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Grain Cleaner

This device was awarded the EUREKA 2002 gold medal, featured in CANADA's Farm Progress 2015 and other fairs. Preliminary seed cleaning is a fundamental step in preparing seed-grain for proper storage. Our centrifugal winnowing machine - grain cleaner (pneumatic channel) has been designed to clean seeds of corn, pulse crops, rape, seed grasses, plastics, sawdust, frozen fruit etc., from light litter and smaller seeds. Effective preliminary cleaning is achieved at 50-60% efficiency. For sowing, it is recommended to operate at 5-8% of the maximum capacity for wheat.

Maximum efficiency for wheat:

- WS 36** - machine with the capacity of - 36 b/h weight - 35 lb engine - 0.34 HP
- WS 110** - machine with the capacity of - 110 b/h weight - 60 lb engine - 0.5 HP
- WS 330** - machine with the capacity of - 330 b/h weight - 110 lb engine - 0.75 HP
- WS 730** - machine with the capacity of - 730 b/h weight - 198 lb engine - 2.0 HP
- WS 1500** - machine with the capacity of - 1500 b/h weight - 265 lb engine - 3.0 HP
- WS 2400** - machine with the capacity of - 2400 b/h weight - 395 lb engine - 5.0 HP
- WS 3500** - machine with the capacity of - 3500 b/h weight - 550 lb engine - 7.5 HP
- WS 4500** - machine with the capacity of - 4500 b/h weight - 795 lb engine - 10.0 HP

Larger grain cleaner on request

When cleaning difficult materials, e.g., plastics, sawdust, frozen fruit, etc., it is advisable to mount one more module and use 0.6-7% efficiency.
In order to prepare the seed for sowing, a yield of 5-8% is recommended.

Poland PAT. 233435;
USA PAT 10,702,890 B2;
Canada PAT. 3,018,839



Cascade Screening Device

This device is designed for cleaning granular material from larger and smaller fractions of previously air-cleaned grains. It consists of an upper cascade screen and a lower flat screen. Swinging plates are mounted on the frame of the upper cascade screen. As grains slide down the short cascade screen, they hit the swinging plates and the lower screen, losing the energy gained during the downward motion. Longer, thinner impurities move in a lying position and do not pass through the screen holes. Grains sticking to the screen surface sift through faster, clearing any clogged holes. The lower flat screen cleans smaller fractions from the grains. Swinging plates are also mounted on the frame of the lower flat screen to slow down the movement of the grains across the screen. This screening device has no drive components, is lightweight, compact, and simple in design, and is highly durable.

The machine is protected by the following patents: Poland PAT. 238108;
USA PAT 11,325,158 B2; Canada PAT. 3,074,454.



Performance for wheat	Weight kg
WS/S 130 - 130 b/h ; 3.5 t/h	45
WS/S 190 - 190 b/h ; 5.0 t/h	70
WS/S 300 - 300 b/h ; 8.0 t/h	100

Surface Coating Device for Granular Material

This device consists of a cylindrical housing within which a smaller cylindrical enclosure is mounted. Air flows between the enclosures, pumped by a fan. Inside the inner enclosure, grains are dispersed by a centrifugal guide. Below this guide, a component disperses seed dressing, constructed from a chamber covered by a screen on top. Dressing is applied through a nozzle onto the screen. A blower pumps air into the chamber, and the air expelled through the screen holes breaks up the dressing droplets. The air flowing from one housing to the other is saturated with dressing, enhancing coverage of the grains in their crevices. The process of coating the grains is contained.

The machine is protected by the following patents: Poland PAT. 234117;
USA PAT 11,540,436 B2; Canada PAT. 3,085,440.

Performance for wheat	Weight kg
WS/F 1400 - 185 - 1400 b/h ; 5.0-38 t/h	120



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Multifunctional Grain Cleaner

This advanced device combines the functions of several separate devices. It effectively removes various impurities from grains, such as broken grains, chaff, dust, stalks, cobs, stones, ferrous metals, non-ferrous metals, grain pests, and significantly reduces the amount of sand adhering to the grains. The cleaner achieves this through a multifunctional cleaning system that removes various types of contaminants, increasing both the efficiency and effectiveness of the cleaning process. It can easily be combined with a cascade screen. The device uses a series of mechanical and air systems to separate impurities based on their size, weight, and other physical properties, ensuring precise cleaning and preparation of the grain for further processing or direct use. It requires low electrical energy, is lightweight.

Poland PAT.244753; USA PAT. 12,097,534 B2; Canada PAT. PENDING.

Performance for wheat		Weight kg	Power HP
WS/K 80	80 b/h ; 2.2 t/h	140	3.0
WS/K 130	130 b/h ; 3.5 t/h	215	5.0



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POLAND
Inventor, designer
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of inventions and
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