SOLUTIONS.
TOGETHER.
CONVEYING | DRYING | SEED PROCESSING | ELECTRONIC SORTING | STORAGE | TURNKEY | SERVICE
Cimbria develops and manufactures an entire range of seed processing machines and equipment for all sorts of cleaning, sorting, grading and treatment. We deliver seed-processing equipment for a variety of grain, cereals, oil seeds, grass seeds, rice, legumes, garden seed and other commercial seed, and our equipment is capable of working under all kinds of climatic conditions all over the world.

Cimbria holds a strong world-leading market position within seed processing equipment, where we maintain a strong focus on quality and cost-benefit.
SCREEN CLEANERS

The wide range of Cimbria screen cleaners ensures excellent efficiency and purity in the cleaning of all kinds of crops by removing undesired elements and potentially dangerous impurities with high precision. The efficient and gentle cleaning process ensures the quality and germinating capability of the seed by keeping the quantity of damaged and foreign seeds at an absolute minimum. The result is increased product value and higher earnings. The Delta and Mega cleaners are available in various series with more than 30 different models with capacities from 1 t/h fine cleaning up to 450 t/h pre-cleaning.

DELTA SUPER FINE CLEANERS
100 – 108 series
Capacity up to 25 t/h
Screen area 0.96 – 24 m²

DELTA FINE CLEANERS
112 – 118 series
Capacity up to 25 t/h
Screen area 3 – 24 m²

DELTA GRADERS
122 – 128
Capacity up to 25 t/h
Screen area 3 – 24 m²
DELTA PRE CLEANERS
132 – 159 series
Capacity up to 250 t/h
Screen area 5 – 24 m²

DELTA COMBI CLEANERS
143-159 series
Capacity up to 250 t/h
Screen area 7 – 24m²

MEGA CLEANERS
162 – 168 series
Capacity up to 450 t/h
Screen area 22 – 38m²
GRAVITY SEPARATOR

The Cimbria Gravity Separator is used for the separation of any kinds of kernels and granular products of almost identical size. The Gravity Separator is used when the limits of air-aspiration systems as well as screening are reached. However, the Gravity Separator does no substitute those foregoing sorting steps, but it is an additional piece of equipment for separating more exactly according to the specific weight. Capacity 2 - 15 t/h.
The indent cylinder separator is used for grading by length all granular materials such as wheat, oats, fine seeds, lentils, for separating stalks from sunflower and beet seeds and for separating unwanted long or short product impurities. The size of grains can vary between 1.0 mm and 24 mm.

Depending on the required grading the incoming product will be sorted according to roundness or length.
Cylindrical screening machines are used for sorting and grading of seeds. The incoming material is sorted according to its width (round perforation) and respectively its thickness (slotted perforation).

All kernels thinner than the screen holes fall through the screen, and all thicker kernels remaining in the screening cylinder are transported to the end-outlet.

By means of the permanent circulation of the product and the resulting centrifugal force, each kernel is forced to be in contact with the screen perforation plenty of times, enabling sorting operations to be carried out with high accuracy. Capacity up to 30t/h.

PARALLEL OPERATION

It is necessary to deflect the product falling through the upper screening cylinder so that it does not hit the lower cylinder. Therefore, deflector boxes are used. The oversize product is discharged at the end of each cylinder. The even distribution of product to the single cylinders is achieved by a weight regulated flap on the inlet, to the separate inlet channels.

SERIES OPERATION

The product falling through the upper screening cylinder is fed to the inlet of the next cylinder by means of a vibrating trough. The oversize product is discharged at the end of each cylinder.
Destoners find their application in the seed sector especially on products being harvested close to the ground. They are used for separating granular material according to the specific weight into two fractions and in dry material condition. The target is the elimination of heavy impurities, such as stones, metallic particles and others from e.g. coffee, grain or pulses. The Destoners are available in 4 models with different capacities up to 30 t/h.
The Cimbria Drum Scalpers have been developed for heavy duty rough cleaning of oil seed and other products as grain and maize. The cylindrical screens are separating coarse impurities and foreign materials like stones, large straw, maize cobs etc. Capacity up to 500 t/h.

DS 1250
This sturdy drum scalper in heavy duty execution is Cimbria’s strongest machine in terms of hourly capacity. It finds application in areas with an outstanding throughput, like port silos, mixed feed plants or breweries. Wherever a rough precleaning at highest capacities is requested, this machine is the absolute ultimo. Capacity up to 500 t/h.
The Cimbria Rotocleaner is an efficient and sturdy separator for all types of grain and maize. The machine has a high capacity for pre-cleaning grains etc. with a high moisture and impurity content. It is usually positioned at the intake point of a plant and requires only a minimum of supervision and maintenance. The Rotocleaner is available in three sizes with capacities from 75 to 150 tonnes grain p/h. Capacity up to 150 t/h.

VA 900
The VA 900 is a rough drum scalper for separating big impurities during the precleaning process. The rotating drum is fed from the inside, rough particles flow over the screen and enter a separate hopper in the end of the machine, while precleaned product falls into a lateral outlet hopper. Capacity up to 100 t/h.

VA 251
The VA 251 is a rough precleaner for separating straw, plastic strings and other long impurities during the precleaning process. The rotating drum is fed from the outside, thus long particles lay on the outside of the cylinder and are being stripped off into a separate hopper, while the main product falls through the screening cylinder. Capacity up to 50 t/h.
DE AWER AND BRUSH MACHINE

Cimbria De awner is specifically designed for treatment of malting barley, seed grain and all other seed varieties. Cimbria De awners are employed mainly for de-awning of barley, breaking clusters of beet seed and for surface polishing of grains and vegetable seeds thereby improving the appearance and increasing the bushel weight. Capacity up to 60 t/h.

BRUSH MACHINE

The Cimbria DELTA Brush Machines are suitable for handling grass seeds and clovers, and separating double grasses. It is likewise used for removing the hairy tails from the germ end of oats. Capacity up to 4 t/h.
The Maize Sheller is specially designed for gentle shelling of husked ear seed corn. On request the machine can be combined with a DELTA cleaner 191 (flat bed screen cleaner), for the removal of rachis, oversize kernels and small impurities from shelled corn. Capacity: husked ear seed corn 20 t/h.
Prior to the sowing into the ground, the seeds must be protected against infestation by fungi and animal pests. Further, microorganisms and fertilizers can be applied, thus actively supporting the plant’s growth. To obtain an efficient protection, a uniform coating of the surface of each individual seed grain must be ensured.

SURFACE TREATMENT

» APPLICATION OF CHEMICALS
» SURFACE DRYING

CENTRICOATER

The Cimbria Centricoater is designed for the application of coating value added seeds with costly seed treating materials. The system is a continuous batch operation utilising a highly accurate inlet scale together with a precise chemical dosing system controlled by a PLC. The system provides improved seed coverage and a more uniform distribution of treatment materials on the seed as compared to traditional continuous operating drum type treaters. Capacity up to 50 t/h.

CONTINUOUS TREATER

The continuous treaters are built for continuous treatment of seeds, mainly for cereals at higher capacities. The precise dosing systems for both grain and treating agents, combined with the distinguished primary and secondary mixing chamber result in excellent treating results. Capacity up to 50 t/h.

JOG CONVEYOR DRYER

Jog Conveyor Dryers are mainly used after the coating, pelleting and weight gaining process to prevent wet kernels from clumping together during bagging off. They round up Cimbria’s big machine range for Chemical treatment of seeds including especially the Centri-coaters and Chemical mixing systems. Due to very gentle handling of the sensible product inside the machine, there is no danger of abrasion on the coating layer.
Apart from the versatile machine range for more or less standard grain and seed cleaning, Cimbria also pays attention to special sorting tasks. This enables us to support customers in difficult cleaning matters for niche products.

**ASPIRATOR**

**PRE-AFTER ASPIRATOR**

The Cimbria Aspirator can be used both as a pre- and after cleaner aspirator for the effective extraction of dust, glumes etc. Significantly as a pre-cleaner the Aspirator reduces the dust emission in stores and during drying and cleaning.

**VELVET ROLLER**

Velvet roller / Sorrel separators are designed to separate the sorrel seed from the seed of trefoil plants (clover, lucerne). The separator also removes seeds from other weeds unless their surface is smooth and shrunk unripe seeds or seeds fragments. The cleaning unit is formed by twinrolls covered with velvet. 10 pairs of rolls are included in the maschine. Capacity up to 200 kg/h.

**BELT SORTER**

The belt sorter type BS is focused on the rolling characteristics of the single kernels. It can separate round from flat or respectively long kernels. Mainly sugar beet seed, peas, soybeans and kernels with similar round shape can be freed of half-broken, sticks or "twins" by this very simple sorting principle, giving good overview of the sorting process by means of the generous insight to the surface of the sorting belts. Modular construction allows the use of several parallel decks to cover a wide capacity range.
WORLD’S LARGEST SUPPLIER OF SEED PROCESSING EQUIPMENT