



OPTIMUM 210 SERIES
FINE SCREEN CLEANER

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Saat Technologe is more than the equipment we produce. We are professionals who thrive on building creative solutions to bring your vision to life. We've been doing it since 2008. We combine the right technology with the right team to bring it all together. Our purpose is your success. You can feel confident because you have an expert at your side – helping you grow into the future.

To find the right cleaning process for your business, you need a partner who understands your challenges and offers expert support. Saat Technologe has been helping customers succeed for more than 15 years. With a wide range of accurate and effective Super Fine cleaners for grain, seed, feed and food, you can feel confident with an expert at your side to help you grow into the future.

Saat Technologe is one of the world's leading supplier of Seed processing solutions. Based on in-house technology and experience, we have the capability to carry out the full design and supply of turnkey seed processing projects. You can count on our experts throughout the entire process. When designing process plants and solutions, we use our knowhow to ensure that all parts of a plant work together seamlessly and that daily operations and subsequent maintenance run as smoothly as possible. Robust project management supports the assurance of safety that lies in our products and project execution. From the placement of your order to the end of your warranty, you have an experienced and dedicated senior project team at your side.

Gentle handling of products is key to meet your expectations for quality and hit your operational goals. Saat Technologe's equipment is specifically designed to respect your harvest and increase your production efficiency, with the ultimate goal to prepare your product for better storage.

Saat Technologe has a complete line-up of precise cleaners to remove impurities. The gentle cleaning process helps maintain seed quality and germination potential by minimizing damaged seeds. Our experts work with you to understand your business and make sure you have the right systems for your production. Saat Technologe's Optimum series pre-cleaners, cleaners, and graders are easy to use and efficient to improve your productivity and profitability.

Saat Technologe's **Optimum** Fine Cleaners are designed to separate light impurities and small seeds from dry products, like grains, maize, oil seeds, legumes and similar.

Using a combination of flat reciprocating screens and two or three air systems, Optimum fine-cleaners are estimated to remove approximately 85% of impurities. This reduces impurities from 4% to 0.5%. It is also estimated to remove approximately 75% of small seeds. This reduces small seeds from 8% to approximately 2% after cleaning.

Saat Technologe's Optimum grader is designed for dried and fine cleaned maize, pulses, coffee beans, sunflower seeds, and similar products. Flat reciprocating screens send undersized, oversized, immature and damaged seeds to a different channel. So, only useable seeds keep moving through the production process. The Optimum grader can receive different moistures or densities, but it is important that products are dried and fine cleaned before entering the system.

OPTIMUM 210 SERIES CLEANER FEATURES

1. Full-width Vibratory

- has stepless adjustment of the feed rate by an inverter.
- separate control panel ensures a uniform flow over the entire width of the sieve
- is self-cleaning
- improves the air cleaning considerably as the product hits the pre-suction area uniformly
- is careful to leguminous seeds, beet seeds etc.
- ensures optimal capacity utilisation of the machine
- has no down time due to choked up inlet
- requires no cleaning in connection with changing products

2. Pre and After Suction System

- is built as separate systems to ensure a precise and independent air cleaning
- Separates the light particles before the material reaches the sieves
- improves the cleaning effect and results in a higher capacity
- Ensures an excellent purity of the product due to the suction of light particles such as empty seeds, husks, dust etc. When the product leaves the cleaner via the air screen.

3. Change of Product Flow

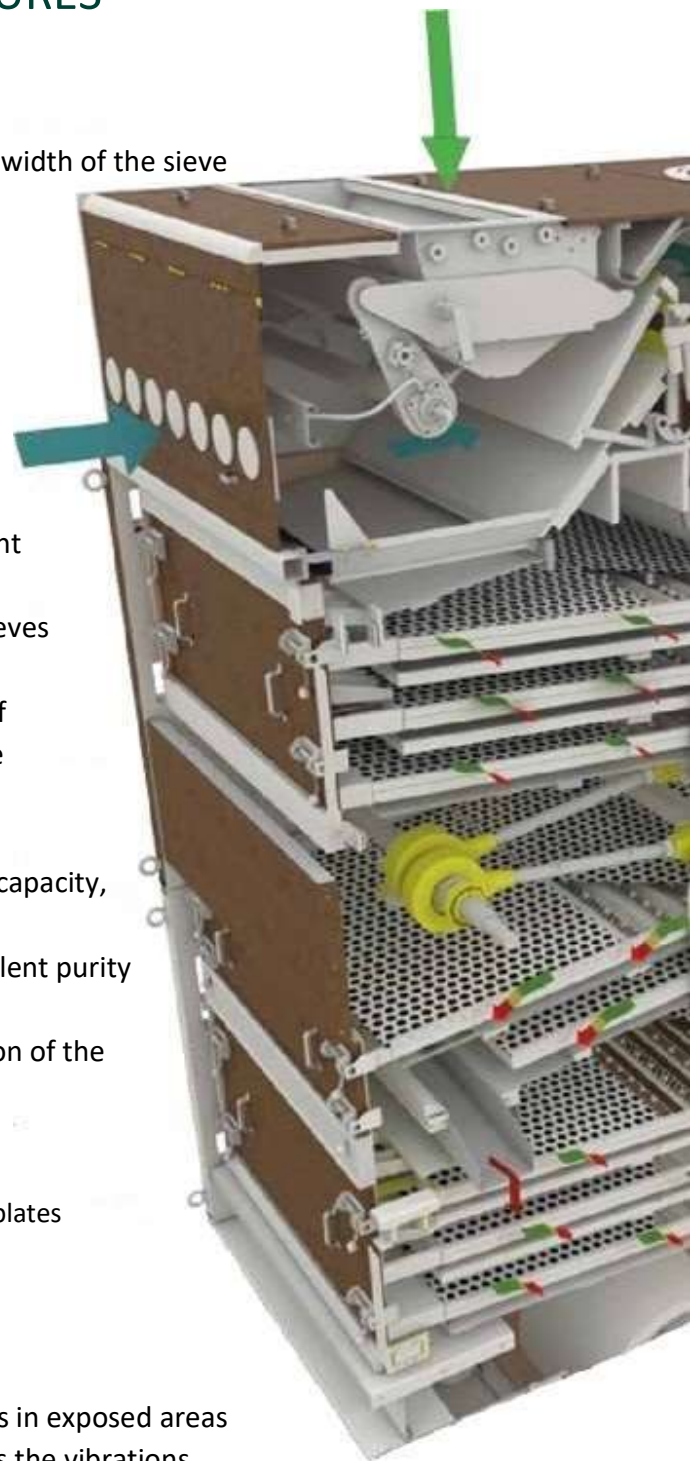
- makes many different product flows possible according to the capacity, product, number of fractions etc.
- by means of six different diagrams in the cleaner ensures excellent purity and minimum waste
- is easily done by changing the size of the sieves and the position of the outlet trays

4. Perforated Screens

- are available with round and long holes from 0,3 to 25,0mm
- are also available as wire mesh screens are also available as screen plates with very little tolerance which ensures a minimum cleaning loss.
- Are available in a standard size of: 800 mm (L) x 1250 mm (B) = 1 m

5. Screenshoes of Birch Plywood

- are moisture and insect-resistant
- are constructed with replaceable wear plates and sieve runners in exposed areas
- have a long lifetime because the birch plywood easily tolerates the vibrations of the screen shoes -give less resonance owing to the birch plywood and thus a better working environment is obtained





6. Balanced Eccentric System

- is fitted with counter weights ensuring steady running
- involving minimum stress on buildings and steel structures
- is fitted with "heavy duty" bearings
- ensures maximum utilisation of the cleaning effect of the sieves owing to accurately attuned stroke and RPM

7. Ball Box

- ensures efficient cleaning of sieves by means of rubber balls
- can maintain the cleaning effect at extremely low temperatures as the rubber balls are cast in a very suitable material
- is cast solid so that it prevents stuck seeds etc.(self-cleaning)
- is separately mounted in the screen shoes which ensures a quick change of sieves without removing the ball boxes

8. Air Lifting Channel

- eliminates light seeds in the variable expansion chamber
- through which husks, dust etc. are led with the airflow to the after-suction system.
- is available with an extra-large expansion chamber and centre outlet for special processes

9. Screw Conveyor for Light Waste

- ensures continuous discharge of dust and light waste from the air system via screws
- with finger flaps to ensure optimal dust separation in the expansion chamber by preventing false air from entering into the chamber

10. Air Lifting Sieve Screen

- serves to convey the product through the air flow to ensure elimination of light particles
- forces the product through under passage to turn its biggest surface against the air flow in order to obtain optimal separation
- is constructed with adjustable air lifting hood over the air lifting sieve, which ensures optimal collecting up of the discarded light particles
- is combined with air lifting hood, designed with inspection window in full width, in order to make the adjustment of the air volume easier.

11. Air Lifting Unit

- this feature is not available with 210 Series of Fine Screen Cleaners

OPTIMUM 210 SERIES

FINE SCREEN CLEANER CAPACITY CHART

OPTIMUM MODEL NO			212	214	215	216	217	218
Materials	Bulk density t/m ³	Moisture content %	Capacity t/h	Capacity t/h	Capacity t/h	Capacity t/h	Capacity t/h	Capacity t/h
Barley	0.68	14	2,2	4,5	6.5	11	16	22
Clover	0.82	14	1	2	3	4	6	8
Coffee, green	0.65	14	2	4	6	9	12-14	20
Maize	0.71	14	1,5-2	3-4	4-6	6-8	9-16	14-20
Oats	0.51	14	1,5	3	5	7	10-12	16
Peas, common	0.7	14	2	4	6	9-10	12-15	20
Rapeseed	0.74	7-9	1,5	3	5	8	12	15
Rice, paddy	0.51	14	0,5	3	3.5-4.5	5-7	7-8.5	10-12
Rice, white	0.75	14	2	4	6	9	14	20
Rye	0.69	14	2,2	4,5	6.5	11	16	22
Ryegrass	0.3	14	0,4	1	1.6	2.2	3	4
Sorghum	0.64	14	2,2	4,5	6.5	11	16	22
Soybeans	0.72	14	2	4	6	9-10	12-15	20
Sunflower	0.4	7-9	1	1,5-2,5	2.5-3.5	3.5-4.5	5-8	6-10
Wheat	0.76	14	2,5	5	7.5	12	18	25

Note: Capacities may vary for different impurity and moisture contents. See Technical Data Sheets for each model for further details.

Our Services

DELIVERING RELIABILITY AND DEPENDABILITY

You are committed to delivering the highest quality for your customers. Saat Technologie can help you deliver. With our customer service team and partners, we offer exclusive after-sales service, for qualified assistance at all times.

After-sales service not only includes spare parts service, but also regular maintenance services, plant check-ups and consulting services.



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