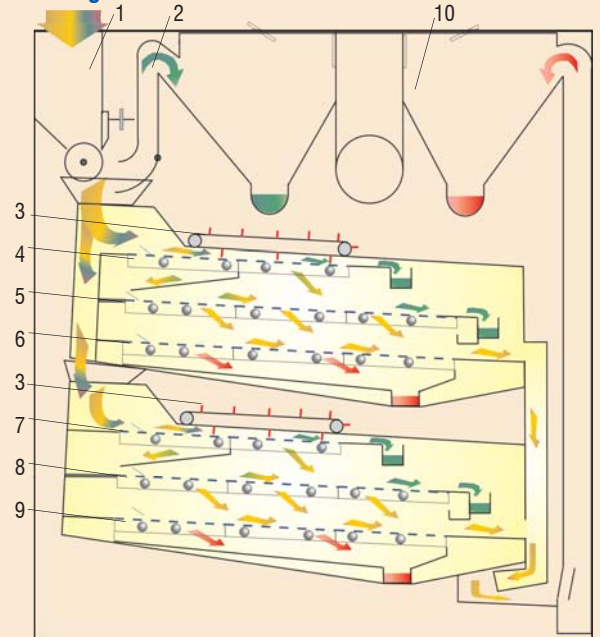




Flow diagram



- | | |
|---------------------------------------|--|
| 1 - Machine inlet-feeding system | 7 - Sieve layer 4 - lower screen shoe |
| 2 - Pre-aspiration | 8 - Sieve layer 5 - lower screen shoe |
| 3 - Sieve cleaning system | 9 - Sieve layer 6 - lower screen shoe |
| 4 - Sieve layer 1 - upper screen shoe | 10 - Expansion chamber for pre- and main suction channel |
| 5 - Sieve layer 2 - upper screen shoe | 11 - Main suction channel |
| 6 - Sieve layer 3 - upper screen shoe | |

PETKUS Pre-Cleaner, combined air-screen cleaning machines, special developed for the effective scalping or pre-cleaning of wheat, barley, maize, rape and other grain types to achieve a good preparation for the storage of the grain product. The special advantage is the effective cleaning of very dirty grain batches by the use of the large upper screen area combined with the PETKUS special sieve cleaning.

Construction and description:

- Feeding system
 - The Pre-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 an upper screen shoe and a lower screen shoe which are designed to the similar construction and function.

■ **PETKUS seed flow control system:**

The first upper screen of each screen shoe is equipped with a special PETKUS sieve cleaning system. The construction is based on the combination of endless moving chains with blades and rubber balls. This system keeps both the sieve perforations clear of lodging particles, and controls the rate of movement of the product along the screen surface: PETKUS seed flow control system. The special effect of the PETKUS seed flow control system is a smaller overall-sieve surface area compared to conventional cleaners.

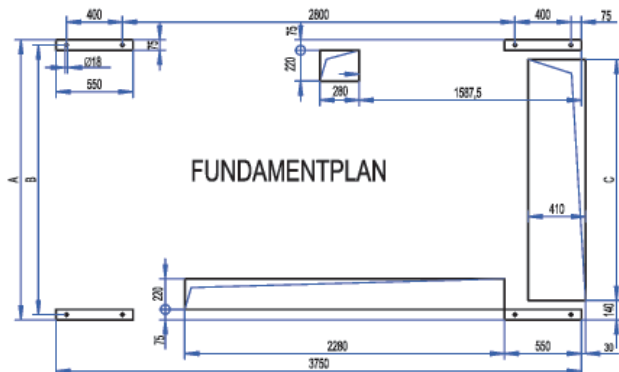
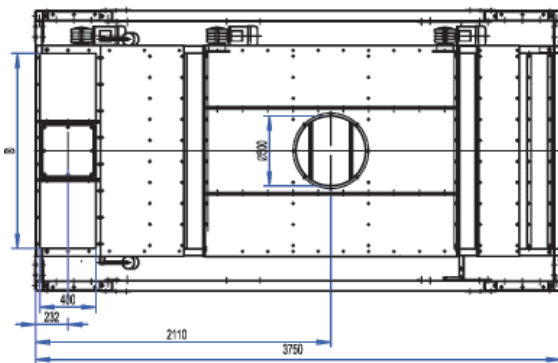
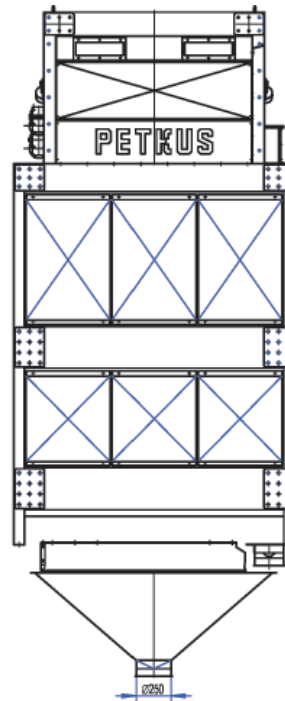
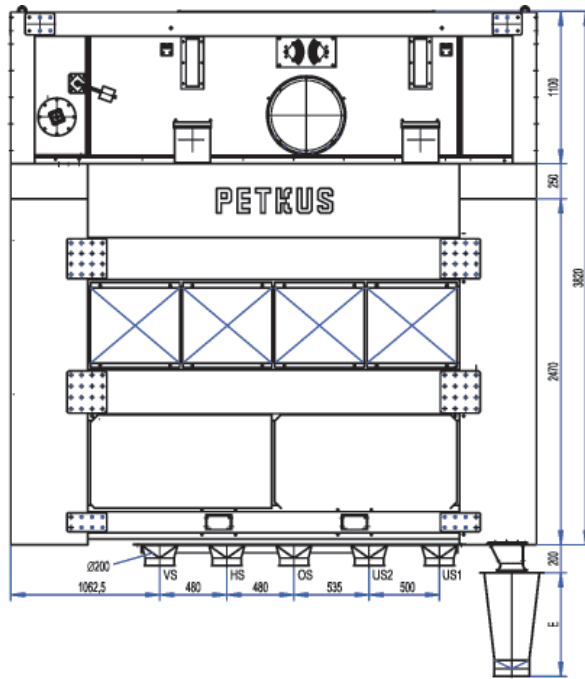
All sieve segments are interchangeable and mounted in a double size screen frame of aluminium, and a frame for antifreezing rubber balls which are keeping the screen surface clean.

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 screen shoes is splitting the product flow into 50% in each screen shoe. Each screen shoes have the same working principle by use of one scalper, one upper sieve and one lower sieve. The cleaning and sorted material from both screens shoes 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.



Sieve cleaning system - endless chain with plastic blades and rubber balls



Technical Data		V 12	V 15	Technical data		V 12	V 15
Capacity (Wheat)				No. of sieve layers			
Pre-cleaning	t/h	120	150	Upper screen shoe	pcs.	3	3
				Lower screen shoe	pcs.	3	3
				No. of sieve layers			
Drives				Upper screen shoe	pcs.	32	40
Fan	kW	11,0-15,0	15,0-18,0	Lower screen shoe	pcs.	32	40
Screen shoe	kW	5,5	5,5	Total No. of sieve segments	pcs.	64	80
Inlet drum	kW	0,37	0,37	Dimensions:			
Discharge screw	kW	2 x 0,25	2 x 0,25	A	mm	1700	2000
Sieve cleaning upper screen	kW	2 x 0,37	2 x 0,37	B	mm	1625	1925
				C	mm	1090	1390
Air volume (Wheat)	m ³ /h	9.000	12.000	D	mm	1530	1720
				E	mm	740	890
Working width	mm	1.200	1.500	Revolution	Hz	5,0	5,0
				Load, horizontal (FH)	kN	±1,7	±2,2
				Load, vertical (FV)	kN	9,5±2,8	10±3,5
Screen surface	m ²	13,44	16,80	Weight	kg	3800	4150

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