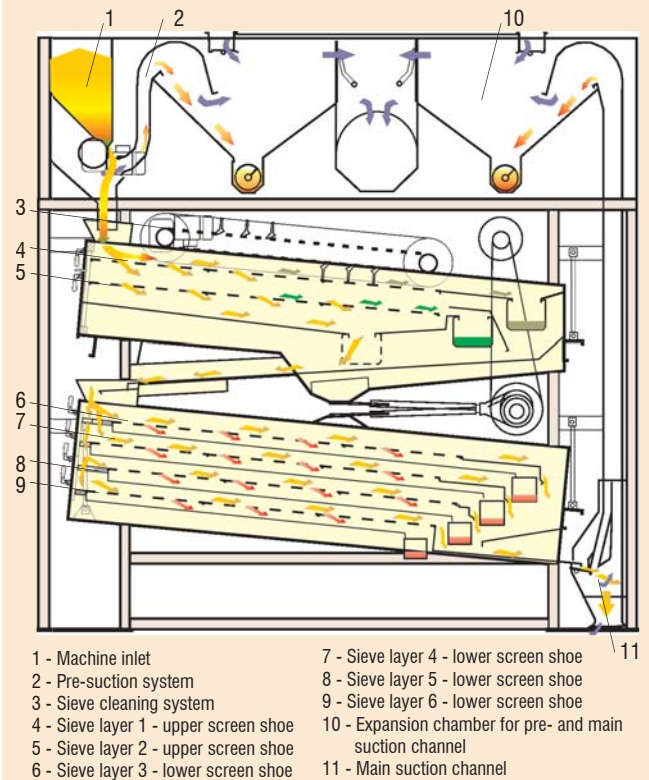




Flow diagram



PETKUS Multi Cleaner are 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 etc., and fine seeds to the highest standard of quality. The various screen layers in the Multi Cleaner can be utilized according to requirements to meet the actual cleaning process either for scalping, grading, sorting or sifting.

Construction and description:

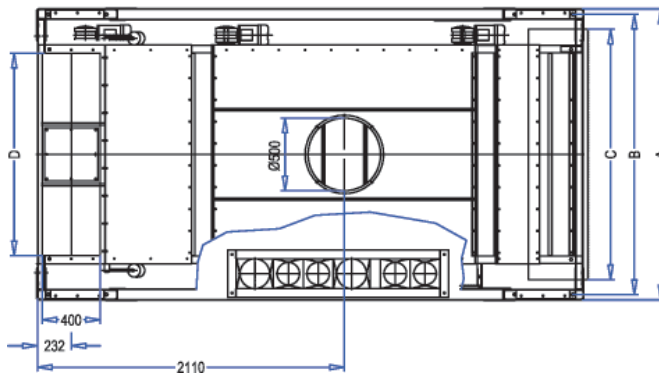
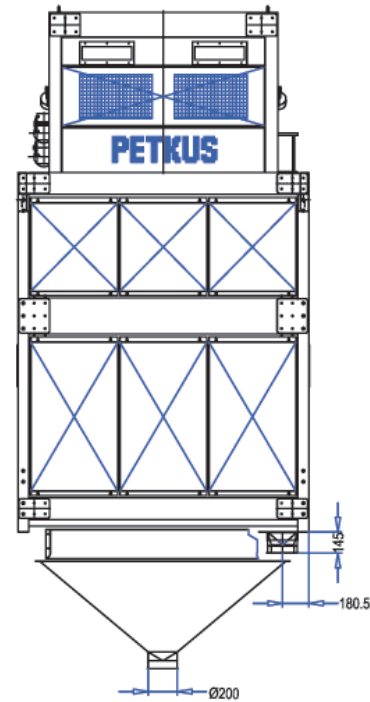
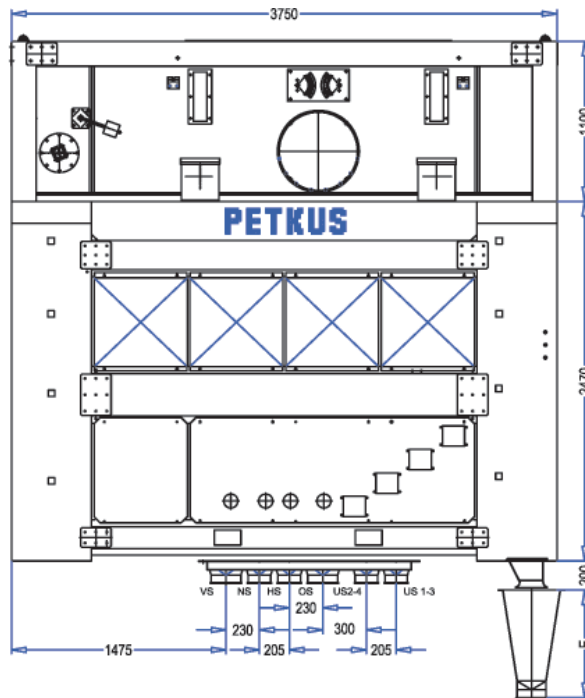
- Feeding system
 The Multi Cleaner is provided with inlet buffer bin and a feeding roller combined with a weight balanced intake flap. The weight rollers on both sides of the flap allow the adjustment of the feed of the product.
- Suction system (Pre-aspiration and main aspiration channel)
 The pre-suction 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 and completed with separate expansion chamber mounted with 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
 Upper screen shoe (Scalper and pre-cleaning screen):
 The upper screen shoe is supplied with 2 screen layers usable for various separation of waste parts from the product. The two upper sieves remove oversize rejects from the product.

- PETKUS seed flow control system:
 The first upper screen can be equipped with a special PETKUS sieve cleaning system. The PETKUS universal sieve cleaning system of the first upper sieve is based on the combination of endless moving chains with blades and rubber balls. This system keeps the screen perforations clear of lodging particles, and controls the rate of movement of the product along the screen surface. The special effect of this system is a smaller overall-sieve surface area compared to conventional cleaners. (The seed flow control system can be delivered as an option.)
- Lower screen shoe:
 The lower screen shoe is supplied with 4 screen layers, which can be utilized according to requirements by using the multi-flow screen diagram. All screen 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. The angles of the screens are adjustable (option).
- Drive of the machine:
 The drive unit includes the main eccentric system, which guarantees a perfect balance and a vibration free motion with motor console and V-belt drive. The frequency of the screen shoes is adjustable by frequency converter (option).



Screen shoe drive unit

Multi Cleaner Type M 12 / M 15



Typ	A	B	C	D	E
M 12-3.6	1700	1625	1530	1090	740
M 15-3.6	2000	1925	1720	1390	890

Technical data		M 12	M 15	Technical data		M 12	M 15
Capacity (Wheat)				No. of sieve layers			
Seed cleaning	t/h	20	25	Upper screen shoe	pcs.	2	2
Industrial cleaning	t/h	50	60	Lower screen shoe	pcs.	2+2	2+2
				No. of sieve segments			
Drives				Upper screen shoe	pcs.	2 x 12	2 x 15
Ventilator	kW	11,0-15,0	15,0-18,0	Lower screen shoe	pcs.	4 x 12	4 x 15
Screen shoe	kW	4,0	5,5	Total No's.	pcs.	72	90
Machine inlet drum	kW	0,37	0,37	Dimension:			
Discharge screws	kW	2 x 0,25	2 x 0,25	A	mm	1700	2000
Sieve cleaning upper screen	kW	0,37	0,37	B	mm	1625	1925
				C	mm	1530	1720
Air volume (Wheat)	m ³ /h	9.000	12.000	D	mm	1090	1390
				E	mm	740	890
				Revolution	Hz	5,0	5,0
Working width	mm	1.200	1.500	Load, horizontal (FH)	kN	±1,7	±2,2
				Load, vertical (FV)	kN	9,5±2,8	10±3,5
Screen surface	m ²	15,2	18,9	Weight	kg	3450	3800

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