

# REVOLVING SCREEN SEPARATOR GDIA



The Satake Revolving Screen Separator GDIA has been specifically designed for the separation of large impurities from free flowing materials at very high capacities.

The most common uses for the machine are grain pre-cleaning, high capacity screening of powdery material and the screening of animal feed products.

Used at the intake of grain silos, flour mills, feed mill and other processing utilities, it is ideally suited for the separation of material such as straw, string, paper, wood, maize cobs, stones etc. from the main product.

The Satake Drum Separator thus reduces the amount of wear and tear on the subsequent machinery in the processing plant while improving their efficiency and also ensures more hygienic bulk storage conditions for the product.

## GDIA Features:

1. High capacity with excellent cleaning efficiency
2. Rugged, maintenance free design
3. Low space and power requirements
4. Easy installation
5. Rapid and simple screen replacement
6. Two piece drum for optimal performance size selection

## Operational Principle

Material is fed through a curved inlet chute to the inside of a revolving perforated sheet metal drum. Here the product falls through the perforations whereas the coarse impurities are retained in the drum. Debris lifting paddles fixed to the inner part of the rotating drum ensure that impurities are unable to concentrate on the surface of the drum to prevent passage of product through the apertures. An extraction spiral inside the drum causes coarse impurities to be conveyed to the large overtails outlet that is situated beneath the inlet at the head of the machine.

The spiral as the secondary function of ensuring that good grain cannot simply be carried over the impurities outlet with the coarse material, but is retained in the drum long enough to fall through the screen.

The sieve drum is sub-divided into a feed section and a discharge section to ensure that optimal performance dimensions may be chosen for each particular application. A full length brush cleaner ensures that the sieving efficiency is maximized at all times.

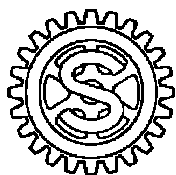
## Construction

Sturdy, long lasting and hygienic construction. Simple in design. All metal fabrication with side inspection door. Two piece perforated metal drum with extraction spiral. Strong nylon bristled full length brush cleaner. Machine incorporates feed inlet spout, throughs and tailing hoppers and general exhaust connection. Direct coupled geared motor drive with robust trouble-free bearing assembly.

## Optional Features

A variable speed drive can be supplied for absolute selection of rotational speed for multi-purpose application.

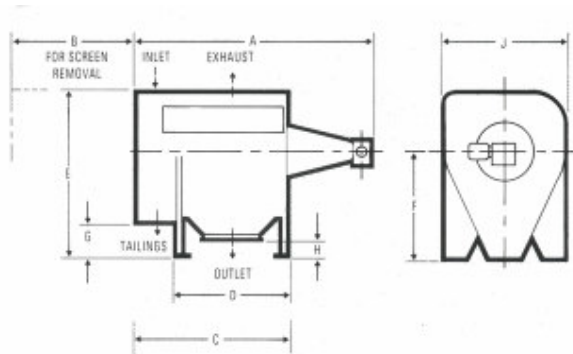
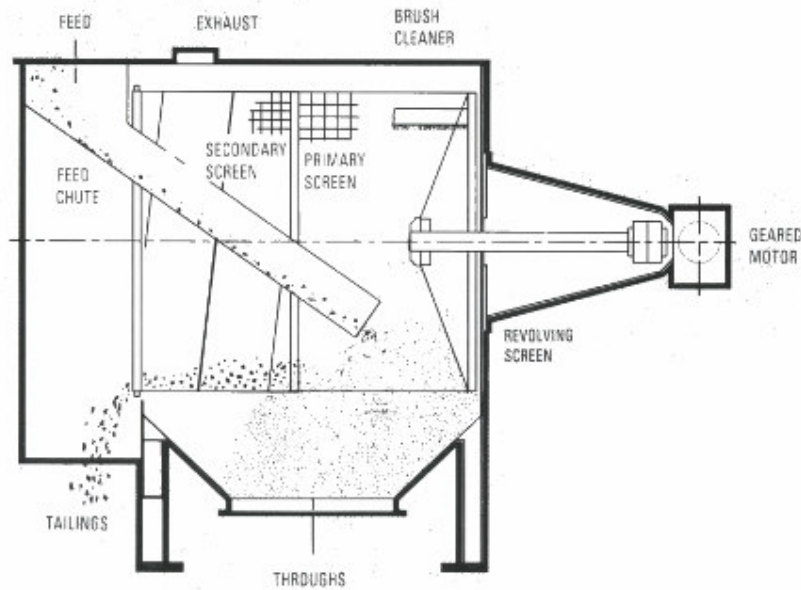
All Satake products are the subject of continuous development and, as a result, their specification may change and differ in detail from that outlined in this leaflet.



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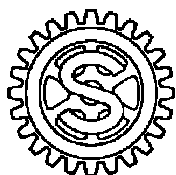
# REVOLVING SCREEN SEPARATOR GDIA



Machine Type	GDIA	
Dimensions (mm)		
A	2280	
B	1200	
C	1445	
D	1072	
E	1600	
F	1040	
G	355	
H	190	
J	1150	
Motor Rating kW	0.37	
Exhaust Requirement m <sup>3</sup> /min	12	
Approximate Shipping Data		
Weight kg	Nett	515
	Gross	778
Volume m <sup>3</sup>	Unpacked	4.49
	Packed	6.23

Product	Cleaning capacity t/h (dependent on perforation size)
Wheat	200
Rye	200
Cargo Rice	200
Soya	120
Maize	100
Paddy	70
Oats	60
Barley	60
Cocoa	60
Pellets 550 kg/m <sup>3</sup>	35
Dense Feed Meals 650 kg/m <sup>3</sup>	60
Light Feed Meals 500 kg/m <sup>3</sup>	25

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