

Seed Conditioning & Processing Global Solution Partner



PRE-CLEANER+DE-STONER GPC 12X28

Pre-Cleaner + De-Stoner

Akyurek Technology 'Pre-Cleaner + De-Stoner' approves its self with its efficient and successful concept.

Separations of admixtures at first stage in cleaning process allows for increased efficiency. Performing foreign material separation early in the cleaning process allows for increased efficiency by downstream processing equipment.

When receiving product at beginning of season, unload time is very important. Akyurek Technology 'Ground Peanut Pre-Cleaner' can work at high capacity volumes of product, while performing accurate and precise cleaning.

'Pre-Cleaner + De-Stoner' machine has got 3 Stages;

Stage 1- Screen Boat with 2 Levels of Screen for 'Scalping' & 'Screening' designated to separate 'oversize admixtures' like long sticks and large stones and 'undersize admixtures' like sand and fine dust separated by sand screen.

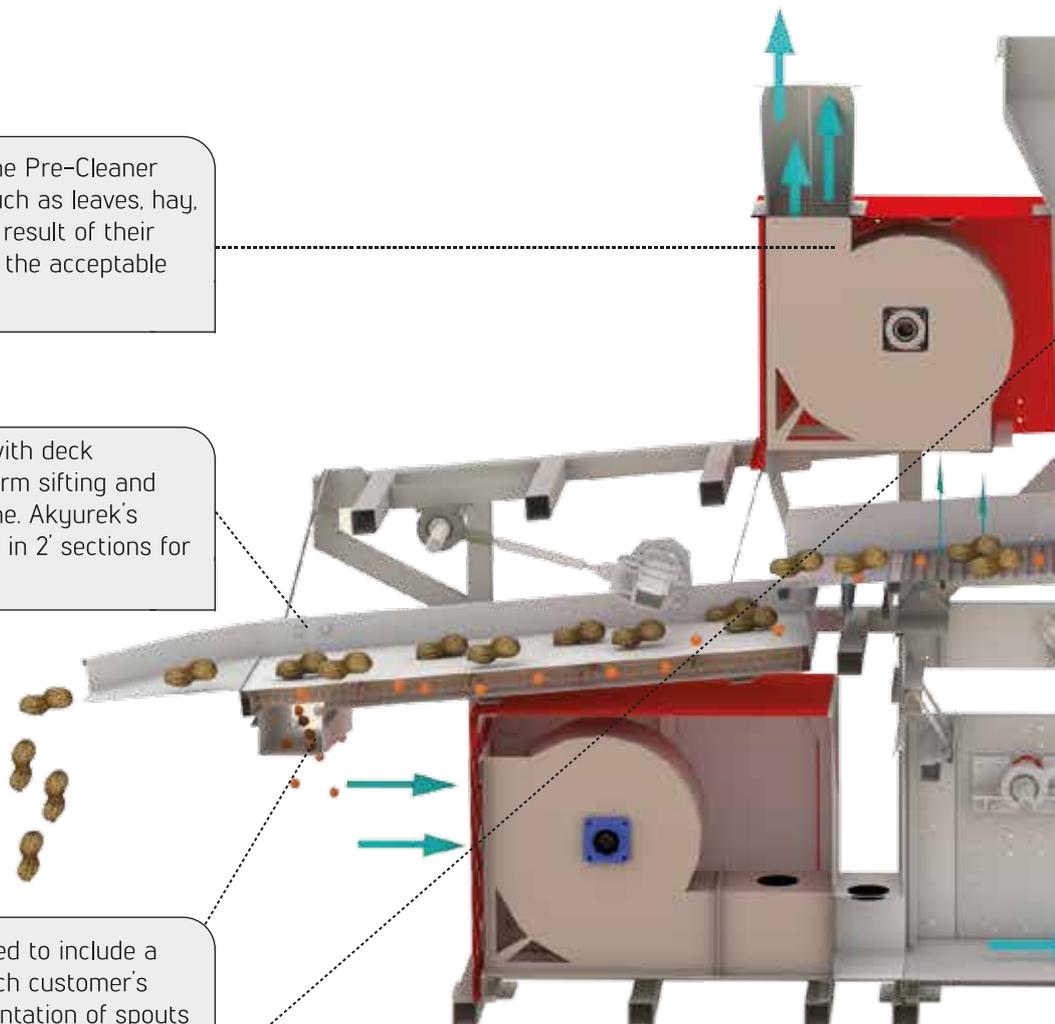
Stage 2-De-Stoner with efficient density separation of heavier admixtures like stones, rocks, glass or any other admixture heavier than Ground Peanut.

Stage 3- Screen Boat with Single Screening Level to separate loose Peanut Kernels that are already shelled from its husk during field to warehouse trip so loose kernels can be processed separately and safely.

Aspiration: In the aspiration section of the Pre-Cleaner destoner, light foreign material liftings such as leaves, hay, small sticks, and pops are removed as a result of their lower density when compared to that of the acceptable product.

Screening: Screen combinations, along with deck configurations, can be arranged to perform sifting and scalping operations on the same machine. Akyurek's quick change screens are manufactured in 2' sections for easy changing

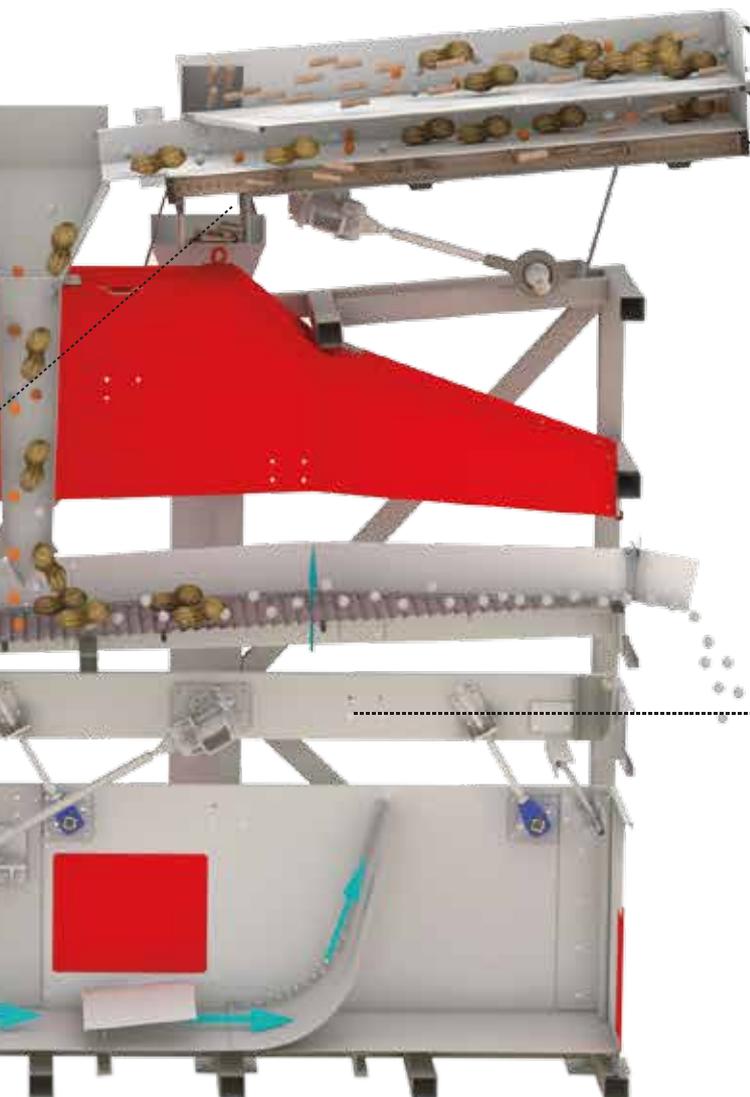
Spouts: Each machine is custom designed to include a spouting configuration that matches each customer's specific situation. Size, location, and orientation of spouts are some of the many modifications that Akyurek can incorporate into the machine's design in order to accommodate unique separations or space constraints.



Work Principle: Product enters the cleaner through a variable speed roll feeder, which allows for flow rate control (optional). The roll feeder evenly spreads the product and transfers it to the deck, large admixtures separated at upper screen, product pass through top screen and expose to bottom screen. Dirt and sand is removed on the lower screen with the use of perforated sifting screens. Once the dirt and sand is removed, product is conveyed to the destoner. A fluidized air bed generated on De-Stoner deck via lower fan for stratification, eccentric system conveys rejects (stones and heavy admixtures) on opposite direction whilst accept seed lot leaves the machine on opposite direction. Light dust particles travel through the ventilation system and then to a dust collection unit. The remaining acceptable product continues down the deck and flows over another series of perforated screens to remove any meats, splits, or any other siftings that may be present.



DECKS: It is essential for product to be properly distributed to the screens in order for optimum separation to occur. If the product is too deep, it cannot be adequately presented to the screens for separation. In most cases, the siftings are generally lighter than desirable product. A deep product flow compounds the sifting process, thus causing the lighter siftings to migrate to the top of the flow as it travels down the vibrating deck. Increased screening area ensures adequate product contact allowing for greater screening efficiency. With this knowledge in mind, Akyurek manufactures the Pre-1Cleaner in four different widths to ensure that each customer's capacity requirement is met.



Ball Tray: Akyurek's unique ball tray design gives the 2" ball used for cleaning screens unprecedented random action, and has proven to be far superior to the woven wire systems found in other machines. All ball trays are manufactured in 2' long removable sections for easy clean out when sanitation is a high priority

De-Stoner: The Pre-Cleaner De-stoner is designed to lift the acceptable product across the deck. The heavier foreign material, such as stones, heavy dirt balls, and metal will climb up on deck and out of the product flow, accept product will move forward.

PRE-CLEANER+DE-STONER	
MODEL	AKYUREK GPC-12X28
CAPACITY	
GROUNDNUT	10 to 15 tph
Weight	
Net	3500 kg
Diemensions	
Height	3300 mm
Width	1730 mm
Length	5000 mm
Total Electrical	
Power Consumption	34,5 kW
Air Volume	
Air Requirment	37000 m ³ /h



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