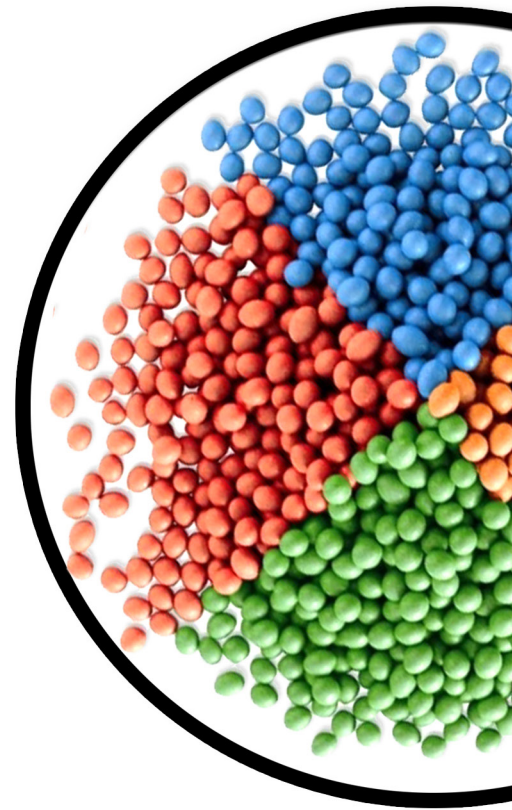




ESSAR
ENVIRO AIR SYSTEMS

SEED COATING MACHINE



About us:

Established in the year 2007, at Hyderabad, Telangana, India, we "Essar Enviro Air Systems" are one of the prominent manufacturers, suppliers and exporters of Air Pollution Control Systems And material handling equipments. We are one of the pioneers of this exponentially growing industry, and have contributed heavily to our line of work. Besides we have been involved in this field for more than one decade, and have successfully served numerous clients, who are spread across diverse industries.

We at ESSAR, are introducing seed coating or treater machine to compete with the growing needs of several agricultural and seed industries. Compare to other seed coating machines in the market, ESSAR treater is high in quality with all automation at reasonable cost.

Treater Machine Principle

The Essar treater machine is designed for the application of coating value added seeds with costly seed treating materials. The system is a continuous batch operation utilising a highly accurate electronic scale together with a highly accurate chemical dosing system controlled by a PLC. The system provides improved seed coverage and a more uniform distribution of treatment materials on the seed as compared to traditional continuous operating drum type treaters.

The heart of the treater machine is the mixing chamber, consisting of stainless steel cylindrical housing with a rotation bottom or internal rotor. The seed is gently dropped from the continuous batch electronic scale into the chamber onto the rotor. This rotor moves the seed gently up the stationary chamber side wall causing a folding of seed from outward to inward in the chamber. A spinning disk in the centre of the mixing chamber on which the treating materials are delivered from the PLC controlled dosing system atomises the liquid treating materials into the vertical seed layer. This provides a highly intensive uniform application of seed treatment material on each kernel of seed. All kind of treating materials, liquids and powders, can be applied effectively in this system.

Primary Features

*Using a Treater with interaction of mixing chamber and spinning disk.

Primary Advantages

- * Equal application of seed treatments from seed to seed
- * Improved uniform coverage and appearance from seed to seed
- * Accurate application of expensive seed treatment materials +2%. Flexible operation for applying the agents.
- * No waste of product due to startup and shutdown. No risk of under- and overapplications of seed treatment materials.

Primary Benefits

- * More uniform field performance
- * Significant saving in seed treatment materials
- * Excellent seed appearance
- * Safety of a good quality for the future's market

Electronic Scale

- *Feature: Electronic scale Filling is done by using gross and fine flow
- *Advantage: Electronic load cells instead of a mechanical system
Exact filling of the scale within +0.25% of max. weight
- *Benefit: Simple adjusting of the weight by the scale's controller improved accuracy of application

PLC Control

- *Feature: New Generation of display coloured and animated screen
- *Advantage: Easier access and setup Better process-overview
- *Benefit: With USB port for downloading recipes (optional) simple to teach operator

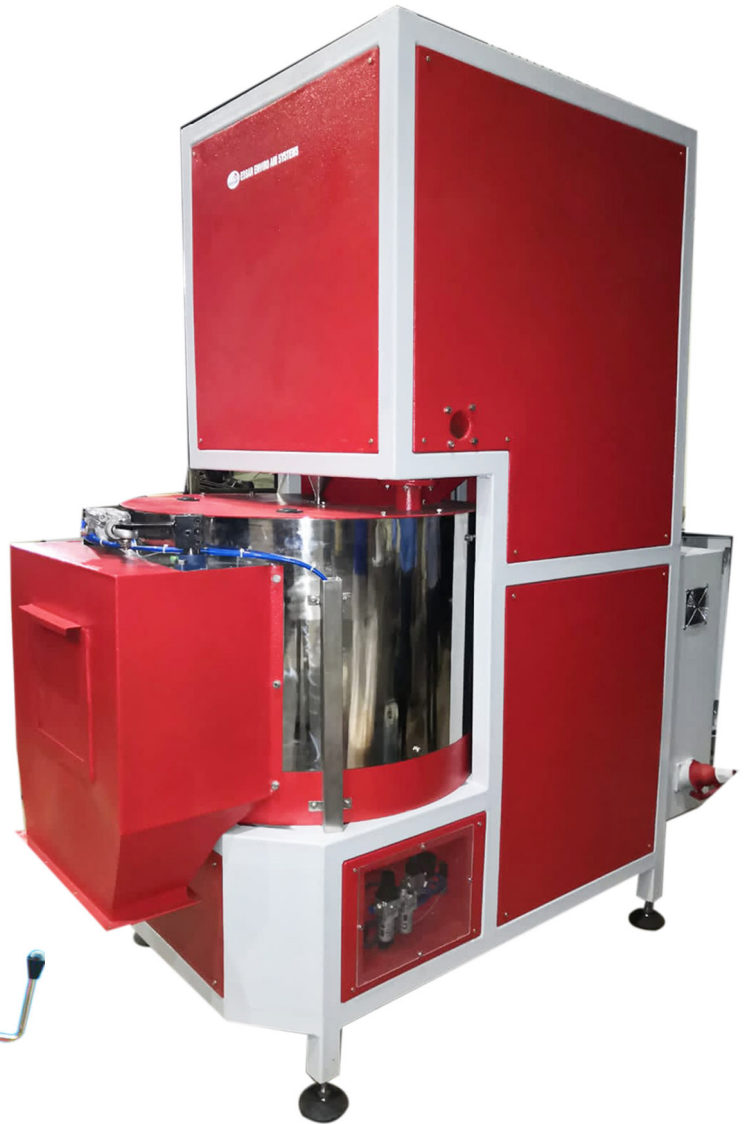


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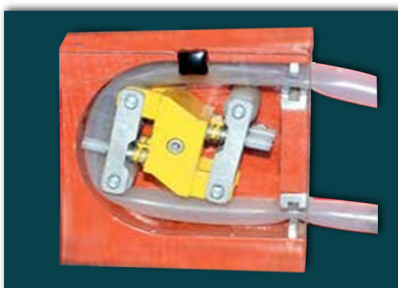
EEAS-1560



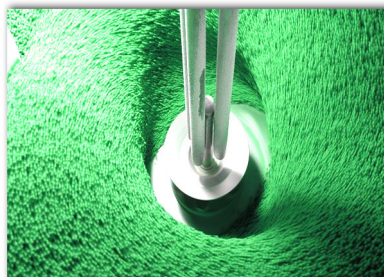
EEAS-6060



EEAS-1060



Dossing Pump



Chemical Mix



Chemical Tank

TECHNICAL DATA

ESSAR SCM		SCM 1060	SCM 1560	SCM 4060	SCM 6060
BATCH SIZE (wheat)	Kg (lbs)	10(22)	15(33)	30(66)	50(110)
Nominal Capacity, Cycle time	Batches/hr	50-100 depend upon operator	120-144	120-144	120-144
Cycle time	Sec/Cycle	-----	25 – 30	25 – 30	25 – 30
Capacity (max) *	Tones/hr	1.0	1.8	4.0	6.0
Feeding Type		Manually	Peddler	Peddler / Volumetric	Volumetric / Weighmetric
Type of Operation		Manually/ Simi Automatic	Simi/ Fully PLC controlled	Fully PLC controlled	Fully PLC /HMI controlled
Power Supply (Appr)	KW(HP)	2.2 (3.0)	3.7 (5.0)	5.0 (7.5)	5.0 (7.5)

* Above mentioned capacities calculated on wheat basis

ESSAR OTHER PRODUCTS



Cleated Belt Conveyor



Seed Blending Machine



Dust Extraction System



Drum Dryer



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