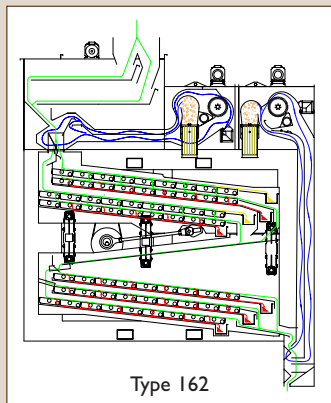


# Cimbria Mega Cleaner

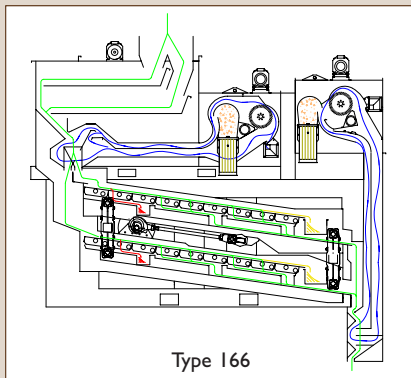


# Cimbria Mega Cleaner

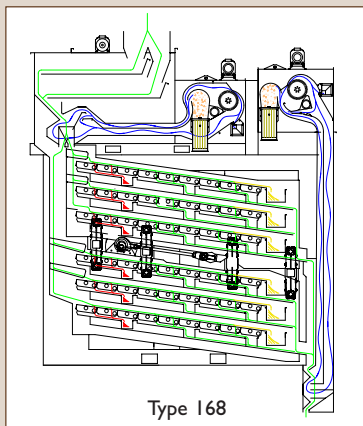




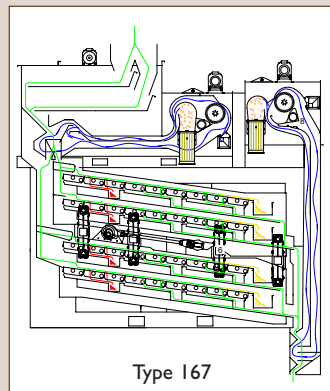
Type 162



Type 166



Type 168

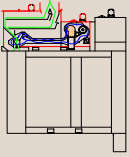


Type 167

		Screen area m <sup>2</sup> / FT <sup>2</sup>	Cereals						Legumes			Total weight kg / LB	Freight volume m <sup>3</sup> / FT <sup>3</sup>	Air volume m <sup>3</sup> / CFM	Dynamic loads Newton at 4,6-4,8 HZ
			Wheat, rye, sorghum	Barley	Oats	Maize	Raw rice	White rice	Soybeans	Peas	Rape seed				
<b>Mega 162</b>	Precleaning max. 20% moisture	38 / 408.5	100	100	90	100	75	80	80	80	90	8400 / 18,515	50 / 538.5	4800 / 2880	PH1600 / PV7500
	Malting barley max. 15% moisture			60											
	Malt max. 4% moisture			65											
	Industrial cleaning max. 15% moisture		75	75	60	75	60	80	80	80	60				
	Rape seed 98% max. 9% moisture										90				
Seed max. 15% moisture	50	50	40	40	25		40	40	40						
<b>Mega 166</b>	Precleaning max. 20% moisture	10,8 / 116,1	120	120	100	120	80	100	100	100	100	7000 / 15430	46 / 495,2	4500 / 2700	PH1400 / PV1700
	Malting barley max. 15% moisture			15											
	Malt max. 4% moisture			80											
	Industrial cleaning max. 15% moisture		100	100	80	100	60	80	80	80	80				
	Rape seed 98% max. 9% moisture										40				
<b>Mega 167</b>	Precleaning max. 20% moisture	21,6 / 232,7	240	240	200	240	160	200	200	200	200	9200 / 20280	50 / 538,5	4800 / 2880	PH1200 / PV4000
	Malting barley max. 15% moisture			30											
	Malt max. 4% moisture			160											
	Industrial cleaning max. 15% moisture		200	200	160	200	120	160	160	160	160				
	Rape seed 98% max. 9% moisture										80				
<b>Mega 168</b>	Precleaning max. 20% moisture	32,4 / 348,3	360	360	300	360	240	300	300	300	300	11400 / 25125	85 / 91,5	5000 / 3000	PH800 / PV7500
	Malting barley max. 15% moisture			45											
	Malt max. 4% moisture			240											
	Industrial cleaning max. 15% moisture		300	300	240	300	200	240	240	240	240				
	Rape seed 98% max. 9% moisture										90				

All capacities are indicated in tons per hour





## Full-width shaker feeder

- has infinitely variable adjustment of the feed capacity via a separate control panel
- ensures uniform flow over the entire width of the screen
- is self-cleaning
- considerably improves air cleaning, since the product hits the pre-suction area in a uniform manner
- is gentle with respect to leguminous seeds, paddy rice, etc.
- ensures optimum capacity utilisation of the machine
- ensures no downtime due to blocked inlets
- requires no cleaning when changing products

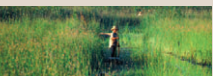
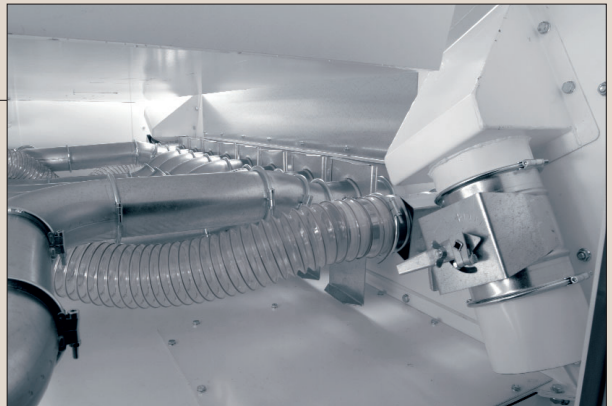


## Feed roller

- has an adjustable capacity shutter in combination with infinitely variable speed control of the feed roller, which controls the feed capacity
- is not affected by lightweight waste material and large impurities such as stones, etc.
- has a built-in spring-loaded safety device which protects the feed roller against damage

## Combined dust extraction

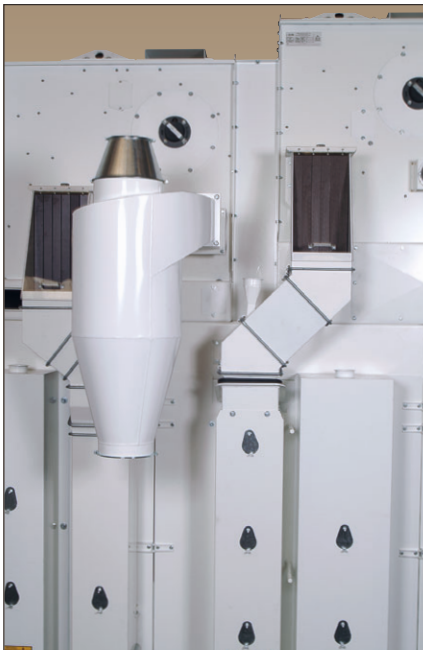
- from the feed unit and screen section
- ensures a high degree of cleanliness in both screen boxes
- prevents exhaust of dust-filled air from the screen section





## Recirculating air for pre-suction and post-suction system

- built as two separate air recirculation units
- lowers the need for external air to 20% in relation to traditional systems
- can be connected to existing central aspiration systems due to the small air volume
- reduces plant and operating costs of aspiration
- reduces energy consumption



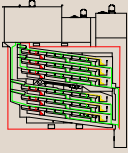
## Recirculating pre-suction

- is built as a separate system to ensure precise and independent cleaning of the air
- improves the cleaning effect of the screens and results in a higher capacity



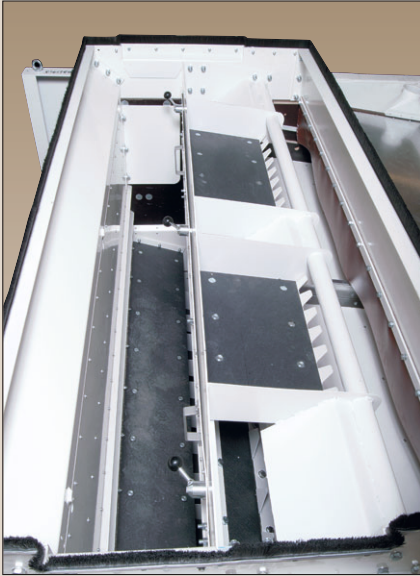
## Screw conveyor outlet for lightweight waste

- ensures continuous discharge of dust and waste from the air system via screw conveyors
- has finger flaps to ensure optimal dust separation in the expansion chamber by preventing false air from entering the chamber



## Screen boxes in plywood covered with Swedotex film

- are moisture-resistant and insect-resistant, and approved by the food industry
- are constructed with replaceable wear plates and screen runners in exposed areas
- have a long lifetime due to the fact that the plywood easily copes with the vibrations of the screen box
- give less resonance owing to the use of plywood, thus resulting in a better working environment



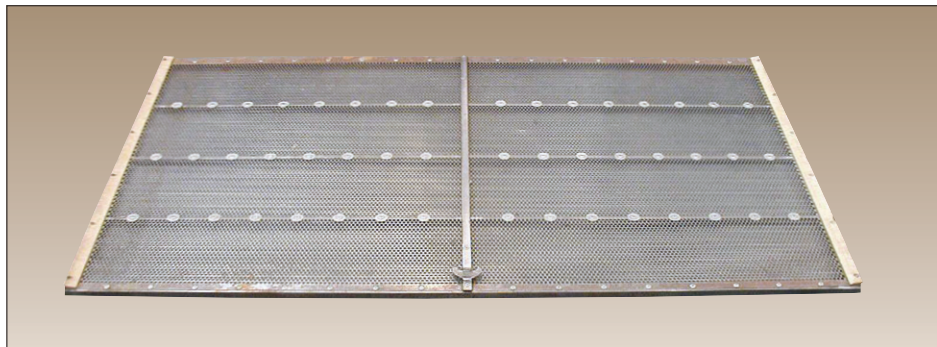
## Distributor

- ensures 50% distribution of the grain flow via the top and bottom screen boxes respectively
- 50% and 33% distributors ensure distribution of the grain flow in each screen box between various screen rows

## Change of product flow

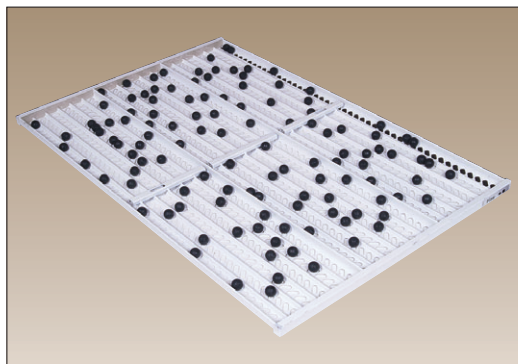
- allows several different product flows according to the capacity, product, number of fractions, etc.
- by means of up to four different diagrams in the cleaner
- ensures excellent purity and minimum waste
- is easily carried out by changing the size of the screens and the position of the outlet trays
- the machine can be used as a pre-cleaner, industrial cleaner or fine cleaner





### Cimbria Delta screens for all purposes

- are available with round and oblong holes from 0.3 to 25.0 mm
- are also available as wire-mesh screens for special products
- have as standard holes in the screen plates with very small tolerances, thus ensuring minimum cleaning loss
- are available in a standard size of 1000 mm (L) x 1800 mm (W) = 1.8 m<sup>2</sup>, which can be used in all Mega cleaners, thus reducing the number of screens required

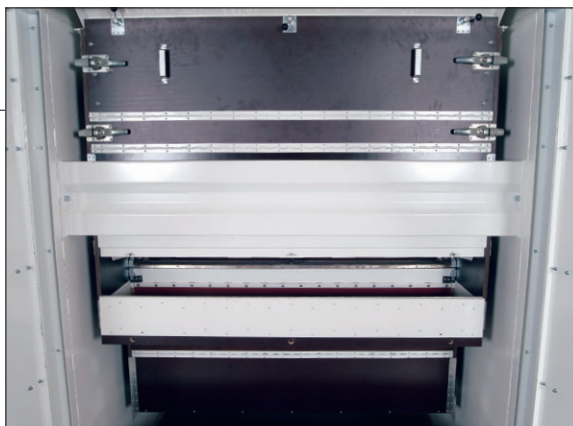


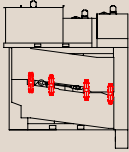
### Ball box

- ensures efficient cleaning of screens by means of rubber balls which are food-grade approved
- can maintain the cleaning effect at extremely low temperatures as the rubber balls are moulded in a material particularly well-suited to the task
- is cast in one piece in order to prevent trapped seeds, etc. (self-cleaning)
- is separately mounted in the screen box, which enables a quick change of screens without removing the ball boxes

### Access to the screens

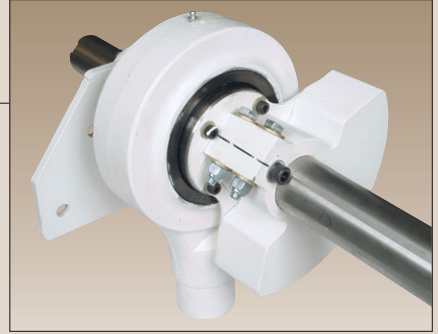
- the access hatches have snap-action locks
- the hatches are small and hinged at the bottom
- rapid changing of screens





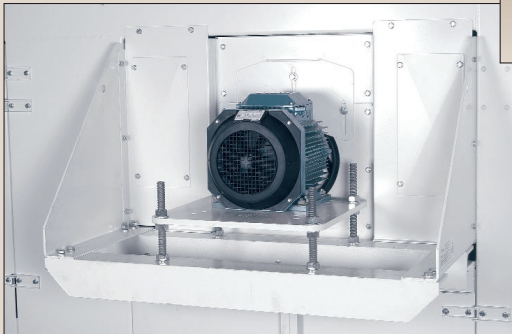
## Balanced eccentric system

- is fitted with counterweights that ensure smooth running
- results in minimum stress on buildings and steel structures
- is fitted with »heavy duty« bearings
- ensures maximum utilisation of the cleaning effect of the screens owing to carefully matched stroke and speed of rotation



## Motors

- are mounted externally, thus resulting in rapid and simple adjustment and replacement of the V-belts



## Suspension of screen boxes

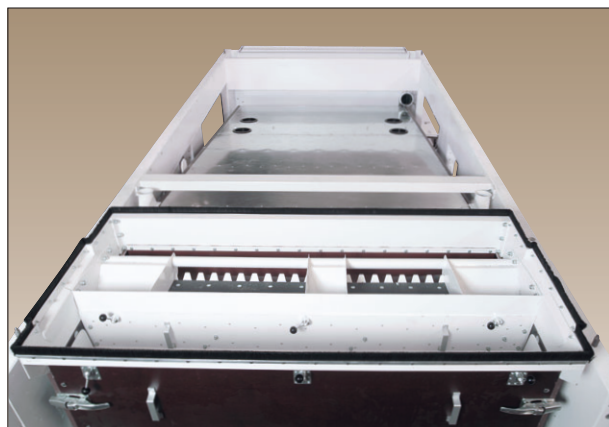
- the screen boxes are suspended in Rosta suspension units with moveable parts in rubber
- prevents transmission of vibrations to buildings and other machines
- ensures that the machine can be located almost anywhere without expensive foundations needing to be established
- balancing of the dynamic forces in the machine ensures extended operation without repair





## Totally inclosed cleaners

- the cleaners are totally closed
- the doors are an integral part of the waste pipe system
- easy and rapid access to replace outlet trays when changing flow



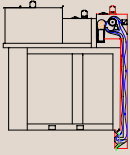
## Covering of screen sections

- both screen sections are covered with galvanised plate with rubber inspection hatches
- there is dust extraction from each screen box

## Sampling

- handy sampler
- easy to take samples from the various outlet trays





## Recirculating post-suction unit

- ensures the highest purity of the product by means of the extraction of lightweight particles such as empty kernels, husks and dust, etc. when the product exits the cleaner via the exhaust unit



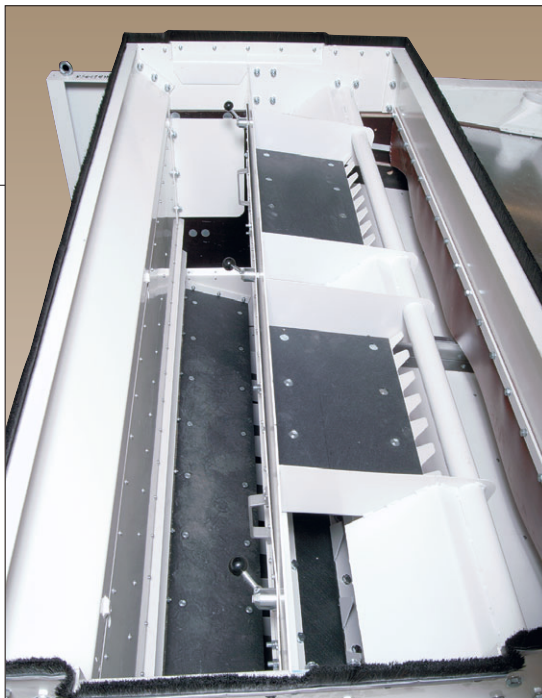
## Exhaust unit for clean product

- distributes the recirculated air so that all clean product is aerated
- the remaining lightweight kernels and dust particles are separated
- fresh air is supplied at the same rate as the air that is removed in the mini-cyclone



## Wear plates

- replaceable PEHD 1000 and Hardox wear plates are located at all exposed surfaces
- easy to replace
- repair intervals are extended
- repair costs are reduced



## Example of wear plates





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