

SEED PROCESSING & CONDITIONING SOLUTIONS

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AKYUREK BRUSH TYPE FINE SCREEN CLEANERS 0.TEM-005

Work Principle

The product is poured into the inlet which has an adjustable feed gate. Whilst product is falling down through the vacuum chamber on screen, fine particles are separated, at pre-suction stage first of five. Screen with small perforation is deployed for separation of small impurities from product at the first deck.

Whilst the small impurity separation is carried out at the first deck at the same time vacuum chamber ensures a homogenous airflow with hand-operated adjustable our airlifting channels and air screens by sucking the light product up through the airlifting channel in to the vacuum chamber where these light impurities are discharge by screw conveyor from the chamber.

Seeds that is separated from small impurities and light impurities moves on to second screen that has large perforation (large than prime seed) which is deployed for large impurity separation from prime seed. Large impurities stay on top of screen and prime seeds fall through the perforation and leaves the machine from required side of the machine left or right hand side.

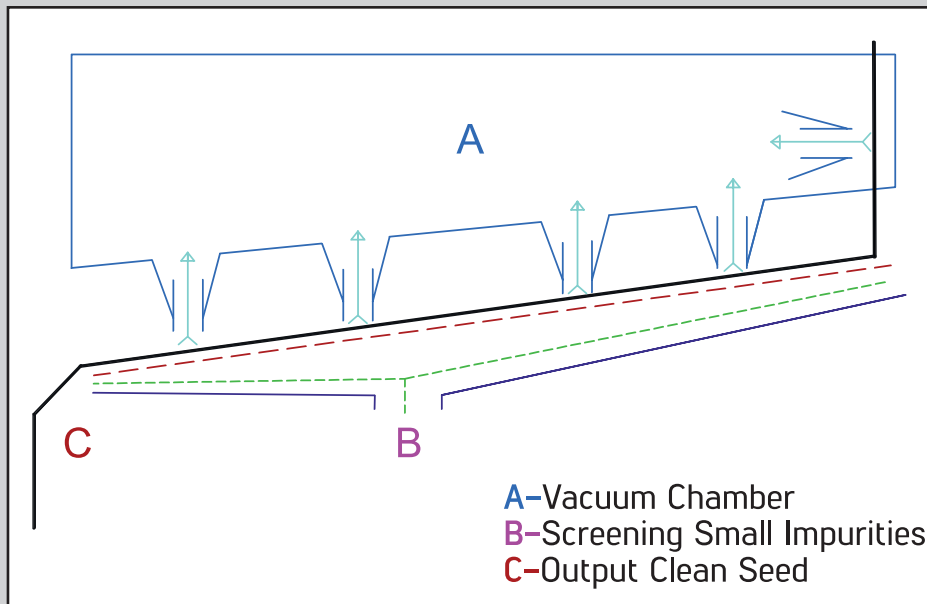
Single Deck Fine Screen Cleaner

-Single Deck Cleaner machine is for cleaning of all type of dr and granulated seeds from organic and non organic impurities.

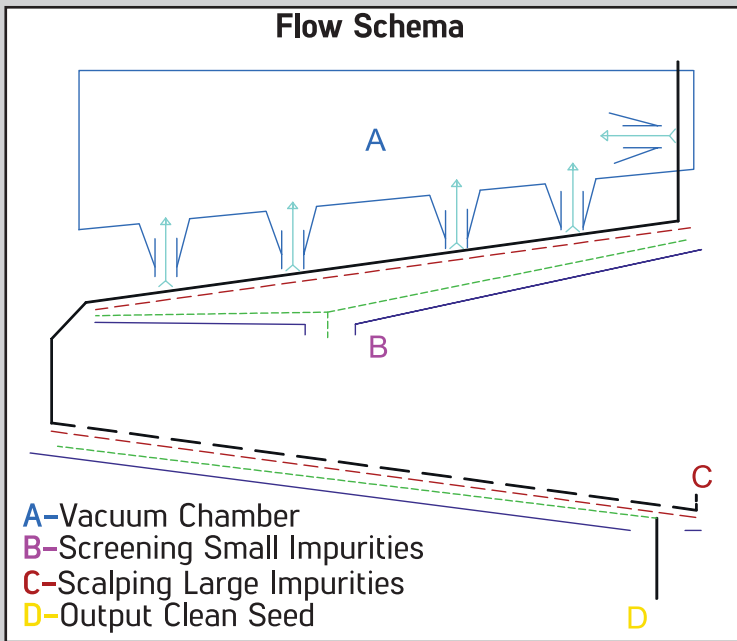
Single Deck Cleaner Machine can separate:

- Small impurities by means of screening / sieve.
- Light impurities by means of 5 times Air Screening.

Screen lay out would change the purpose and task.



Model	Single Deck Fine Cleaner	Two Deck Fine Cleaner	Three Deck Fine Cleaner
Technical Info	2	2	3
Air Consumption m ³ /h	12,600 m ³ /h	12,600 m ³ /h	12,600 m ³ /h
Adjustable Air Vacuum Channel Numbers	5	5	5
Number of times product exposed to vacuum	5	5	5
Screen Dimensions	1000*2000 mm	1000*2000 mm	1000*2000 mm
Screening Area	2 m ²	4 m ²	6 m ²
Screen Numbers	1	2	3
Total Number of Brushes	5	10	15
Screening Boats	1	2	3
Number of Motors	5	5	5
Total Power Requirement	6.3 kW	6.7 kW	7.1 kW
Standard Volt	380	380	380
Optional Volt	220-440	220-440	220-440
Weight	1550	1550	1760
Vibration	Eccentric	Eccentric	Eccentric



Two Deck Fine Screen Cleaner

- Two Deck Cleaner machine is for cleaning of all type of dry and granulated seeds from organic and non organic impurities.

Two Deck Cleaner Machine can separate:

- Large/course impurities and small impurities by means of screening/sieve.
 - Small impurities by means of screening / sieve.
 - Light impurities by means of 5 times Air Screening.
- Screen lay out would change the purpose and task.

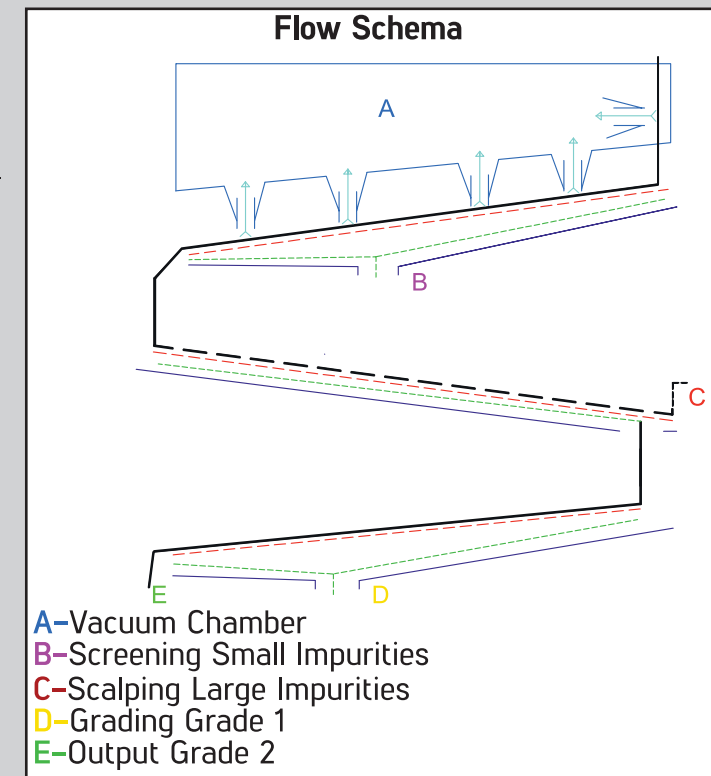


Three Deck Fine Screen Cleaner

- Three Deck Cleaner machine is for cleaning of all type of dry and granulated seeds from organic and non organic and non organic impurities.

Three Deck Cleaner Machine can separate:

- Large/course impurities and small impurities by means of screening/ sieve.
 - Light impurities by means of 5 times Air Screening.
 - 2 grades of seeds as out put, alternatively further screening for up most cleaned product.
- Screen lay out would change the purpose and task.





AKYUREK BRUSH TYPE SEED GRADERS B.MAC-007

Free or Vibratory Product Feed

- Uninterrupted and regular product flow is maintained from elevator or a hopper.
- Optional
- Large Liner feeding vibratory maintains product feed process equally through entire width of the screen.
- As the liner feed vibratory distributes the product evenly, it has an important role in optional dust control system.
- It can keep itself clean.
- Product blocking is prevented thanks to the special product feed chamber.
- Cleaning is not required when various product processing is required.

Entrance and Exit Air Suction System *OPTIONAL

- Smooth and independent dust cleaning is manufactured as a separate system.
- It is used for cleaning dust and light products before the product reaches to screens.
- The product provides an excellent product purity with the air suction performed before product outlet, light grains, shells, etc. by-products are cleaned.

Screen Decks

- Have long operation life thanks to resistant construction.
- Have long operation life thanks to flyboard absorbing the vibration.
- Screen contact points have easy-replaceable pieces.
- * Optional -laser cut black plate Decks, chrome plate Decks and screens.

Brush System

- Used for keeping perforated screens clean.
- Cleanness is kept at maximum level thanks to its brushes even at lowest degrees.
- Successfully performs cleaning even for most difficult products with its strong structure.
- Screens can be easily replaced since installed separately with screens.

Balanced Eccentric System

- Balanced with counter weights for smooth operation principle.
- Applies minimum stress to building ground and machine chassis.
- Equipped with special support bearings.
- Maintains correct RPM and stroke effect for reaching the maximum cleanness.

Product Flow Change

- Fixed; all screens provide sub-screen Graded products.
- Chutes are re-designed for separating the over size from screen flow according to requirements during machine ordering and production.

Easy-to-Use

- All machine adjustment apparatus are at accessible heights.
- Machine adjustments can be done with sensitive and excellent scales.
- All adjustment points are at the same point with output chutes.

Technical Data

Product Code	B.MAC-007/1	B.MAC-007/2	B.MAC-007/3	B.MAC-007/4	B.MAC-007/5	B.MAC-007/6
Number of Screens	1	2	3	4	5	6
Screening Surface Area	2 m ²	4 m ²	6 m ²	8 m ²	10 m ²	12 m ²
Sizing Number	1	3	4	5	6	7
Number of Screen	5	10	15	20	25	30
Total Power	1.47 kW	2.05 kW	2.95 kW	3.75 kW	4.5 kW	4.8 kW
Weight	550 kg	1050 kg	1150 kg	2200 kg	2580 kg	3075 kg



MODULAR COMBO SCREEN CLEANER & GRADER O.MAC-002

Working Principle:

The product feed into sieve boats through the feeder elevator. Each sieve boat has specific sizes of holes for impurities larger than the crop or smaller than the crop. Sieve boats incline downwards where the crop moves whilst sieve boat vibrates and impurities fall of the sieve perforations.

To separate the straw, chip, glumes and etc. the product passes below the aspirator room. Aspirator room has five adjustable suction imports where crop exposed to air cleaning five times. After cleaning operation, the product transferred to the grading boats through the middle elevator which is the second elevator in the machine. The product can be graded maximum to five; the eccentric system obtains the best analysis of the product. The cleaning system of under screen has brushes moving forward and back, so there is no risk for the screen to be blocked.

1-Pre - Clean Section:

First part of the machine is for Pre cleaning; scalping and screening (clean the large and small impurities from the product.)

2- Fine Clean Section:

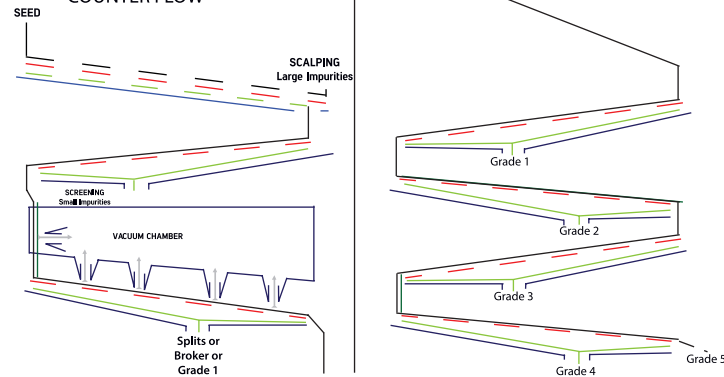
Second part of the machine is for fine cleaning; air screening up to five times in single process (to clean the light impurities from the product) at the same time screening.

3-Grading Section:

Third part of the machine is for Grading, four grading screens to be able to get four graders. A multi tasked Modular Combo Cleaner with grading units. Ideal machine dor all type of dry beans, chickpeas and peas that needs grading fot price variety in market. Maximum analyze with Akyürek intense scren perfarotion.

Flow Schema

Seed Flow Schematic of COMBO CLEANER O.MAC-002 COUNTER FLOW



Technical Data

Dimensions		Engine No (Piece)	Total Motor Power (kW)	Standard Volt (Volt)	Optional Volt (Volt)	Weight (Kg)	Brush No (Piece)	Screen Area (m²)	Vibration Type
Length	5850								
Width	2100								
Height	3500								
Machine+Elev. Height	3500+750	6	9	380	220-440	2750	35	12	Eccentric
Machine+Elev. Length	5850+550								

Capacity Chart

Product	In put Capacity
Soya Beans	4-5 tn/hr
Chickpeas	3-5 tn/hr
Beans	3-5 tn/hr
Kidney Beans	3-5 tn/hr
Vetches	4-5 tn/hr
Sesame Seed	2,5-3 tn/hr
Lentils	3-5 tn/hr
Wheat	4-5 tn/hr
Rice	4-5 tn/hr
Sunflower	1-2 tn/hr
Cumin Seeds	0,8-1 tn/hr
and many more	

→ Seed Separators → Screen Cleaners → Screen Graders → Akyurek Brush Type Seed Graders B.MAC-007



Single Deck Grading Machine
B.MAC-007/1



Double Deck Grading Machine
B.MAC-007/2



Three Deck Grading Machine
B.MAC-007/3



Four Deck Grading Machine
B.MAC-007/4



Five Deck Grading Machine
B.MAC-007/5



Six Deck Grading Machine
B.MAC-007/3



COMBO SCREEN CLEANER & GRADER O.MAC-001

Function:

Light impurities and admixture separated by aspirators. There are five sieve boats and six screens with in the machine. The machine can separate large admixtures, small admixtures, split or broken seeds and It can classify the seed lot in four different grades.

Work Principle:

Seed feed into sieve boats through the feeder elevator. Each sieve boat has specific sizes of holes for impurities/admixtures larger than the seed or smaller than the seed. Sieve boats inclines downwards where the crop moves to whilst sieve boats vibrates and impurities fall of the sieve perforations.

To separate the straw, chip, glumes and etc. the product passes below the aspirator room. Aspirator room has five adjustable suction imports where crop exposed to air cleaning five times. After cleaning operation, the product transferred to the grading boats through the middle elevator which is the second elevator in the machine. The product can be graded maximum to four; the eccentric system obtains the best analysis of the seed. The cleaning system of under screen has brushes moving forward and back, so there is no risk for the screen to be blocked.

1-Pre - Clean Section:

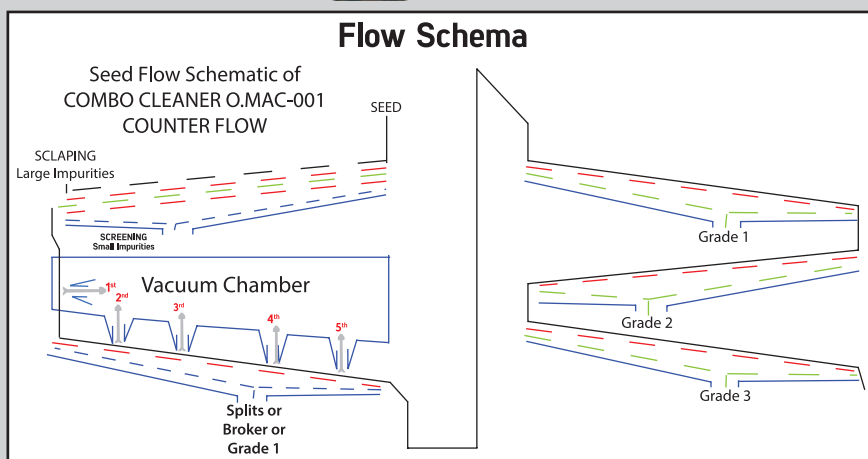
First part of the machine is for Pre cleaning; scalping and screening (clean the large and small impurities from the product.)

2- Fine Clean Section:

Second part of the machine is for fine cleaning; air screening up to five times in single process (to clean the light impurities from the product) at the same time screening.

3-Grading Section:

Third part of the machine is for Grading, three grading screens to be able to get four graders. A multi tasked Combo Cleaner with grading units. Ideal machine dor all type of dry beans, chickpeas and peas that needs grading fot price variety in market. Maximum analyze with Akyürek intense scren perfarotion.



Technical Data									
Dimensions		Engine No (Piece)	Total Motor Power (kW)	Standard Volt (Volt)	Optional Volt (Volt)	Weight (Kg)	Brush No (Piece)	Screen Area (m²)	Vibration Type
Length	5850								
Width	2100								
Height	3500								
Machine+Elev. Height	3500+750	6	9	380	220-440	2500	30	12	Eccentric
Machine+Elev. Length	5850+550								

Capacity Chart	
Product	In put Capacity
Soya Beans	4-5 tn/hr
Chickpeas	3-5 tn/hr
Beans	3-5 tn/hr
Kidney Beans	3-5 tn/hr
Vetches	4-5 tn/hr
Sesame Seed	2,5-3 tn/hr
Lentils	3-5 tn/hr
Wheat	4-5 tn/hr
Rice	4-5 tn/hr
Sunflower	1-2 tn/hr
Cumin Seeds	0,8-1 tn/hr
and many more	



OPTIMUM COMBO SCREEN CLEANER & GRADER C.O.MAC-003

Function:

It is a multi tasked machine with fine cleaner and grading units. It can screen clean almost all kind of seeds, grains and dry legumes vegetables. Light impurities sucked by two aspirator rooms twice all together ten times. There are six sieve boats and six screens. It can classify the product in to three different grades. There are two models in its standard; fixed and mobile types.

Working Principle:

The product feed into sieve boats through the feeder elevator. Each sieve boat has specific sizes of holes for impurities larger than the crop or smaller than the crop. Sieve boats inclines downwards where the crop moves whilst sieve boat vibrates and impurities fall of the sieve perforations.

To separate the straw, chip, glumes and etc. the product passes below the aspirator room. Aspirator room has five adjustable suction imports where crop exposed to air cleaning five times. After cleaning operation, the product transferred to the second section.

The same cleaning can be carried out if necessary 1st scalping 2nd screening 3rd air screening. Or 1st and 2nd sieve boats can be for grading cleaned products and for prime product re-air screening. The cleaning system of under screen has brushes moving forward and back, so there is no risk for the screen to be blocked.

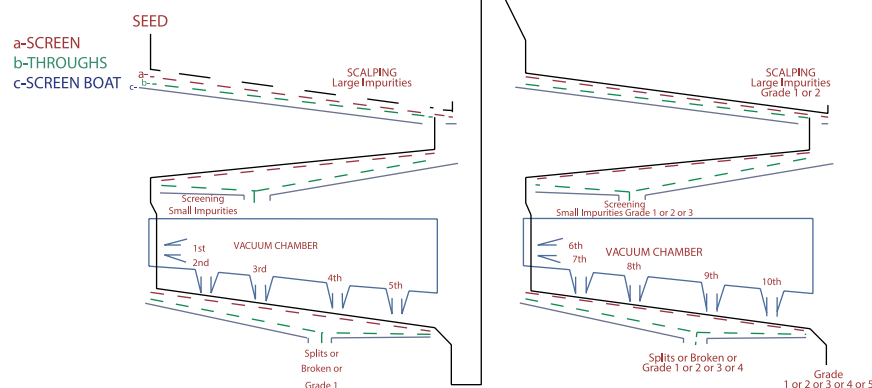
1-First part of the machine is for Pre Cleaning- scalping and screening (clean the large and small impurities from the product).

2-Second part of the machine is for Fine Cleaning: air screening up to five times in single process (to clean the light impurities from the product) at the same time screening (cleaning small impurities).

3-Third part of the machine (two sieve boats) Second Pre-Cleaning; scalping and screening (clean the large and small impurities from the product) Alternativly- Screening Sieve Boat can be allocated for Grading (1).

4-Fourth part of the machine is for Fine Cleaning/Grading; another air screening up to five times in single process (to clean the light impurities from the product) at the same time screening or Grading obtaining graded-sized products. (Below screen).

Flow Schema



Technical Data

Dimensions		Engine No (Piece)	Total Motor Power (kW)	Standard Volt (Volt)	Optional Volt (Volt)	Weight (Kg)	Brush No (Piece)	Screen Area (m ²)	Vibration Type
Length	6200								
Width	2100								
Height	4000								
Machine+Elev. Height	4000+4400								
Machine+Elev. Length	6200+800								

Capacity Chart

Product	In put Capacity
Soya Beans	4-5 tn/hr
Chickpeas	3-5 tn/hr
Beans	3-5 tn/hr
Kidney Beans	3-5 tn/hr
Vetches	4-5 tn/hr
Sesame Seed	2.5-3 tn/hr
Lentils	3-5 tn/hr
Wheat	4-5 tn/hr
Rice	4-5 tn/hr
Sunflower	1-2 tn/hr
Cumin Seeds	0.8-1 tn/hr
and many more	



DOUBLE PRE & FINE SCREEN CLEANER C.O.TEM-004

Function:

Two machines in one –Left and right side carries out the same task where large capacity is obtained. It is a multi tasked machine with Pre-fine cleaner and grading unit. It can screen clean almost all kind of seeds, grains and dry legumes vegetables. Light impurities sucked by aspirator room. There are four sieve boats and four screens. It can classify the product in two or three (with air screen sieving) different grades. There are two models in its standard; fixed and mobile types.

Working Principle:

Left Hand Side Section of the machine

The product feed into sieve boats through the feeder elevator. Each sieve boat has specific sizes of holes for impurities larger than the crop or smaller than the crop. Sieve boats inclines downwards where the crop moves to whilst sieve boats vibrates and impurities fall of the sieve perforations.

To separate the straw, chip, glumes and etc. the product passes below the aspirator room. Aspirator room has five adjustable suction imports where crop exposed to air cleaning five times.

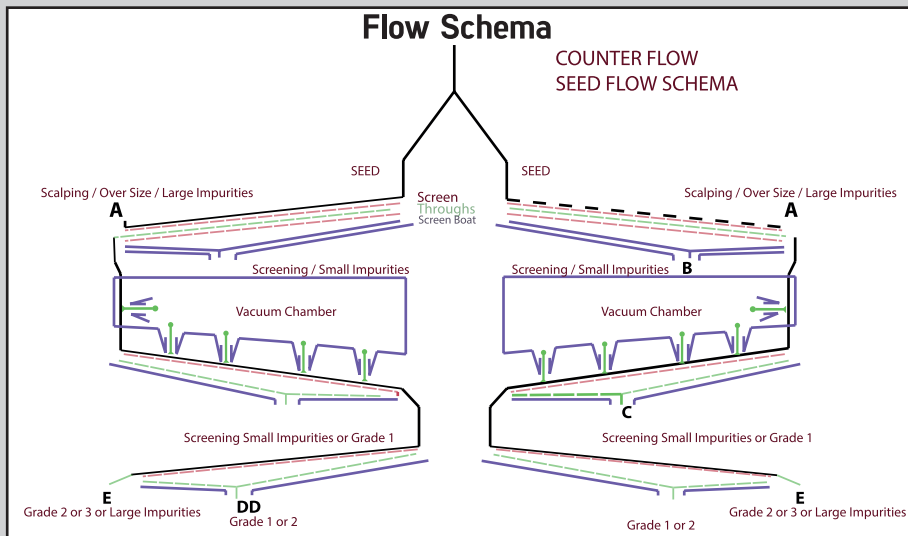
After cleaning operation, the product transferred to last sieve boat. The product can be graded maximum to two or three with air screen sieving; or another scalping task can be carried out; the eccentric system obtains the best analysis of the product. The cleaning system of under screen has brushes moving forward and back, so there is no risk for the screen to be blocked. Right Hand Side Section of the machine carries out the same work principle of the right side. Machine has two outputs. The Product feed into left and right side of the machine; Right Side of the machine.

1- First part of the machine is for Pre Cleaning – scalping (clean the large and small impurities from the product.)

2- Second part of the machine is for fine cleaning; air screening up to impurities from the products) at the same time screening, alternatively grading.

3- Last Sieve boat of the machine is for Grading or Scalping above screen grade 2 and below screen size 3.

Left side of the machine carries out the same functions as per above if screens are same. Above description can differ according to product and purpose. A multi tasket Cleaner with grading units. Ideal machine for all type grains , seed and dry legumes Pre+fine cleaning.



Capacity Chart	
Product	In put Capacity
Soya Beans	8-10 tn/hr
Chickpeas	6-10 tn/hr
Beans	6-10 tn/hr
Kidney Beans	6-10 tn/hr
Vetches	8-10 tn/hr
Sesame Seed	5-6 tn/hr
Lentils	6-10 tn/hr
Wheat	8-10 tn/hr
Rice	8-10 tn/hr
Sunflower	2-4 tn/hr
Cumin Seeds	1.6-2 tn/hr
and many more	

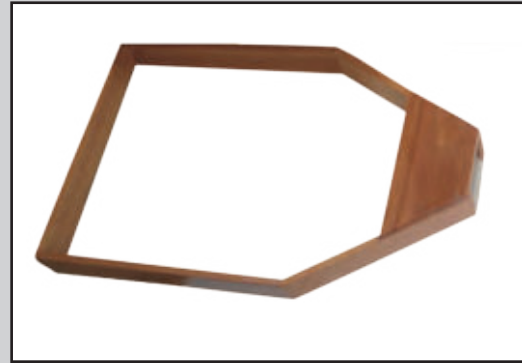
Technical Data									
Dimensions (mm)		Engine No (Piece)	Total Motor Power (kW)	Standard Volt (Volt)	Optional Volt (Volt)	Weight (Kg)	Brush No (Piece)	Screen Area (m²)	Vibration Type
Machine+Elev. Length	5850+500								
Machine+Elev. Length	2000+105								
Machine+Elev. Length	3200+2050	7	13	380	220-440	2600	30	2x8=16	Eccentric

Screen Framework Wooden

Wooden Analysis Screen frameworks are available in two types as Spruce and Hornbeam and both types can be supplied in two different sizes as Office Type and Travel Type.



Screen types Split-slot (oval) Plate						
Product Code	Product Name	Office Type Width x Length x Wall Thickness	Quantity	Product Code	Travel Type Width x Length x Wall Thickness	Quantity
ANE-SSE-OT 24x35	Black Plate Screen	24cm x 34,5cm x 1mm		ANE-SSE-OT 15x15	41cm x 26cm x 6,5cm	
ANE-GSE-OT 24x35	Galvanized Plate Screen	24cm x 34,5cm x 1mm		ANE-GSE-OT 15x15	15cm x 15cm x 1mm	



ANALYSIS TRAY

Wooden Analysis Tray is available in two types as Spruce and Hornbeam and both types can be supplied in two different sizes as Office Type and Travel Type.

Analysis Table						
Product Code	Product Name	Office Type Width x Length x Wall Thickness	Quantity	Product Code	Travel Type Width x Length x Wall Thickness	Quantity
ANE-AT-LA-OT	Spruce Tree-Unvarnished	75cm x 50cm x 8cm		ANE-AT-LA-ST	41cm x 26cm x 6,5cm	
ANE-AT-GA-OT	Hornbeam Tree-Varnished	75cm x 50cm x 8cm		ANE-AT-LA-ST	15cm x 15cm x 1mm	

SCREEN SHELF

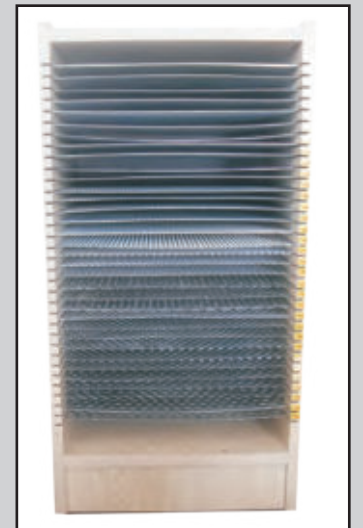
MDF Wood – 12" and 24"

Options: Drawer – Wooden Glass Closet Cap

Wooden Shelf Screen Rack

24 or 12 pieces of Analysis screens with 24 cm x 34,5 cm dimensions can be placed in the wooden screen shelf closet. It is designed to carry screens without any possibility of damaging during carriage with vehicle in case of turnover. Shelf System is an excellent way for preventing damages of screen bores and using screens as granted for rapidly controlling available screens. Shelf option is available for storing tools such as brush, notebook and sensitive scale required during analysis. Also, Wooden Glass Closet Cap option is available for the closet with shelves.

Wooden Analysis Screens Closet with Shelf			
Product Code	Product Name	Width x Length x Height	Quantity
ANE-AAERD-MDF 24	MDF Shelf Closet 24"	30,7 cm x 43,5 cm x 61 cm	
ANE-AAERD-MDF 12	MDF Shelf Closet 12"	30,7 cm x 43,5 cm x 61 cm	
Opsiyonlar	Wooden Framed Glass Cap		
	Drawer		



→ Mobile Seed Processing Equipment



MOBILE SEED PROCESSING EQUIPMENT

Akyurek seed processing and packaging technology offers a range of mobile seed processing systems for the purification and chemical treatment of grain seeds, for planting according to the specific requirements of each customer.

The capacities of mobile seed processing equipment can vary from 1 to 10 tonnes / hour depending on the customer's requirements and can be customized for higher capacities on request.

Mobile equipment for seed production:

- Project design, paperwork and installation costs are minimized,
- Minimizes equipment installation time,
- The process line is prepared for a complete manufacturing operation,
- Shipping costs are significantly reduced:
- Excellent solution for installation at customer's premises.

Function

Mobile seed processing application is designed for chemical treatment for up to 99% purification of grain seeds and complete safe storage. Seed treatment machines are mounted on trailers so that the farmers and businesses can use this service at their own workplaces.

MOBILE SEED PROCESSING EQUIPMENT				
COMPACT MODEL SERIE F-310				
COMPACT Models	F-311	F-312	F-313	F-314
Capacity – Input	3 tph	5 tph	7 tph	10 tph
Conveyor	BE-120	BE-150	BE-150	BE-200
De-awner tool	AWN-052	AWN-053	AWN-053	AWN-054
Conveyor	BE-120	BE-120	BE-150	BE-200
Fine Screen Series	EXCELL 52	EXCELL 53	EXCELL 103	EXCELL 103
Conveyor	BE-120	BE-120	BE-150	BE-200
Rotary Sorter	MT 404/2	MT 404/4	MT 404/6	MT 404/8
Seed processing	BE-120	BE-150	BE-150	BE-200
Seed Processor	STL 005	STL 010	STL 015	STL 015
Conveyor	BE-120	BE-150	BE-150	BE-200
Weighing and Bagging Scales	CKTR-017	CKTR-017	CKTR-017	CKTR-017
Aspiration	✓	✓	✓	✓
Power Panel	✓	✓	✓	✓
Trailer	✓	✓	✓	✓
Generator	✓	✓	✓	✓

→ Mobile Seed Processing Equipment

1- Feed conveyor: Screw conveyor for inlet-seed feeding system (alternatively can be replaced with bucket elevator or belt conveyor).

2- De-awner Tool; Cleaning the barley chaffs/shells

3- EScreen Cleaning: Separation of oversize and undersize mixtures and impurities through the perforated screens, as well as by air blowing the mixture and light materials.

7- Bucket conveyors: Suitable types and models for transporting seeds from one machine to another, in all types of machines.

8- Dust control system: Sorting by air blowing in the form of cyclone or whirlwind.



4- Rotary Sorter: Standardization of seed length, extraction of wild (weed) seeds, separation of longer and shorter foreign objects

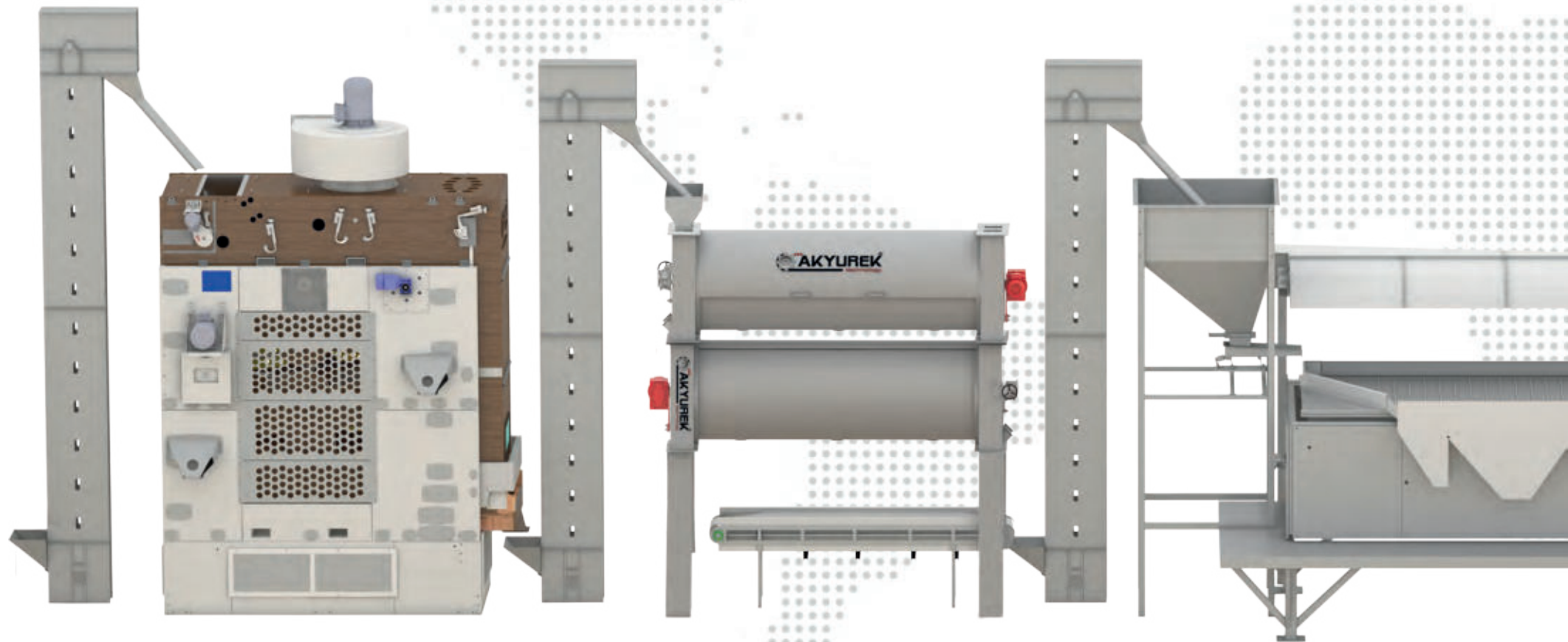
5-Seed Processing: : Application of liquid chemicals for planting and safe storage

6- Bagging; Gross or net weighing of the seeds; packaging and sealing, in 25 or 50 kg bags

9- Power control: The generator ensures the operation of the machine on the chassis mentioned above.

10- Trailer: For a mobile plant, a trailer of the appropriate size and model is available for mobile seed processing equipment having the necessary space.

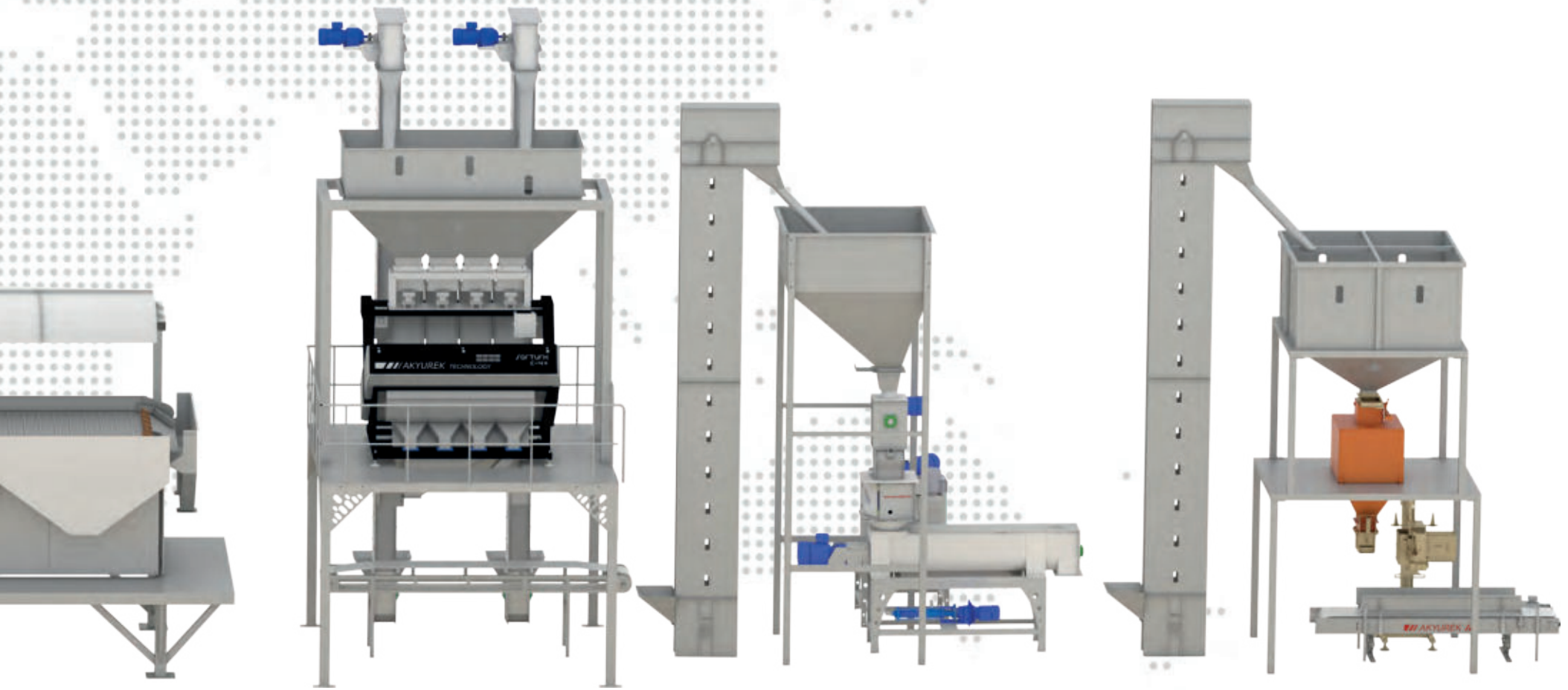
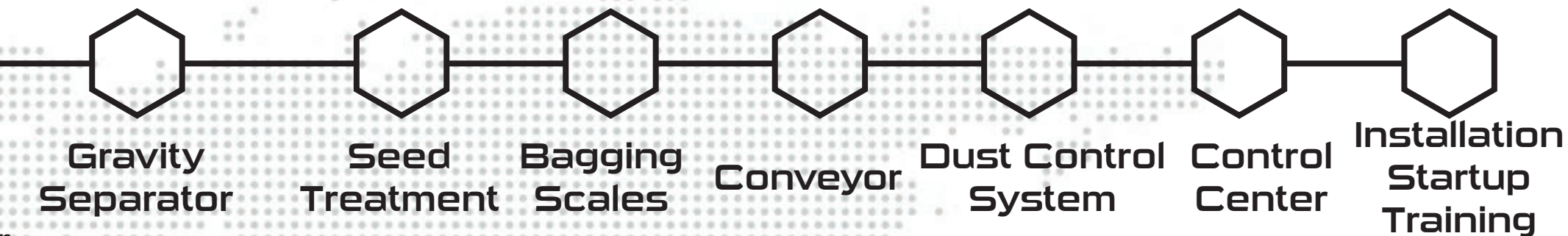
Turnkey Seed Processing Solutions



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