

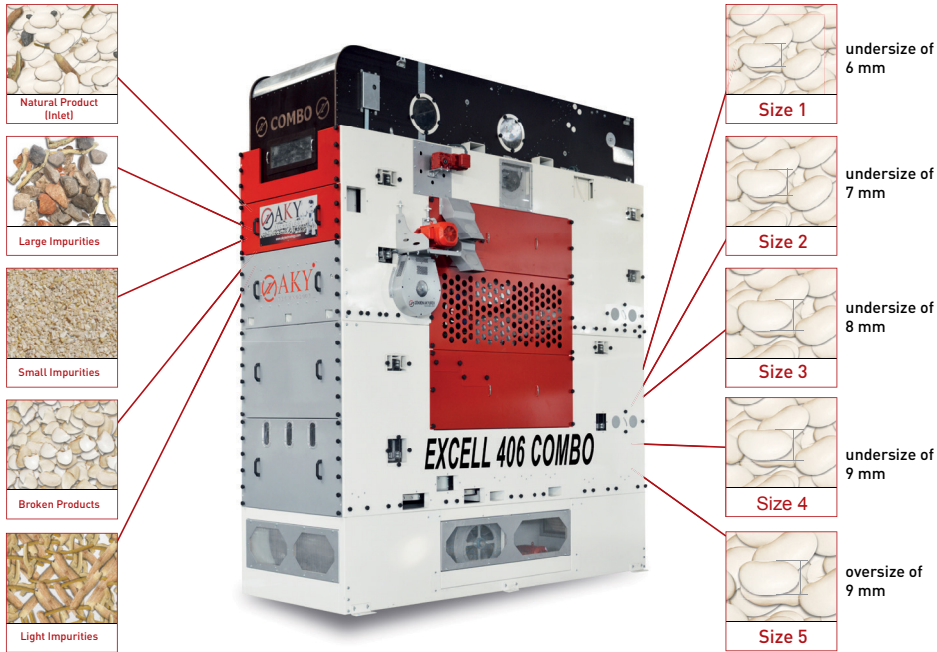


SEED PROCESSING AND SORTING SOLUTIONS



CE
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QUALITY ASSURANCE

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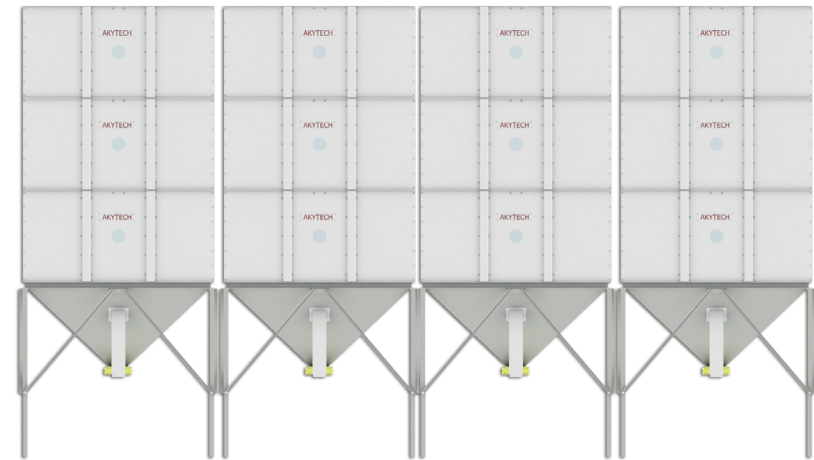
EXCELL CLEANERS® Series

The material is flown to the EXCELL CLEANERS 406 through the shaker feeder. Dust and light weighted product are aspirated twice by two aspiration channels. Aspiration and fan speeds can be controlled by completely automatic valves. All motors are controlled by PLC system. After suction process, the product is flown onto sieves to take out oversized product, continued by separating broken and undersized products on second sieve. Next process is designed specially to take out light weighted product by aspiration again. Air flow rate is controlled by PLC system. After completing cleaning process, the product gets ready for grading. In the grading section, it is possible to get 5 different sizes. EXCELL CLEANERS 406 has 32 meter square sieving area. It provides maximum efficiency with minimum energy consumption. Machine is specially designed for pre-cleaning, fine-cleaning and grading at the same station.

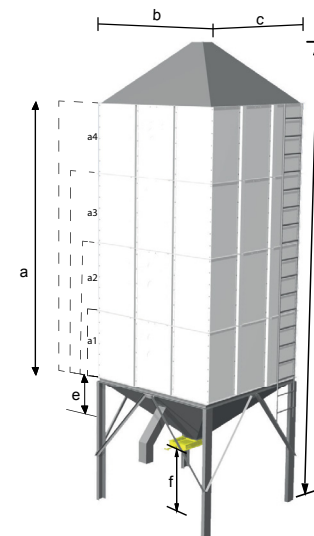
CALCULATED ACCORDING TO NATURAL INPUT AMOUNT. HUMIDITY RATE MUST BE 15% MAXIMUM.	
SoyaBean	10.0 - 15.0 t/h
Wheat,Rye,Barley	10.0 - 15.0 t/h
Lentils	7.5 - 12.5 t/h
Soyabean, Green Peas, Coffee	7.0 - 8.0 t/h
Rice	10.0 - 15.0 t/h
Sunflower	2.5 - 5.0 t/h
Sesame	2.0 - 3.0 t/h

EXCELL CLEANERS® COMBO 406

INDOOR SQUARE SILOS SI-32



Indoor Square Silos are designed and manufactured for food processing and or industrial plants product storage purposes. AKY Technology designs, manufactures and supplies with helper equipments for Square silos usage purpose i.e product feeding elevators, product drop down slower, capacity sensors, mechanical outlet valves, pneumatic valve outlets, capacitive measurement outlets, second outlet (for big bag filling i.e) magnetic feeders, cooler and heaters....



	SI32-1000		SI32-1200		SI32-1500		SI32-2000		SI32-2400		SI32-3000		SI32-4000	
All dimensions in mm	b	c	b	c	b	c	b	c	b	c	b	c	b	c
a1	1000	1000	1000	1000	1000	1000	1000	1000	1000	2400	3000	3000	4000	4000
Capacity a b x c = .m³	1	1,44	2,25	4	4,8	31,5	16							
a2	2000	2000	2000	2000	2000	2000	2000	2000	2000	2400	3000	3000	4000	4000
Capacity a b x c = .m³	2	2,88	4,5	8	9,6	18	32							
a3	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	4000	4000
Capacity a b x c = .m³	3	4,32	6,75	12	14,4	27	48							
a4	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Capacity a b x c = .m³	4	5,76	9	16	19,2	36	64							
Addition	+		+		+		+		+		+		+	
Capacity	CONE		CONE		CONE		CONE		CONE		CONE		CONE	
Capacity	0,5	0,72	1,125	2	2,4	6,75	12							

STONE SEPARATOR DS 009



Working Principle

The product feed into the storage hopper through the feeding elevator; from here, it is fed into the machine. With a vibration produced by an eccentric system and by air fan the crops cleaned from metal, glass, stones and soil. Stones or heavy materials can be collected in a sack which is hung in the reject chute.



Product	Capacity Chart Ton/hr		
	Medium	Large	X-Large
Soybean	1,5 - 2,5	2,5 - 5	5 - 10
Chickpeas	1,5 - 2,5	2,5 - 5	5 - 10
Beans	1,5 - 2,5	2,5 - 5	5 - 10
Kidney Bean	1,5 - 2,5	2,5 - 5	5 - 10
Vetches	1 - 2	2 - 4	4 - 8
Green Lentils	0,75 - 1,5	1,5 - 3	4 - 8
Red Lentils	0,75 - 1,5	1,5 - 3	3 - 6
Wheat	1,5 - 2,5	2,5 - 5	5 - 10
Rice	1 - 2	2 - 4	4 - 8
Sun Flower	0,25-0,75	1,5 - 3	3 - 6
Cumin Seeds	0,25-0,75	1,5 - 3	3 - 6
Sesame Seed	0,75 - 1,5	1,5 - 3	3 - 6

GRAVITY SEPARATOR GRV-010



Working Principle

The separator works on a fluidised bed principle; air is forced through the deck causing the light fraction to float above the heavy fraction. The deck is reciprocated causing the heavy fraction to move uphill, while the light fraction floats downhill. Variations in deck speed, air volume, deck material, deck angle (lengthwise and sidewise), and take-off points allow effective separation to be achieved on almost any dry product.

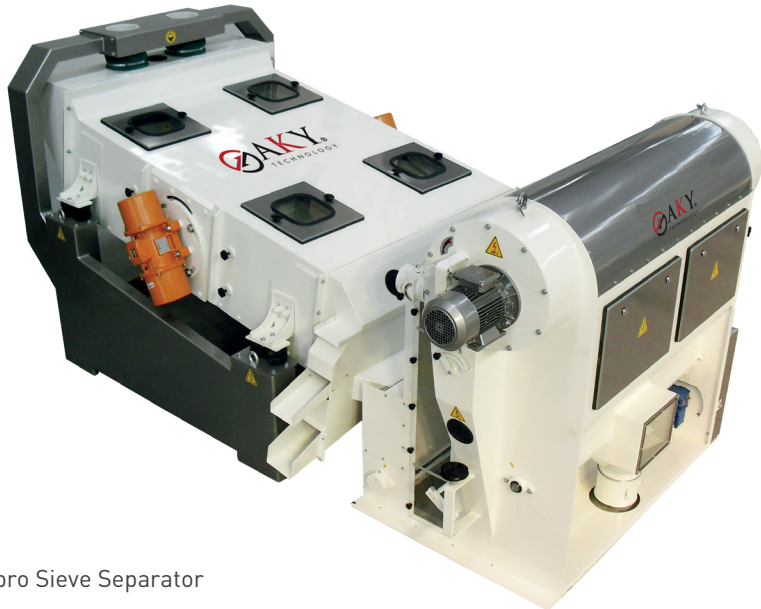
The Re-Sort Conveyor Belt which is located below the Gravity Separator's Platform conveys the middling seeds to the feeder elevator so the seeds that are not certain of their quality is re-separated thus allows the operator to control the out put quality in finer results.



Product	Capacity Chart Ton/hr			
	Laboratory	Medium	Large	X Large
Soybeans	0,075 - 0,150	1,5 - 2,5	2,5 - 5	5 - 10
Chickpeas	0,075 - 0,150	1,5 - 2,5	2,5 - 5	5 - 10
Beans	0,075 - 0,150	1,5 - 2,5	2,5 - 5	5 - 10
Kidney Bean	0,075 - 0,150	1,5 - 2,5	2,5 - 5	5 - 10
Vetches	0,050 - 0,100	1 - 2	2 - 4	4 - 8
Green Lentils	0,037 - 0,075	0,75 - 1,5	1,5 - 3	4 - 8
Red Lentils	0,037 - 0,075	0,75 - 1,5	1,5 - 3	3 - 6
Wheat	0,075 - 0,150	1,5 - 2,5	2,5 - 5	5 - 10
Rice	0,050 - 0,100	1 - 2	2 - 4	4 - 8
Sun Flower	0,037 - 0,075	0,75 - 1,5	1,5 - 3	3 - 6
Cumin Seeds	0,037 - 0,075	0,75 - 1,5	1,5 - 3	3 - 6
Sesame Seed	0,037 - 0,075	0,75 - 1,5	3 - 6	8-10

**VIBRO SIEVE SEPARATOR
AIR-RECYCLING ASPIRATOR**

**V.SP
A.RYC**



Vibro Sieve Separator

The modern design of the vibro sieve separator allows it to achieve high quality cleaning at large capacities, whilst having small overall dimensions and low power consumption. It is used for separating over and under size impurities from granular materials.

Air-Recycling Aspirator

The air-recycling aspirator ARA is applied for the separation of low-density particles in an aspiration channel from granular products such as soft wheat, rye, barley, oats, beans, chickpeas, sunflower seeds, sesame seeds, corn (maize). High degree of separation thanks to excellent separating efficiency. The air-recycling aspirator ARA is characterized by its excellent separating efficiency, which ensures a high degree of separation:

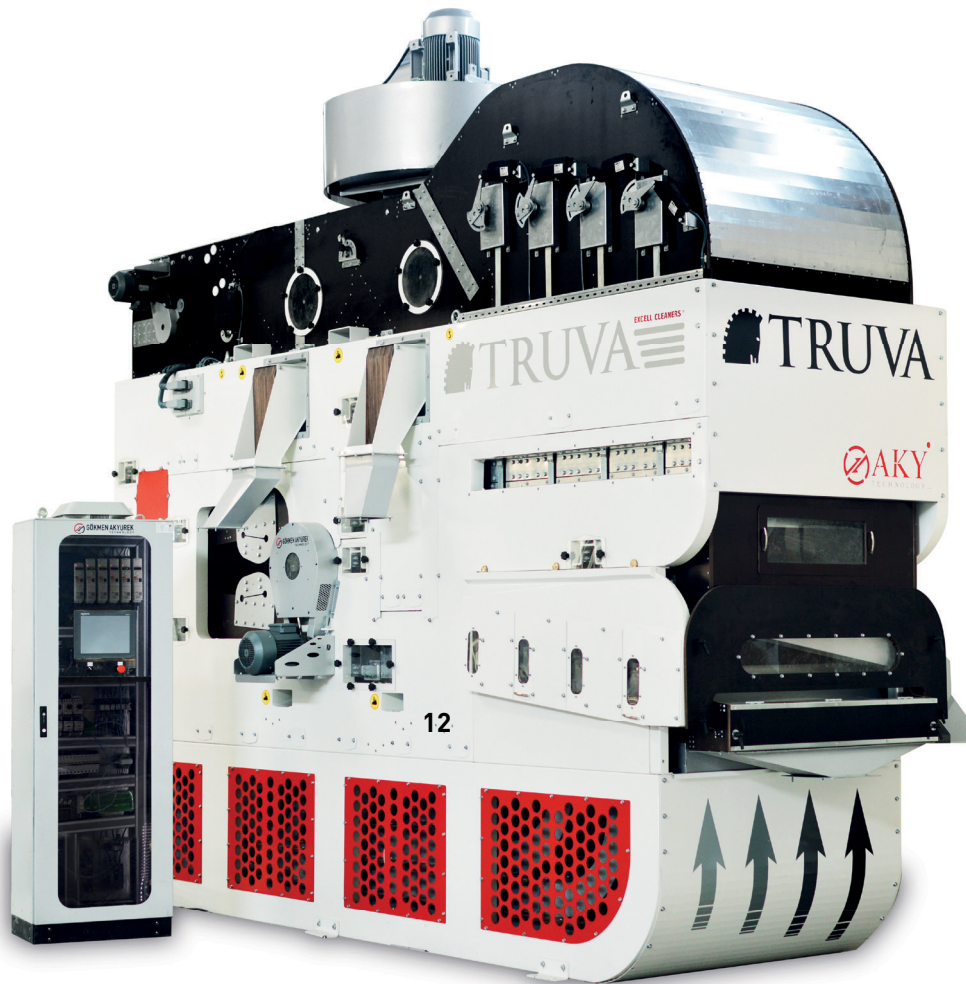
**LIQUID TREATMENT MACHINE
(OIL POLISHER)
TRT 022**



Working Principle

The product is flowing through the inlet buffer by passing the rotary seed valve and wind aspiration into the applicator machine. With spraying disc the product will be distributed in a uniform product veil. The liquid is fed into the applicators by pump and liquid feeding system. The liquid is distributed to the product by the rotating Impeller disc. In the secondary mixing unit the product will be transported and it starts an intensive mixing with the liquid, oil or water.

LIQUID TREATER	TRT 022 S	TRT 022 M	TRT 022 L	TRT 022 XL
Capacity For Seed -Based on wheat (bulk density 780kg/m3, moisture content 14%)	min/max 1,5 t/h 2 t/h	min/max 5 t/h 6 t/h	min/max 15 t/h	min/max 20 t/h
Dimensions				
a - Height With Mixing Unit	2530	2600	2650	3183
b - Width	1600	2100	2350	2764
c - Length	1400	1600	2015	1819
Weight	255	320	525	690
Drive Motors, Power and RPM	3,12 KW	3,52 KW	4,87 KW	6,65 KW
Liquid Capacity	80 lt	130 lt	250 lt	250 lt
Control Principle	PLC	PLC	PLC	PLC



EXCELL CLEANERS® Series

EXCELLENT FINE SCREEN CLEANERS



Working Principle

Product which is flown into the machine initially passes through a distributor and spreads on hopper. Undesired dust and light granules inside product passes through two suction channels to be removed from the product. Air suction aspirator motors and air channel pressure actuators stroke length are controlled by PLC system and a touch panel. With the inverter controlled motors, it is possible to obtain best result with the lowest energy consumption. Product passes through sieves to be separated into sizes and final product enters into gravity separator channels. Product passes through 4 different air channels inside the machine for 100% purity and for desired hectoliter to be met.

EXCELL TRUVA Series overcomes the problem of hectoliter and offers absolute solution for products which are difficult to be purified.

MODELS

HELEN-403	HEKTOR-406	AKHILLEUS-408
SMALL	MEDIUM	LARGE

CALCULATED ACCORDING TO NATURAL INPUT AMOUNT. HUMIDITY RATE MUST BE 15% MAXIMUM.			
Product	HELEN Small	HEKTOR Medium	AKHILLEUS Large
Wheat, Rye, Barley	6-9 t/h	9.0 - 12.0 t/h	12-18 t/h
Oat, Corn, White Rice	5-7 t/h	7 - 9 t/h	9-14 t/h
Soyabean, Green Peas, Coffee	5-7 t/h	7 - 9 t/h	9-14 t/h
Rice	3-5 t/h	5 - 7 t/h	7-10 t/h
Sunflower	1.5 - 3 t/h	2.5 - 4 t/h	4-6 t/h
Rye Grass , Clover	1 - 1.5 t/h	1.5 - 2.2 t/h	2.2 - 4 t/h

DIAMOND
**FOTO
 SORTER®**
 DIAMOND Series



Fotosorter Diamond Series Optical Color Sorter is used to sort granular products such as seeds, pulses, nuts and plastics by their color. With its high-resolution, 16MP cameras and air ejectors, it can detect and reject discolored products. Thus, the discolored ones are rejected from the system, and the quality of the pre-cleaned product is increased to 99.9%.

Working Principle

Product is poured from the pre-storage hopper with the help of vibro-feeders into the channels with free-fall. The machine detects the products according to their color and shape by passing from the line of sight of the cameras located at end of the channels and transferred to 2 different output chutes. While the good products are transferred to the accept output chute, the other ones are separated with the help of ejectors and elevated back to the re-sorting channel. In the re-sorting channel, product passes again from the line of sight of the cameras and re-separated into good and discolored ones. The good ones are combined with the raw material and the discolored ones are rejected from the system. Thus, the waste of good product loss rate is minimized.

Features of new Fotosorter Diamond Series optical sorters

Optical color sorting and shape sorting



Optical color separation, shape sorting and Infrared Technology



**ELECTRONIC SYSTEM
 WEIGHING & BAGGING SCALE**

**BAY 017
 BAY 017 TWIN**



Working Principle

Once the product is fed to the pre-storage hopper, pneumatic slide gates allow the product to fall into weighing hopper. According to the weight indicator the flow can be slowed.

So that the weight will be accurate. After the correct weight is reached, the product can be dumped into a bag. Feeding system can be free fall, screw conveyor, conveyor belt or vibro feeder.

Single Weighing & Bagging Scale

Capacity				
Sack Weight	5 kg	10 kg	25 kg	50 kg
Sack Per Minute	7	7	6	4
Sack Per Hour	420	420	360	240
Capacity Per Hour	2.100	4.200	9.000	10.000
Precision ±	10 gr	15 gr	25 gr	50 gr

Double Weighing & Bagging Scale

Capacity				
Sack Weight	5 kg	10 kg	25 kg	50 kg
Sack Per Minute	12	12	10	7
Sack Per Hour	735	735	630	350
Capacity Per Hour	3.675	7.350	15.750	17.500
Precision ±	10 gr	15 gr	25 gr	50 gr

INDENT CYLINDER (LONG GRAIN SEPARATOR) TRI 020



Working Principle

The indent cylinder is used for grading by length all granular materials such as wheat, oats, 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. The product passes from the inlet housing into the interior of the rotating cylinder, the cover of which is provided with impressed pockets or so-called indents. The grains that embed themselves in the indents, will be carried and after a certain distance, will fall out of the pockets into the trough (yellow arrows), and will be discharged by a screw conveyor. All grains which are larger than the indents, will remain inside the shell and be carried to the outlet where the shell empties into the outlet casing (green arrows). Depending on the required grading the incoming product will be sorted according to roundness or length.

TECHNICAL CHART			
Model		Laboratory TRI-020	TRI-020 / 300x90
Capacity per cylinder t/h			
Wheat		0,3	4
Barley		0,25	3,2
Rice (white)		0,2	1,6
Sugar beet seed		0,2	1,3
Sunflower (unhulled)		0,1	1,3
Alfalfa		0,1	0,8
Motor Capacity	kw	0,37	1,1
Dimensions of Cylinder			
Length	mm	100	3000
Diameter	mm	30	900

SEED COATING MACHINE TP-50 CC



SEED COATING MACHINE TP-50 CC

Dimensions (X,Y,Z) mm	4510x3100x2500
Weight Kg	1220
Machine Capacity (for wheat) Ton	4-6
Liquid Storage Tank Motor Rpm, Piece	1400 2
Product Homogenizing Hopper Motor Rpm Piece	1000 1
Dosing Pump Rpm Piece	1400 1
Liquid Storage Tank Volume	400 litre
Machine Noise Level	72 Desibel Maksimum
Machine Color	Krom parlak
Standard Tension	380
Total Power	5200 d/dk
Machine Product Material	St44- Ç 1040 First Class Plywood

Working Principle

Machine is used tfor coating the surface of the seeds, dried fruit type of products. Working principle of the machine: Machine has a weighing reservoir. Initial step is to weigh product up to 50 kgs and discharge it onto a disc which turns at high speed. Product, on disc, keeps turning at an accelerating speed and rolls due to friction. Liquid and/or granule formula etc., are added during this process for the covering of product surface. Eventually product is taken out from the hopper.

System is controlled automatically by a PLC and a touch screen. A dosing pump, liquid tube and liquid tank are included in the system alternatively, double pumping tube and liquid tank, granule product tank and screw machine can be added to the system. Powder product spiral releases desired amount of powder within desired period of time. Coating Machine has stainless and colored alternative versions. Machine is designed to avoid maintenance for a long period of time.

LABSORTER

LABRATORY TYPE CCD COLOR SORTING MACHINE

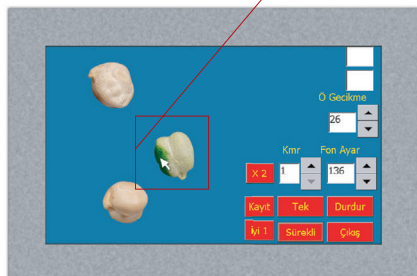
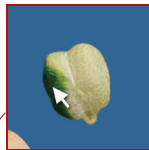


Working Principle

An elevator feeds product into hopper which is located on top of the color sorter. From the hopper products fed in to machine's channels. Products flow downwards as a thin layer passing by in front of CCD cameras. These cameras detect the discolored product and the products that are low quality. CCD cameras send commands to computer program and program converts the commands for ejectors to separate the bad product from the good product. These bad quality products fed back in to the system from the last channel and discolored products re-sorted by color sorter. This way, product waste will be reduced.

CCD cameras can detect discoloration on a product as small as 0,008 mm². Machine is programmable for product quality variations. Integrated computer program alerts of faults and errors that machines can come across whilst operating.

New Generation Model 5340 Pixel CCD COLOR Camera



- The machine is featured with compact structure, mini appearance and convenient to be installed, maintained and moved.
- The machine is featured with small occupied area, adaptability and few requirements for working environment.
- The machine is equipped with intellegent human-machine operating interface which is easy to learn and master, truly realizing the target of personal operation.
- The machine is better suitable for small-sized Processing customers, such as hybrid seed producers.
- Equipped with industrial double-vision camera lens which is at international high-end level, the machine can identify and sort materials precisely and improve sorting rate.
- Labsorter can be used in laboratories or purchasing departments of a factory. In this manner, it provides a quick and practical solutions for the user.

DATA TECHNOLOGIES SEED COUNTING MACHINES

DATA S60 +



Average counting speed capabilities
(in seconds)

Seed Type	Quantity	
	1000 Seeds	10.000 Seeds
Cherry Tomato	7	40
Tomato	10	60
Pepper	12	100
Cucumber	20	155
Melon		
Watermelon	25	230

DATA S25 +

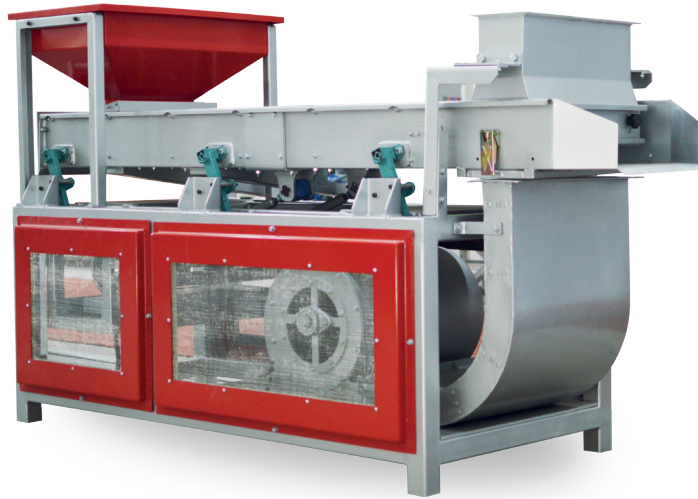


Average counting speed capabilities (in seconds)

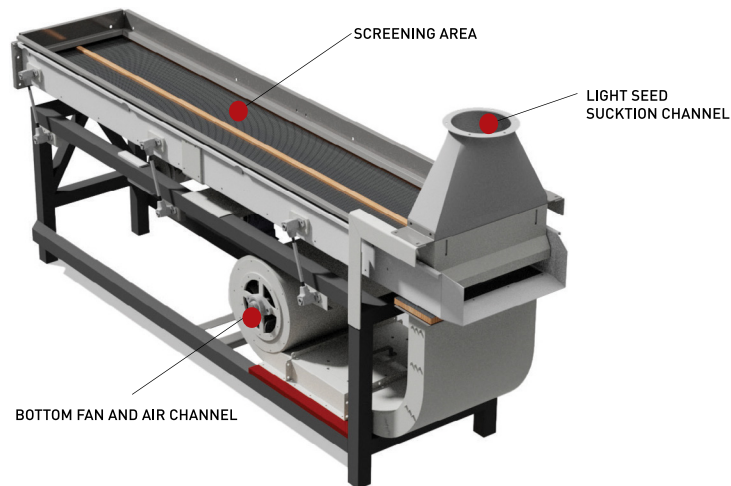
Seed Type	Quantity			
	100 Seeds	500 Seeds	1000 Seeds	5000 Seeds
Cherry tomato	4	8	20	90
Tomatos	5	12	20	95
Pepper	7	15	30	120

DATA Count S-25 PLUS is the new generation of bulk counters. This Counter counts seeds of sizes ranging between 0.5 mm and 18 mm, quickly and accurately, eliminates the imprecision of current weighing solutions and saves you money. S25 PLUS is designed to count large quantities of seeds. It is ideally suited for seed manufacturers, traders and plant nurseries.

AIR SCREEN CLEANER 50x160



Air Screen Cleaner is used for separating light material and grading pulses, seeds, grains and dried nuts. The product is spreaded on top of the screen to separate the dust and under-sized materials. The light materials are taken out by the air-treatment. In the air-treatment process, the light seeds are blown up by the bottom fans and sucked up by the aspirators.



DATA COUNT & PACK S260



DATA Count S-260 is a part of DATA's integrative industrial seed counters series, which provides the opportunity of upgrading seed processing procedures by integrating a highly accurate seed counter with an existing packaging machine.

Following a simple protocol, DATA's S-260 integrative industrial seed counter can be easily integrated with existing or new packaging machines, resulting in a new modern counting and packaging system.

Seed Type	Max Quantity
Tomato	185,000
Pepper	70,000
Melon/Cucumber	13,000
Watermelon	8,000
Squash	2,000
Zucchini	4 000

Seed Type	Quantity			
	500 Seeds	1,000 Seeds	5,000 Seeds	10,000 Seeds
Cabbage	17	15	6	4
Cucumber	12	8	3	1
Melon	12	8	3	1
Pepper	17	15	6	3
Tomato	17	15	6	3

Weighing and Bagging

Processed seed weighed and bagged for safe storage and transport.

Conveying equipment

Wide range of material handling equipment. Bucket elevators, chain conveyors, belt conveyors, Z elevators, screw conveyors and piping system.

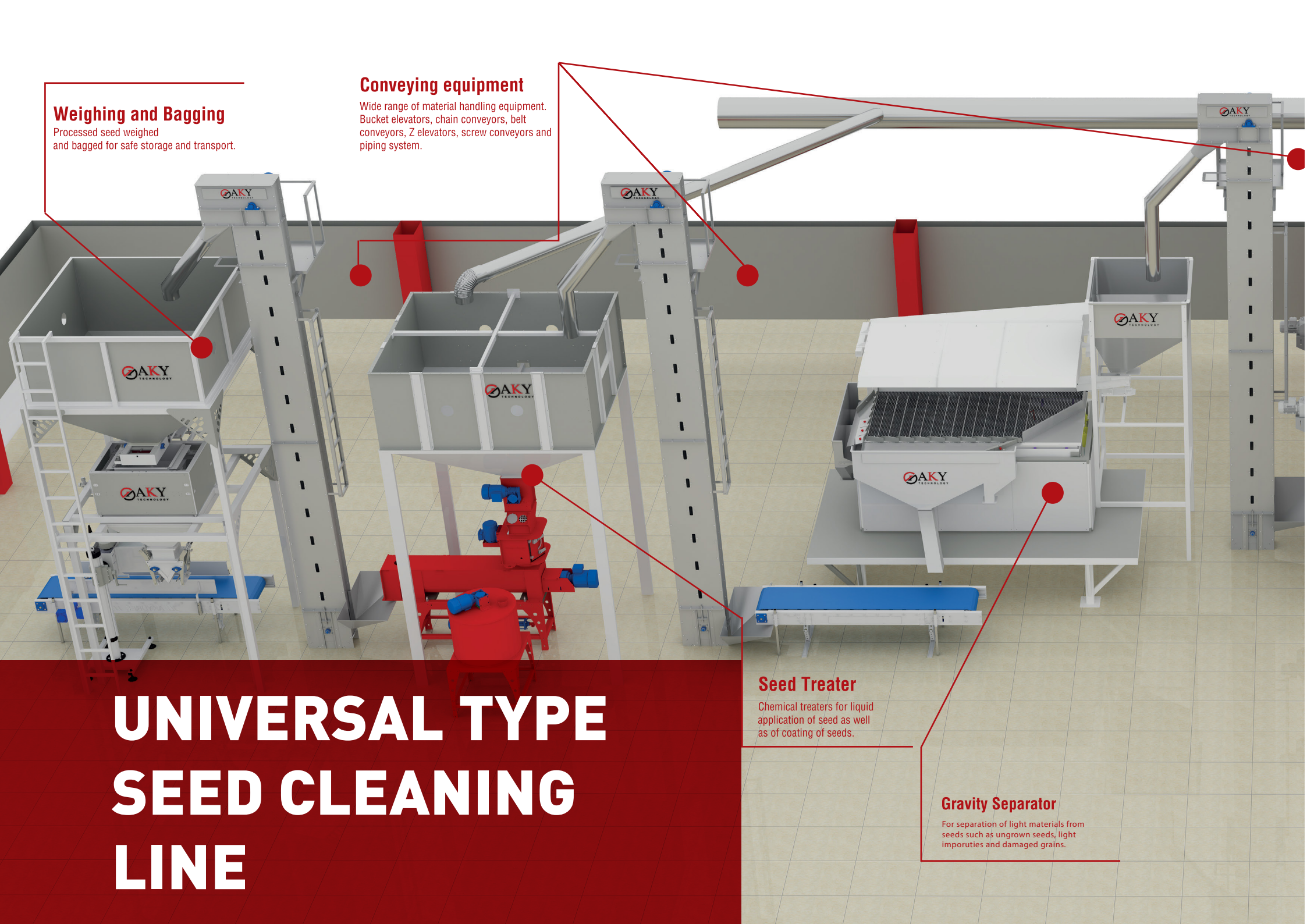
Seed Treater

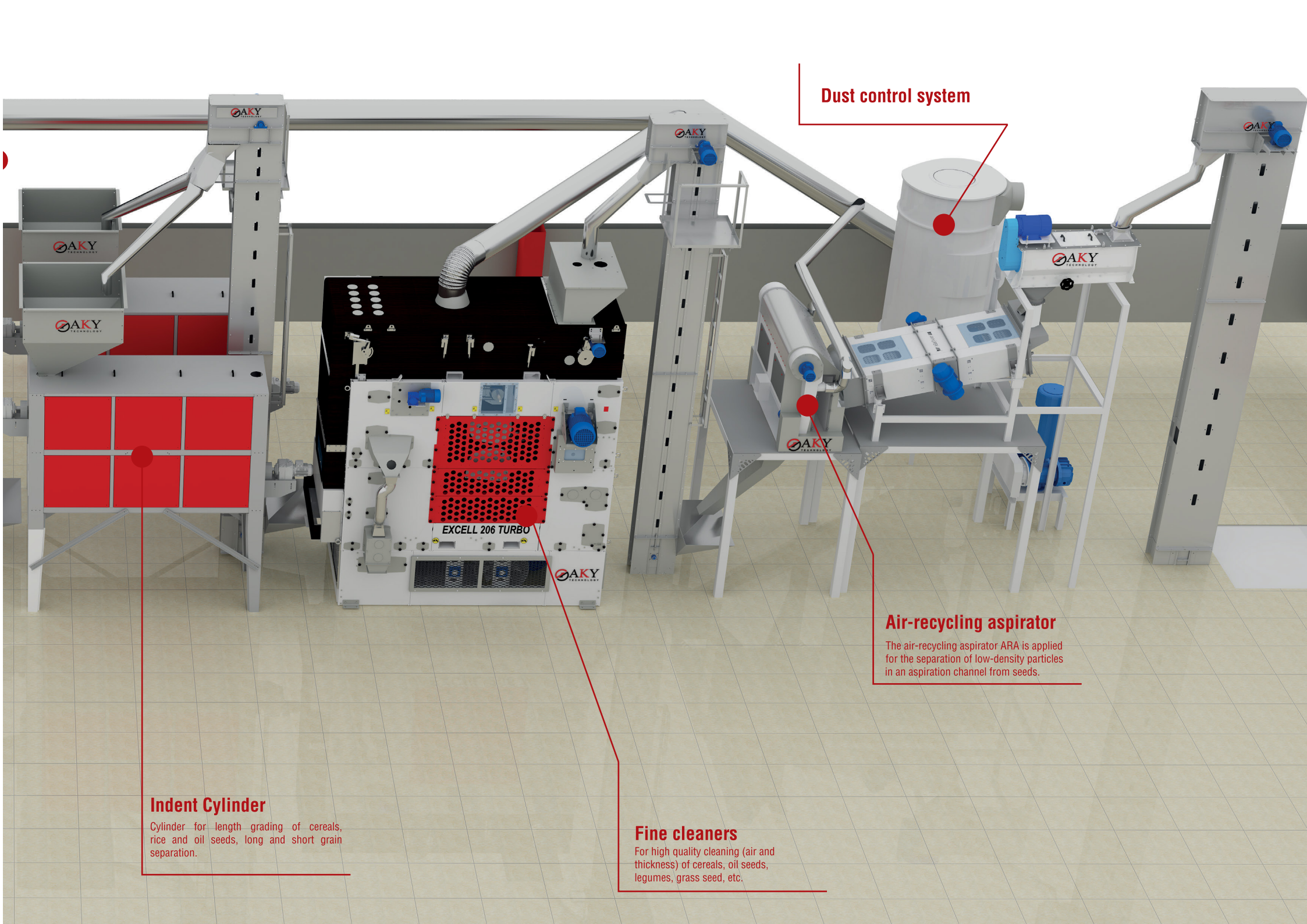
Chemical treaters for liquid application of seed as well as of coating of seeds.

Gravity Separator

For separation of light materials from seeds such as ungrown seeds, light impurities and damaged grains.

UNIVERSAL TYPE SEED CLEANING LINE





Indent Cylinder

Cylinder for length grading of cereals, rice and oil seeds, long and short grain separation.

Dust control system

Air-recycling aspirator

The air-recycling aspirator ARA is applied for the separation of low-density particles in an aspiration channel from seeds.

Fine cleaners

For high quality cleaning (air and thickness) of cereals, oil seeds, legumes, grass seed, etc.

REPRESENTATIVES



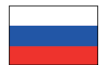
SPAIN
JUBUS SELECCIÓN Y TRATAMIENTO S.L.
Ctra. Alcolea, 6 43206 - REUS (Tarragona) Spain
Tel. 977 32 60 80
Fax. 977 32 3928
E/ joribusquets@jubus.com
www.jubus.com



BULGARIA
CIA TECHNOLOGY
Contact: Denis ILHAN
Slivo Pole 7060 Rouse Region 4 Boulevard
Bulgaria BULGARIA
Tel: +359 899 858585
E mail: info@ciatechnology.com



ISRAEL
SHABTAI JUMAH AGRICULTURE INSTITUTE LTD
Mosav Revha 79353 Israel
Tel:+972-8-6600846 - Fax:+972-8-6812246
www.sjumah.com
Contact: Eli Jumah
E-mail: eligumah@zahav.net.il
Cell:+972-54-2392239



RUSSIA
LLC AGRO TEHKOMPLEKT
Equipment for Storage and Grain Processing
Str. Soglasiya, 7 office 101, 344082,
Rostov-on-Don, RUSSIAN
E-mail: kostromin@atkrostov.ru
Tel:+7 863 308 17 95
Gsm: +7 918 524 82 26



UKRAINE
B2B-AGRO
Contact: Krasnoarmeyskaya Str.
114, ap.168, 03150, Kiev
Tel./Fax: +38.044.501 60 51
E/ pk@b2b-agro.com
Skype : b2b-agro
www.b2b-agro.com



UZBEKISTAN
"AKY TEKNOLOJI" Ltd.
Address: 173, Sayhun street, Mirabad
avenue, Tashkent, Uzbekistan
Mobile number: +99897 707 07 44



POLAND
AKY POLSKA
Address: 22-652 ŁASZCZÓW
UL. KARDYNAŁA WYSZYŃSKIEGO 48
Mobile number: +48 606781494
PRZEDSTAWICIEL HANDLOWY
www.akypolska.pl
biuro@akypolska.pl



INDIA
AGRO PROCESSING SOLUTIONS
Address: 8, RADHE INDUSTRIAL ESTATE
B/H AKRUTI ARCADE
NH-8A, BAVLA - 382220
AHMEDABAD
GUJARAT STATE, INDIA
Contact Person: Vaibhav Agarwal
Mobile number: +91 90163 06903



EXCELL CLEANERS®

FOTOSORTER®
RENKAYIRMA MAKİNESİ



www.akytechnology.com

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Factory Address:

Mersin Tarsus 2. Organize Sanayi Bölgesi Rasim Dokur Bulvarı No: 19
Akdeniz MERSİN/TURKEY

Tel: +90 324 502 00 60-61

Direct GSM: +90 533 314 50 24

Gsm: +90 532 154 94 19

e-mail: info@akytechnology.com



Discover
the potential