hour
Energy consumption (220V)	2,2 kW/hour
Weight	150 kg
Dimensions: length	1610 mm
width	600 mm
height	1650 mm
Price excl. VAT	



Seed germination - 99.7%. Absolute absence of seed damage. Uniform shoots. Simultaneous

ALMAZ MC-10/5

Preparation of bread grain	10 tons/hour
Preparation of seeds	5 tons/hour
Energy consumption	4,25 kW/hour
Weight	350 kg
Dimensions: length	2000 mm
width	850 mm
height	2350 mm
Price excl. VAT	



Raising yields up to 30%

ALMAZ MC-20/10

Preparation of bread grain	20 tons/hour
Preparation of seeds	10 tons/hour
Energy consumption	7,75 kW/hour
Weight	570 kg
Dimensions: length	2000 mm
width	1130 mm
height	2450 mm
Price excl. VAT	

ALMAZ MC-40/20

Preparation of bread grain	40 tons/hour
Preparation of seeds	20 tons/hour
Energy consumption	11,25 kW/hour
Weight	800 kg
Dimensions: length	2000 mm
width	1800 mm
height	2450 mm
Price excl. VAT	



Lack of weed and grain impurities in the seeds guarantees steady seed rate and clean fields.

ALMAZ MC-50/30

Preparation of bread grain	50 tons/hour
Preparation of seeds	30 tons/hour
Energy consumption	15,25 kW/hour
Weight	1100 kg
Dimensions: length	2000 mm
width	2200 mm
height	2450 mm
Price excl. VAT	



High-quality cleaning and separation of all types of seeds and bulk materials.

ALMAZ MC-100/70

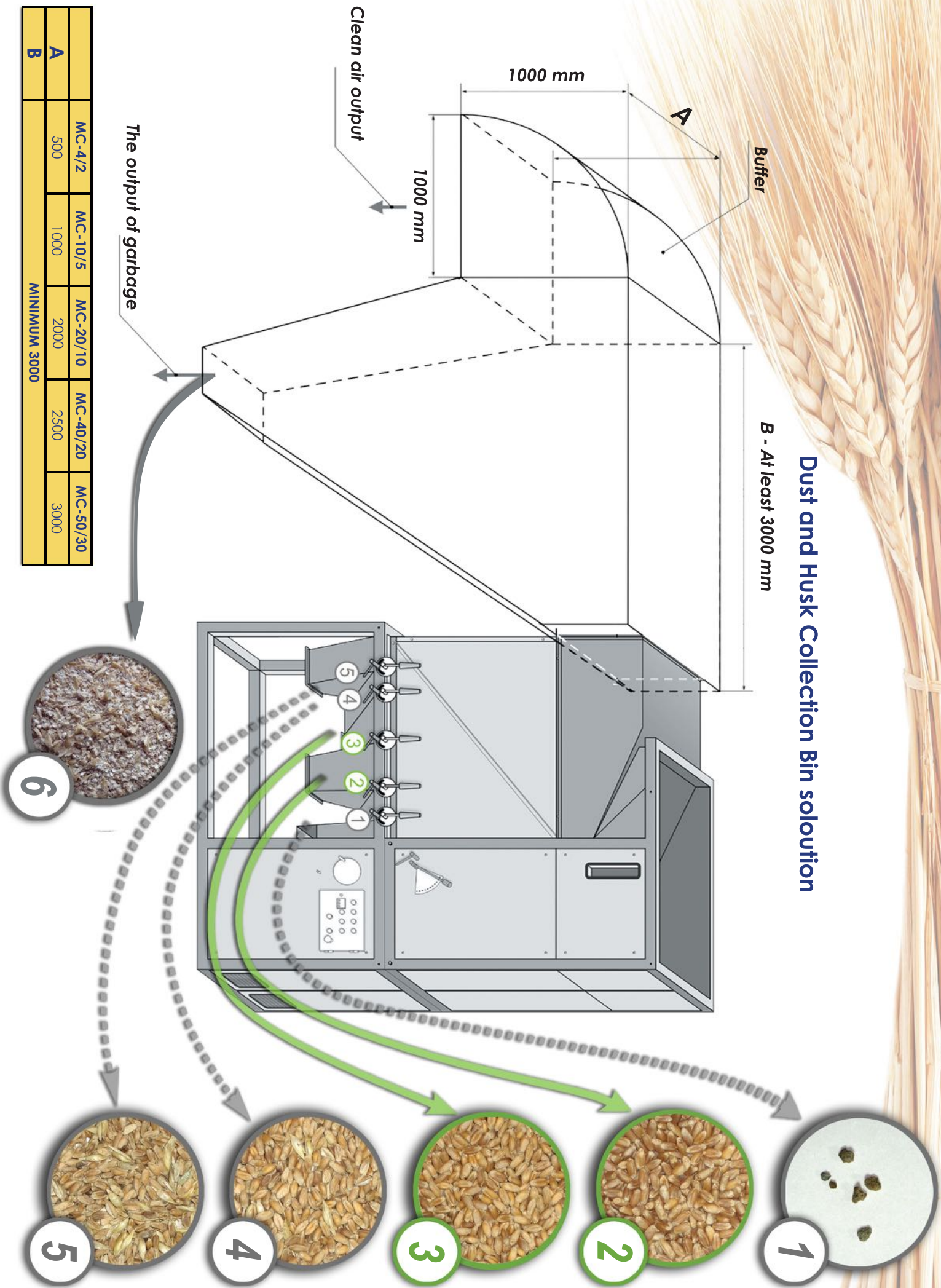
Preparation of bread grain	100 tons/hour
Preparation of seeds	70 tons/hour
Energy consumption	37,25 kW/hour
Weight	1450 kg
Dimensions: length	2500 mm
width	2315 mm
height	2770 mm
Price excl. VAT	



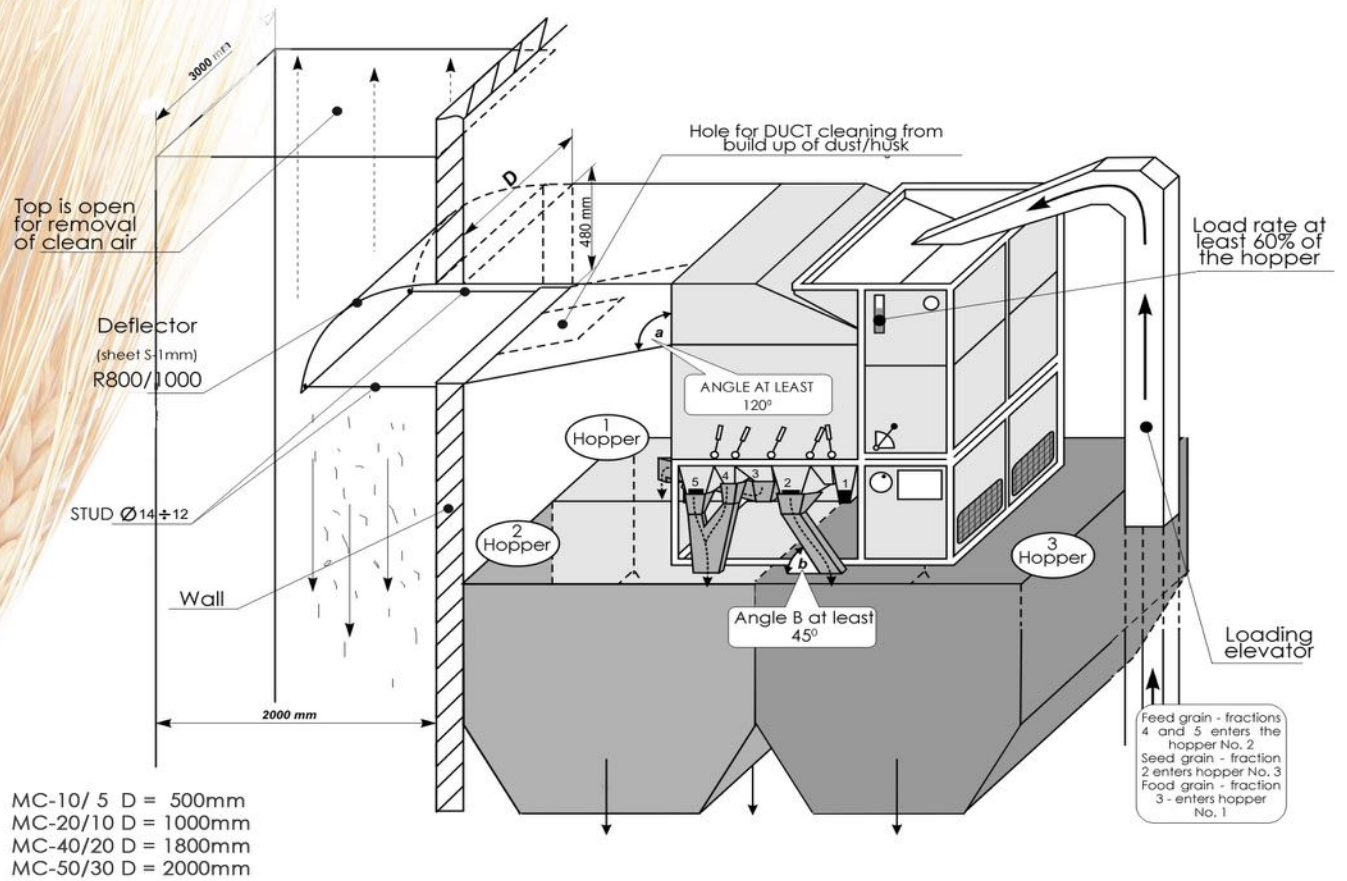
Simplicity and ease of use. Payback in a season.



Dust and Husk Collection Bin solution



	MC-4/2	MC-10/5	MC-20/10	MC-40/20	MC-50/30
A	500	1000	2000	2500	3000
B	MINIMUM 3000				



We can come to you, assess and test your product and show you how effortless Grain Cleaning can be!



Contact us, regards the ALMAZ™ team.



ALMAZ AGRO SA (PTY) LTD

UNIT 5, 450 GRANITE DRIVE,
KYA SANDS BUSINESS PARK,
JOHANNESBURG

ALLEN +27 782984114

ELENA +27 716434241

info@almazsa.co.za

WWW.ALMAZSA.CO.ZA

