SINCE 2080

CYLINDRICAL SCREENING SEED GRADERS

CS 300/500/700

GENERAL

Brand	**ADDAMS**
Designation:	Cylindrical screening machine
Model	CS 300/500/700
Use	the Seed Industry

Application

Cylindrical screening Seed Graders are used for sorting and grading seeds and cereals, such as grains, maize, sunflower seeds, rice, and similar commodities. Also, generally, granular products, such as recycling products.

Working mode

The incoming material is sorted according to its width (round perforation) and, respectively, its thickness (slotted perforation).

All kernels thinner than the screen holes fall through the screen, and all kernels thicker than the screen holes remain in the screening cylinder and are transported to the end outlet.

Utilizing the product's permanent circulation and the resulting centrifugal force, each kernel is forced into contact with the screen perforation, allowing for sorting operations to be carried out with high accuracy.

The single cylinders, built as self-supporting steel constructions, can be joined in various configurations using a simple modular system, always utilizing only one drive motor (for energy savings) with a chain drive connection to the single cylinders. A maximum of three cylinders can be installed one above the other.

This means a massive spectrum of sorting targets can be covered.

Parallel operation

The grain flow is divided into separate inlet channels for each cylinder, allowing them to receive part of the grain flow at a time. The oversized product is discharged at the end of each cylinder. The deflector box will direct the product to bypass the following cylinder.

Series operation

The product falling through the upper screening cylinder is fed to the inlet of the next cylinder utilizing a vibrating trough. The oversized product is discharged at the end of each cylinder.

Assembly units:

- Screen box.

  The screen box houses the screening cylinder.
- Screen cylinder

  The CS300 and CS500 type has a single-sieve push-on cylinder.
- The CS700 type has three screen segments, which are attached to supporting discs.
- Vibrating through

  The vibrating through is used to feed the product falling through the upper screening cylinder to the inlet of the next cylinder. When arranged as the lowest unit, it will collect all throughs and convey them to a discharge pipe.
- Deflector box

  The deflector box is used to deflect products falling through the upper screening cylinder, ensuring they do not hit the lower cylinder but instead bypass the following cylinder.
- Discharge hopper

  It is invariably arranged as the lowest assembly of the equipment, serving only to collect the throughs and tailings in troughs from where they are piped out through a suitable conduit.

Features

- The drive can be equipped with fixed or variable speed (by frequency inverter or by mechanical speed variator gear).
- Permanent screen cleaning to prevent blockage of the screen holes (additional hand-operated cleaning device or brush rollers can be installed as an alternative).
- Adjustable screen inclination for regulation of throughput capacity (steplessly adjustable between 0 ° and 2.5 °).
- Simple screen exchange

  For the types CS300 and CS500, the screening cylinder are precisely inserted via leading bars and secured using a bayonet lock.
- Screens

  Standard perforations or special perforations fo very flat products.

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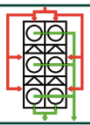
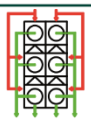
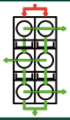
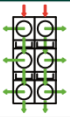
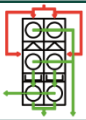
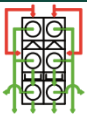
DIAGRAM	TYPE	Capacity [t/h]					Drive [kW]		Aspiration [m³/min]	Dimensions [mm]			Net weight [kg]	Grades
		Wheat	Maize Round perforation	Maize Slotted perforation	Soya beans	White rice	Standard	Variable speed gear		Length	Width	Height		
	ZS 300 I	1,8	0,7	0,9	1,6	1	0,37	0,55	10	2242	565	925	230	
	ZS 500 I	3,75	1,3	1,8	3,3	2	0,75	1,1	10	2527	735	1170	315	2
	ZS 700 I	7,5	2,5	3,5	6,6	4	1,1	1,5	20	3715	1036	1575	824 - br.	
 or 	ZS 300 II-A	3,6	1,4	1,8	3,2	2	0,75	1,1	20	2357	1096	925	460	
	ZS 500 II-A	7,5	2,6	3,6	6,6	4	1,5	2,2	20	2610	1436	1170	790 - br.	2/4
	ZS 700 II-A	15	5	7	13,2	8	2,2	3	40	3755	2036	1575	1600	
	ZS 300 II-BP	3,6	1,4	1,8	3,2	2	0,75	1,1	10	2531	565	1955	460	
	ZS 500 II-BP	7,5	2,6	3,6	6,6	4	1,5	2,2	10	2792	735	2450	744 - br.	2
	ZS 700 II-BP	15	5	7	13,2	8	2,2	3	20	3978	1036	3360	1551	
	ZS 300 II-BS	1,8	0,7	0,9	1,6	1	0,75	1,1	10	2531	565	1715	470	
	ZS 500 II-BS	3,75	1,3	1,8	3,3	2	1,5	2,2	10	2792	735	2210	685	3
	ZS 700 II-BS	7,5	2,5	3,5	6,6	4	2,2	3	20	3978	1036	3035	1551	
	ZS 300 III-P	5,4	2,1	2,7	4,8	3	1,1	1,5	10	2584	565	2770	700	
	ZS 500 III-P	11,25	3,9	5,4	9,9	6	2,2	3	10	2832	735	3515	1114	2
	ZS 700 III-P	22,5	7,5	10,5	19,8	12	3	4	20	3991	1036	4900	2400	
	ZS 300 III-S	1,8	0,7	0,9	1,6	1	1,1	1,5	10	2584	565	2505	700	
	ZS 500 III-S	3,75	1,3	1,8	3,3	2	2,2	3	10	2832	735	3250	956	4
	ZS 700 III-S	7,5	2,5	3,5	6,6	4	3	4	20	3991	1036	4495	2400	
	ZS 300 III-PS	3,6	1,4	1,8	3,2	2	1,1	1,5	10	2584	565	2745	700	
	ZS 500 III-PS	7,5	2,6	3,6	6,6	4	2,2	3	10	2832	735	3490	956	3
	ZS 700 III-PS	15	5	7	13,2	8	3	4	20	3991	1036	4820	2400	
 or 	ZS 300 IV-P	7,2	2,8	3,6	6,4	4	1,5	2,2	20	2584	1096	1955	930	
	ZS 500 IV-P	15	5,2	7,2	13,2	8	3	4	20	2845	1436	2450	1434 - br.	2/4
	ZS 700 IV-P	30	10	14	26,4	16	5,5	7,5	40	4158	2036	3360	3200	
 or 	ZS 300 IV-S	3,6	1,4	1,8	3,2	2	1,5	2,2	20	2584	1096	1715	930	
	ZS 500 IV-S	7,5	2,6	3,6	6,6	4	3	4	20	2845	1436	2210	1275	3/6
	ZS 700 IV-S	15	5	7	13,2	8	5,5	7,5	40	4158	2036	3035	3200	
 or 	ZS 300 VI-P	10,8	4,2	5,4	9,6	6	2,2	3	20	2624	1096	2770	1400	
	ZS 500 VI-P	22,5	7,8	10,8	19,8	12	4	5,5	20	2892	1436	3515	1912	2/4
	ZS 700 VI-P	45	15	15	39,6	45								
 or 	ZS 300 VI-S	3,6	1,4	1,8	3,2	2	2,2	3	20	2624	1096	2505	1400	
	ZS 500 VI-S	7,5	2,6	3,6	6,6	4	4	5,5	20	2892	1436	3250	2036	4/8
	ZS 700 VI-S	15	5	7	13,2	8								
 or 	ZS 300 VI-PS	7,2	2,8	3,6	6,4	4	2,2	3	20	2624	1096	2745	1400	
	ZS 500 VI-PS	15	5,2	7,2	13,2	8	4	5,5	20	2892	1436	3490	1912	3/6
	ZS 700 VI-PS	30	10	14	26,4	16								