



The **PETKUS Screen Machines SM** are designed for the coarse and pre-cleaning of dry, granular and free flowing products, e.g. grain, corn, rice, and oilseeds. The Screen Machines are available with two or four screen layers in three different widths.

### Advantages:

- Suitable for various products due to extensive setting options
- High standard of cleaning
- Simple and quick changing of screens
- Stroke, angle of throw and screen inclination can be adjusted
- Highly effective cleaning of the screen areas by rubber balls
- Reliable and low-maintenance

### Description:

The product flow is evenly distributed in the inlet of the Screen Machine. Light rejects such as dust are aspirated in the inlet at the same time. Afterwards, the product is evenly distributed along the distribution route across the entire machine width by vibration and a guiding plate, and then guided onto the top screen. Straw and large, coarse rejects are separated by the top screen. The product falls through the top screen to the bottom screen. The bottom screen separates the smallest rejects such as weed, dirt and sand. The screen layers are cleaned by rubber balls. Machines with four screen layers have two top screens and two bottom screens working parallel. The product is divided here at a ratio of 50:50. The cleaned product is discharged from the machine. Further rejects with lower density can be separated in the final aspiration duct (option) by the air flow.

### Construction:

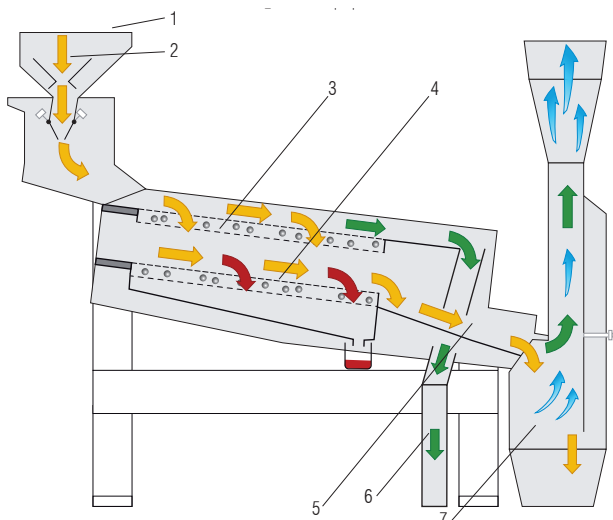
The Screen Machine is equipped with an inlet hopper with aspiration, a distribution plate and a screen compartment with two or four screen layers. The screen compartment and the distribution route are driven by two imbalance motors.

### Standard Equipment:

- Bolted frame made of galvanized sheet steel
- Set of screens for screen diagram
- Rubber balls for the screen cleaning
- Drive unit with two imbalance motors

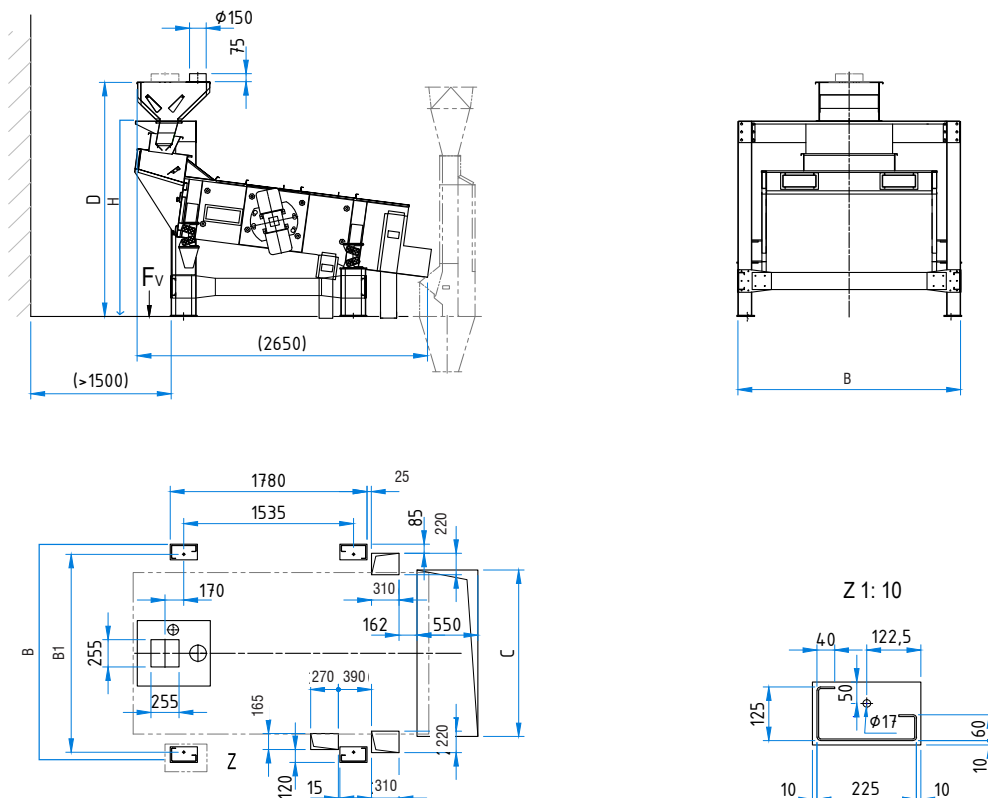
### Options:

- Screens available for a large number of different products
- Final aspiration duct available for separating light rejects, e.g. dust



- |                        |  |
|------------------------|--|
| 1 - Aspiration         | 5 - Outlet of the lower screen                                     |
| 2 - Inlet              | 6 - Outlet of the upper screen                                     |
| 3 - Upper screen layer | 7 - Aspiration channel with outlet of the cleaned product (option) |
| 4 - Lower screen layer |  |

# Screen Machines Type SM



Type		SM 12	SM 15	SM 24	SM 30
Capacity (based on wheat 3% waste)	bu/hr	1800	2200	3600	4400
Upper screen	in x in	47.25 x 68.5	59.25 x 68.5	47.25 x 68.5	59.25 x 68.5
Total no. of upper screens	pcs.	1	1	2	2
Lower screen	in x in	47.25 x 68.5	59.25 x 68.5	47.25 x 68.5	59.25 x 68.5
Total no. of lower screens	pcs.	1	1	2	2
Screen area	in <sup>2</sup>	6510	8680	13020	16198
Screen width	in	47.2	59.1	47.2	59.1
Screen inclination up to	°	5/7, 5/10			
Motor	hp	2 x 0.86	2 x 0.95	2 x 0.95	2 x 1.34
Aspiration	cfm	3532	4238	3532	4238
Dimension:					
Length, L	in	105.75			
Width, B	in	68.5	80.25	68.5	80.25
Height, H	in	89	89	104.75	104.75
Weight	lb	1764	2050	2776	3638
Length, L <sub>1</sub>	in	60.5			
Width, B <sub>1</sub>	in	60.75	72.5	60.75	72.5
Inlet, A	in	d = 10			
Outlet clean product e x f	in x in	49.25 x 21.75	61.25 x 21.75	49.25 x 21.75	61.25 x 21.75
Outlet upper screen a x b	in x in	12.25 x 8.75			
Outlet lower screen c x d	in x in	10.75 x 6.5			
C	in	49.25	61.25	49.25	61.25
D	in	84	86	86	101.75

Technical alteration reserved.