

# SYNMEC

## QSX-85 Destoner

Professional stone remove from your seed or grain

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The world top Manufacturer for Grain Cleaning Solutions  
Adviser Seed Processing

# Qsx-85 Destoner



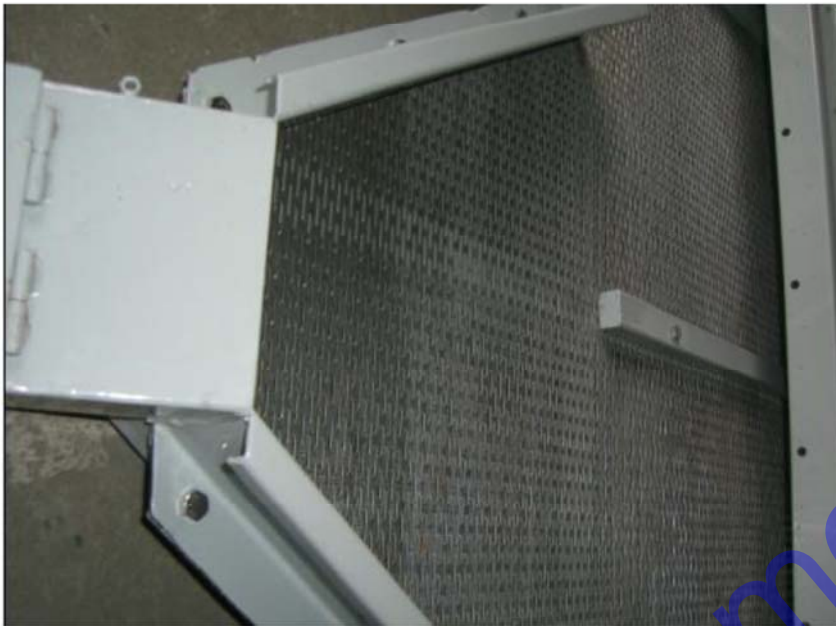
## Parameter:

Model	Qsx-85
Capacity	5000 kg
Vibration motor	Y2-80M1-4,0.55 KW,1390r/min
Air fan motor	3Kw
Dimension (L*W*H)	1300×1500×3200 mm
Weight	400 kg

## Introduction:

QXS-85 Destoner is applied for efficient separation of stones and pebbles, glass, and other high-density impurities from the stream of grain, according to the difference in specific weight.

## Working principle:



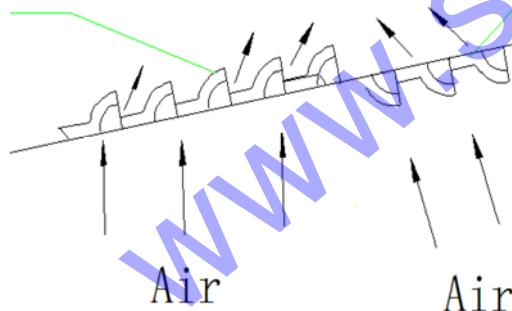
### Fish scale sieve

(efficiency working size: 1270X810mm)

The sieve hole size is decided by processing material size requirement. Destoner can process different material by change the sieve.

Stone removing on  
fish-scale hole

Fish-scale hole in front  
sieve



The direction of fish-scale  
hole on the sieve. Be sure  
to assembly as the right  
direction.

The working table is covered with a woven wire mesh bed, through which air flows from below. Heavy impurities such as stones are not lifted by the air cushion and stay on the mesh bed. The vibratory motion of the table causes this heavy material to be transported to the beginning of the regulating plate at the far end of the machine.

Under this plate, the air flows in an opposite direction to the movement of grain on the working table. Due to this direction of air motion stones are separated from the product and moved to the stones outlet.



## Destoner details:



Grain inlet (Φ140mm)



Grain outlet



Stones outlet



Air blower (air volume adjustable  
3000-4000 Cubic meter/hour)



Power distribution box  
(Clearly indication of each button function)



Soft connecting pipe, avoid air leakage.  
The processing requires high sealing demand.



Observation window, you can clearly  
observe material condition on sieves.

## Destoner vibrating system details:



There are four bearing sets on the Eccentric shaft, which need wash and lubricate every year. Also during the running, need pay attention on the temperature rising of bearing and lubricate



### Data reference:

Main axle rotate speed (R/MIN)	450-460
Amplitude (MM)	5
Stone removing sieve angle	100 - 140



In the vibratory system, there is no gap between the rubber bearing and axle, the shaking support by elastic force of rubber spring. Therefore, there is fatigue and aging damage phenomenon, should be pay attention on this during maintenance.