

Science of Seed Processing

Brand	Saat Technologe
Designation	Peanut Sheller
Model	PS Series with Models of Single, Double, up to 4 Shellers with air Screen Separators. Mini Peanut Sheller and Separat
Application	Removing Peanut shell to obtain Peanut kernel.



Peanut Sheller PS Series is a precise and efficient Peanut Sheller unit applicable for all varieties of Peanut.

PEANUT SHELLING SYSTEMS

Saat Technologe Peanut Shelling Systems are specially designed and manufactured to handle your exact needs. All of our systems are engineered with your type of peanut product(s) in mind. We can design and build a system to shell peanuts at almost any amount of tonnage per hour.

A peanut shelling system consists of much more than just a peanut sheller, although that is an important component. The peanut shelling cylinder is one of those components. The **Saat Technologe** Peanut Sheller Cylinder is designed with high efficiency, high capacity and minimum split creation.

PEANUT SHELLER

The **Saat Technologe** Peanut Sheller cylinder is designed to shell peanuts and is a main integrated part of the shelling system with high efficiency, high capacity and minimum split creation.

The **Saat Technologe** Peanut Sheller cylinder is designed with ease of operation and low maintenance in mind. The shelling grates or concaves are easy to change out and can be sharpened as they become dull with wear. This quick-change feature allows the operator to change shelling grates quickly as the size of the peanuts change. Directly driven by its motor and gear reducer, the shelling cylinder will start up under load.



There are 3 hardened shelling bars in each cylinder. These shelling bars are readily adjustable to give the proper distance between the bars and the shelling grate.

Peanut Sheller 4xPS with Air Screen Separator Contains

- 4 units of Peanut Sheller cylinders
- Three screening boats
- Hull aspiration Vacuum Channels
- Centrifugal Aspirator
- Service Platform

4 Peanut Sheller cylinders

- Peanut Sheller is designed with ease of operation and low maintenance in mind.
- The shelling grates are easy to change, quick change feature allows the operator to easily vary shelling grates as the size of the peanuts change.
- under a load under a load of sheller cylinders due to directly driven of its motors and gear reducer.
- Directly driven by its motor and gear reducer, the shelling cylinder has the ability to S under a load.

Three screening boats

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 utilization of the cleaning effect of the sieves owing to accurately attuned stroke and RPM

Hull aspiration

Vacuum Channels

- eliminates light shells
- through which shells, dust etc. are led with the airflow to the after-suction system.

Centrifugal Aspirator

- The impeller is self-cleaning and dynamically balanced. The spiral housing is made of welded steel plate.
- direct coupled flange motor

Service Platform

- Easy access to Sheller and Aspiration for service and maintenance.
- Cat walk and safety bars.



Ball Box

- efficient cleaning of sieves by 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)

Conditions before Shelling:

Peanut seed to be Shelled, should have been cleaned/separated from admixtures*

For optimum shelling yield, your sales representative will explain you in detail required conditions.

Capacity: Each model of Peanut Huller has different capacity, please refer to technical chart and ask details to sales representatives of Saat Technolge.



Shelling Operation with Peanut Sheller:

Seed is fed into the inlet where it enters to the 2 Units of Peanut Sheller Cylinder. Shelling Bars forces the Peanuts to pass through the grates where shelling occurs. Speed of the Shelling bars are fixed. Right after sheeling Shells aspirated by Vacuum Channels, kernels, Shells and None shelled Peanut falls on the First Screen Boat for fines screen separation. Second Screen Boat is for None Shelled Peanut Separation as oversize to be send over to 3rd Peanut Sheller Cylinder. The bottom Screen Boat is for Split Peanut Kernel Separation. At the end of each Screen Boat there is Aspiration Channel for Shell Aspiration. The last Peanut Sheller Cylinder is for shelling the returns from Density Separator that would be allocated in the line right after the Sheller Equipment.

An industrial duty machine, long lifetime ensured by rugged design ensures easily replaceable Grates and Shelling Bars fabricated from a highly durable steel for wear resistance.

Food Grade:

Easy access to all parts of the machine.
Food Grade painted surface is sufficient for Sunflower Seed processing equipment. Stainless Steel surface is optional.
Food Grade Lubricants for bearings.

Shelling yield:

Shelling yield ranges from 70 to 90 %, this high variation happens due to right conditions being provided or not and we are happy to share our experience. Please consult your sales agent.

After Shelling Operation:

Depending on your end use or business needs the right equipment is used for purification of Kernels which can be a Density Separator, Splits Seed Separator, Color Sorter, Sizer, Hand Pick Selection Belt Conveyor, X-Ray and or Weighing and bagging Scale.

Shipment:

If you are looking for single machine, we provide the Cargo parameters for each machine, so buyer can calculate Transport cost to delivery address and we will be more than happy to assist you in this matter please feel free to consult your sales agent.

Installation:

We supply technical documents and easy install videos to our clients for safe handling.
As well as our moto is 'Plug and Play' that makes our buyers experience much easier with Peanut Shellers.

After Sales Support:

We have 7/24 online and on call After Sales Support Department.

For After sales parts purchasing you can go to our online **Saat Technologe** or download **our application** to order your required spare part, if we have not opened an account for you please go ahead open your account, purchase your part and it will get it delivered to your address. Note: Capacities may vary for different impurity, moisture contents and seed verity.

ENVIRONMENTAL CONDITIONS

Environment	Indoors
Temperature from	-10°C to +40°C
Altitude	Up to 1 000 m

NOISE

Sound pressure level, empty 79.2 dB(A)

MODELS	PS X 1	PS X 2	PS X 4
Peanut Sheller Cylinder	1	2	4
Motor	11kW	22kW	44kW
Air Screen Separator	2 Levels	2 Levels	3 Levels
Eccentric Motor	1,1	1,5	2,2
Screen Area m2	4,0	6,0	9,0
Fan Motor KW	7,5	15	30
Shelling Capacity t/h	2,5	5	10