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

The purpose of the **PETKUS V-Cleaner** is the high-quality cleaning of grain, pulses, oilseeds and other free flowing products. The cleaner can be used for pre-, intensive and seed cleaning. The high standard of cleaning is achieved by a combination of the screening process and the air aspiration system.

#### Advantages:

- Very high flexibility due to extensive setting options using product diverters and chutes
- High standard of cleaning and quality
- Simple and quick changing for various applications due to the modular design
- Highly effective cleaning of the screen surface by means of a ball cleaning system, and scraper chains, thus achieving a reduction of the overall machine length
- Also suitable for not free flowing products and sections with high debris

#### Description:

The product to be cleaned is evenly distributed and fed into the cleaner by an inlet hopper. The product is moved from the inlet hopper into the pre-aspiration. Light rejects, husk and dust are separated here. The product is separated onto the two screen compartments by a product diverter at a ratio of 50:50, vibrating in opposite directions; each one equipped with a scalper screen, and two screen layers. Coarse (scalper and top screen) and light rejects are separated here (bottom screen). The screened product is moved into the final aspiration. The product is sorted by its bulk density and light rejects such as hollow grains, foreign particles and dust are separated here. All screens are cleaned with balls which are placed under the screens. The scalper screens are additionally equipped with a scraper chain.

#### Construction:

The V-Cleaner is equipped with an inlet hopper, one pre-aspiration and one final aspiration with a depositing chamber as well as two screen compartments with three screen layers. The various components of the machine (inlet hopper, discharge auger, scraper chain etc.) are operated by drive motors.

#### Standard Equipment:

- Bolted frame made of painted sheet steel
- Screen compartments, pre-aspiration and final aspiration made of galvanized sheet steel
- Set of screens for screening diagram
- Scraper chains
- Drive units with gear motors

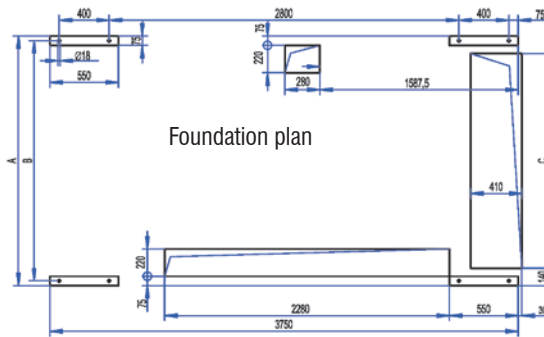
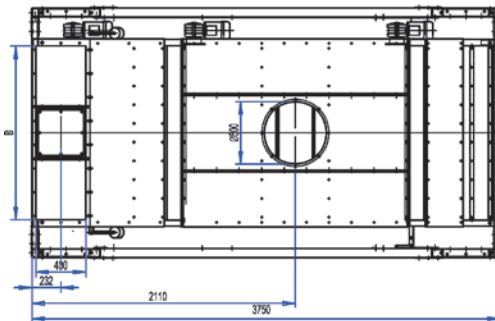
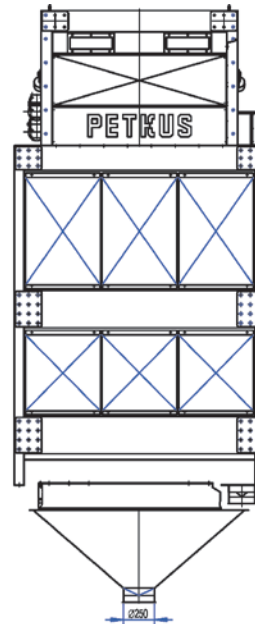
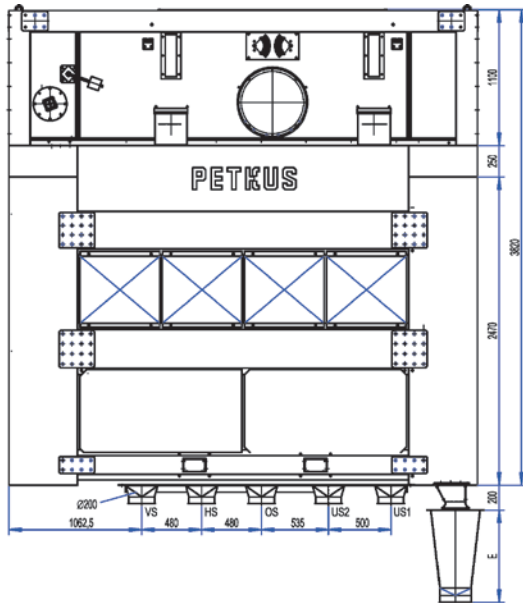
#### Options:

- Conversion kits (screens and accessories) for various screening diagrams
- Discharge left or right
- Aspiration connection above or opposite to control side



Scraper chain

# Pre-Cleaner V 12 / V 15



Technical Data		V 12	V 15
Capacity (wheat)			
Pre-cleaning	bu/hr	4 400	5 000
Industrial cleaning	bu/hr	2 200	2 700
Drives			
Fan	hp	15.0 - 20.0	20.0 - 24.0
Screen shoe	hp	10.0	10.0
Inlet drum	hp	0.5	0.5
Discharge screw	hp	2 x 0.5	2 x 0.5
Cleaning device upper screen	hp	2 x 0.5	2 x 0.5
Air volume (wheat)	cfm	5 301	7 068
Working width	in	47.25	59
Screen surface	in <sup>2</sup>	20 832	26 040
Weight	lb	7 606	9 149

Technical data		V 12	V 15
No. of screen layers			
Upper screen shoe	pcs.	3	3
Lower screen shoe	pcs.	3	3
No. of screen segments			
Upper screen shoe	pcs.	32	40
Lower screen shoe	pcs.	32	40
Total No. of screen segments	pcs.	64	80
Dimensions:			
A	in	67	78.75
B	in	64	76
C	in	60.25	67.75
D	in	43	54.75
E	in	29.25	35
Speed	rpm	320	320
Load, horizontal (FH)	lb <sub>f</sub>	± 225	± 270
Load, vertical (FV)	lb <sub>f</sub>	2 046 ± 742	2 473 ± 922

Technical alteration reserved.