

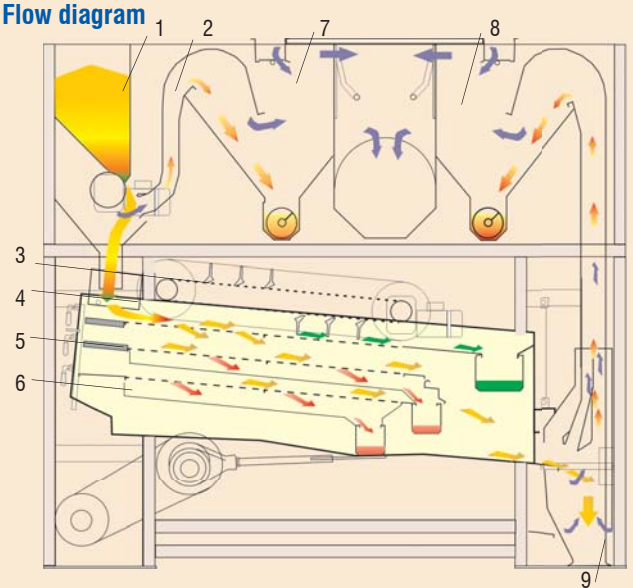


PETKUS Cleaner is a combined multi-purpose air screen cleaning machines of a new and modern machine concept, suitable for the pre-, intensive and final seed cleaning of cereals, corn, beans and fine seeds to the highest standard of quality. The screen layer in the Cleaner can be utilized according to requirements to meet the actual cleaning process either for scalping, grading, sorting or sifting.

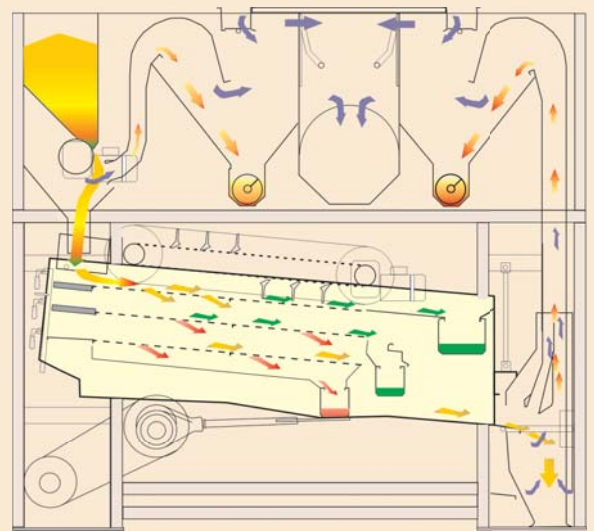
Construction:

- **Feeding system**
 - The Cleaner is provided with inlet buffer bin and a feeding drum combined with a weight balanced intake flap. The weight rollers on both sides of the flap allow the adjustment of the feed of the product.
- **Suction system (Pre-aspiration and main aspiration channel)**
 - The pre-suction system, which removes up the dust and lightweight trash before screening, is equipped with a separate expansion chamber supplied with extraction auger and a fingerflap seal system by the outlet. The flowing ability of the product will be improved.
 - The main-suction system is independent from the pre-suction system and incorporates the leak-air principle for easy adjustment of the air volume and velocity. The design of the main aspiration system is based on a double channel with an adjustable flap for controlling the product flow into the air stream. Both aspiration channels are completed with separate expansion chamber and extraction auger supplied with a fingerflap seal-system by the outlet. The suction system is prepared for connection to a separate fan or a central aspiration system.
- **Screen system**
 - The screen system consists of one screen shoe with 3 sieve layers.
- **PETKUS seed flow control system:**
 - The first upper sieve is equipped with a special PETKUS sieve cleaning system. The construction is based on the combination of endless moving chains with plastic blades and rubber balls. This system keeps the sieve perforations clear of lodging particles, and controls the rate of movement of the product along the screen surface.

Flow diagram



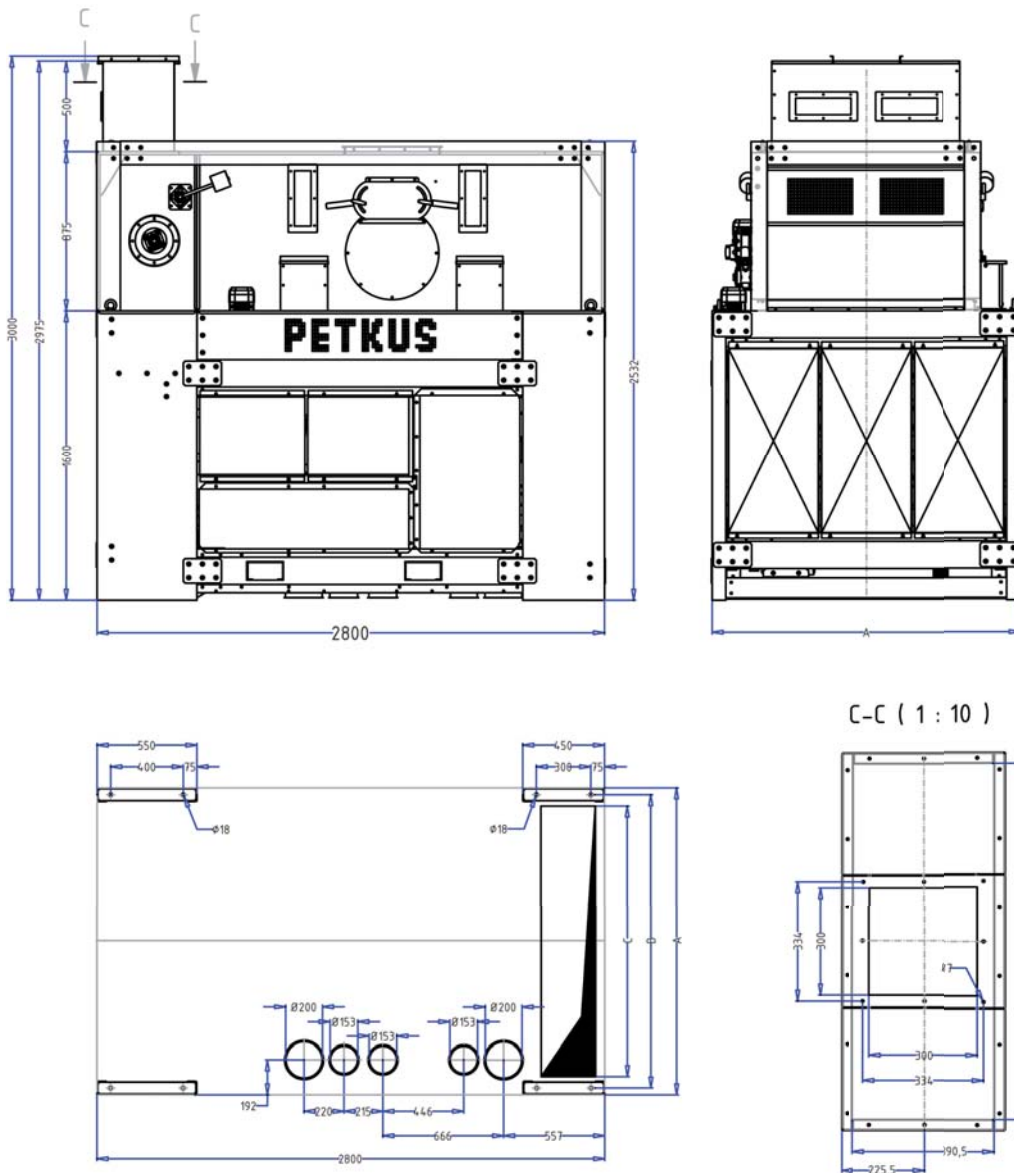
- | | |
|------------------------------|--|
| 1 - Inlet in the machine | 6 - Sieve layer 3 |
| 2 - Pre-aspiration channel | 7 - Expansion chamber Pre-aspiration |
| 3 - Seed flow control system | 8 - Expansion chamber Main aspiration |
| 4 - Sieve layer 1 | 9 - Main aspiration channel with outlet for the cleaned material |
| 5 - Sieve layer 2 | |



The special effect of the PETKUS seed flow control system is a smaller overall-sieve surface area compared to conventional cleaners. All sieve segments are interchangeable and mounted in a double size screen frame of aluminium, and a frame for antifreezing rubber balls which are keeping the screen surface clean.

Description:

The raw material flows into the machine by passing the inlet hopper and the feeding drum. The flow is controlled by the pressure of the inlet flap and two weights adjustable for each material type from the outside of the machine. The material flows into the pre-aspiration channel to separate dust. The product divider in front of the sieves is splitting the product flow. The working principle of the sieves can be changing by use upper sieve and or lower sieves. The cleaning and sorted material flows direct into the main suction channel for separation of dust and small rejects. All rejects from the aspiration systems and the sieve systems flowing direct in separate trays. The cleaned product flows from the main channel into the outlet hopper.



Technical Data		A 09	A 12	Technical Data		A 09	A 12
Capacity (Basis: Wheat)				No. of sieve segments			
Pre-cleaning	t/h	40	50	Upper sieve	pcs.	2 x 3	2 x 4
Industrial cleaning	t/h	20	25	Middle sieve	pcs.	2 x 3	2 x 4
Seed cleaning	t/h	4	5	Lower sieve	pcs.	2 x 3	2 x 4
Drives				Total No.	pcs.	18	24
Ventilatoren	kW	5,5 - 7,5	11,0	Dimension:			
Screen shoe	kW	2,2	2,2	A	mm	1400	1700
Machine inlet drum	kW	0,37	0,37	B	mm	1325	1625
Discharge screws	kW	2 x 0,25	2 x 0,25	C	mm	1200	1500
Screen cleaning, Option	kW	0,37	0,37	D	mm	984	984
Air volume (Wheat), max.	m³/h	8.500	11.000	Length:	mm	2.750	2.750
No. of sieve layers	pcs.	3	3	Height: Machine only	mm	2.532	2.532
No. of upper sieve frames	pcs.	2	2	with inlet hopper	mm	3.000	3.000
No. of middle sieve frames	pcs.	2	2	Weight	kg		
No. of lower sieve frames	pcs.	2	2	Screen surface	m²	3,78	5,04

Technical alteration reserved.